



The bidi Package

Source documentation for [version 25.12.06](#)

*to my Master, **Ferdowsi The Great***

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/xepersian/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

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The *bidi* Package

Bidirectional typesetting with plain \TeX and \LaTeX formats in Xe \TeX and Lua \TeX engines

Source documentation for [version 25.12.06](#)

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December 6, 2025

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*Thanks to the `bidi-tex` GitHub organization consisted of David Carlisle and other members of the \LaTeX team for maintaining the package in the period 2018–2020.

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1 File amsart-xetex-bidi.def

```
1 \ProvidesFile{amsart-xetex-bidi.def}[2025/09/30 v1.2 bidi adaptations for amsart class for X
2 \def\@tocline#1#2#3#4#5#6#7{\relax
3   \ifnum #1>\c@tocdepth % then omit
4   \else
5     \par \addpenalty\@secpenalty\addvspace{#2}%
6     \begingroup \hyphenpenalty\@M
7     \@ifempty{#4}{%
8       \@tempdima\csname r@tocindent\number#1\endcsname\relax
9     }{%
10      \@tempdima#4\relax
11    }%
12    \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
13    \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16    \nobreak
17  \endgroup
18 \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
25   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27   \kern-.4\p@
28   \nointerlineskip
29   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
30   \kern11\p@\kern-\footnotesep}
31 \def\left@footnoterule{\kern-.4\p@
32   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
33
34
35 \long\def\@footnotetext#1{%
36   \insert\footins{%
37     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
38     \reset@font%
39     \bidi@footnotetext@font% \normalfont\footnotesize
40     \interlinepenalty\interfootnotelinepenalty
41     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
42     \floatingpenalty\@MM \hsize\columnwidth
43     \@parboxrestore \parindent\normalparindent \sloppy
44     \protected@edef\@currentlabel{%
45       \csname p@footnote\endcsname\@thefnmark}%
46     \@makefnmark%
47     \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
48
49 \long\def\@RTLfootnotetext#1{%
50   \insert\footins{%
51     \@RTLtrue%
52     \reset@font%
```



```

53 \bidi@RTLfootnotetext@font% \normalfont\footnotesize
54 \interlinepenalty\interfootnotelinepenalty
55 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
56 \floatingpenalty\@MM \hsize\columnwidth
57 \@parboxrestore \parindent\normalparindent \sloppy
58 \protected@edef\@currentlabel{%
59 \csname p@footnote\endcsname\@thefnmark}%
60 \makefnintext{%
61 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
62
63
64
65 \long\def\@LTRfootnotetext#1{%
66 \insert\footins{%
67 \RTLfalse%
68 \reset@font%
69 \bidi@LTRfootnotetext@font% \normalfont\footnotesize
70 \interlinepenalty\interfootnotelinepenalty
71 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
72 \floatingpenalty\@MM \hsize\columnwidth
73 \@parboxrestore \parindent\normalparindent \sloppy
74 \protected@edef\@currentlabel{%
75 \csname p@footnote\endcsname\@thefnmark}%
76 \makefnintext{%
77 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
78
79
80 \footdir@temp\footdir@ORG\bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
81 \footdir@temp\footdir@ORG\bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
82 \footdir@temp\footdir@ORG\bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
83
84 \renewenvironment{thebibliography}[1]{%
85 \@bibtitlestyle
86 \normalfont\bibliofont\labelsep .5em\relax
87 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
88 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
89 \bidi@thebibliography@font@hook%
90 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
91 \leftmargin\labelwidth \advance\leftmargin\labelsep
92 \usecounter{enumiv}}%
93 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
94 \sfcode`\.=\@m
95 }{%
96 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
97 \endlist
98 }
99 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
100 \columnseprule\z@ \columnsep 35\p@
101 \indextitlestyle
102 \thispagestyle{plain}%
103 \let\item\@idxitem
104 \parindent\z@ \parskip\z@\@plus.3\p@\relax
105 \ifRTL\raggedleft\else\raggedright\fi
106 \hyphenpenalty\@M

```



```

107 \footnotesize}
108 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
109 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
110 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
111 \def\maketitle{\par
112 \@topnum\z@ % this prevents figures from falling at the top of page 1
113 \setcopyright
114 \thispagestyle{firstpage}% this sets first page specifications
115 \uppercasenonmath\shorttitle
116 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
117 \else \andify\shortauthors
118 \fi
119 \@maketitle@hook
120 \begingroup
121 \@maketitle
122 \toks@{\xp{\shortauthors}\@temptokena\xp{\shorttitle}}%
123 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
124 \edef\@tempa{%
125 \nx\markboth{\the\toks4
126 \nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
127 \@tempa
128 \endgroup
129 \c@footnote\z@
130 \cleartopmattertags
131 }

```

2 File adjmulticol-xetex-bidi.def

```

132 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol p
133 \def\adjmulticols#1#2#3{\col@number#1\relax
134 \def\@tempa{#2}%
135 \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
136 \def\@tempa{#3}%
137 \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
138 \ifnum\col@number<\@ne
139 \PackageWarning{adjmulticol}%
140 {Using ``\number\col@number'
141 columns doesn't seem a good idea.^^J
142 I therefore use one columns instead}%
143 \col@number\@ne\fi
144 \ifnum\col@number>10
145 \PackageError{adjmulticol}%
146 {Too many columns}%
147 {Current implementation doesn't
148 support more than 10 columns.%
149 \MessageBreak
150 I therefore use 10 columns instead}%
151 \col@number10 \fi
152 \ifx\@footnotetext\mult@footnotetext\else
153 \let\orig@footnotetext\@footnotetext
154 \let\@footnotetext\mult@footnotetext
155 \fi
156 \ifx\@LTrfootnotetext\mult@LTrfootnotetext\else
157 \let\orig@LTrfootnotetext\@LTrfootnotetext

```




```

158     \let\@LTRfootnotetext\mult@LTRfootnotetext
159     \fi
160     \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
161         \let\orig@RTLfootnotetext\@RTLfootnotetext
162         \let\@RTLfootnotetext\mult@RTLfootnotetext
163     \fi
164     \@ifnextchar[\adjmult@cols{\adjmult@cols[]}]{}
165     \let\adjmc@page@sofar@orig=\page@sofar

```

3 File algorithm2e-xetex-bidi.def

```

166 \ProvidesFile{algorithm2e-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for algorithm2e p
167 \expandafter\ifx\cscname algocf@within\endcsname\relax% if \algocf@within doesn't exist
168 \else%
169     else
170 \renewcommand\thealgocf{\cscname the\algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
171 \fi
172 \ApplyPatchIfPackageLoadedF{color}{%
173     \bidi@patchcmd{\@algocf@start}{\bgroup}{%
174         \bgroup
175         \if@RTL
176             \beginR
177         \else
178             \beginL
179         \fi
180     }{}{}
181     \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{%
182         \if@RTL
183             \endR
184         \else
185             \endL
186         \fi
187     \egroup
188     \end{lrbox}}%
189 }{}{}
190 \bidi@patchcmd{\algocf@makecaption}{\hbox}{%
191     \if@RTL
192         \hboxR
193     \else
194         \hboxL
195     \fi
196 }{}{}
197
198 \@ifpackagewith{algorithm2e}{algonl}{%
199 \renewcommand{\theAlgoLine}{\expandafter\cscname the\algocf@float\endcsname\@SepMark\arabic{A
200 }}{}
201
202 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
203
204 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
205
206 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}

```



4 File amsbook-xetex-bidi.def

```
207 \ProvidesFile{amsbook-xetex-bidi.def}[2025/09/30 v1.3 bidi adaptations for amsbook class for
208 \def\tocline#1#2#3#4#5#6#7{\relax
209 \ifnum #1>\c@tocdepth % then omit
210 \else
211 \par \addpenalty\@secpenalty\addvspace{#2}%
212 \begingroup \hyphenpenalty\@M
213 \@ifempty{#4}{%
214 \@tempdima\csname r@tocindent\number#1\endcsname\relax
215 }{%
216 \@tempdima#4\relax
217 }%
218 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi
219 \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
220 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
221 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
222 \nobreak
223 \endgroup
224 \fi}
225 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
226 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
227 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
228 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
229 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
230 \columnseprule\z@ \columnsep 35\p@
231 \@indextitlestyle
232 \thispagestyle{plain}%
233 \let\item\@idxitem
234 \parindent\z@ \parskip\z@\@plus.3\p@\relax
235 \if@RTL\raggedleft\else\raggedright\fi
236 \hyphenpenalty\@M
237 \footnotesize}
238 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
239 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
240 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
241 \def\right@footnoterule{%
242 \kern-.4\p@
243 \nointerlineskip
244 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
245 \kern11\p@\kern-\footnotesep}
246 \def\left@footnoterule{\kern-.4\p@
247 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
248
249 \long\def\@footnotetext#1{%
250 \insert\footins{%
251 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
252 \reset@font%
253 \bidi@footnotetext@font% \normalfont\footnotesize
254 \interlinepenalty\interfootnotelinepenalty
255 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
256 \floatingpenalty\@MM \hsize\columnwidth
257 \@parboxrestore \parindent\normalparindent \sloppy
258 \protected@edef\@currentlabel{%
```



```

259     \csname p@footnote\endcsname\@thefnmark}%
260     \@makefnhtext{%
261         \rule{z@footnotesep}{\ignorespaces#1\unskip\strut\par}}
262
263 \long\def\@RTLfootnotetext#1{%
264     \insert\footins{%
265         \@RTLtrue%
266         \reset@font%
267         \bidi@RTLfootnotetext@font% \normalfont\footnotesize
268         \interlinepenalty\interfootnotelinepenalty
269         \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
270         \floatingpenalty\@MM \hsize\columnwidth
271         \@parboxrestore \parindent\normalparindent \sloppy
272         \protected@edef\@currentlabel{%
273             \csname p@footnote\endcsname\@thefnmark}%
274         \@makefnhtext{%
275             \rule{z@footnotesep}{\ignorespaces#1\unskip\strut\par}}}
276
277
278 \long\def\@LTRfootnotetext#1{%
279     \insert\footins{%
280         \@RTLfalse%
281         \reset@font%
282         \bidi@LTRfootnotetext@font% \normalfont\footnotesize
283         \interlinepenalty\interfootnotelinepenalty
284         \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
285         \floatingpenalty\@MM \hsize\columnwidth
286         \@parboxrestore \parindent\normalparindent \sloppy
287         \protected@edef\@currentlabel{%
288             \csname p@footnote\endcsname\@thefnmark}%
289         \@makefnhtext{%
290             \rule{z@footnotesep}{\ignorespaces#1\unskip\strut\par}}}
291
292
293
294 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
295 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
296 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
297
298 \renewenvironment{thebibliography}[1]{%
299     \@bibtitlestyle
300     \normalfont\bibliofont\labelsep .5em\relax
301     \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
302     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
303     \bidi@thebibliography@font@hook%
304     \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
305         \leftmargin\labelwidth \advance\leftmargin\labelsep
306         \usecounter{enumiv}}%
307     \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
308     \sfcode`\.=\@m
309 }{%
310     \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
311     \endlist
312 }

```



```

313 \def\makechapterhead#1{\global\topskip 7.5pc\relax
314 \begingroup
315 \fontsize{\@xivpt}{18}\bfseries\centering
316 \ifnum\c@secnumdepth>\m@ne
317 \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
318 \rlap{\vbox to\z@{\vss
319 \centerline{\normalsize\mdseries
320 \uppercase\@xp{\chaptername}\enspace\thechapter}
321 \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
322 #1\par \endgroup
323 \skip@34\p@ \advance\skip@-\normalbaselineskip
324 \vskip\skip@ }
325 \def\maketitle{\par
326 \@topnum\z@ % this prevents figures from falling at the top of page 1
327 \begingroup
328 \@maketitle
329 \endgroup
330 \c@footnote\z@
331 \def\do##1{\let##1\relax}%
332 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
333 \do\author \do\@xauthor \do\address \do\@xaddress
334 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
335 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
336 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
337 }

```

5 File amsmath-xetex-bidi.def

```

338 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
339 \let\veqno=\eqno
340 \iftagsleft@ \let\veqno=\leqno \fi
341 \renewcommand{\numberwithin}[3][\arabic]{%
342 \ifundefined{c@#2}{\@nocounterr{#2}}{%
343 \ifundefined{c@#3}{\@nocnterr{#3}}{%
344 \addtoreset{#2}{#3}%
345 \exp\xdef\csname the#2\endcsname{%
346 \exp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
347 }
348 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@@italicco
349
350 \bidi@patchcmd\math@cr@@@align\place@tag{%
351 \place@tag
352 \else
353 \place@tag
354 }{}{}
355

```

6 File amstext-xetex-bidi.def

```

356 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
357 \def\textdef@#1#2#3{\hbox{%
358 \everymath{#1}%
359 \let\fontsize#2\selectfont
360 \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}}

```



7 File amsthm-xetex-bidi.def

```
361 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for X
362 \def\@thmcountersep{\@SepMark}
```

8 File array-xetex-bidi.def

```
363 \ProvidesFile{array-xetex-bidi.def}[2025/12/06 v0.8 bidi adaptations for array package for X
364 \def\@testpach{\@chclass
365 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
366 \ifnum \@lastchclass=7 5 \else
367 \ifnum \@lastchclass=8 \tw@ \else
368 \ifnum \@lastchclass=9 \thr@@
369 \else \z@
370 \ifnum \@lastchclass = 10 \else
371 \edef\@nextchar{\expandafter\string\@nextchar}%
372 \@chnum
373 \if \@nextchar c\z@ \else
374 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
375 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
376 \z@ \@chclass
377 \if \@nextchar |\@ne \else
378 \if \@nextchar !6 \else
379 \if \@nextchar @7 \else
380 \if \@nextchar <8 \else
381 \if \@nextchar >9 \else
382 10
383 \@chnum
384 \if \@nextchar m\thr@@ \else
385 \if \@nextchar p4 \else
386 \if \@nextchar b5 \else
387 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
388 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
389 \def\@tabular{%
390 \leavevmode
391 \UseTaggingSocket{tbl/hmode/begin}%
392 \hbox \bgroup\if@RTLtab\beginR \fi
393 \UseMathForPositioningText $%
394 \col@sep\tabcolsep
395 \let\d@llarbegin\beginR
396 \let\d@llarend\endR
397 \@kernel@tabular@init
398 \@tabarray}
399 \def\endtabular{\endarray\m@th $\if@RTLtab\endR\fi\egroup
400 \UseTaggingSocket{tbl/hmode/end}%
401 }
402 \expandafter\let\csname endtabular*\endcsname=\endtabular
403 \ExplSyntaxOn
404 \def\@array[#1]#2{
405 \@tempdima \ht \strutbox
406 \advance \@tempdima by\extrarowheight
407 \setbox \@arstrutbox \hbox{\vrule
408 \@height \arraystretch \@tempdima
409 \@depth \arraystretch \dp \strutbox
```



```

410         \@width \z@}%
411 \tbl_init_cell_data_for_table:
412 \begingroup
413 \@mkpream{#2}%
414 \tbl_count_table_cols:
415 \xdef\@preamble{
416     \noexpand \ar@ialign
417     \@halignto
418     \bgroup \@arstrut
419     \UseTaggingSocket{tbl/row/begin}
420     \tbl_init_cell_data_for_row:
421     \@preamble
422     \tabskip \z@ \cr}
423 \endgroup
424 \@arrayleft
425 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi \fi
426 \bgroup
427 \let \@sharp ##\let \protect \relax
428 \lineskip \z@
429 \baselineskip \z@
430 \mathsurround \z@
431 \let\\\@arraycr \let\tabularnewline\\%
432 \def\par{\ifnum\currentgrouptype=6~ \else\@par\fi}%
433 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
434 \UseTaggingSocket{tbl/init}
435 \@preamble
436 }
437 \let\@array\@array
438 \def\endarray {
439     \tbl_crcr:n{endarray}
440     \tag_socket_use_expandable:n { math/luamml/array/save }
441     \egroup
442     \tag_socket_use:n { tbl/finalize }
443     \tbl_restore_outer_cell_data:
444     \if@RTLtab\egroup\endR\egroup\fi
445     \egroup
446     \tag_socket_use:n { math/luamml/array/finalize }
447     \@arrayright \gdef\@preamble{}%
448 }
449 \def\array{\col@sep\arraycolsep
450     \def\d@llarbegin{$\tag_socket_use:n { math/luamml/array/initcol }}
451     \def\d@llarend
452     {
453         \tag_socket_use:nn { math/luamml/save/nn }{{}}{mtd}}
454         $
455         \tag_socket_use:nn { math/luamml/array/finalizecol}{\the\@chnum}
456     }
457     \def\@halignto{}%
458     \@RTLtabfalse
459     \@tabarray}
460 \ExplSyntaxOff

```

9 File article-xetex-bidi.def



```

461 \ProvidesFile{article-xetex-bidi.def}[2025/09/30 v1.2 bidi adaptations for standard article
462 \IfClassLoadedT{svmult}{\endinput}
463 \if@titlepage
464   \renewcommand\maketitle{\begin{titlepage}%
465     \let\footnotesize\small
466     \let\right@footnoterule\relax
467     \let\left@footnoterule\relax
468     \let\textwidth@footnoterule\relax
469     \let \footnote \thanks
470     \let \LTRfootnote \LTRthanks
471     \let \RTLfootnote \RTLthanks
472     \null\vfil
473     \vskip 60\p@
474     \begin{center}%
475       {\LARGE \@title \par}%
476       \vskip 3em%
477       {\large
478         \lineskip .75em%
479         \begin{tabular}[t]{c}%
480           \@author
481           \end{tabular}\par}%
482       \vskip 1.5em%
483       {\large \@date \par}%           % Set date in \large size.
484     \end{center}\par
485     \@thanks
486     \vfil\null
487   \end{titlepage}%
488   \setcounter{footnote}{0}%
489   \global\let\thanks\relax
490   \global\let\LTRthanks\relax
491   \global\let\RTLthanks\relax
492   \global\let\maketitle\relax
493   \global\let\@thanks\@empty
494   \global\let\@author\@empty
495   \global\let\@date\@empty
496   \global\let\@title\@empty
497   \global\let\title\relax
498   \global\let\author\relax
499   \global\let\date\relax
500   \global\let\and\relax
501 }
502 \else
503 \renewcommand\maketitle{\par
504   \begingroup
505     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
506     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
507     \long\def\@makefntext##1{\parindent 1em\noindent
508       \hb@xt@1.8em{%
509         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
510     \if@twocolumn
511       \ifnum \col@number=\@ne
512         \maketitle
513       \else
514         \twocolumn[\maketitle]%

```



```

515     \fi
516   \else
517     \newpage
518     \global\let\topnum\z@    % Prevents figures from going at top of page.
519     \@maketitle
520   \fi
521   \thispagestyle{plain}\@thanks
522 \endgroup
523 \setcounter{footnote}{0}%
524 \global\let\thanks\relax
525 \global\let\LTRthanks\relax
526 \global\let\RTLthanks\relax
527 \global\let\maketitle\relax
528 \global\let\@maketitle\relax
529 \global\let\@thanks\@empty
530 \global\let\@author\@empty
531 \global\let\@date\@empty
532 \global\let\@title\@empty
533 \global\let\title\relax
534 \global\let\author\relax
535 \global\let\date\relax
536 \global\let\and\relax
537 }
538 \def\@maketitle{%
539   \newpage
540   \null
541   \vskip 2em%
542   \begin{center}%
543     \let \footnote \thanks
544     \let \LTRfootnote \LTRthanks
545     \let \RTLfootnote \RTLthanks
546     {\LARGE \@title \par}%
547     \vskip 1.5em%
548     {\large
549       \lineskip .5em%
550       \begin{tabular}[t]{c}%
551         \@author
552       \end{tabular}\par}%
553     \vskip 1em%
554     {\large \@date}%
555   \end{center}%
556   \par
557   \vskip 1.5em}
558 \fi
559 \renewcommand*\l@part[2]{%
560   \ifnum \c@tocdepth >-2\relax
561     \addpenalty\@secpenalty
562     \addvspace{2.25em \@plus\p@}%
563     \setlength\@tempdima{3em}%
564     \begin{group
565       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
566       \parfillskip -\@pnumwidth
567       {\leavevmode
568         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par

```




```

569     \nobreak
570     \if@compatibility
571         \global\@nobreaktrue
572         \everypar{\global\@nobreakfalse\everypar{}}%
573     \fi
574 \endgroup
575 \fi}
576 \renewcommand*\l@section[2]{%
577     \ifnum \c@tocdepth >\z@
578         \addpenalty\@secpenalty
579         \addvspace{1.0em \@plus\p@}%
580         \setlength\@tempdima{1.5em}%
581         \begingroup
582             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
583             \parfillskip -\@pnumwidth
584             \leavevmode \bfseries
585             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
586             \hskip -\if@RTL\rightskip\else\leftskip\fi
587             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
588         \endgroup
589     \fi}
590 \renewcommand\left@footnoterule{%
591     \kern-3\p@
592     \hrule\@width.4\columnwidth
593     \kern2.6\p@}
594 \renewcommand\right@footnoterule{%
595     \kern-3\p@
596     \nointerlineskip
597     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
598     \kern2.6\p@}
599 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
600 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
601 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
602 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
603 \ApplyPatchIfPackageLoaded{nameref}{%
604     \bidi@patchcmd\NR@part\raggedright{%
605         \if@RTL\raggedleft\else\raggedright\fi
606     }{\bidi@warningnoline{Oops! patching `string\NR@part' failed}}}%
607     \bidi@patchcmd\NR@spart\raggedright{%
608         \if@RTL\raggedleft\else\raggedright\fi
609     }{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}}%
610 }{%
611     \bidi@patchcmd\@part\raggedright{%
612         \if@RTL\raggedleft\else\raggedright\fi
613     }{\bidi@warningnoline{Oops! patching `string\@part' failed}}}%
614     \bidi@patchcmd\@spart\raggedright{%
615         \if@RTL\raggedleft\else\raggedright\fi
616     }{\bidi@warningnoline{Oops! patching `string\@spart' failed}}}%
617 }
618 \renewenvironment{thebibliography}[1]
619     {\section*{\refname}%
620     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
621     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
622     \bidi@@thebibliography@font@hook%

```



```

623 \list{\@biblabel{\@arabic\c@enumiv}}%
624      {\settowidth\labelwidth{\@biblabel{#1}}%
625       \leftmargin\labelwidth
626       \advance\leftmargin\labelsep
627       \@openbib@code
628       \usecounter{enumiv}%
629       \let\p@enumiv\@empty
630       \renewcommand\theenumiv{\@arabic\c@enumiv}}%
631 \sloppy
632 \clubpenalty4000
633 \@clubpenalty \clubpenalty
634 \widowpenalty4000%
635 \sfcode\.\@m}
636 {\def\@noitemerr
637  {\@latex@warning{Empty `thebibliography' environment}}}%
638 \endlist}
639 \renewenvironment{theindex}
640      {\if@twocolumn
641       \@restonecolfalse
642       \else
643       \@restonecoltrue
644       \fi
645       \columnseprule \z@
646       \columnsep 35\p@
647       \twocolumn[\section*{\indexname}]%
648       \@mkboth{\MakeUppercase\indexname}%
649               {\MakeUppercase\indexname}%
650       \thispagestyle{plain}\parindent\z@
651       \parskip\z@ \@plus .3\p@\relax
652       \let\item\@idxitem}
653      {\if@restonecol\onecolumn\else\clearpage\fi}

```

10 File artikel1-xetex-bidi.def

```

654 \ProvidesFile{artikel1-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for artikel1 class f
655 \renewenvironment{theindex}{%
656 \if@twocolumn
657 \@restonecolfalse
658 \else
659 \@restonecoltrue
660 \fi
661 \columnseprule \z@
662 \columnsep 35\p@
663 \twocolumn[\section*{\indexname}]%
664 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
665 \thispagestyle{plain}\parindent\z@
666 \parskip\z@ \@plus .3\p@\relax
667 \let\item\@idxitem
668 }{%
669 \if@restonecol\onecolumn\else\clearpage\fi}
670 \renewcommand*\head@style{%
671 \interlinepenalty \@M
672 \hyphenpenalty=\@M \exhyphenpenalty=\@M
673 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```



```

674 \if@titlepage
675   \renewenvironment{abstract}{%
676     \titlepage
677     \null\vfil
678     \section*{\SectFont\abstractname}
679     \noindent\ignorespaces}
680   {\par\vfil\null\endtitlepage}
681 \else
682   \renewenvironment{abstract}{%
683     \if@twocolumn
684       \section*{\abstractname}%
685     \else
686       \bgroup\ifRTL\leftskip\else\rightskip\fi=\unitindent
687       \section*{\small\SectFont\abstractname}%
688       \noindent\ignorespaces
689     \fi}
690   {\if@twocolumn\else\par\egroup\fi}
691 \fi
692 \renewcommand*\@regtocline[3]{%
693   \ifnum #1>\c@tocdepth
694   \else
695     \vskip\z@\@plus.2\p@
696     {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
697     \ifRTL\rightskip\else\leftskip\fi\unitindent
698     \ifRTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
699     \parfillskip\z@
700     \@tempdima\unitindent
701     \parindent\z@
702     \leavevmode
703     \hbox{}\hskip -\ifRTL\rightskip\else\leftskip\fi\relax#2\nobreak
704     \hskip 1em \nobreak{\slshape #3}\par
705   }%
706 \fi}
707 \if@oldtoc
708 \renewcommand*\l@part[2]{%
709   \ifnum \c@tocdepth >-2\relax
710     \addpenalty\@secpenalty
711     \addvspace{2.25em \@plus\p@}%
712     \begingroup
713       \setlength\@tempdima{3em}%
714       \parindent \z@ \ifRTL\leftskip\else\rightskip\fi \@pnumwidth
715       \parfillskip -\@pnumwidth
716       {\leavevmode
717         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
718         \nobreak
719         \if@compatibility
720           \global\@nobreaktrue
721           \everypar{\global\@nobreakfalse\everypar{}}%
722         \fi
723       \endgroup
724   \fi}
725 \else
726 \renewcommand*\l@part{%
727   \ifnum \c@tocdepth >-2\relax

```



```

728 \addpenalty\@secpenalty
729 \addvspace{2.25em \@plus \p@}%
730 \@regtocline{0}%
731 \fi}
732 \fi
733 \if@oldtoc
734 \renewcommand*\l@section[2]{%
735 \addpenalty\@secpenalty
736 \addvspace{1.0em \@plus \p@}%
737 \setlength\@tempdima{1.5em}%
738 \begingroup
739 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
740 \parfillskip -\@pnumwidth
741 \leavevmode \bfseries
742 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
743 \hskip -\if@RTL\rightskip\else\leftskip\fi
744 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
745 \endgroup}
746 \else
747 \renewcommand*\l@section{\@regtocline{1}}
748 \fi
749 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
750 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
751 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
752 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
753 \renewenvironment{thebibliography}[1]
754 {\section*\refname}%
755 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
756 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
757 \bidi@thebibliography@font@hook%
758 \list{\@biblabel{\@arabic\c@enumiv}}%
759 {\settowidth\labelwidth{\@biblabel{#1}}%
760 \leftmargin\labelwidth
761 \advance\leftmargin\labelsep
762 \openbib@code
763 \usecounter{enumiv}%
764 \let\p@enumiv\@empty
765 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
766 \sloppy\clubpenalty4000\widowpenalty4000%
767 \sfcode\@. \@m}
768 {\def\@noitemerr
769 {\@latex@warning{Empty `thebibliography' environment}}}%
770 \endlist}
771 \renewcommand*\left@footnoterule{%
772 \kern-3\p@
773 \kern.5\baselineskip
774 \hrule\@width\unitindent
775 \kern.4\baselineskip
776 }
777 \renewcommand*\right@footnoterule{%
778 \kern-3\p@
779 \kern.5\baselineskip
780 \nointerlineskip
781 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }

```



```

782 \kern.4\baselineskip}
783 \if@titlepage
784 \renewcommand*\TitleFont{\rmfamily}
785 \renewcommand*\maketitle{%
786 \begin{titlepage}%
787 \let\footnotesize\small
788 \let\right@footnoterule\relax
789 \let\left@footnoterule\relax
790 \let\textwidth@footnoterule\relax
791 \let \footnote \thanks
792 \long\def\@makefnmark##1{\parindent\z@
793 \def\labelitemi{\textendash}\@revlabeltrue
794 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
795 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
796 \if@compatibility\setcounter{page}{0}\fi
797 \null\vfil
798 \vskip 60\p@
799 \begin{center}%
800 \TitleFont
801 {\LARGE \def\\{\penalty -\@M}
802 \if@allcaps
803 \expandafter\uc@nothanks\@title\thanks\relax
804 \else
805 \@title
806 \fi\par}%
807 \vskip 3em%
808 {\large
809 \lineskip .75em \parindent\z@
810 \begin{tabular}[t]{c}%
811 \if@allcaps
812 \expandafter\uc@authornothanks\@author\and\relax
813 \else
814 \@author
815 \fi
816 \end{tabular}\par}%
817 \vskip 1.5em%
818 {\large
819 \if@allcaps
820 \uppercase\expandafter{\@date}%
821 \else
822 \@date
823 \fi\par}%
824 \end{center}\par
825 \@thanks
826 \vfil\null
827 \end{titlepage}%
828 \setcounter{footnote}{0}%
829 \global\let\thanks\relax
830 \global\let\maketitle\relax
831 \global\let\@thanks\@empty
832 \global\let\@author\@empty
833 \global\let\@title\@empty
834 \global\let\@date\@empty
835 \global\let\title\relax

```



```

836 \global\let\author\relax
837 \global\let\date\relax
838 \global\let\and\relax
839 }
840 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
841 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
842 \futurelet\@tempa\uc@ax}
843 \def\uc@ax{%
844 \ifx\@tempa\relax
845 \else
846 \ \andname \ \expandafter\uc@authornothanks
847 \fi}
848 \def\uc@tx{\ifx\@tempa\relax
849 \else \expandafter\uc@ty \fi}
850 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
851 \else
852 \renewcommand*\maketitle{\par
853 \begin{group}
854 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
855 \def\@makefnmark{\rlap{%
856 \textsuperscript{\normalfont\@thefnmark}}}%
857 \long\def\@makefntext{\xmakefntext{%
858 \textsuperscript{\normalfont\@thefnmark}}}%
859 \if@twocolumn
860 \ifnum \col@number=\@one
861 \maketitle
862 \else
863 \twocolumn[\maketitle]%
864 \fi
865 \else
866 \newpage
867 \global\@topnum\z@
868 \maketitle
869 \fi
870 \thispagestyle{plain}\@thanks
871 \end{group}
872 \setcounter{footnote}{0}%
873 \global\let\thanks\relax
874 \global\let\maketitle\relax
875 \global\let\@maketitle\relax
876 \global\let\@thanks\@empty
877 \global\let\@author\@empty
878 \global\let\@title\@empty
879 \global\let\@date\@empty
880 \global\let\title\relax
881 \global\let\author\relax
882 \global\let\date\relax
883 \global\let\and\relax
884 }
885 \def\@maketitle{%
886 \newpage
887 \null
888 \vskip 2em%
889 \begin{center}%

```



```

890 \let \footnote \thanks
891 {\LARGE \TitleFont \@title \par}%
892 \vskip 1.5em%
893 {\large \TitleFont
894 \lineskip .5em%
895 \begin{tabular}[t]{c}%
896 \@author
897 \end{tabular}\par}%
898 \vskip 1em%
899 {\large \TitleFont \@date}%
900 \end{center}%
901 \par
902 \vskip 1.5em}
903 \fi

```

11 File artikel2-xetex-bidi.def

```

904 \ProvidesFile{artikel2-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for artikel2 class f
905 \renewenvironment{theindex}{%
906 \if@twocolumn
907 \@restonecolfalse
908 \else
909 \@restonecoltrue
910 \fi
911 \columnseprule \z@
912 \columnsep 35\p@
913 \twocolumn[\section*{\indexname}]%
914 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
915 \thispagestyle{plain}\parindent\z@
916 \parskip\z@ \@plus .3\p@\relax
917 \let\item\@idxitem
918 }{%
919 \if@restonecol\onecolumn\else\clearpage\fi}
920 \renewcommand*\@regtocline[3]{%
921 \ifnum #1>\c@tocdepth
922 \else
923 \vskip\z@ \@plus.2\p@
924 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
925 \if@RTL\righskip\else\leftskip\fi\unitindent
926 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
927 \parfillskip\z@
928 \@tempdima\unitindent
929 \advance\@tempdima by \othermargin
930 \parindent\z@
931 \leavevmode
932 \hbox{} \hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
933 \hskip 1em \nobreak{\slshape #3}\par
934 }%
935 \fi}
936 \if@oldtoc
937 \renewcommand*\l@section[2]{%
938 \addpenalty\@secpenalty
939 \addvspace{1.0em \@plus\p@}%
940 \setlength\@tempdima{1.5em}%

```



```

941 \begingroup
942 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
943 \parfillskip -\@pnumwidth
944 \leavevmode \bfseries
945 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
946 \hskip -\if@RTL\rightskip\else\leftskip\fi
947 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
948 \endgroup}
949 \else
950 \renewcommand*\l@section{\@regtocline{1}}
951 \fi
952 \if@oldtoc
953 \renewcommand*\l@part[2]{%
954 \ifnum \c@tocdepth >-2\relax
955 \addpenalty\@secpenalty
956 \addvspace{2.25em \@plus\p@}%
957 \begingroup
958 \setlength\@tempdima{3em}%
959 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
960 \parfillskip -\@pnumwidth
961 {\leavevmode
962 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
963 \nobreak
964 \if@compatibility
965 \global\@nobreaktrue
966 \everypar{\global\@nobreakfalse\everypar{}}%
967 \fi
968 \endgroup
969 \fi}
970 \else
971 \renewcommand*\l@part{%
972 \ifnum \c@tocdepth >-2\relax
973 \addpenalty\@secpenalty
974 \addvspace{2.25em \@plus \p@}%
975 \@regtocline{0}%
976 \fi}
977 \fi
978 \renewcommand*\head@style{%
979 \interlinepenalty \@M
980 \hyphenpenalty=\@M \exhyphenpenalty=\@M
981 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
982 \if@titlepage
983 \renewenvironment{abstract}{%
984 \titlepage
985 \null\vfil
986 \section*{\SectFont\abstractname}%
987 \noindent\ignorespaces}
988 {\par\vfil\null\endtitlepage}
989 \else
990 \renewenvironment{abstract}{%
991 \if@twocolumn
992 \section*{\abstractname}%
993 \else
994 \section*{\hskip\unitindent\small\SectFont\abstractname}%

```




```

995      \list{}\setlength\listparindent{\unitindent}%
996      \setlength\parindent    {\z@}%
997      \setlength\leftmargin   {\unitindent}%
998      \setlength\rightmargin  {\unitindent}%
999      \setlength\parsep      {\z@}}%
1000    \item[]%
1001  \fi}
1002  {\if@twocolumn\else\par\endlist\fi}
1003 \fi
1004 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
1005 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1006 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1007 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1008 \renewcommand*\left@footnoterule{%
1009   \kern-3\p@
1010   \hrule\@width 3\unitindent
1011   \kern 2.6\p@
1012 }
1013 \renewcommand*\right@footnoterule{%
1014   \kern-3\p@
1015   \nointerlineskip
1016   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1017   \kern 2.6\p@}
1018 \renewenvironment{thebibliography}[1]
1019   {\section*{\refname}%
1020    \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1021    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1022    \bidi@thebibliography@font@hook%
1023    \list{\@biblabel{\@arabic\c@enumiv}}%
1024      {\settowidth\labelwidth{\@biblabel{#1}}%
1025       \leftmargin\labelwidth
1026       \advance\leftmargin\labelsep
1027       \@openbib@code
1028       \usecounter{enumiv}%
1029       \let\p@enumiv\@empty
1030       \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1031    \sloppy\clubpenalty4000\widowpenalty4000%
1032    \sfcode`.\@m}
1033   {\def\@noitemerr
1034     {\@latex@warning{Empty `thebibliography' environment}}}%
1035   \endlist}
1036 \if@titlepage
1037 \renewcommand*\TitleFont{\rmfamily}
1038 \renewcommand*\maketitle{%
1039   \begin{titlepage}%
1040     \let\footnotesize\small
1041     \let\right@footnoterule\relax
1042     \let\left@footnoterule\relax
1043     \let\textwidth\footnoterule\relax
1044     \let \footnote \thanks
1045     \long\def\@makefntext##1{\parindent\z@
1046       \def\labelitemi{\textendash}\@revlabeltrue
1047       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1048     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%

```



```

1049 \ifcompatibility\setcounter{page}{0}\fi
1050 \null\vfil
1051 \vskip 60\p@
1052 \begin{center}%
1053 \TitleFont
1054 {\LARGE \def\{\{\penalty -\@M}
1055 \if@allcaps
1056 \expandafter\uc@nothanks\@title\thanks\relax
1057 \else
1058 \@title
1059 \fi\par}%
1060 \vskip 3em%
1061 {\large
1062 \lineskip .75em \parindent\z@
1063 \begin{tabular}[t]{c}%
1064 \if@allcaps
1065 \expandafter\uc@authornothanks\@author\and\relax
1066 \else
1067 \@author
1068 \fi
1069 \end{tabular}\par}%
1070 \vskip 1.5em%
1071 {\large
1072 \if@allcaps
1073 \uppercase\expandafter{\@date}%
1074 \else
1075 \@date
1076 \fi\par}%
1077 \end{center}\par
1078 \@thanks
1079 \vfil\null
1080 \end{titlepage}%
1081 \setcounter{footnote}{0}%
1082 \global\let\thanks\relax
1083 \global\let\maketitle\relax
1084 \global\let\@thanks\@empty
1085 \global\let\@author\@empty
1086 \global\let\@title\@empty
1087 \global\let\@date\@empty
1088 \global\let\title\relax
1089 \global\let\author\relax
1090 \global\let\date\relax
1091 \global\let\and\relax
1092 }
1093 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1094 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1095 \futurelet\@tempa\uc@ax}
1096 \def\uc@ax{%
1097 \ifx\@tempa\relax
1098 \else
1099 \\\andname \\\expandafter\uc@authornothanks
1100 \fi}
1101 \def\uc@tx{\ifx\@tempa\relax
1102 \else \expandafter\uc@ty \fi}

```



```

1103 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1104 \else
1105 \renewcommand*\maketitle{\par
1106   \begingroup
1107     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1108     \long\def\@makefntext##1{\parindent\z@
1109       \def\labelitemi{\textendash}%
1110       \leavevmode\hb@xt@.5\unitindent{%
1111         \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1112     \if@twocolumn
1113       \ifnum \col@number=\@ne
1114         \@maketitle
1115       \else
1116         \twocolumn[\@maketitle]%
1117       \fi
1118     \else
1119       \newpage
1120       \global\@topnum\z@
1121       \@maketitle
1122     \fi
1123     \thispagestyle{plain}\@thanks
1124   \endgroup
1125   \setcounter{footnote}{0}%
1126   \global\let\thanks\relax
1127   \global\let\maketitle\relax
1128   \global\let\@maketitle\relax
1129   \global\let\@thanks\@empty
1130   \global\let\@author\@empty
1131   \global\let\@title\@empty
1132   \global\let\@date\@empty
1133   \global\let\title\relax
1134   \global\let\author\relax
1135   \global\let\date\relax
1136   \global\let\and\relax
1137 }
1138 \def\@maketitle{%
1139   \newpage
1140   \null
1141   \vskip 2em%
1142   \begin{center}%
1143     \let \footnote \thanks
1144     {\LARGE \TitleFont \@title \par}%
1145     \vskip 1.5em%
1146     {\large \TitleFont
1147       \lineskip .5em%
1148       \begin{tabular}[t]{c}%
1149         \@author
1150       \end{tabular}\par}%
1151     \vskip 1em%
1152     {\large \TitleFont \@date}%
1153   \end{center}%
1154   \par
1155   \vskip 1.5em}
1156 \fi

```



12 File artikel3-xetex-bidi.def

```

1157 \ProvidesFile{artikel3-xetex-bidi.def}[2025/09/30 v0.6 bidi adaptations for artikel3 class f
1158 \renewenvironment{theindex}{%
1159   \if@twocolumn
1160     \@restonecolfalse
1161   \else
1162     \@restonecoltrue
1163   \fi
1164   \columnseprule \z@
1165   \columnsep 35\p@
1166   \twocolumn[section*{\indexname}]{%
1167     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
1168   \thispagestyle{plain}\parindent\z@
1169   \parskip\z@ \@plus .3\p@\relax
1170   \let\item\@idxitem
1171   }{%
1172   \if@restonecol\onecolumn\else\clearpage\fi}
1173 \renewcommand*{\head@style}{%
1174   \interlinepenalty \@M
1175   \hyphenpenalty=\@M \exhyphenpenalty=\@M
1176   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1177 \renewcommand*{\@regtocline}[3]{%
1178   \ifnum #1>\c@tocdepth
1179   \else
1180     \vskip\z@\@plus.2\p@
1181     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1182     \if@RTL\rightskip\else\leftskip\fi\unitindent
1183     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
1184     \parfillskip\z@
1185     \@tempdima\unitindent
1186     \parindent\z@
1187     \leavevmode
1188     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1189     \hskip 1em \nobreak{\slshape #3}\par
1190     }%
1191   \fi}
1192 \if@oldtoc
1193 \renewcommand*{\l@part}[2]{%
1194   \ifnum \c@tocdepth >-2\relax
1195     \addpenalty\@secpenalty
1196     \addvspace{2.25em \@plus\p@}%
1197     \begingroup
1198       \setlength{\@tempdima}{3em}%
1199       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1200       \parfillskip -\@pnumwidth
1201       {\leavevmode
1202         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1203         \nobreak
1204         \if@compatibility
1205           \global\@nobreaktrue
1206           \everypar{\global\@nobreakfalse\everypar{}}%
1207         \fi
1208       \endgroup

```



```

1209 \fi}
1210 \else
1211 \renewcommand*\l@part{%
1212 \ifnum \c@tocdepth >-2\relax
1213 \addpenalty\@secpenalty
1214 \addvspace{2.25em \@plus \p@}%
1215 \@regtocline{0}%
1216 \fi}
1217 \fi
1218
1219 \if@oldtoc
1220 \renewcommand*\l@section[2]{%
1221 \addpenalty\@secpenalty
1222 \addvspace{1.0em \@plus \p@}%
1223 \setlength\@tempdima{1.5em}%
1224 \begingroup
1225 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1226 \parfillskip -\@pnumwidth
1227 \leavevmode \bfseries
1228 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
1229 \hskip -\if@RTL\rightskip\else\leftskip\fi
1230 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1231 \endgroup}
1232 \else
1233 \renewcommand*\l@section{\@regtocline{1}}
1234 \fi
1235 \if@titlepage
1236 \renewenvironment{abstract}{%
1237 \titlepage
1238 \null\vfil
1239 \section*{\SectFont\abstractname}%
1240 \noindent\ignorespaces}
1241 {\par\vfil\null\endtitlepage}
1242 \else
1243 \renewenvironment{abstract}{%
1244 \if@twocolumn
1245 \section*{\abstractname}%
1246 \else
1247 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1248 \section*{\small\SectFont\abstractname}%
1249 \noindent\ignorespaces
1250 \fi}
1251 {\if@twocolumn\else\par\egroup\fi}
1252 \fi
1253 \renewcommand*\left@footnoterule{%
1254 \kern-3\p@
1255 \kern.5\baselineskip
1256 \hrule\@width\unitindent
1257 \kern.4\baselineskip
1258 }
1259 \renewcommand*\right@footnoterule{%
1260 \kern-3\p@
1261 \kern.5\baselineskip
1262 \nointerlineskip

```



```

1263 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1264 \kern.4\baselineskip}
1265 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
1266 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1267 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1268 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1269 \renewenvironment{thebibliography}[1]
1270     {\section*\refname}%
1271     \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1272     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1273     \bidi\@thebibliography@font@hook%
1274     \list{\@biblabel{\@arabic\c@enumiv}}%
1275         {\settowidth\labelwidth{\@biblabel{#1}}%
1276         \leftmargin\labelwidth
1277         \advance\leftmargin\labelsep
1278         \openbib@code
1279         \usecounter{enumiv}%
1280         \let\p@enumiv\@empty
1281         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1282     \sloppy\clubpenalty4000\widowpenalty4000%
1283     \sfcode\.\@m}
1284 {\def\@noitemerr
1285     {\@latex@warning{Empty `thebibliography' environment}}}%
1286     \endlist}
1287 \if@titlepage
1288 \renewcommand*\TitleFont{\rmfamily}
1289 \renewcommand*\maketitle{%
1290 \begin{titlepage}%
1291 \let\footnotesize\small
1292 \let\right@footnoterule\relax
1293 \let\left@footnoterule\relax
1294 \let\textwidth\footnoterule\relax
1295 \let \footnote \thanks
1296 \long\def\@makefntext##1{\parindent\z@
1297     \def\labelitemi{\textendash}\@revlabeltrue
1298     \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1299 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1300 \if@compatibility\setcounter{page}{0}\fi
1301 \null\vfil
1302 \vskip 60\p@
1303 \begin{center}%
1304 \TitleFont
1305 {\LARGE \def\{\penalty -\@M}
1306 \if@allcaps
1307 \expandafter\uc@nothanks\@title\thanks\relax
1308 \else
1309 \@title
1310 \fi\par}%
1311 \vskip 3em%
1312 {\large
1313 \lineskip .75em \parindent\z@
1314 \begin{tabular}[t]{c}%
1315 \if@allcaps
1316 \expandafter\uc@authornothanks\author\and\relax

```



```

1317         \else
1318             \@author
1319         \fi
1320     \end{tabular}\par}%
1321     \vskip 1.5em%
1322     {\large
1323         \if@allcaps
1324             \uppercase\expandafter{\@date}%
1325         \else
1326             \@date
1327         \fi\par}%
1328     \end{center}\par
1329     \@thanks
1330     \vfil\null
1331 \end{titlepage}%
1332 \setcounter{footnote}{0}%
1333 \global\let\thanks\relax
1334 \global\let\maketitle\relax
1335 \global\let\@thanks\@empty
1336 \global\let\@author\@empty
1337 \global\let\@title\@empty
1338 \global\let\@date\@empty
1339 \global\let\title\relax
1340 \global\let\author\relax
1341 \global\let\date\relax
1342 \global\let\and\relax
1343 }
1344 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1345 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1346     \futurelet\@tempa\uc@ax}
1347 \def\uc@ax{%
1348     \ifx\@tempa\relax
1349     \else
1350         \\\andname \\\expandafter\uc@authornothanks
1351     \fi}
1352 \def\uc@tx{\ifx\@tempa\relax
1353     \else \expandafter\uc@ty \fi}
1354 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1355 \else
1356 \renewcommand*\maketitle{\par
1357     \begin{group}
1358         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1359         \def\@makefnmark{\rlap{%
1360             \@textsuperscript{\normalfont\@thefnmark}}}%
1361         \long\def\@makefntext{\@xmakefntext{%
1362             \@textsuperscript{\normalfont\@thefnmark}}}%
1363         \if@twocolumn
1364             \ifnum \col@number=\@one
1365                 \@maketitle
1366             \else
1367                 \twocolumn[\@maketitle]%
1368             \fi
1369         \else
1370             \newpage

```



```

1371     \global\@topnum\z@
1372     \@maketitle
1373     \fi
1374     \thispagestyle{plain}\@thanks
1375 \endgroup
1376 \setcounter{footnote}{0}%
1377 \global\let\thanks\relax
1378 \global\let\maketitle\relax
1379 \global\let\@maketitle\relax
1380 \global\let\@thanks\@empty
1381 \global\let\@author\@empty
1382 \global\let\@title\@empty
1383 \global\let\@date\@empty
1384 \global\let\title\relax
1385 \global\let\author\relax
1386 \global\let\date\relax
1387 \global\let\and\relax
1388 }
1389 \def\@maketitle{%
1390   \newpage
1391   \null
1392   \vskip 2em%
1393   \if@titlecentered
1394     \begin{center}%
1395       \let \footnote \thanks
1396       {\LARGE \TitleFont \@title \par}%
1397       \vskip 1.5em%
1398       {\large \TitleFont
1399         \lineskip .5em%
1400         \begin{tabular}[t]{c}%
1401           \@author
1402         \end{tabular}\par}%
1403       \vskip 1em%
1404       {\large \TitleFont \@date}%
1405     \end{center}%
1406   \else
1407     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1408     {\large \TitleFont \lineskip .5em \tabcolsep\z@
1409       \def\and{%% \begin{tabular} has already started
1410         \end{tabular}\hskip 1em plus .17fil
1411         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
1412         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\vskip 1em {\large \TitleFont \@date}
1413       }
1414   \fi
1415   \par
1416   \vskip 1.5em}
1417 \fi

```

13 File arydshln-xetex-bidi.def

```

1418 \ProvidesFile{arydshln-xetex-bidi.def}[2025/10/28 v0.4 bidi adaptations for arydshln package]
1419 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTLtab\egroup\endR\egroup\fi\egroup}
1420 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1421 \expandafter\let\csname endtabular*\endcsname\endtabular

```




```

1422 \let\adl@array\@array
1423 \def\@array{\adl@everyvbox\everyvbox
1424         \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1425         \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1426         \let\adl@noalign\noalign
1427         \adl@array}
1428 \ifx\@@array\adl@array \let\@@array\@array \fi
1429 \ifadl@usingarypkg
1430 \def\@testpach{\@chclass
1431 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1432 \ifnum \@lastchclass=7 5 \else
1433 \ifnum \@lastchclass=8 \tw@ \else
1434 \ifnum \@lastchclass=9 \thr@@
1435 \else \z@
1436 \ifnum \@lastchclass = 10 \else
1437 \edef\@nextchar{\expandafter\string\@nextchar}%
1438 \@chnum
1439 \if \@nextchar c\z@ \else
1440 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1441 \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
1442 \z@ \@chclass
1443 \if \@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1444 \if \@nextchar : \@ne \let\@arrayrule\adl@arraydashrule \else
1445 \if \@nextchar ; \@ne \let\@arrayrule\adl@argarraydashrule \else
1446 \if \@nextchar !6 \else
1447 \if \@nextchar @7 \else
1448 \if \@nextchar <8 \else
1449 \if \@nextchar >9 \else
1450 10
1451 \@chnum
1452 \if \@nextchar m\thr@@\else
1453 \if \@nextchar p4 \else
1454 \if \@nextchar b5 \else
1455 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1456 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1457
1458 \def\@classz{\@classx
1459         \@tempcnta \count@
1460         \prepnext@tok
1461         \@addtopreamble{\ifcase \@chnum
1462                 \hfil
1463                 \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1464                 \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1465                 \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1466                 \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1467                 \adl@endmbox\or
1468                 \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1469                 \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1470                 \fi}\prepnext@tok}
1471 \def\adl@class@start{4}
1472 \def\adl@class@iiiorvii{7}
1473
1474 \else
1475 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\@tw@ 4\relax \else

```



```

1476 \ifnum \@lastchclass=\thr@@ 5\relax \else
1477 \z@ \if #1c\@chnum \z@ \else
1478 \if \if@RTLtab#1r\else#1l\fi\@chnum \@one \else
1479 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1480 \@chclass
1481 \if #1|\@one \let\@arrayrule\adl@arrayrule \else
1482 \if #1:\@one \let\@arrayrule\adl@arraydashrule \else
1483 \if #1;\@one \let\@arrayrule\adl@argarraydashrule \else
1484 \if #1@ \tw@ \else
1485 \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1486 \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1487
1488 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1489 \or \or \@addamp \or
1490 \@acolampacol \or \@firstampfalse \@acol \fi
1491 \edef\@preamble{\@preamble
1492 \ifcase \@chnum
1493 \hfil\adl@putlrc{\$ \relax \@sharp$}\hfil
1494 \or \adl@putlrc{\$ \relax \@sharp$}\hfil
1495 \or \hfil\adl@putlrc{\$ \relax \@sharp$}\fi}}
1496 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1497 \or \or \@addamp \or
1498 \@acolampacol \or \@firstampfalse \@acol \fi
1499 \edef\@preamble{\@preamble
1500 \ifcase \@chnum
1501 \hfil\adl@putlrc{\@sharp\unskip}\hfil
1502 \or \adl@putlrc{\@sharp\unskip}\hfil
1503 \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1504 \def\adl@class@start{6}
1505 \def\adl@class@iiiorvii{3}
1506 \fi
1507 \ApplyPatchCodeToFile{colortbl-xetex-bidi}{%
1508 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1509 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1510 \let\@endpbox\adl@org@endpbox}
1511 \let\adl@CT@setup\CT@setup
1512 \def\CT@setup{\adl@CT@setup
1513 \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1514 \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1515 \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1516 \let\adl@act@CT@setup\CT@setup
1517 \def\@classz{\@classx
1518 \@tempcnta\count@ \prepnext@tok
1519 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1520 \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1521 \expandafter\adl@extract@drsc
1522 \the\toks\@tempcnta\doublerulesepcolor!\@nil
1523 \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1524 \@addtopreamble{\if@RTL\beginL\fi%
1525 \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1526 \ifcase \@chnum
1527 \hskip\stretch{.5}\kern\z@
1528 \dollarbegin
1529 \insert@column

```



```

1530             \d@llarend\hskip\stretch{.5}%
1531         \or \d@llarbegin \insert@column \d@llarend \hfill
1532         \or \hfill \kern\z@ \d@llarbegin \insert@column \d@llarend
1533         \or $\vcenter
1534             \@startpbox{\@nextchar}\insert@column \@endpbox $\%
1535         \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1536         \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1537         \fi
1538     \if@RTL\endR\fi\egroup\egroup
1539     \beginingroup
1540         \CT@setup
1541         \CT@column@color
1542         \CT@row@color
1543         \CT@cell@color
1544         \CT@do@color
1545     \endgroup
1546     \@tempdima\ht\z@
1547     \advance\@tempdima\minrowclearance
1548     \vrule\@height\@tempdima\@width\z@
1549     \unhbox\z@\if@RTL\endL\fi}%
1550     \prepnext@tok}
1551 \let\adl@act@classz\@classz
1552 \let\adl@org@classz\@classz
1553 }

```

14 File beamer-xetex-bidi.def

```

1554 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for Xe
1555 \AtBeginDocument{%
1556     \if@RTLmain
1557         \raggedleft
1558     \else
1559         \raggedright
1560     \fi
1561 }
1562
1563 \renewcommand*{\bidi@beamer@ragged}{%
1564     \if@RTL
1565         \raggedleft
1566     \else
1567         \raggedright
1568     \fi
1569 }
1570
1571

```

15 File beamerbaseauxtemplates-xetex-bidi.def

```

1572 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for be
1573 \bidi@csundef{beamer@tmpop@subsection in toc@sections numbered}
1574
1575 \bidi@csundef{beamer@tmpop@subsubsection in toc@sections numbered}
1576
1577 \bidi@csundef{beamer@tmpop@section in toc@subsections numbered}

```



```

1578
1579 \bidi@csundef{beamer@@tmpop@subsection in toc@subsections numbered}
1580
1581 \bidi@csundef{beamer@@tmpop@subsubsection in toc@subsections numbered}
1582
1583 \defbeamertemplate{subsection in toc}{sections numbered}
1584 {\leavevmode\bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1585
1586 \defbeamertemplate{subsubsection in toc}{sections numbered}
1587 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3.5em\usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
1588
1589 \defbeamertemplate{section in toc}{subsections numbered}
1591 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsection\par}
1592
1593 \defbeamertemplate{subsection in toc}{subsections numbered}
1594 {\leavevmode\bidi@beamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubsection in toc}\inserttocsubsection\par}
1595
1596 \defbeamertemplate{subsubsection in toc}{subsections numbered}
1597 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
1598
1599 \inserttocsubsubsection\par}
1600
1601 \bidi@csundef{beamer@@tmpop@section in toc@circle}
1602
1603 \bidi@csundef{beamer@@tmpop@subsection in toc@circle}
1604
1605 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1606
1607 \defbeamertemplate{section in toc}{circle}
1608 {\leavevmode\bidi@beamer@leftskip=2ex%
1609 \llap{%
1610 \usebeamerfont*{section number projected}%
1611 \usebeamerfont*{section number projected}%
1612 \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1613 \color{bg}
1614 \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1615 \pgfusepath{fill}
1616 \pgftext[base]{\color{fg}\inserttocsectionnumber}
1617 \end{pgfpicture}\kern1.25ex%
1618 }%
1619 \inserttocsection\par}
1620
1621 \defbeamertemplate{subsection in toc}{circle}
1622 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1623
1624 \defbeamertemplate{subsubsection in toc}{circle}
1625 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
1626
1627 \inserttocsubsubsection\par}
1628
1629 \bidi@csundef{beamer@@tmpop@section in toc@square}
1630
1631 \bidi@csundef{beamer@@tmpop@subsection in toc@square}

```



```

1632
1633 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1634
1635 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1636
1637 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1638
1639 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1640
1641 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1642
1643 \defbeamertemplate{section in toc}{square}
1644 {\leavevmode\bidi@beamer@leftskip=3ex%
1645   \llap{{%
1646     \usebeamerfont*{section number projected}%
1647     \usebeamercolor[bg]{section number projected}%
1648     \if@RTL
1649     \else
1650       \vrule width2.25ex height1.85ex depth.4ex%
1651       \hskip-2.25ex%
1652     \fi
1653     \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}}%
1654     \if@RTL
1655       \hskip-2.25ex%
1656       \vrule width2.25ex height1.85ex depth.4ex%
1657     \fi
1658   }}\kern1.25ex}%
1659 \inserttocsection\par}
1660
1661 \defbeamertemplate{subsection in toc}{square}
1662 {\leavevmode\bidi@beamer@leftskip=5ex\llap{{%
1663   \usebeamercolor[bg]{subsection number projected}%
1664   \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1665
1666 \defbeamertemplate{subsubsection in toc}{square}
1667 {\leavevmode\normalsize\usebeamerfont{subsection in
1668   toc}\bidi@beamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1669   \llap{{%
1670     \usebeamercolor[bg]{subsubsection number projected}%
1671     \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1672
1673 \defbeamertemplate{enumerate item}{square}
1674 {
1675   \hbox{{%
1676     \usebeamerfont*{item projected}%
1677     \usebeamercolor[bg]{item projected}%
1678     \if@RTL
1679     \else
1680       \vrule width2.25ex height1.85ex depth.4ex%
1681       \hskip-2.25ex%
1682     \fi
1683     \hbox to2.25ex{{%
1684       \hfil%
1685       \color{fg}\insertenumlabel%

```



```

1686     \hfil}}%
1687     \if@RTL
1688         \hskip-2.25ex%
1689         \vrule width2.25ex height1.85ex depth.4ex%
1690     \fi
1691 }}%
1692 }
1693 [action]
1694 {\setbeamerfont{item projected}{size=\scriptsize}}
1695
1696 \defbeamertemplate{enumerate subitem}{square}
1697 {
1698     \hbox{%
1699         \usebeamerfont*{subitem projected}%
1700         \usebeamercolor[bg]{subitem projected}%
1701         \if@RTL
1702         \else
1703             \vrule width2.25ex height1.85ex depth.4ex%
1704             \hskip-2.25ex%
1705         \fi
1706         \hbox to2.25ex{%
1707             \hfil%
1708             \color{fg}\insertsubenumlabel%
1709             \hfil}}%
1710         \if@RTL
1711             \hskip-2.25ex%
1712             \vrule width2.25ex height1.85ex depth.4ex%
1713         \fi
1714     }}%
1715 }
1716
1717 \defbeamertemplate{enumerate subsubitem}{square}
1718 {
1719     \hbox{%
1720         \usebeamerfont*{subitem projected}%
1721         \usebeamercolor[bg]{subsubitem projected}%
1722         \if@RTL
1723         \else
1724             \vrule width2.25ex height1.85ex depth.4ex%
1725             \hskip-2.25ex%
1726         \fi
1727         \hbox to2.25ex{%
1728             \hfil%
1729             \color{fg}\insertsubsubenumlabel%
1730             \hfil}}%
1731         \if@RTL
1732             \hskip-2.25ex%
1733             \vrule width2.25ex height1.85ex depth.4ex%
1734         \fi
1735     }}%
1736 }
1737
1738 \defbeamertemplate{enumerate mini template}{square}
1739 {

```



```

1740 \hbox{%
1741   \usebeamerfont*{\beameritemnestingprefix item projected}%
1742   \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1743   \if@RTL
1744   \else
1745     \vrule width2.25ex height1.85ex depth.4ex%
1746     \hskip-2.25ex%
1747   \fi
1748   \hbox to2.25ex{%
1749     \hfil%
1750     \color{fg}\insertenumlabel%
1751     \hfil}%
1752   \if@RTL
1753     \hskip-2.25ex%
1754     \vrule width2.25ex height1.85ex depth.4ex%
1755   \fi
1756 }}%
1757 }
1758
1759 \bidi@csundef{beamer@@tmpop@section in toc@ball unnumbered}
1760
1761 \bidi@csundef{beamer@@tmpop@subsection in toc@ball unnumbered}
1762
1763 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball unnumbered}
1764
1765 \defbeamertemplate{section in toc}{ball unnumbered}
1766 {\leavevmode\bidi@beamer@leftskip=2.25ex%
1767   \llap{%
1768     \raise0.1ex\beamer@usesphere{section number projected}{bigosphere}\kern1.25ex}%
1769   \inserttocsection\par}
1770
1771 \defbeamertemplate{subsection in toc}{ball unnumbered}
1772 {\leavevmode\bidi@beamer@leftskip=5.1ex\llap{%
1773   \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\inserttocsection\par}
1774
1775 \defbeamertemplate{subsubsection in toc}{ball unnumbered}
1776 {\leavevmode\normalsize\usebeamerfont{subsection in
1777   toc}\bidi@beamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1778   \llap{%
1779     \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsubsubsection\par}
1780
1781 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1782
1783 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1784
1785 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1786
1787 \defbeamertemplate{section in toc}{ball}
1788 {\leavevmode\bidi@beamer@leftskip=2.75ex%
1789   \llap{%
1790     \normalsize%
1791     \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1792       \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1793       \pgftext{%

```



```

1794         \usebeamerfont*{section number projected}%
1795         \usebeamerfont*{section number projected}%
1796         \color{fg!90!bg}%
1797         \inserttocsectionnumber}
1798     \end{pgfpicture}%
1799     \kern1.25ex}%
1800 \inserttocsection\par
1801 }
1802 [action]
1803 {\setbeamerfont{section number projected}{size=\scriptsize}}
1804
1805 \defbeamertemplate{subsection in toc}{ball}
1806 {\leavevmode\bidibeamer@leftskip=5ex%
1807   \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1808   \inserttocsubsection\par%
1809 }
1810
1811 \defbeamertemplate{subsubsection in toc}{ball}
1812 {\leavevmode\normalsize\usebeamerfont{subsection in
1813   toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1814   \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1815   \inserttocsubsubsection\par%
1816 }
1817
1818 \bidi@csundef{beamer@@tmpop@block begin@rounded}
1819
1820 \bidi@csundef{beamer@@tmpop@block alerted begin@rounded}
1821
1822 \bidi@csundef{beamer@@tmpop@block example begin@rounded}
1823
1824 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1825 {%
1826   \par\vskip\medskipamount%
1827   \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1828     {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1829     \bidi@beamer@ragged%
1830     \usebeamerfont{block body}%
1831   }
1832
1833 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1834 {%
1835   \par\vskip\medskipamount%
1836   \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1837     {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1838     \bidi@beamer@ragged%
1839     \usebeamerfont{block body alerted}%
1840   }%
1841
1842 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]
1843 {%
1844   \par\vskip\medskipamount%
1845   \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1846     {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1847     \bidi@beamer@ragged%

```




```

1848     \usebeamerfont{block body example}%
1849 }%
1850
1851 \bidi\csundef{beamer@@tmpop@caption@numbered}
1852
1853 \defbeamertemplate{caption}{numbered}
1854 {%
1855     \leavevmode
1856     \bidi@beamer@ragged
1857     {%
1858         \usebeamercolor[fg]{caption name}%
1859         \usebeamerfont*{caption name}%
1860         \insertcaptionname~\insertcaptionnumber
1861         \usebeamertemplate{caption label separator}%
1862     }%
1863     \insertcaption\par
1864 }
1865
1866 \bidi\csundef{beamer@@tmpop@caption@caption name own line}
1867
1868 \defbeamertemplate{caption}{caption name own line}
1869 {%
1870     \begin{minipage}{\textwidth}
1871         \leavevmode
1872         \bidi@beamer@ragged
1873         {%
1874             \usebeamercolor[fg]{caption name}%
1875             \usebeamerfont*{caption name}%
1876             \insertcaptionname%
1877         }\\
1878         \insertcaption
1879     \end{minipage}
1880 }
1881
1882 \ApplyPatchCodeToPackage{caption}{%
1883     \DeclareCaptionFont{beamer@font}{%
1884         \usebeamerfont*{caption}%
1885     }%
1886 }
1887 \SetCaptionDefault{font}{beamer@font}
1888 \DeclareCaptionJustification{bidi@beamer@ragged}{\bidi@beamer@ragged}
1889 \SetCaptionDefault{justification}{bidi@beamer@ragged}
1890 }
1891

```

16 File beamerbaseboxes-xetex-bidi.def

```

1892 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1893 \renewcommand\beamerboxesrounded[2] []{%
1894     \global\let\beamer@firstlineitemizeunskip=\relax%
1895     \vbox\bgroup%
1896     \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1897     \setkeys{beamerboxes}{#1}%
1898     {%

```



```

1899 \usebeamercolor{\bmb@lower}%
1900 \globalcolorstrue%
1901 \colorlet{lower.bg}{bg}%
1902 }%
1903 {%
1904 \usebeamercolor{\bmb@upper}%
1905 \globalcolorstrue%
1906 \colorlet{upper.bg}{bg}%
1907 }%
1908 %
1909 % Typeset head
1910 %
1911 \vskip4bp
1912 \setbox\bmb@box=\hbox{%
1913 \begin{minipage}[b]{\bmb@width}%
1914 \usebeamercolor{fg}{\bmb@upper}%
1915 #2%
1916 \end{minipage}}%
1917 \ifdim\wd\bmb@box=0pt%
1918 \setbox\bmb@box=\hbox{}%
1919 \ht\bmb@box=1.5pt%
1920 \bmb@prevheight=-4.5pt%
1921 \else%
1922 \wd\bmb@box=\bmb@width%
1923 \bmb@temp=\dp\bmb@box%
1924 \ifdim\bmb@temp<1.5pt%
1925 \bmb@temp=1.5pt%
1926 \fi%
1927 \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1928 \dp\bmb@box=0pt%
1929 \bmb@prevheight=\ht\bmb@box%
1930 \fi%
1931 \bmb@temp=\bmb@width%
1932 \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1933 \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1934 \hbox{%
1935 \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1936 \ifdim\wd\bmb@box=0pt%
1937 \color{lower.bg}%
1938 \else%
1939 \color{upper.bg}%
1940 \fi%
1941 \pgfpathmoveto{-4bp}{-1bp}
1942 \pgfpathqcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1943 \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1944 \pgfpathcurveto%
1945 {\pgfpoint{\bmb@dima}{3bp}}%
1946 {\pgfpoint{\bmb@dimb}{1.2bp}}%
1947 {\pgfpoint{\bmb@dimb}{-1bp}}%
1948 \bmb@dima=-\ht\bmb@box%
1949 \advance\bmb@dima by-2pt%
1950 \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1951 \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1952 \pgfusepath{fill}

```



```

1953 \end{pgfpicture}%
1954 \copy\bmb@box%
1955 }%
1956 \nointerlineskip%
1957 \vskip-1pt%
1958 \ifdim\wd\bmb@box=0pt%
1959 \else%
1960 \hbox{%
1961 \begin{pgfpicture}{0pt}{0pt}{\bmb@width}{6pt}
1962 \bmb@dima=\bmb@width%
1963 \advance\bmb@dima by8bp%
1964 \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1965 \pgfusepath{clip}
1966 {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading{\bmb@transi
1967 \end{pgfpicture}%
1968 }%
1969 \nointerlineskip%
1970 \vskip-0.5pt%
1971 \fi%
1972 \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1973 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1974 \vskip2pt%
1975 \usebeamercolor{fg}{\bmb@lower}%
1976 \colorlet{beamerstructure}{upper.bg}%
1977 \colorlet{structure}{upper.bg}%
1978 %\color{.}%
1979 \@bidi@list@minipage@parboxfalse
1980 }
1981
1982 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1983 \begingroup
1984 \@RTLfalse
1985 }{}{}
1986
1987

```

17 File beamerbasecolor-xetex-bidi.def

```

1988 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1989 \renewenvironment{beamercolorbox}[2][{}]{%
1990 \def\beamer@vmode{\leavevmode}%
1991 \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1992 leftskip=0pt,rightskip=0pt plus1fil,%
1993 sep=0pt,colsep=0pt,colsep*=0pt,%
1994 shadow=false,rounded=false,ignorebg=false}%
1995 \if@RTL
1996 \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1997 \else
1998 \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1999 \fi
2000 \setkeys{beamercolbox}{#1}%
2001 \ifbeamercoloreempty[bg]{#2}{\@tempwafalse}{\@tempwattrue}%
2002 \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
2003 \def\beamer@colbox@color{#2}%

```



```

2004 \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
2005 \ifbeamer@colbox@ignorebg%
2006 \colorlet{beamer@temp@color}{bg}%
2007 \usebeamercolor[fg]{#2}%
2008 \colorlet{bg}{beamer@temp@color}%
2009 \else%
2010 \usebeamercolor[fg]{#2}%
2011 \fi%
2012 \beginL
2013 \vbox\bgroup%
2014 \hsize=\beamer@colbox@wd%
2015 \@arrayparboxrestore%
2016 \leftskip=\beamer@colbox@ls%
2017 \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
2018 \rightskip=\beamer@colbox@rs%
2019 \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
2020 \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
2021 \advance\leftskip by\beamer@colbox@colsep%
2022 \advance\rightskip by\beamer@colbox@colsep%
2023 \vskip\beamer@colbox@colsep%
2024 \fi%
2025 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2026 \fi%
2027 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2028 \beamer@vmode\ignorespaces}{%
2029 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2030 \if@tempswa
2031 \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
2032 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2033 \fi%
2034 \egroup\endL\color@endgroup\egroup%
2035 \wd\beamer@tempbox=\beamer@colbox@wd%
2036 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2037 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2038 \ifbeamer@colbox@rounded%
2039 \if@tempswa%
2040 \begin{beamerboxesrounded}{%
2041 shadow=\beamer@colbox@shadow,%
2042 lower=\beamer@colbox@color,%
2043 upper=normal text,%
2044 width=\beamer@colbox@wd}{%
2045 \box\beamer@tempbox%
2046 \end{beamerboxesrounded}%
2047 \else%
2048 \ifdim\wd\beamer@tempbox>\textwidth%
2049 \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2050 \fi%
2051 \box\beamer@tempbox%
2052 \fi%
2053 \else%
2054 \if@tempswa\setbox\beamer@tempbox=\hbox{%
2055 \usebeamercolor{\beamer@colbox@color}%
2056 \hskip-\beamer@colbox@colseps%
2057 \fboxsep=\z@\colorbox{bg}{%

```



```

2058         \hskip\beamer@colbox@colseps%
2059         \box\beamer@tempbox%
2060         \hskip\beamer@colbox@colseps%
2061     }%
2062     \hskip-\beamer@colbox@colseps%
2063     }\fi%
2064     \ifdim\wd\beamer@tempbox>\textwidth%
2065         \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box%
2066         \fi%
2067         \box\beamer@tempbox%
2068     \fi%
2069 }
2070
2071

```

18 File beamerbasecompatibility-xetex-bidi.def

```

2072 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
2073 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
2074
2075

```

19 File beamerbaseframecomponents-xetex-bidi.def

```

2076 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2025/09/30 v0.8 bidi adaptations for
2077 \renewcommand{\setbeamersize}[1]{%
2078     \beamer@dogeometryfalse%
2079     \setkeys{beamer@margin}{#1}%
2080     \ifbeamer@dogeometry%
2081         % Reset left margin now
2082         \beamer@tempdim=\beamer@leftmargin%
2083         \advance\beamer@tempdim by\beamer@leftsidebar%
2084         \if@RTLmain
2085             \geometry{right=\the\beamer@tempdim}%
2086         \else
2087             \geometry{left=\the\beamer@tempdim}%
2088         \fi
2089         % Reset right margin now
2090         \beamer@tempdim=\beamer@rightmargin%
2091         \advance\beamer@tempdim by\beamer@rightsidebar%
2092         \if@RTLmain
2093             \geometry{left=\the\beamer@tempdim}%
2094         \else
2095             \geometry{right=\the\beamer@tempdim}%
2096         \fi
2097     \fi%
2098 }
2099
2100 \newcommand*{\bidi@beamer@Gm@lmargin}{%
2101     \if@RTLmain
2102         \Gm@rmargin
2103     \else
2104         \Gm@lmargin
2105     \fi

```



```

2106 }
2107
2108 \newcommand*{\bidi@beamer@Gm@rmargin}{%
2109   \if@RTLmain
2110     \Gm@lmargin
2111   \else
2112     \Gm@rmargin
2113   \fi
2114 }
2115
2116 \def\ps@navigation{
2117   \def\@oddhead{%
2118     \begingroup%
2119     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2120     \beamer@tempdim=\ht\beamer@tempbox%
2121     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2122     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2123     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2124     \beamer@tempdim=\ht\@tempboxa%
2125     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2126     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2127     \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}%
2128     \hbox{%
2129       {%
2130         \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2131         \if@RTLmain
2132           {%
2133             \vbox to \sidebarheight{%
2134               \usebeamertemplate***{sidebar left}}%
2135             \vfil%
2136           }}%
2137         \ApplyPatchIfPackageLoadedF{beamerinnerthemeinmargin}{%
2138           \hskip-\textwidth
2139         }%
2140         \fi
2141         {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2142           \usebeamercolor*{sidebar left}}%
2143           \usebeamertemplate{sidebar canvas left}}%
2144           \vss%
2145         }}%
2146         \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2147         \box\beamer@tempbox}%
2148         \if@RTLmain
2149         \else
2150         {%
2151           \vbox to \sidebarheight{%
2152             \usebeamertemplate***{sidebar left}}%
2153           \vfil%
2154         }}\fi}%
2155       \beamer@tempdim=\ht\beamer@tempbox%
2156       \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2157       \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2158       \box\beamer@tempbox%
2159     }%

```



```

2160      {% print right sidebar first, since it should be overwritten by headline
2161      \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2162      \if@RTLmain
2163          {%
2164              \vbox to \sidebarheight{%
2165                  \usebeamertemplate***{sidebar right}%
2166                  \vfil%
2167              }}%
2168      \hskip-\textwidth
2169      \fi
2170      {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2171          \usebeamercolor*{sidebar right}%
2172          \usebeamertemplate{sidebar canvas right}%
2173          \vss%
2174          }}%
2175      \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2176      \box\beamer@tempbox}%
2177      \if@RTLmain
2178      \else
2179      {%
2180          \vbox to \sidebarheight{%
2181              \usebeamertemplate***{sidebar right}%
2182              \vfil%
2183          }}\fi}%
2184      \beamer@tempdim=\ht\beamer@tempbox%
2185      \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2186      \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2187      \box\beamer@tempbox%
2188      }%
2189      \beamer@typesetheadorfoot{headline}%
2190      }%
2191      \hfil}%
2192      \endgroup}
2193      \def\@oddfoot{%
2194          \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2195          \hfil}\hbox{}}\hfil
2196      }%
2197      \let\@evenhead\@oddhead
2198      \let\@evenfoot\@oddfoot}
2199
2200      \AtBeginDocument{%
2201          \pagestyle{navigation}%
2202      }
2203
2204      \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2205      {\parskip0pt\offinterlineskip%
2206          \hbox{%
2207              \hskip-\bidi@beamer@Gm@lmargin%
2208              \hbox{%
2209                  \vbox{%
2210                      \@tempdima=\textwidth%
2211                      \textwidth=\paperwidth%
2212                      \hsize=\textwidth%
2213                      \def\{\,%

```



```

2214         \usebeamertemplate***{#1}%
2215     }}%
2216     \hskip-\bidi@beamer@Gm@rmargin%
2217 }%\hfil%
2218 }
2219
2220 \def\ps@empty{%
2221     \let\@mkboth\@gobbletwo%
2222     \def\@oddhead{\begingroup%
2223         \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransition%
2224         \beamer@tempdim=\ht\beamer@tempbox%
2225         \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2226         \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2227         \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2228         \beamer@tempdim=\ht\@tempboxa%
2229         \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2230         \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2231         \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box\@tempboxa}%
2232         \endgroup%
2233     }
2234     \def\@oddfoot{\normalcolor\hfil%
2235         \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\bidi@beamer@Gm@rmargin%
2236         \ht\beamer@tempbox=0pt%
2237         \dp\beamer@tempbox=0pt%
2238         \box\beamer@tempbox}}%
2239     \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2240
2241 \renewenvironment<>{beamer@columnenv}[2][\beamer@colmode]{%
2242     \beamer@colclose\def\beamer@colclose{}%
2243     \begin{actionenv}#3%
2244         \setkeys{beamer@col}{#1}%
2245         \begin{minipage}[\beamer@colalign]{#2}%
2246             \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2247         {\end{minipage}\hfill\end{actionenv}\@ignoretrue}
2248 \let\endcolumn\endbeamer@columnenv
2249
2250 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2251     \beamer@colclose%
2252     \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2253 \begin{actionenv}#3%
2254     \setkeys{beamer@col}{#1}%
2255     \begin{minipage}[\beamer@colalign]{#2}%
2256         \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2257
2258 \renewenvironment<>{columns}[1][\beamer@colmode]{%
2259     \begin{actionenv}#2%
2260     \ifbeamer@onlytextwidth
2261         \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2262         \def\beamer@colexitcode{\unskip\egroup}
2263     \else%
2264         \def\beamer@colentrycode{%
2265             \hbox to\textwidth\bgroup%
2266             \leavevmode%
2267             \hskip-\beamer@leftmargin%

```




```

2268 \nobreak%
2269 \beamer@tempdim=\textwidth%
2270 \advance\beamer@tempdim by\beamer@leftmargin%
2271 \advance\beamer@tempdim by\beamer@rightmargin%
2272 \hbox to\beamer@tempdim\bgroup%
2273 \hbox{}\hfill\ignorespaces}%
2274 \def\beamer@colexitcode{\egroup%
2275 \nobreak%
2276 \hskip-\beamer@rightmargin\egroup}%
2277 \fi%
2278 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2279 \setkeys{beamer@col}{#1}%
2280 \par%
2281 \leavevmode
2282 \beamer@colentrycode%
2283 \def\beamer@colclose{}\ignorespaces}%
2284 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}%
2285
2286
2287 \def\@makeRTLfntext#1{%
2288 \def\insertfootnotetext{#1}%
2289 \def\insertfootnotemark{\@makefnmark}%
2290 \usebeamertemplate***{RTLfootnote}}
2291
2292 \def\@makeLTRfntext#1{%
2293 \def\insertfootnotetext{#1}%
2294 \def\insertfootnotemark{\@makefnmark}%
2295 \usebeamertemplate***{LTRfootnote}}
2296
2297 \renewcommand<>\beamer@framefootnotetext[1]{%
2298 \global\setbox\beamer@footins\vbox{%
2299 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2300 \hsize\framewidth
2301 \textwidth\hsize
2302 \columnwidth\hsize
2303 \unvbox\beamer@footins
2304 \reset@font
2305 \bidi@@footnotetext@font
2306 \@parboxrestore
2307 \protected@edef\@currentlabel
2308 {\csname p@footnote\endcsname\@thefnmark}%
2309 \color@begingroup
2310 \uncover#2{\@makefntext{%
2311 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2312 \color@endgroup}}
2313
2314 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2315 \global\setbox\beamer@footins\vbox{%
2316 \@RTLtrue
2317 \hsize\framewidth
2318 \textwidth\hsize
2319 \columnwidth\hsize
2320 \unvbox\beamer@footins
2321 \reset@font

```



```

2322 \bidi@RTLfootnotetext@font
2323 \@parboxrestore
2324 \protected@edef\@currentlabel
2325     {\csname p@footnote\endcsname\@thefnmark}%
2326 \color@begingroup
2327     \uncover#2{\@makeRTLfntext{%
2328         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2329 \color@endgroup}}
2330
2331 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2332 \global\setbox\beamer@footins\vbox{%
2333     \RTLfalse
2334     \hsize\framewidth
2335     \textwidth\hsize
2336     \columnwidth\hsize
2337     \unvbox\beamer@footins
2338     \reset@font
2339     \bidi@LTRfootnotetext@font
2340     \@parboxrestore
2341     \protected@edef\@currentlabel
2342         {\csname p@footnote\endcsname\@thefnmark}%
2343     \color@begingroup
2344         \uncover#2{\@makeLTRfntext{%
2345             \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2346     \color@endgroup}}
2347
2348 \renewcommand<>\@mpfootnotetext[1]{%
2349 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\ifRTL@footnote\global\let\bidi@mpfootnoterule
2350 \global\setbox\@mpfootins\vbox{%
2351     \unvbox\@mpfootins
2352     \ifRTL@footnote\RTLtrue\else\RTLfalse\fi
2353     \reset@font
2354     \bidi@footnotetext@font
2355     \hsize\columnwidth
2356     \@parboxrestore
2357     \protected@edef\@currentlabel
2358         {\csname p@mpfootnote\endcsname\@thefnmark}%
2359     \color@begingroup
2360         \uncover#2{\@makefntext{%
2361             \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2362     \color@endgroup}}
2363
2364 \renewcommand<>\@mpRTLfootnotetext[1]{%
2365 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule
2366 \global\setbox\@mpfootins\vbox{%
2367     \unvbox\@mpfootins
2368     \RTLtrue
2369     \reset@font
2370     \bidi@RTLfootnotetext@font
2371     \hsize\columnwidth
2372     \@parboxrestore
2373     \protected@edef\@currentlabel
2374         {\csname p@mpfootnote\endcsname\@thefnmark}%
2375     \color@begingroup

```



```

2376     \uncover#2{\@makeRTLfntext{%
2377         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2378     \color@endgroup}}
2379
2380 \renewcommand<>\@mpLTRfootnotetext[1]{%
2381 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\@bidi@mpfootnoterule\left@footnot
2382 \global\setbox\@mpfootins\vbox{%
2383 \unvbox\@mpfootins
2384 \@RTLfalse
2385 \reset@font
2386 \bidi@@LTRfootnotetext@font
2387 \hsize\columnwidth
2388 \@parboxrestore
2389 \protected@edef\@currentlabel
2390     {\csname p@mpfootnote\endcsname\@thefnmark}%
2391 \color@begingroup
2392     \uncover#2{\@makeLTRfntext{%
2393         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2394     \color@endgroup}}
2395
2396 \let\@footnotetext=\beamer@framefootnotetext
2397 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2398 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2399
2400 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\@bidi@footdir@footnote}%
2401 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2402 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2403
2404 \renewcommand<>{\footnote}[1][ ]{%
2405 \let\beamer@footnotetext=\@footnotetext%
2406 \let\beamer@mpfn=\@mpfn%
2407 \let\beamer@thempfn=\thempfn%
2408 \let\beamer@kvorig=\KV@errx%
2409 \let\beamer@xkvorig=\XKV@err
2410 \def\beamer@footarg{}%
2411 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2412 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2413 \setkeys{beamerfootnote}{#1}%
2414 \let\KV@errx=\beamer@kvorig%
2415 \let\XKV@errx=\beamer@xkvorig%
2416 \ifx\beamer@footarg\@empty%
2417     \def\beamer@next{\stepcounter\beamer@mpfn
2418         \protected@xdef\@thefnmark{\beamer@thempfn}%
2419         \@footnotemark\beamer@footnotetext#2}%
2420 \else%
2421     \def\beamer@next{%
2422         \begingroup
2423             \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2424             \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2425         \endgroup
2426         \@footnotemark\beamer@footnotetext#2}%
2427 \fi%
2428 \beamer@next}
2429

```



```

2430 \renewcommand<>{\RTLfootnote}[1] [] {%
2431   \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2432   \let\beamer@mpfn=\@mpfn%
2433   \let\beamer@thempfn=\thempfn%
2434   \let\beamer@kvorig=\KV@errx%
2435   \let\beamer@xkvorig=\XKV@err
2436   \def\beamer@footarg{%
2437     \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2438     \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2439     \setkeys{beamerfootnote}{#1}%
2440     \let\KV@errx=\beamer@kvorig%
2441     \let\XKV@errx=\beamer@xkvorig
2442     \ifx\beamer@footarg\@empty%
2443       \def\beamer@next{\stepcounter\beamer@mpfn
2444         \protected@xdef\@thefnmark{\beamer@thempfn}%
2445         \@footnotemark\beamer@RTLfootnotetext#2}%
2446     \else%
2447       \def\beamer@next{%
2448         \begingroup
2449           \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2450           \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2451         \endgroup
2452         \@footnotemark\beamer@RTLfootnotetext#2}%
2453     \fi%
2454   \beamer@next}
2455
2456 \renewcommand<>{\LTRfootnote}[1] [] {%
2457   \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2458   \let\beamer@mpfn=\@mpfn%
2459   \let\beamer@thempfn=\thempfn%
2460   \let\beamer@kvorig=\KV@errx%
2461   \let\beamer@xkvorig=\XKV@err
2462   \def\beamer@footarg{%
2463     \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2464     \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2465     \setkeys{beamerfootnote}{#1}%
2466     \let\KV@errx=\beamer@kvorig%
2467     \let\XKV@errx=\beamer@xkvorig
2468     \ifx\beamer@footarg\@empty%
2469       \def\beamer@next{\stepcounter\beamer@mpfn
2470         \protected@xdef\@thefnmark{\beamer@thempfn}%
2471         \@footnotemark\beamer@LTRfootnotetext#2}%
2472     \else%
2473       \def\beamer@next{%
2474         \begingroup
2475           \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2476           \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2477         \endgroup
2478         \@footnotemark\beamer@LTRfootnotetext#2}%
2479     \fi%
2480   \beamer@next}
2481
2482

```



20 File beamerbaseframesize-xetex-bidi.def

```

2483 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamer]
2484 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2485   \par\nointerlineskip%
2486   \global\beamer@slidehaszoomtrue%
2487   \advance\beamer@zoomcount by1\relax%
2488   \def\beamer@zoomborderwidth{0}%
2489   \edef\beamer@labelzoomed{\beamer@labelzoomed@\the\beamer@zoomframecount @\the\beamer@zoomcount}%
2490   \setkeys{beamerzoom}{#3}%
2491   \only<#1>{%
2492     {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2493     \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2494       \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2495         \vbox to #7{%
2496           \hbox to#6{\hfil}%
2497           \vfil%
2498         }%
2499       \else%
2500         \begingroup%
2501         \normalsize%
2502         \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2503           \pgfsetfillopacity{0}
2504           \pgftext[x=0cm,y=3pt]{.}
2505           \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2506         \end{pgfpicture}%
2507         \endgroup%
2508       \fi%
2509     }%
2510     \ht\@tempboxa=0pt%
2511     \wd\@tempboxa=0pt%
2512     \dp\@tempboxa=0pt%
2513     \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}}}%
2514     \ht\@tempboxa=0pt%
2515     \wd\@tempboxa=0pt%
2516     \dp\@tempboxa=0pt%
2517     \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2518   }%
2519   \only<#2>{%
2520     \ifundefined{\beamer@labelzoomed}%
2521     {%
2522       \hypertarget{\beamer@labelzoomed}{}%
2523       \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}%
2524     }%
2525     \gdef\beamer@zoomer{%
2526       % compute zoom factor
2527       \@tempdima=\beamer@frametextheight%
2528       \@tempdimb=#7\relax%
2529       \@tempcnta=\@tempdimb%
2530       \divide\@tempcnta by4096\relax%
2531       \multiply\@tempdima by16\relax%
2532       \divide\@tempdima by\@tempcnta%
2533       \@tempdimb=\paperwidth%
2534       \ifbeamer@plainframe%

```



```

2535 \else%
2536 \advance\@tempdimb by-\beamer@leftsidebar%
2537 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2538 \fi%
2539 \@tempdimc=#6\relax%
2540 \@tempcntb=\@tempdimc%
2541 \divide\@tempcntb by4096\relax%
2542 \multiply\@tempdimb by16\relax%
2543 \divide\@tempdimb by\@tempcntb%
2544 \ifdim\@tempdimb<\@tempdima%
2545 \@tempdima=\@tempdimb%
2546 \fi%
2547 \edef\beamer@temp{\strip@pt\@tempdima}%
2548 \@tempdimc=\beamer@frametextheight%
2549 \advance\@tempdimc by4pt%
2550 \@tempdimb=\paperwidth%
2551 \ifbeamer@plainframe%
2552 \else%
2553 \advance\@tempdimb by-\beamer@leftsidebar%
2554 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2555 \fi%
2556 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2557 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2558 \ht\@tempboxa=0pt%
2559 \wd\@tempboxa=0pt%
2560 \dp\@tempboxa=0pt%
2561 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2562 \ifbeamer@plainframe\beamer@leftmargin=\Gm@lmargin\fi%
2563 \if@RTL
2564 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\pape
2565 \pgftext[right,top]{\box\@tempboxa}
2566 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2567 \pgfusepath{clip}
2568 \begingroup
2569 \pgftransformscale{\beamer@temp}
2570 \@tempdima=#4\relax%
2571 \@tempdimb=#5\relax%
2572 {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2573 \pgftext[right,top]{\vbox{\vbox{} \nointerlineskip\unvbox\beamer@framebox}}
2574 \endgroup
2575 \end{pgfpicture}}%
2576 \else
2577 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargi
2578 \pgftext[left,top]{\box\@tempboxa}
2579 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2580 \pgfusepath{clip}
2581 \begingroup
2582 \pgftransformscale{\beamer@temp}
2583 \@tempdima=#4\relax%
2584 \@tempdimb=#5\relax%
2585 {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2586 \pgftext[left,top]{\vbox{\vbox{} \nointerlineskip\unvbox\beamer@framebox}}
2587 \endgroup
2588 \end{pgfpicture}}%

```



```

2589         \fi
2590     } }%
2591     \setbox\beamer@framebox=\vbox{%
2592         \nobreak\vbox{\nobreak\par\nobreak\beamer@entrycode\nobreak%
2593         \nointerlineskip\unvbox\beamer@frametitlebox%
2594         \nobreak%
2595         \box\beamer@framebox%
2596         \nobreak%
2597         \vss%
2598         \beamer@exitcode%
2599     }%
2600     \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2601 }%
2602 }%
2603 }
2604
2605

```

21 File beamerbaselocalstructure-xetex-bidi.def

```

2606 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2607 \def\beamer@enum@{%
2608     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2609     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2610     \bgroup
2611     \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2612     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2613     \egroup
2614     \expandafter
2615     \list
2616     {\usebeamertemplate{\beamer@enumtempl}}
2617     {\usecounter\@enumctr%
2618     \def\makelabel##1{\hss\llap{%
2619         \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2620         \usebeamerfont{fg}{enumerate \beameritemnestingprefix item}##1}}}%
2621     \beamer@cramped%
2622     \bidi@beamer@ragged%
2623     \beamer@firstlineitemizeunskip%
2624 }
2625
2626 \renewcommand{\itemize}[1][ ]{%
2627     \ifblank{#1}{\def\beamer@defaulttospec{#1}}%
2628     \ifnum \@itemdepth >2\relax\@toodeep\else
2629         \advance\@itemdepth\@ne
2630         \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2631         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2632         \bgroup
2633         \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2634         \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2635         \egroup
2636         \list
2637         {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2638         {\def\makelabel##1{%
2639             {%

```



```

2640         \hss\llap{%
2641             \usebeamerfont*{itemize \beameritemnestingprefix item}%
2642             \usebeamercolor[fg]{itemize \beameritemnestingprefix item}##1}}%
2643     }%
2644 }%
2645 }
2646 \fi%
2647 \beamer@cramped%
2648 \bidi@beamer@ragged%
2649 \beamer@firstlineitemizeunskip%
2650 }
2651
2652 \def\@@description{%
2653     \advance\beamer@descdefault by \labelsep%
2654     \usebeamerfont{description body}%
2655     \bgroup
2656     \usebeamercolor[fg]{description body}%
2657     \usebeamertemplate{description body begin}%
2658     \egroup
2659     \list
2660     {}
2661     {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2662     \beamer@cramped%
2663     \bidi@beamer@ragged
2664     \beamer@firstlineitemizeunskip%
2665 }
2666
2667 \renewenvironment{thebibliography}[1]
2668 {%\leavevmode\unskip%
2669 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
2670 \bidi@thebibliography@font@hook%
2671 \list{\@biblabel{\@arabic\c@enumiv}}%
2672     {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2673     \leftmargin\labelwidth
2674     \advance\leftmargin\labelsep
2675     \itemsep=0pt%
2676     \partopsep=0pt%
2677     \topsep=0pt%
2678     \usecounter{enumiv}%
2679     \let\p@enumiv\@empty
2680     \renewcommand\theenumiv{\@arabic\c@enumiv}
2681     \let\makelabel\beamer@biblabeltemplate}%
2682     \sloppy\bidi@beamer@ragged
2683     \clubpenalty10000
2684     \@clubpenalty \clubpenalty
2685     \widowpenalty10000%
2686     \sfcode`\.\@m}
2687 {\def\@noitemerr
2688     {\@latex@warning{Empty `thebibliography' environment}}}%
2689     \ifhmode\unskip\fi\endlist}
2690
2691

```



22 File beamerbasemisc-xetex-bidi.def

```
2692 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2693 \define@key{beamerst}{width}{%
2694   \def\beamer@ststart{%
2695     \begin{minipage}[t]{#1}%
2696       \bidi@beamer@ragged
2697       \beamer@stalign
2698       \beamer@stlinebreakrule
2699     }%
2700   \def\beamer@stend{\end{minipage}}%
2701
2702
```

23 File beamerbasenavigation-xetex-bidi.def

```
2703 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beam
2704 \def\slideentry#1#2#3#4#5#6{%
2705   %section number, subsection number, slide number, first/last frame, page number, part numb
2706   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2707     \ifbeamer@compress%
2708       \advance\beamer@xpos by1\relax%
2709     \else%
2710       \ifnum#2=0%
2711         \beamer@ypos@offset=1\relax%
2712       \fi
2713       \beamer@xpos=#3\relax%
2714       \beamer@ypos=#2\relax%
2715       \advance\beamer@ypos by \beamer@ypos@offset\relax
2716     \fi%
2717   \hbox to 0pt{%
2718     \beamer@tempdim=-\beamer@vboxoffset%
2719     \advance\beamer@tempdim by-\beamer@boxsize%
2720     \multiply\beamer@tempdim by\beamer@ypos%
2721     \advance\beamer@tempdim by -.05cm%
2722     \raise\beamer@tempdim\hbox{%
2723       \beamer@tempdim=\beamer@boxsize%
2724       \multiply\beamer@tempdim by\beamer@xpos%
2725       \advance\beamer@tempdim by -\beamer@boxsize%
2726       \advance\beamer@tempdim by 1pt%
2727       \kern\beamer@tempdim
2728       \global\beamer@section@min@dim\beamer@tempdim
2729       \hbox{\beamer@link(#4){%
2730         \usebeamerfont{mini frame}%
2731         \ifnum\c@section=#1%
2732           \ifnum\c@subsection=#2%
2733             \usebeamercolor[fg]{mini frame}%
2734             \ifnum\c@subsectionslide=#3%
2735               \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2736             \else%
2737               \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhil
2738             \fi%
2739           \else%
2740             \usebeamercolor{mini frame}%

```



```

2741         %\color{fg!50!bg}%
2742         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2743         \fi%
2744     \else%
2745         \usebeamercolor{mini frame}%
2746         %\color{fg!50!bg}%
2747         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2748         \fi%
2749     }}}} \hskip-10cm plus 1fil%
2750 } \fi \fi%
2751 \else%
2752 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2753 \fi \ignorespaces
2754 }
2755
2756 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2757 {
2758     \pgfpathmoveto{3.5bp}{0.5bp}
2759     \pgfpathqlineto{1.5bp}{2bp}
2760     \pgfpathqlineto{3.5bp}{3.5bp}
2761     \pgfusepathqfill
2762 }
2763
2764 \def\insertgotosymbol{%
2765 \if@RTL
2766     \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2767         \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2768     \end{pgfpicture}%
2769 \else
2770     \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2771         \pgfuseobject{beamer@gotosymbol}%
2772     \end{pgfpicture}%
2773 \fi
2774 }
2775
2776 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2777 {
2778     \pgfpathmoveto{5.5bp}{0.5bp}
2779     \pgfpathqlineto{3.5bp}{2bp}
2780     \pgfpathqlineto{5.5bp}{3.5bp}
2781     \pgfpathmoveto{3.5bp}{0.5bp}
2782     \pgfpathqlineto{1.5bp}{2bp}
2783     \pgfpathqlineto{3.5bp}{3.5bp}
2784     \pgfusepathqfill
2785 }
2786
2787 \def\insertskipsymbol{%
2788 \if@RTL
2789     \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2790         \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2791     \end{pgfpicture}%
2792 \else
2793     \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2794         \pgfuseobject{beamer@skipsymbol}%

```



```

2795 \end{pgfpicture}%
2796 \fi
2797 }
2798
2799 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2800 {
2801 \pgfpathmoveto{1.5bp}{0.5bp}
2802 \pgfpathqlineto{3.5bp}{2bp}
2803 \pgfpathqlineto{1.5bp}{3.5bp}
2804 \pgfusepathqfill
2805 }
2806
2807 \def\insertreturnsymbol{%
2808 \if@RTL
2809 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2810 \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2811 \end{pgfpicture}%
2812 \else
2813 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2814 \pgfuseobject{beamerreturnsymbol}%
2815 \end{pgfpicture}%
2816 \fi
2817 }
2818
2819

```

24 File beamerbaseoverlay-xetex-bidi.def

```

2820 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2821 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2822
2823

```

25 File beamerinnerthemedefault-xetex-bidi.def

```

2824 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2825 \newcommand*{\bidi@beamer@leftskip}{%
2826 \if@RTL
2827 \rightskip
2828 \else
2829 \leftskip
2830 \fi
2831 }
2832
2833 \newcommand*{\bidi@beamer@rightskip}{%
2834 \if@RTL
2835 \leftskip
2836 \else
2837 \rightskip
2838 \fi
2839 }
2840
2841 \bidi@csundef{beamer@tmpop@subsection in toc@default}
2842

```



```

2843 \bidi@csundef{beamer@@tmpop@subsubsection in toc@default}
2844
2845 \defbeamertemplate*{subsection in toc}{default}
2846 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2847
2848 \defbeamertemplate*{subsubsection in toc}{default}
2849 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2850 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2851
2852 \newcommand*{\bidi@beamer@blacktriangle}{%
2853 \if@RTL
2854 \blacktriangleleft%
2855 \else
2856 \blacktriangleright%
2857 \fi
2858 }
2859
2860 \bidi@csundef{beamer@@tmpop@itemize item@default}
2861
2862 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2863
2864 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2865
2866 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\d
2867 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2868 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2869
2870 \bidi@undef\beamer@@tmpop@footnote@default
2871
2872 \defbeamertemplate*{footnote}{default}
2873 {
2874 \parindent 1em\noindent%
2875 \bidi@beamer@ragged
2876 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2877 }
2878
2879 \defbeamertemplate*{RTLfootnote}{default}
2880 {
2881 \parindent 1em\noindent%
2882 \raggedleft
2883 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2884 }
2885
2886 \defbeamertemplate*{LTRfootnote}{default}
2887 {
2888 \parindent 1em\noindent%
2889 \raggedright
2890 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2891 }
2892
2893 \bidi@undef\beamer@@tmpop@caption@default
2894
2895 \defbeamertemplate*{caption}{default}
2896 {%

```



```

2897 \bidi@beamer@ragged
2898 {%
2899   \leavevmode
2900   \usebeamercolor[fg]{caption name}%
2901   \usebeamerfont*{caption name}%
2902   \insertcaptionname
2903   \usebeamertemplate{caption label separator}%
2904 }%
2905 \insertcaption\par
2906 }
2907
2908 \bidi@csundef{beamer@@tmpop@block begin@default}
2909
2910 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2911
2912 \bidi@csundef{beamer@@tmpop@block example begin@default}
2913
2914 \defbeamertemplate*{block begin}{default}
2915 {
2916   \par\vskip\medskipamount%
2917   \begin{beamercolorbox}[colsep*=.75ex]{block title}
2918     \usebeamerfont*{block title}\insertblocktitle%
2919   \end{beamercolorbox}%
2920   {\parskip0pt\par}%
2921   \ifbeamercolorempy[bg]{block title}
2922   {}
2923   {\ifbeamercolorempy[bg]{block body}{\nointerlineskip\vskip-0.5pt}}%
2924   \usebeamerfont{block body}%
2925   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2926     \ifbeamercolorempy[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\basel
2927   }
2928
2929 \defbeamertemplate*{block alerted begin}{default}
2930 {
2931   \par\vskip\medskipamount%
2932   \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2933     \usebeamerfont*{block title alerted}\insertblocktitle%
2934   \end{beamercolorbox}%
2935   {\parskip0pt\par}%
2936   \ifbeamercolorempy[bg]{block title alerted}
2937   {}
2938   {\ifbeamercolorempy[bg]{block body alerted}{\nointerlineskip\vskip-0.5pt}}%
2939   \usebeamerfont{block body alerted}%
2940   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2941     \ifbeamercolorempy[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75e
2942   }
2943
2944 \defbeamertemplate*{block example begin}{default}
2945 {
2946   \par\vskip\medskipamount%
2947   \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2948     \usebeamerfont*{block title example}\insertblocktitle%
2949   \end{beamercolorbox}%
2950   {\parskip0pt\par}%

```



```

2951 \ifbeamercolorempy[bg]{block title example}
2952 {}
2953 {\ifbeamercolorempy[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2954 \usebeamerfont{block body example}%
2955 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2956   \ifbeamercolorempy[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex}
2957 }
2958
2959 \bidi@csundef{beamer@@tmpop@abstract begin@default}
2960
2961 \defbeamerteremplate*{abstract begin}{default}
2962 {\beamercolorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil}
2963
2964 \bidi@undef{beamer@@tmpop@button@default}
2965
2966 \defbeamerteremplate*{button}{default}
2967 {%
2968   \setbox\beamer@tempbox=\hbox{\insertbuttontext}}%
2969   \ht\beamer@tempbox=6pt%
2970   \dp\beamer@tempbox=0pt%
2971   \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2972   \beamer@tempdim=\wd\beamer@tempbox%
2973   \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2974   \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2975   \if@RTL
2976     \kern4pt%
2977     \box\beamer@tempbox%
2978     \hskip-\beamer@tempdim%
2979   \fi
2980   \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2981     \color{bg}
2982     \pgfsetlinewidth{0.8pt}
2983     \pgfpathmoveto{0pt}{0pt}
2984     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2985     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2986     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2987     \pgfpathcurveto%
2988       {\pgfpoint{\the\beamer@dima}{8pt}}%
2989       {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2990       {\pgfpoint{\the\beamer@dimb}{4pt}}
2991     \pgfpathcurveto%
2992       {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2993       {\pgfpoint{\the\beamer@dima}{0pt}}%
2994       {\pgfpoint{\the\beamer@tempdim}{0pt}}
2995     \pgfpathclose
2996     \pgfusepathqfill
2997     \colorlet{bg}{parent.bg}
2998     \usebeamercolor[fg]{button border}
2999     \pgfpathmoveto{0pt}{0pt}
3000     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
3001     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
3002     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
3003     \pgfpathcurveto%
3004       {\pgfpoint{\the\beamer@dima}{8pt}}%

```



```

3005     {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
3006     {\pgfpoint{\the\beamer@dimb}{4pt}}
3007     \pgfpathcurveto%
3008     {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
3009     {\pgfpoint{\the\beamer@dimb}{0pt}}%
3010     {\pgfpoint{\the\beamer@tempdim}{0pt}}
3011     \pgfpathclose
3012     \pgfusepathqstroke
3013 \end{pgfpicture}%
3014 \if@RTL
3015 \else
3016     \hskip-\beamer@tempdim%
3017     \box\beamer@tempbox%
3018     \kern4pt%
3019 \fi
3020 }
3021
3022

```

26 File beamerinnerthemecircles-xetex-bidi.def

```

3023 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for bea
3024 \setbeamertemplate{sections/subsections in toc}[circle]
3025

```

27 File beamerinnerthemefocus-xetex-bidi.def

```

3026 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3027 \setbeamertemplate{section in toc}[square]
3028 \setbeamertemplate{subsection in toc}[square]
3029
3030 \setbeamertemplate{itemize items}[square]
3031 \setbeamertemplate{itemize subitem}[triangle]
3032
3033 \bidi@csundef{beamer@@tmpop@title page@focus}
3034
3035 \defbeamertemplate*{title page}{focus}{%
3036     {%
3037         \usebeamercolor{frametitle}\colorlet{focus@temp}{bg}%
3038         \begin{tikzpicture}[overlay, remember picture]
3039             \fill[color=focus@temp] (current page.north west) rectangle ([shift = {(0, -0.4
3040         \end{tikzpicture}
3041     }
3042
3043     \vspace{-1.65\baselineskip}
3044     \begin{minipage}[b] [0.35\paperheight]{\textwidth}
3045         \vspace{\baselineskip}
3046         \usebeamerfont{title}
3047         \usebeamercolor[fg]{frametitle}
3048         \inserttitle
3049     \end{minipage}
3050
3051     \begin{minipage}[t] [0.1\paperheight]{\textwidth}
3052         \usebeamerfont{subtitle}

```



```

3053         \usebeamercolor[fg]{frametitle}
3054         \insertsubtitle
3055     \end{minipage}
3056
3057     % Set the title graphic in a zero-height box, so that
3058     % the position of other elements is not affected.
3059     {\vfuzz=9999pt\vbox to 0pt {
3060         \if@RTL
3061             \raggedright
3062         \else
3063             \raggedleft
3064         \fi
3065         \inserttitlegraphic
3066     }}
3067
3068     \begin{minipage}[t]{\textwidth}
3069         \usebeamerfont{author}
3070         \insertauthor
3071     \end{minipage}
3072
3073     \vspace*{\baselineskip}
3074     \begin{minipage}[t]{\textwidth}
3075         \usebeamerfont{institute}
3076         \insertinstitute
3077     \end{minipage}
3078
3079     \vspace*{\baselineskip}
3080     \begin{minipage}[t]{\textwidth}
3081         \usebeamerfont{date}
3082         \insertdate
3083     \end{minipage}
3084
3085     \vspace*{0pt plus 100fill}
3086
3087     \addtocounter{framenum}{-1}
3088     \addtocounter{realframenum}{-1}
3089 }
3090
3091
3092

```

28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3093 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3094 \AtBeginDocument{%
3095     \setbeamsize{sidebar width left=.25\paperwidth}%
3096 }
3097
3098 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
3099
3100 \bidi@csundef{beamer@@tmpop@title page@inmargin}
3101
3102 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
3103

```




```

3104 \bidi@csundef{beamer@@tmpop@block end@inmargin}
3105
3106 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
3107
3108 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
3109
3110 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
3111
3112 \bidi@csundef{beamer@@tmpop@block example end@inmargin}
3113
3114 \defbeamertemplate*{section in toc}{inmargin}
3115 {\leavevmode
3116   \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
3117
3118 \defbeamertemplate*{title page}{inmargin}
3119 {
3120   \begin{block}{\inserttitleindicator}
3121     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3122     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3123   \end{block}
3124   \vfill
3125   \ifx\insertauthor\@empty
3126   \else
3127     \begin{block}{\insertauthorindicator}
3128       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3129     \end{block}
3130     \fi
3131     \ifx\insertinstitute\@empty
3132     \else
3133       \begin{block}{\insertinstituteindicator}
3134         \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3135       \end{block}
3136       \fi
3137       \ifx\insertdate\@empty
3138       \else
3139         \begin{block}{\insertdateindicator}
3140           \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3141         \end{block}
3142         \fi
3143     }
3144
3145 \defbeamertemplate*{block begin}{inmargin}
3146 {
3147   \par\vskip\medskipamount%
3148   \leavevmode%
3149   \beamer@putleft{\normalfont\usebeamercolor[fg]{block title}\usebeamerfont*{block title}\i
3150   \beginL\beamer@putright
3151     %\usebeamercolor[fg]{block body}% to be done!
3152 }
3153
3154 \defbeamertemplate*{block end}{inmargin}
3155 {\endbeamer@putright\endL\vskip\smallskipamount}
3156
3157 \defbeamertemplate*{block alerted begin}{inmargin}

```



```

3158 {
3159   \par\vskip\medskipamount%
3160   \leavevmode%
3161   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}}\usebeamerfont*{block
3162   \beginL\beamer@putright
3163   %\usebeamercolor[fg]{block body alerted}% to be done!
3164 }
3165
3166 \defbeamertemplate*{block alerted end}{inmargin}
3167 {\endbeamer@putright\endL\vskip\smallskipamount}
3168
3169 \defbeamertemplate*{block example begin}{inmargin}
3170 {
3171   \par\vskip\medskipamount%
3172   \leavevmode%
3173   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title example}}\usebeamerfont*{block
3174   \beginL\beamer@putright
3175   %\usebeamercolor[fg]{block body example}% to be done
3176 }
3177
3178 \defbeamertemplate*{block example end}{inmargin}
3179 {\endbeamer@putright\endL\vskip\smallskipamount}
3180
3181 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3182   \setbeamertemplate{section in toc}[inmargin]%
3183   \setbeamertemplate{subsection in toc}[inmargin]%
3184   \setbeamertemplate{subsubsection in toc}[inmargin]%
3185 }
3186
3187

```

29 File beamerinnerthememetropolis-xetex-bidi.def

```

3188 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3189 \setbeamertemplate{title}{
3190   \bidi@beamer@ragged%
3191   \linespread{1.0}%
3192   \inserttitle%
3193   \par%
3194   \vspace*{0.5em}
3195 }
3196
3197 \setbeamertemplate{subtitle}{
3198   \bidi@beamer@ragged%
3199   \insertsubtitle%
3200   \par%
3201   \vspace*{0.5em}
3202 }
3203
3204 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3205
3206 \defbeamertemplate{section page}{progressbar}{
3207   \centering
3208   \begin{minipage}{22em}

```



```

3209 \bidi@beamer@ragged
3210 \usebeamercolor[fg]{section title}
3211 \usebeamerfont{section title}
3212 \insertsectionhead\[-1ex]
3213 \usebeamertemplate*{progress bar in section page}
3214 \par
3215 \ifx\insertsubsectionhead\@empty\else%
3216 \usebeamercolor[fg]{subsection title}%
3217 \usebeamerfont{subsection title}%
3218 \insertsubsectionhead
3219 \fi
3220 \end{minipage}
3221 \par
3222 \vspace{\baselineskip}
3223 }
3224
3225 \setbeamertemplate{progress bar in section page}{
3226 \setlength{\metropolis@progressonsectionpage}{%
3227 \textwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3228 }%
3229 \begin{tikzpicture}
3230 \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3231 \if@RTLmain
3232 \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3233 \else
3234 \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage@linewidth);
3235 \fi
3236 \end{tikzpicture}%
3237 }
3238
3239 \renewcommand{\metropolis@block}[1]{
3240 \par\vskip\medskipamount%
3241 \setlength{\parskip}{0pt}
3242 \ifbeamercolorempy[bg]{block title#1}{%
3243 \if@RTL
3244 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3245 \else
3246 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3247 \fi
3248 }{%
3249 \ifbeamercolorempy[bg]{block title}{%
3250 \if@RTL
3251 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3252 \else
3253 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3254 \fi
3255 }%
3256 {%
3257 \if@RTL
3258 \begin{beamercolorbox}[
3259 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3260 rightskip=\metropolis@blockadjust,
3261 leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3262 ]{block title#1}%

```



```

3263 \else
3264 \begin{beamercolorbox}[
3265     sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3266     leftskip=\metropolis@blockadjust,
3267     rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3268 ]{block title#1}%
3269 \fi
3270 }}%
3271 \usebeamerfont*{block title#1}%
3272 \metropolis@strut%
3273 \insertblocktitle%
3274 \metropolis@strut%
3275 \end{beamercolorbox}%
3276 \nointerlineskip%
3277 \ifbeamercoloreempty[bg]{block body#1}{%
3278     \begin{beamercolorbox}[vmode]{block body#1}}{
3279 \ifbeamercoloreempty[bg]{block body}{%
3280     \begin{beamercolorbox}[vmode]{block body#1}%
3281 }{%
3282     \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3283     \vspace{-\metropolis@parskip}
3284 }}%
3285 \usebeamerfont{block body#1}%
3286 \setlength{\parskip}{\metropolis@parskip}%
3287 }
3288
3289
3290 \setbeamertemplate{footnote}{%
3291     \parindent 0em\noindent%
3292     \bidi@beamer@ragged
3293     \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3294 }
3295
3296 \setbeamertemplate{RTLfootnote}{%
3297     \parindent 0em\noindent%
3298     \raggedleft
3299     \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3300 }
3301
3302 \setbeamertemplate{LTRfootnote}{%
3303     \parindent 0em\noindent%
3304     \raggedright
3305     \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3306 }
3307
3308 \setbeamertemplate{itemize items}{\textbullet}
3309
3310 \setbeamertemplate{section page}[progressbar]
3311
3312

```

30 File beamerinnerthemerectangles-xetex-bidi.def

```

3313 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations fo

```



```

3314 \setbeamertemplate{sections/subsections in toc}[square]
3315 \setbeamertemplate{items}[square]
3316

```

31 File beamerinnerthemrounded-xetex-bidi.def

```

3317 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b
3318 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themrounded@shadow]
3319 \setbeamertemplate{items}[ball]
3320 \setbeamertemplate{sections/subsections in toc}[ball]
3321

```

32 File beamerouterthemedefault-xetex-bidi.def

```

3322 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3323 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by1.
3324
3325 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
3326
3327 \AtBeginDocument{%
3328   \if@RTLmain
3329     \setbeamertemplate{frametitle}[default] [right]
3330   \fi
3331 }
3332
3333 \bidi@csundef{beamer@tmpop@note page@default}
3334
3335 \newcommand*{\bidi@beamer@today}{%
3336 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3337
3338 \defbeamertemplate*{note page}{default}
3339 {%
3340   {%
3341     \scriptsize
3342     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3343     \ifbeamercolorempy[bg]{note title}{\fi}%
3344     \insertvrule{.25\paperheight}{note title.bg}%
3345     \vskip-.25\paperheight%
3346     \nointerlineskip%
3347   }%
3348   \vbox{
3349     \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3350     \vskip-0.25\paperheight%
3351     \nointerlineskip
3352     \if@RTL
3353       \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3354         \begin{pgflowlevelslope}{\pgftransformrotate{-90}}
3355           {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3356           \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3357         \end{pgflowlevelslope}
3358       \end{pgfpicture}%
3359     \else
3360       \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3361         \begin{pgflowlevelslope}{\pgftransformrotate{90}}

```



```

3362         {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3363         \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@B
3364         \end{pgflowlevelslope}
3365         \end{pgfpicture}%
3366         \fi}
3367     \nointerlineskip
3368     \vbox to .25\paperheight{\vskip0.5em
3369     \if@RTL
3370         \moveright0.25\textwidth
3371     \fi
3372         \hbox{\insertshorttitle[width=0.75\textwidth]}}%
3373         \setbox\beamer@tempbox=\hbox{\insertsection}%
3374
3375     \if@RTL
3376         \moveright\dimexpr0.29\textwidth-14pt\relax
3377     \fi
3378     \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3379         width0.4pt height7pt\vrule width 9pt
3380         height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}%
3381         \if@RTL\endR\fi}}%
3382         \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3383
3384     \if@RTL
3385         \moveright\dimexpr0.29\textwidth-27.4pt\relax
3386     \fi         \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3387         width0.4pt height7pt\vrule width 9pt
3388         height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}%
3389         \if@RTL\endR\fi}}%
3390         \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3391
3392     \if@RTL
3393         \moveright\dimexpr0.33\textwidth-40.8pt\relax
3394     \fi         \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3395         width0.4pt height7pt\vrule width 9pt
3396         height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi%
3397         \if@RTL\endR\fi}}%
3398         \vfil}%
3399     }%
3400     \ifbeamercolorempy[bg]{note page}{}{%
3401         \nointerlineskip%
3402         \insertvrule{.75\paperheight}{note page.bg}%
3403         \vskip-.75\paperheight%
3404     }%
3405     \vskip.25em
3406     \nointerlineskip
3407     \insertnote
3408 }
3409
3410
3411

```

33 File beamerouterthemefocus-xetex-bidi.def

```

3412 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea

```



```

3413 \bidi@undef\beamer@@tmpop@footline@progressbar
3414
3415 \defbeamertertemplate*{footline}{progressbar}{%
3416   % If not appendix.
3417   \ifnum\mainend<0% From package appendixnumberbeamer.
3418   %
3419   \settowidth{\focus@pbar@leftoffset}{1}%
3420   \addtolength{\focus@pbar@leftoffset}{1.5em}%
3421   %
3422   \ifx\beamer@focus@totalframenummering\no%
3423     \settowidth{\focus@pbar@rightoffset}{}%
3424     \addtolength{\focus@pbar@rightoffset}{0.5em}%
3425   \else%
3426     \settowidth{\focus@pbar@rightoffset}{\inserttotalframenummer}%
3427     \addtolength{\focus@pbar@rightoffset}{1.5em}%
3428   \fi%
3429   %
3430   % If not title page.
3431   \ifnum\value{realframenummer}>0%
3432     \ifnum\value{framenummer}<\inserttotalframenummer%
3433       \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footli
3434         \pgfmathsetmacro{\focus@pbar@progress}%
3435         {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inse
3436
3437         \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3438 \if@RTLmain
3439         \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoff
3440         \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle
3441         ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west,
3442 \else
3443         \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\fo
3444         \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pb
3445         ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=east,
3446 \fi
3447         \ifx\beamer@focus@totalframenummering\no%
3448         \else%
3449 \if@RTLmain
3450         \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\t
3451         ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=e
3452 \else
3453         \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rig
3454         ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=w
3455 \fi
3456         \fi%
3457         \end{tikzpicture}%
3458       \else%
3459         \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3460         \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3461         \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height
3462 \if@RTLmain
3463         \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\
3464 \else
3465         \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightof
3466 \fi

```



```

3467             \ifx\beamer@focus@totalframenumbers\no%
3468             \else%
3469 \if@RTLmain
3470             \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\focus@pba
3471             \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0
3472 \else
3473             \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.
3474             \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rig
3475 \fi
3476             \fi%
3477             \end{tikzpicture}%
3478             \fi%
3479             \fi%
3480             \fi%
3481 }
3482
3483

```

34 File beamerouterthemeinfoclines-xetex-bidi.def

```

3484 \ProvidesFile{beamerouterthemeinfoclines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for
3485 \bidi@csundef{beamer@@tmpop@footline@infoclines theme}
3486
3487 \defbeamertemplate*{footline}{infoclines theme}
3488 {%
3489   \leavevmode%
3490   \hbox{%
3491     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3492     \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\b
3493     \end{beamercolorbox}%
3494     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3495     \usebeamerfont{title in head/foot}\insertshorttitle
3496     \end{beamercolorbox}%
3497     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,s
3498     \hfill%
3499     \usebeamerfont{date in head/foot}%
3500     \insertshortdate{}%
3501     \hfill%
3502     \bgroup
3503     \usebeamerfont{page number in head/foot}%
3504     \usebeamerfont{page number in head/foot}%
3505     \usebeamertemplate{page number in head/foot}%
3506     \egroup
3507     \end{beamercolorbox}}%
3508     \vskip0pt%
3509 }
3510
3511 \bidi@csundef{beamer@@tmpop@headline@infoclines theme}
3512
3513 \defbeamertemplate*{headline}{infoclines theme}
3514 {%
3515   \leavevmode%
3516   \hbox{%
3517     \if@RTL

```




```

3518 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3519 \else
3520 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3521 \fi
3522 \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3523 \end{beamercolorbox}%
3524 \if@RTL
3525 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}%
3526 \else
3527 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3528 \fi
3529 \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3530 \end{beamercolorbox}}%
3531 \vskip0pt%
3532 }
3533
3534 \bidi@AfterFile{beamerouterthememsplit-xetex-bidi.def}{%
3535 \setbeamertemplate{footline}[infolines theme]%
3536 }
3537

```

35 File beamerouterthememetropolis-xetex-bidi.def

```

3538 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3539 \setbeamertemplate{progress bar in head/foot}{
3540 \nointerlineskip
3541 \setlength{\metropolis@progressinheadfoot}{%
3542 \paperwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3543 }%
3544 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3545 \begin{tikzpicture}
3546 \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3547 \if@RTLmain
3548 \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metr
3549 \else
3550 \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadf
3551 \fi
3552 \end{tikzpicture}%
3553 \end{beamercolorbox}
3554 }
3555
3556 \AtBeginDocument{%
3557 \setbeamertemplate{frametitle}[plain]%
3558 }
3559
3560

```

36 File beamerouterthememiniframes-xetex-bidi.def

```

3561 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3562 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3563
3564 \defbeamertemplate*{headline}{miniframes theme}
3565 {%

```



```

3566 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3567 \end{beamercolorbox}
3568 \begin{beamercolorbox}{section in head/foot}
3569 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3570 \end{beamercolorbox}%
3571 \ifbeamer@theme@subsection%
3572 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3573 \end{beamercolorbox}
3574 \if@RTL
3575 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3576 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3577 \else
3578 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3579 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3580 \fi
3581 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3582 \end{beamercolorbox}%
3583 \fi%
3584 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3585 \end{beamercolorbox}
3586 }
3587
3588

```

37 File beamerouterthemesidebar-xetex-bidi.def

```

3589 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3590 \bidi@csundef{beamer@@tmpop@frametitle@sidebar theme}
3591
3592 \bidi@csundef{beamer@@tmpop@headline@sidebar theme}
3593
3594 \bidi@csundef{beamer@@tmpop@sidebar left@sidebar theme}
3595
3596 \bidi@csundef{beamer@@tmpop@sidebar right@sidebar theme}
3597
3598 \ifdim\beamer@headheight>0pt
3599
3600 \defbeamer*template*{frametitle}{sidebar theme}
3601 {%
3602 \nointerlineskip%
3603 \ifbeamer@plainframe%
3604 \hbox{\usebeamercolor[bg]{frametitle}%
3605 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3606 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\bea
3607 \nointerlineskip%
3608 \fi%
3609 \vskip-\beamer@headheight%
3610 \vbox to \beamer@headheight{%
3611 \vfil
3612 \bidi@beamer@leftskip=-\beamer@leftmargin%
3613 \advance\bidi@beamer@leftskip by0.3cm%
3614 \bidi@beamer@rightskip=-\beamer@rightmargin%
3615 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3616 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}

```



```

3617     \ifx\insertframesubtitle\@empty\else%
3618         {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesubtitle}%
3619     \fi%
3620     \vbox{}%
3621     \vskip-1em%
3622     \vfil
3623 }%
3624 }
3625
3626 \AtBeginDocument{%
3627     \setbeamertemplate{frametitle}[sidebar theme]%
3628 }
3629
3630 \defbeamertemplate*{headline}{sidebar theme}
3631 {%
3632     \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3633         \ifx\beamer@sidebarside\beamer@lefttext%
3634         \else%
3635             \hfill%
3636         \fi%
3637         \ifdim\beamer@sidebarwidth>0pt%
3638             \bgroup
3639             \usebeamercolor[bg]{logo}%
3640             \if@RTLmain
3641             \else
3642                 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3643                 \hskip-\beamer@sidebarwidth%
3644             \fi
3645             \hbox to \beamer@sidebarwidth{\hss\vbox to
3646                 \beamer@headheight{\vss\hbox{{\color{fg}\insertlogo}}\vss}\hss}%
3647             \if@RTLmain
3648                 \hskip-\beamer@sidebarwidth%
3649                 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3650             \fi
3651             \egroup
3652         \else%
3653             \vrule width0pt height \beamer@headheight%
3654         \fi%
3655     \end{beamercolorbox}
3656 }
3657 \fi
3658
3659 \def\beamer@sidebarformat#1#2#3{%
3660 \if@RTL
3661     \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#2}
3662 \else
3663     \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#2}
3664 \fi
3665     \vbox{}%
3666     #3\par%
3667     \vbox{}%
3668     \vskip-1.5ex%
3669 \end{beamercolorbox}
3670 }

```



```

3671
3672 \ifdim\beamer@sidebarwidth>0pt
3673
3674 \AtBeginDocument{%
3675   \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3676 }
3677
3678 \defbeamertemplate*{sidebar \beamer@sidebarside}{sidebar theme}
3679 {
3680   \beamer@tempdim=\beamer@sidebarwidth%
3681   \advance\beamer@tempdim by -6pt%
3682   {\usebeamerfont{title in sidebar}%
3683     \vskip1.5em%
3684     \hskip3pt%
3685     \bgroup
3686     \usebeamercolor[fg]{title in sidebar}%
3687     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3688     \vskip1.25em%
3689   }%
3690   {%
3691     \hskip3pt%
3692     \bgroup
3693     \usebeamercolor[fg]{author in sidebar}%
3694     \usebeamerfont{author in sidebar}%
3695     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3696     \vskip1.25em%
3697   }%
3698   \insertverticalnavigation{\beamer@sidebarwidth}%
3699   \vfill
3700   \ifx\beamer@sidebarside\beamer@lefttext%
3701   \else%
3702     \usebeamercolor{normal text}%
3703     \llap{\usebeamertemplate***{navigation symbols}\hskip0.1cm}%
3704     \vskip2pt%
3705   \fi%
3706 }%
3707 \fi
3708

```

38 File beamerouterthemesplit-xetex-bidi.def

```

3709 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3710 \bidi\csundef{beamer@tmpop@footline@split theme}
3711
3712 \defbeamertemplate*{footline}{split theme}
3713 {%
3714   \leavevmode%
3715   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3716 \else
3717 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3718 \fi
3719   \usebeamerfont{author in head/foot}\insertshortauthor
3720   \end{beamercolorbox}%
3721 \if@RTL

```



```

3722 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3723 \else
3724 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3725 \fi
3726 \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bggroup\usebeamercolor[
3727 \end{beamercolorbox}}}%
3728 \vskip0pt%
3729 }
3730
3731

```

39 File beamerouterthemeshadow-xetex-bidi.def

```

3732 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3733 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3734 color(0pt)=(frametitle right.bg);
3735 color(\paperwidth)=(frametitle.bg)
3736 }
3737
3738 \newcommand*{\bidi@beamer@frametitleshade}{%
3739 \if@RTLmain
3740 \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3741 \else
3742 \pgfuses shading{beamer@frametitleshade}%
3743 \fi
3744 }
3745
3746 \bidi@csundef{beamer@tmpop@frametitle@shadow theme}
3747
3748 \defbeamer template*{frametitle}{shadow theme}
3749 {%
3750 \nointerlineskip%
3751 \vskip-2pt%
3752 \hbox{\leavevmode
3753 \advance\beamer@leftmargin by -12bp%
3754 \advance\beamer@rightmargin by -12bp%
3755 \beamer@tempdim=\textwidth%
3756 \advance\beamer@tempdim by \beamer@leftmargin%
3757 \advance\beamer@tempdim by \beamer@rightmargin%
3758 \hskip-\Gm@lmargin\hbox{%
3759 \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3760 \vbox{\vskip-.75ex%
3761 \bidi@beamer@leftskip0.3cm%
3762 \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3763 \bggroup\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframe
3764 \ifx\insertframesubtitle\empty\else%
3765 {\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\insertframesu
3766 \fi%
3767 \nointerlineskip
3768 \vbox{}}%
3769 \end{minipage}}}%
3770 \beamer@tempdim=\ht\beamer@tempbox%
3771 \advance\beamer@tempdim by 2pt%
3772 \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}

```



```

3773     \begin{pgfscope}
3774         \pgfsetfillcolor{black}%
3775         \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3776         \pgfsetfading{beamer@topshadowmask}{}%
3777         \pgfusepath{fill}%
3778     \end{pgfscope}
3779     \begin{pgfscope}
3780         \usebeamercolor{frametitle right}%
3781         \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3782         \pgfusepath{clip}%
3783         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3784     \end{pgfscope}
3785     \end{pgfpicture}
3786     \hskip-\paperwidth%
3787     \box\beamer@tempbox%
3788 }%
3789 \hskip-\Gm@rmargin%
3790 }%
3791 \vskip-2pt
3792 }
3793
3794 \AtBeginDocument{%
3795     \setbeamertemplate{frametitle}[shadow theme]%
3796 }
3797
3798

```

40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3799 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3800 \bidi@csundef{beamer@@tmpop@headline@smoothbars theme}
3801
3802 \bidi@csundef{beamer@@tmpop@frametitle@smoothbars theme}
3803
3804 \defbeamertemplate*{headline}{smoothbars theme}
3805 {%
3806     \pgfuses shading{beamer@barshade}%
3807     \vskip-0.05ex%
3808     \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3809     \begin{pgfpicture}
3810         \begin{pgfscope}%
3811             \ifbeamer@sb@subsection%
3812                 \pgfsetfillcolor{subsection in head/foot.bg}%
3813             \else%
3814                 \pgfsetfillcolor{section in head/foot.bg}%
3815             \fi%
3816             \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3817             \pgfsetfading{beamer@belowframetitlemask}{}%
3818             \pgfusepath{fill}%
3819         \end{pgfscope}%
3820     \end{pgfpicture}%
3821     \end{beamer colorbox}%
3822     \ifbeamer@sb@subsection%
3823         \vskip-9.75ex%

```



```

3824 \else%
3825 \vskip-6.85ex%
3826 \fi%
3827 \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3828 \insertnavigation{\paperwidth}
3829 \end{beamercolorbox}%
3830 \ifbeamer@sb@subsection%
3831 \if@RTL
3832 \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3833 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3834 \else
3835 \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3836 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3837 \fi
3838 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3839 \end{beamercolorbox}%
3840 \fi%
3841 }%
3842
3843 \defbeamertemplate*{frametitle}{smoothbars theme}
3844 {%
3845 \nointerlineskip%
3846 \vskip-0.19ex%
3847 \usebeamerfont{headline}%
3848 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3849 \pgfuses shading{beamer@aboveframetitle}%
3850 \end{beamercolorbox}%
3851 \vskip-1ex%
3852 \nointerlineskip%
3853 \if@RTL
3854 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3855 \else
3856 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3857 \fi
3858 \vskip0.5ex%
3859 \usebeamerfont*{frametitle}\strut\insertframetitle%
3860 \ifx\insertframesubtitle\@empty%
3861 \strut\par%
3862 \else
3863 \par{\usebeamerfont*{framesubtitle}\usebeamercolor[fg]{framesubtitle}\strut\insertf
3864 \fi}%
3865 \usebeamerfont{headline}%
3866 \vskip0.05ex%
3867 \end{beamercolorbox}%
3868 \nointerlineskip%
3869 \vskip-0.05ex%
3870 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3871 \begin{pgfpicture}
3872 \begin{pgfscope}%
3873 \pgfsetfillcolor{frametitle.bg}%
3874 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3875 \pgfsetfading{beamer@belowframetitlemask}{}%
3876 \pgfusepath{fill}%
3877 \end{pgfscope}%

```



```

3878 \end{pgfpicture}%
3879 \end{beamercolorbox}%
3880 }
3881
3882 \AtBeginDocument{%
3883 \setbeamertheme{frametitle}[smoothbars theme]%
3884 }
3885
3886

```

41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3887 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3888 \bidi\csundef{beamer@tmpop@headline@smoothtree theme}
3889
3890 \bidi\csundef{beamer@tmpop@frametitle@smoothtree theme}
3891
3892 \defbeamertheme*{headline}{smoothtree theme}
3893 {%
3894 \pgfuseshading{beamer@treeshade}%
3895 \vskip-0.05ex%
3896 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3897 \begin{pgfpicture}
3898 \begin{pgfscope}%
3899 \pgfsetfillcolor{subsection in head/foot.bg}%
3900 \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3901 \pgfsetfading{beamer@belowframetitlemask}{}%
3902 \pgfusepath{fill}%
3903 \end{pgfscope}%
3904 \end{pgfpicture}%
3905 \end{beamercolorbox}%
3906 \vskip-9.15ex%
3907 \if@RTL
3908 \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3909 rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3910 \else
3911 \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3912 leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3913 \fi
3914 \usebeamerfont{title in head/foot}\insertshorttitle
3915 \end{beamercolorbox}
3916 \if@RTL
3917 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3918 rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3919 \else
3920 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3921 leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3922 \fi
3923 \usebeamerfont{section in head/foot}%
3924 \hskip6pt\insertsectionhead
3925 \end{beamercolorbox}
3926 \if@RTL
3927 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3928 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}

```




```

3929 \else
3930 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3931     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3932 \fi
3933 \usebeamerfont{subsection in head/foot}%
3934 \hskip12pt\insertsubsectionhead
3935 \end{beamercolorbox}
3936 \vskip-0.4ex%
3937 }
3938
3939 \defbeamertemplate*{frametitle}{smoothtree theme}
3940 {%
3941 \nointerlineskip%
3942 \vskip-0.05ex%
3943 \usebeamerfont{headline}%
3944 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3945 \pgfuses shading{beamer@aboveframetitle}%
3946 \end{beamercolorbox}
3947 \nointerlineskip%
3948 \if@RTL
3949 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3950 \else
3951 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3952 \fi
3953 \vskip-1.2ex%
3954 \usebeamerfont*{frametitle}\strut\insertframetitle%
3955 \ifx\insertframesubtitle\@empty%
3956 \strut\par%
3957 \else
3958 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}%
3959 \fi%%
3960 \usebeamerfont{headline}%
3961 \end{beamercolorbox}%
3962 \nointerlineskip
3963 \vskip-0.2ex%
3964 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3965 \begin{pgfpicture}
3966 \begin{pgfscope}%
3967 \pgfsetfillcolor{frametitle.bg}%
3968 \pgfpathrectangle{\pgfpoint{- .5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3969 \pgfsetfading{beamer@belowframetitlemask}{}%
3970 \pgfusepath{fill}%
3971 \end{pgfscope}%
3972 \end{pgfpicture}%
3973 \end{beamercolorbox}%
3974 }
3975
3976
3977 \AtBeginDocument{%
3978 \setbeamertemplate{frametitle}[smoothtree theme]%
3979 }
3980
3981

```



42 File beamerouterthemetree-xetex-bidi.def

```
3982 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beam
3983 \bidi@csundef{beamer@tmpop@headline@tree theme}
3984
3985 \defbeamer-template*{headline}{tree theme}
3986 {%
3987   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3988   \end{beamercolorbox}
3989   \if@RTL
3990   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3991     rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3992   \else
3993   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3994     leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3995   \fi
3996   \usebeamerfont{title in head/foot}\insertshorttitle
3997   \end{beamercolorbox}
3998   \if@RTL
3999   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4000     rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
4001   \else
4002   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4003     leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
4004   \fi
4005   \usebeamerfont{section in head/foot}%
4006   \ifbeamer@tree@showhooks
4007     \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
4008     \ifdim\wd\beamer@tempbox>1pt%
4009       \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.
4010       \hskip1pt%
4011     \fi%
4012   \else%
4013     \hskip6pt%
4014   \fi%
4015   \insertsectionhead
4016   \end{beamercolorbox}
4017   \if@RTL
4018   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4019     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
4020   \else
4021   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4022     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
4023   \fi
4024   \usebeamerfont{subsection in head/foot}%
4025   \ifbeamer@tree@showhooks
4026     \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
4027     \ifdim\wd\beamer@tempbox>1pt%
4028       \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height
4029       \hskip1pt%
4030     \fi%
4031   \else%
4032     \hskip12pt%
4033   \fi%
```



```

4034     \insertsubsectionhead
4035     \end{beamercolorbox}
4036     \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
4037     \end{beamercolorbox}
4038 }
4039
4040

```

43 File beamerthemeHannover-xetex-bidi.def

```

4041 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
4042 \AtBeginDocument{%
4043   \if@RTLmain
4044     \setbeamertemplate{frametitle}[default][left]%
4045   \else
4046     \setbeamertemplate{frametitle}[default][right]%
4047   \fi
4048 }
4049
4050

```

44 File beamerthemeSingapore-xetex-bidi.def

```

4051 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
4052 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{%}
4053
4054 \beamertemplatedotitem
4055
4056 \AtBeginDocument{%
4057   \setbeamertemplate{frametitle}[default][center]%
4058 }
4059
4060

```

45 File bidi.sty

```

4061 \NeedsTeXFormat{LaTeX2e}
4062 \def\bididate{2025/12/06}
4063 \def\bidi@version{25.12.06}
4064 \def\bidi@releasename{Iran}
4065 \newcommand*{\bidi@releasename}{\bidi@releasename}
4066 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\space]
4067 Bidirectional typesetting in plain TeX and LaTeX]
4068 \newif\if@bidi@banner
4069 \newif\if@bidi@pdfbanner
4070 \newif\iffootdir@debug
4071 \newif\if@extrafootnotefeatures
4072 \newif\if@nonlatin
4073 \newif\if@bidi@pdfm@mark
4074 \newif\if@bidi@perpage@footnote
4075 \ExplSyntaxOn
4076 \msg_new:nnn {bidi} {cannot-use-engine}
4077 {
4078   Oops!~can~not~use~\c_sys_engine_str.\\

```



```

4079   The~bidi~package~requires~XeTeX.
4080 }
4081 \sys_if_engine_xetex:F
4082 {
4083   \msg_fatal:nn {bidi} {cannot-use-engine}
4084 }
4085
4086 \keys_define:nn { bidi }
4087 {
4088   banner .choice: ,
4089   banner / on .code:n = \@bidi@bannertrue ,
4090   banner / off .code:n = \@bidi@bannerfalse ,
4091   banner .default:n = on
4092 }
4093 \keys_define:nn { bidi }
4094 {
4095   PDFbanner .choice: ,
4096   PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4097   PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4098   PDFbanner .default:n = on
4099 }
4100 \keys_define:nn { bidi }
4101 {
4102   RTLdocument .choice: ,
4103   RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4104   RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4105   RTLdocument .default:n = on
4106 }
4107 \keys_define:nn { bidi }
4108 {
4109   rldocument .choice: ,
4110   rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4111   rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4112   rldocument .default:n = on
4113 }
4114 \keys_define:nn { bidi }
4115 {
4116   documentdirection .choice: ,
4117   documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4118   documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4119 }
4120 \keys_define:nn { bidi }
4121 {
4122   tabledirection .choice: ,
4123   tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4124   tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4125 }
4126 \keys_define:nn { bidi }
4127 {
4128   footnotedirection .choice: ,
4129   footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4130   footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4131 }
4132 \keys_define:nn { bidi }

```



```

4133 {
4134     debugfootnotedirection .choice: ,
4135     debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4136     debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4137     debugfootnotedirection .default:n = on
4138 }
4139 \keys_define:nn { bidi }
4140 {
4141     footnoterule .choice: ,
4142     footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,
4143     footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4144     footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4145     footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4146     footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4147 }
4148 \keys_define:nn { bidi }
4149 {
4150     extrafootnotefeatures .choice: ,
4151     extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4152     extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,
4153     extrafootnotefeatures .default:n = on
4154 }
4155 \keys_define:nn { bidi }
4156 {
4157     script .choice: ,
4158     script / latin .code:n = \@nonlatinfalse ,
4159     script / nonlatin .code:n = \@nonlatintrue ,
4160     script .default:n = latin
4161 }
4162 \keys_define:nn { bidi }
4163 {
4164     DetectColumn .choice: ,
4165     DetectColumn / on .code:n =
4166         \def\bidi@firstcolumn@status@write{%
4167             \protected@write\@auxout{%
4168                 {\string\bidi@column@status
4169                     {1}}}
4170         \def\bidi@lastcolumn@status@write{%
4171             \protected@write\@auxout{%
4172                 {\string\bidi@column@status{2}}} ,
4173     DetectColumn / off .code:n =
4174         \let\bidi@firstcolumn@status@write\relax
4175         \let\bidi@lastcolumn@status@write\relax ,
4176     DetectColumn .default:n = on
4177 }
4178 \keys_define:nn { bidi }
4179 {
4180     logo .choice: ,
4181     logo / on .code:n = \AtEndOfPackage{\AtBeginDocument{\@bidi@inslogo}} ,
4182     logo / off .code:n = \AtEndOfPackage{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4183     logo .default:n = on
4184 }
4185 \keys_define:nn { bidi }
4186 {

```



```

4187 pdfinfo .choice: ,
4188 pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4189 pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4190 pdfinfo .default:n = on
4191 }
4192 % The `perpagefootnote' option is documented in UK TeX FAQ at
4193 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4194 \keys_define:nn { bidi }
4195 {
4196   perpagefootnote .choice: ,
4197   perpagefootnote / on .code:n = \@bidi@perpage@footnotetrue ,
4198   perpagefootnote / off .code:n = \@bidi@perpage@footnotefalse ,
4199   perpagefootnote .default:n = on
4200 }
4201 \keys_set:nn { bidi }
4202 {
4203   banner = on ,
4204   PDFbanner = on ,
4205   DetectColumn = off
4206 }
4207 }
4208 \ExplSyntaxOff
4209 \ProcessKeyOptions
4210 \edef\@bidi@info{*****~J%
4211 * ~J%
4212 * bidi package (Bidirectional typesetting with~J%
4213 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)~J%
4214 * ~J%
4215 * Description: A convenient interface for~J%
4216 * typesetting bidirectional texts in plain TeX~J%
4217 * and LaTeX. The package includes adaptations~J%
4218 * for use with many other commonly-used packages.~J%
4219 * ~J%
4220 * Copyright (c) 2007--2026 Vafa Khalighi~J%
4221 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
4222 * ~J%
4223 * v\bidi@version\space (Release \bidi@releasename), \bididate~J%
4224 * ~J%
4225 * License: LaTeX Project Public License, version~J%
4226 * 1.3c or higher (your choice)~J%
4227 * ~J%
4228 * Location on CTAN: /macros/unicodetex/generic/bidi~J%
4229 * ~J%
4230 * Issue tracker: https://github.com/xepersian/bidi/issues~J%
4231 * ~J%
4232 * Primary author of bidi package: Vafa Khalighi.~J%
4233 * ~J%
4234 *****}
4235 \edef\bidi@everyjob{\the\everyjob}
4236 \if@bidi@banner
4237   \typeout{\@bidi@info}
4238   \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4239 \fi
4240 \newcommand*{\bidiversion}{\ensuremath\bidi@version}

```



```

4241 \RequirePackage{bidiutils}
4242 \RequirePackage{zref-abspace}
4243 \RequirePackage{auxhook}
4244 \RequirePackage{ltxcmds}
4245 \eqnewif{\if@RTLmain}{\if@rlmain}
4246 \eqnewif{\if@RTL}{\if@rl}
4247 \newcommand*{\setlatin}{\@nonlatinfalse}
4248 \newcommand*{\setnonlatin}{\@nonlatintrue}
4249 \eqnewif{\if@RTLtab}{\if@tab@rl}
4250 \newif\if@hboxRconstruct
4251 \newif\if@bidi@pdfencrypt
4252 \newcommand*{\setRTLtable}{\@RTLtabtrue}
4253 \newcommand*{\setLTRtable}{\@RTLtabfalse}
4254 \newif\if@RTLMarginpar
4255 \newif\if@LTRmarginpar
4256 \newif\if@LTRbibitems
4257 \newif\if@RTLbibitems
4258 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4259 \newif\if@bidi@list@minipage@parbox
4260 \newif\if@bidi@list@minipage@parbox@not@nob
4261 \newcommand*{\@bidi@pdfcreator}{%
4262   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4263 }
4264 \newcommand*{\@bidi@pdfproducer}{%
4265   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4266 }
4267 \newcommand*{\@bidi@pdfcustomproperties}{%
4268   This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
4269   Released December 6, 2025.
4270 }
4271 \newcommand*{\bidi@beamer@ragged}{%
4272 \@RTLmainfalse
4273 \AtBeginDocument{%
4274   \if@RTLmain\else
4275     \if@RTL\@RTLmaintrue%
4276     \else\@RTLmainfalse%
4277     \fi%
4278   \fi%
4279 }
4280 \let\n@xt=\
4281 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
4282 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4283 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4284 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4285 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4286   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4287 \newinsert\@bidi@copyins@
4288 \skip\@bidi@copyins@=12\p@
4289 \dimen\@bidi@copyins@=40pc
4290 \count\@bidi@copyins@=1000
4291 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
4292 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
4293   \if@RTLmain
4294     \if@twocolumn

```



```

4295     \hboxR to \columnwidth
4296   \else
4297     \hboxR to \textwidth
4298   \fi
4299 \else
4300   \if@twocolumn
4301     \hboxL to \columnwidth
4302   \else
4303     \hboxL to \textwidth
4304   \fi
4305 \fi
4306 }
4307 \newcommand*{\@bidi@logo}[1]{%
4308   \toks@{%
4309     \setbox\z@\hbox{%
4310       \special{%
4311         pdf:image width 50pt height 50pt (#1)%
4312       }
4313     }%
4314     \dp\z@\z@
4315     \ht\z@=50pt
4316     \wd\z@=50pt
4317     \beginL
4318       \lower20pt\box\z@
4319     \endL
4320   }%
4321   \the\toks@
4322 }
4323 \newcount\bidi@typesethour
4324 \newcount\bidi@typesetminute
4325 \bidi@typesethour=\time
4326 \divide\bidi@typesethour 60
4327 \bidi@typesetminute=-\bidi@typesethour
4328 \multiply\bidi@typesetminute 60
4329 \advance\bidi@typesetminute \time
4330 \newcommand*{\TypesetHour}{\two@digits\bidi@typesethour}
4331 \newcommand*{\TypesetMinute}{\two@digits\bidi@typesetminute}
4332 \newcommand*{\TypesetTime}{\TypesetHour:\TypesetMinute}
4333 \newcommand*{\@bidi@logo@}{%
4334   \@bidi@logo@hb@xt@columnwidth
4335   {\hss\LRE{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4336     package\quad\@bidi@logo{bidi-logo.pdf}}}}
4337 \ExplSyntaxOn
4338 \keys_define:nn { bidi / pdfencrypt }
4339 {
4340   userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4341   userpassword .default:n =
4342 }
4343 \keys_define:nn { bidi / pdfencrypt }
4344 {
4345   ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4346   ownerpassword .default:n =
4347 }
4348 \keys_define:nn { bidi / pdfencrypt }

```




```

4349 {
4350     keylength .code:n = \def\bidipdfencrypt@keylength{#1} ,
4351     keylength .default:n = 128
4352 }
4353 \keys_define:nn { bidi / pdfencrypt }
4354 {
4355     permissionflags .code:n = \def\bidipdfencrypt@permissionflags{#1} ,
4356     permissionflags .default:n = 2052
4357 }
4358 \NewDocumentCommand \pdfencryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }
4359 \ExplSyntaxOff
4360 \onlypreamble\pdfencryptsetup
4361 \input{latex-xetex-bidi.def}
4362
4363 \pdfencryptsetup{%
4364     userpassword,%
4365     ownerpassword,%
4366     keylength,%
4367     permissionflags%
4368 }
4369
4370 \if@extrafootnotefeatures
4371     \input{extrafootnotefeatures-xetex-bidi.def}
4372 \fi
4373 \newcount\bidi@digits
4374 \XeTeXinterchartokenstate=\@ne
4375 \newXeTeXintercharclass\bidi@digits@charclass
4376 \newXeTeXintercharclass\bidi@sepmark@charclass
4377 \XeTeXcharclass \. \bidi@sepmark@charclass
4378 \XeTeXcharclass \- \bidi@sepmark@charclass
4379 \bidi@digits=\0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4380 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4381 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4382 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
4383 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4384 \bidi@AtEndPreamble{%
4385     \if@bidi@perpage@footnote
4386         \RequirePackage{bidi-perpage}%
4387         \ResetCounterPerPage{footnote}%
4388     \fi
4389     \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
4390         \ifx\bidi@pdfencrypt@userpassword\bidi@empty
4391             \@bidi@pdfencryptfalse
4392         \else
4393             \@bidi@pdfencrypttrue
4394         \fi
4395     \else
4396         \@bidi@pdfencrypttrue
4397     \fi
4398     \if@bidi@pdfencrypt
4399         \special{pdf:encrypt
4400             userpw (\bidi@pdfencrypt@userpassword)
4401             ownerpw (\bidi@pdfencrypt@ownerpassword)
4402             length \bidi@pdfencrypt@keylength

```



```

4403     perm \bidi@pdfencrypt@permissionflags
4404 }%
4405 \fi
4406 }
4407 \if@bidi@pdfbanner
4408 \if@bidi@pdfm@mark
4409 \AtEndDocument{%
4410 \special{pdf:%
4411 docinfo<<%
4412 /Creator(\@bidi@pdfcreator)%
4413 /Producer(\@bidi@pdfproducer)%
4414 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4415 \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4416 /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4417 }{}%
4418 >>%
4419 }%
4420 }
4421 \else
4422 \AtEndDocument{%
4423 \special{pdf:%
4424 docinfo<<%
4425 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4426 \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4427 /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4428 }{}%
4429 >>%
4430 }%
4431 }
4432 \fi
4433 \else
4434 \if@bidi@pdfm@mark
4435 \AtEndDocument{%
4436 \special{pdf:%
4437 docinfo<<%
4438 /Creator(\@bidi@pdfcreator)%
4439 /Producer(\@bidi@pdfproducer)%
4440 >>%
4441 }%
4442 }
4443 \fi
4444 \fi

```

46 File bidi.tex

```

4445 \def\bidi@date{2025/12/06}
4446 \catcode`\@=11
4447 \def\bidi@version{25.12.06}
4448 \def\bidi@releasename{Iran}
4449 \def\bidi@releasename{\bidi@releasename}
4450 \let \protect \relax
4451 \newlinechar`\^^J
4452 \edef\@bidi@info{*****~^J%
4453 * ~^J%

```



```

4454 * bidi package (Bidirectional typesetting with^^J%
4455 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)^^J%
4456 * ^^J%
4457 * Description: A convenient interface for^^J%
4458 * typesetting bidirectional texts in plain TeX^^J%
4459 * and LaTeX. The package includes adaptations^^J%
4460 * for use with many other commonly-used packages.^^J%
4461 * ^^J%
4462 * Copyright (c) 2007--2026 Vafa Khalighi^^J%
4463 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4464 * ^^J%
4465 * v\bidi@version\space (Release \bidi@releasename), \bididate^^J%
4466 * ^^J%
4467 * License: LaTeX Project Public License, version^^J%
4468 * 1.3c or higher (your choice)^^J%
4469 * ^^J%
4470 * Location on CTAN: /macros/unicodetex/generic/bidi^^J%
4471 * ^^J%
4472 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4473 * ^^J%
4474 * Primary author of bidi package: Vafa Khalighi.^^J%
4475 * ^^J%
4476 *****}
4477 \edef\bidi@everyjob{\the\everyjob}
4478 \message{\@bidi@info}
4479 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4480 \def\bidiversion{%
4481   \relax
4482   \ifmmode
4483     \bidi@version
4484   \else
4485     $\bidi@version$
4486   \fi
4487 }
4488 \input iftex.sty
4489 \RequireXeTeX
4490 \newif\ifbidi@pdfm@mark
4491 \newif\if@RTLmain
4492 \newif\if@RTL
4493 \newif\if@hboxRconstruct
4494 \newif\if@sentedir
4495 \newif\if@RTL@footnote
4496 \@RTLmainfalse
4497 \def\setRTLmain{%
4498   \if@RTLmain\else
4499     \if@RTL\@RTLmaintrue%
4500     \else\@RTLmainfalse%
4501     \fi%
4502   \fi%
4503 }
4504 \let\n@xt=\
4505 \protected\def\LRE{\protect\pLRE}%
4506 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4507 \protected\def\RLE{\protect\pRLE}

```



```

4508 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4509 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4510 \errmessage{Missing left brace has been substituted}\fi \bgroup}
4511 \newinsert\@bidi@copyins@
4512 \skip\@bidi@copyins@=12\p@
4513 \dimen\@bidi@copyins@=40pc
4514 \count\@bidi@copyins@=1000
4515 \def\@bidi@inslogo@{\insert\@bidi@copyins@{\@bidi@logo@}}
4516 \def\@bidi@logo@hb@xt@{%
4517 \if@RTLmain
4518 \hboxR to
4519 \else
4520 \hboxL to
4521 \fi
4522 }
4523 \def\@bidi@logo#1{%
4524 \toks@{%
4525 \setbox\z@\hbox{%
4526 \special{%
4527 pdf:image width 50pt height 50pt (#1)%
4528 }
4529 }%
4530 \dp\z@\z@
4531 \ht\z@=50pt
4532 \wd\z@=50pt
4533 \beginL
4534 \lower20pt\box\z@
4535 \endL
4536 }%
4537 \the\toks@
4538 }
4539 \def\today{\ifcase\month\or
4540 January\or February\or March\or April\or May\or June\or
4541 July\or August\or September\or October\or November\or December\fi
4542 \space\number\day, \number\year}
4543 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4544 \newcount\@bidi@typesethour
4545 \newcount\@bidi@typesetminute
4546 \@bidi@typesethour=\time
4547 \divide\@bidi@typesethour 60
4548 \@bidi@typesetminute=-\@bidi@typesethour
4549 \multiply\@bidi@typesetminute 60
4550 \advance\@bidi@typesetminute \time
4551 \def\TypesetHour{\two@digits\@bidi@typesethour}
4552 \def\TypesetMinute{\two@digits\@bidi@typesetminute}
4553 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4554 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} by
4555 \def\bidilogo{\@bidi@inslogo@}
4556 \def\nobidilogo{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4557 \def\@bidi@pdfcreator{%
4558 The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \bididate
4559 }
4560 \def\@bidi@pdfproducer{%
4561 The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \bididate

```



```

4562 }
4563 \def\@bidi@pdfcustomproperties{%
4564   This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4565   Released December 6, 2025.
4566 }
4567 \def\bidi@pdfm@mark{%
4568   \special{pdf:%
4569     docinfo<<%
4570     \if@bidi@pdfm@mark
4571       /Creator(\@bidi@pdfcreator)%
4572       /Producer(\@bidi@pdfproducer)%
4573     \fi
4574     /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4575     >>%
4576   }%
4577 }
4578 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4579 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4580 \input plain-xetex-bidi.def
4581 \outer\def\bye{\bidi@pdfm@mark\par\vfill\supereject\end}
4582 \catcode\@=12
4583 \bidipdfinfoon

```

47 File bidi2in1.sty

```

4584 \NeedsTeXFormat{LaTeX2e}
4585 \ProvidesPackage{bidi2in1}
4586 \pagestyle{plain}
4587 \newcount\evenpage
4588 \newcount\oddpge
4589 \twocolumn
4590 \def\@oddfoot{\evenpage=\thepage%
4591 \multiply\evenpage by 2%
4592 \oddpge=\the\evenpage%
4593 \advance\oddpge by -1%
4594 \hfil\the\evenpage\hfil\hfil\the\oddpge\hfil}%
4595 \def\@evenfoot{\evenpage=\thepage%
4596 \multiply\evenpage by 2%
4597 \oddpge=\the\evenpage%
4598 \advance\oddpge by -1%
4599 \hfil\the\oddpge\hfil\hfil\the\evenpage\hfil}%
4600 \textwidth 9.49in
4601 \textheight 6.7in
4602 \columnsep 0.9in
4603 \columnseprule 0.125pt
4604 \headheight 0cm
4605 \topmargin 0in
4606 \marginparwidth 0in
4607 \marginparsep 0in
4608 \hoffset 0.05in % Corrected
4609 \voffset -0.5in %top margin space is 1.0in by default
4610 \oddsidemargin 0in
4611 \evensidemargin 0in
4612 \headsep 0cm

```



```

4613 \topskip 0cm
4614 \parskip 0.15in %
4615 \headsep 0pt
4616 \special{papersize=11.69in,8.26in}
4617 \renewcommand\maketitle{\par
4618 \begingroup
4619 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4620 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4621 \long\def\@makefntext##1{\parindent 1em\noindent
4622 \hb@xt@1.8em{%
4623 \hss\@textsuperscript{\normalfont\@thefnmark}}\##1}%
4624 \@maketitle
4625 \@thanks
4626 \endgroup
4627 \setcounter{footnote}{0}%
4628 \global\let\thanks\relax
4629 \global\let\maketitle\relax
4630 \global\let\@maketitle\relax
4631 \global\let\@thanks\@empty
4632 \global\let\@author\@empty
4633 \global\let\@date\@empty
4634 \global\let\@title\@empty
4635 \global\let\title\relax
4636 \global\let\author\relax
4637 \global\let\date\relax
4638 \global\let\and\relax
4639 }

```

48 File bidicode.sty

```

4640 \NeedsTeXFormat{LaTeX2e}
4641 \ProvidesPackage{bidicode}
4642 \RequirePackage{xcolor}
4643 \RequirePackage{showexpl}
4644 \definecolor{hellgelb}{rgb}{1,1,0.85}
4645 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4646 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4647 \definecolor{colIdentifier}{rgb}{0,0,0}
4648 \definecolor{colComments}{rgb}{1,0,0}
4649 \definecolor{colString}{rgb}{0,0.5,0}
4650 \lstset{%
4651     language=[LaTeX]TeX,%
4652     float=hbp,%
4653     basicstyle=\ttfamily\small,%
4654     identifierstyle=\color{colIdentifier},%
4655     keywordstyle=\color{colKeys},%
4656     texcsstyle=\color{colCS},%
4657     stringstyle=\color{colString},%
4658     commentstyle=\color{colComments},%
4659     backgroundcolor=\color{hellgelb},%
4660     columns=flexible,%
4661     tabsize=4,%
4662     extendedchars=true,%
4663     showspaces=false,%

```



```

4664 showstringspaces=false,%
4665 numbers=left,%
4666 numbersep=0.9em,%
4667 numberstyle=\tiny,%
4668 frame=single,%
4669 captionpos=b,%
4670 xleftmargin=1em,%
4671 breaklines=true,%
4672 breakautoindent=false,%
4673 breakindent=0pt,%
4674 escapeinside=**,%
4675 pos=r,%
4676 explpreset={%
4677     xleftmargin=1em,%
4678     columns=flexible,%
4679     language=[LaTeX]TeX%
4680 },%
4681 moretexcs={%
4682     bididate,%
4683     bidiversion,%
4684     deflatinfont,%
4685     defpersianfont,%
4686     ding,%
4687     endLTR,%
4688     endRTL,%
4689     false,%
4690     falsesymbol,%
4691     junicode,%
4692     lr,%
4693     LR,%
4694     LRE,%
4695     LTR,%
4696     maketitle,%
4697     Nastaliq,%
4698     newfontfamily,%
4699     Parsifont,%
4700     part,%
4701     RL,%
4702     RLE,%
4703     RTL,%
4704     RTLcases,%
4705     SepMark,%
4706     setLR,%
4707     setLTR,%
4708     setRL,%
4709     setRTL,%
4710     settextfont,%
4711     subsection,%
4712     subsubsection,%
4713     tableofcontents,%
4714     text,%
4715     theequation,%
4716     thesection,%
4717     true,%

```



```

4718      truesymbol,%
4719      XePersian,%
4720      xepersiandate,%
4721      xepersianversion%
4722  }%
4723 }
4724 \newcommand\HLON{%
4725   \gdef\lst@alloverstyle##1{%
4726     \fboxrule=Opt
4727     \fboxsep=Opt
4728     \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4729   }}
4730 \newcommand\HLOFF{%
4731   \xdef\lst@alloverstyle##1{##1}%
4732 }
4733 \newcommand\Larg [1]{\normalfont\itshape#1\big}
4734 \newcommand\Larga[1]{\normalfont\itshape#1\big\angle}
4735 \newcommand\Largb[1]{\normalfont\itshape#1\big\lrcorner}
4736 \newcommand\Largs[1]{\normalfont\itshape#1\big\lbrack}
4737 \newcommand\Largr[1]{\normalfont\itshape#1\big\rbrack}
4738 \newcommand\LBEG[1]{\normalfont\itshape#1\big\lrcorner}
4739 \newcommand\LEND[1]{\normalfont\itshape#1\big\rbrack}
4740
4741 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4742 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`{}}
4743 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`}}
4744 \DeclareRobustCommand\lsb{\normalfont\ttfamily\lbrack}
4745 \DeclareRobustCommand\rsb{\normalfont\ttfamily\rbrack}
4746 \DeclareRobustCommand\lrb{\normalfont\ttfamily\lbrack}
4747 \DeclareRobustCommand\rrb{\normalfont\ttfamily\rbrack}
4748
4749 \def\Lcs#1{\nxLcs{#1}}
4750 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4751 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4752
4753 \def\Coordx#1{\$x_{#1}}
4754 \def\Coordy#1{\$y_{#1}}
4755 \def\Coordz#1{\$z_{#1}}
4756 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4757 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4758 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4759 \def\CAny{\Coordx{}}
4760 \def\CIIIAny{\Coordx{}}
4761 \def\coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4762 \def\coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4763 \def\coordiii#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4764 \def\coordx#1{\$x_{#1}}
4765 \def\coordy#1{\$y_{#1}}
4766 \def\coordz#1{\$z_{#1}}
4767 \def\cAny{\Coordx{}}
4768 \def\ciiiiAny{\Coordx{}}
4769
4770 \newsavebox{\boxdef}
4771 \newenvironment{BDef}

```




```

4772 {\begin{lrbox}\boxdef
4773      \def\arraystretch{1.0}
4774      \begin{tabular}{@{}l@{}l@{}l@{}}
4775   }
4776 {\end{tabular}\end{lrbox}
4777
4778 {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4779 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4780 }
4781
4782 \newenvironment{BDef*}
4783 {\begin{lrbox}\boxdef
4784      \def\arraystretch{1.0}
4785      \begin{tabular}{@{}l@{}l@{}l@{}}
4786   }
4787 {\end{tabular}\end{lrbox}
4788 {\begin{BCmd*}\fbbox{\usebox\boxdef}\end{BCmd*}}
4789 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4790 }
4791 \newenvironment{BCmd*}{
4792   \@beginparpenalty-\@lowpenalty
4793   \topsep\BDefaboveskip
4794   \fbboxsep3pt
4795   \flushleft}
4796 {\@endparpenalty\@M
4797   \topsepadd\BDefbelowskip
4798   \endflushleft}
4799
4800 \newenvironment{BCmd*}{
4801   \@beginparpenalty\@M
4802   \topsep\BDefinlineskip
4803   \fbboxsep3pt
4804   \flushleft}
4805 {\@endparpenalty5000
4806   \endflushleft}
4807
4808 \newskip\BDefaboveskip
4809 \newskip\BDefbelowskip
4810 \newskip\BDefinlineskip
4811 \setlength\BDefaboveskip{10pt plus 4pt}
4812 \setlength\BDefbelowskip{6pt}
4813 \setlength\BDefinlineskip{6pt}
4814
4815 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4816 \def\OptArg{\@ifnextchar*\OptArgi{\OptArgii*}}
4817 \def\OptArgi*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4818 \def\OptArgii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

49 File bidiftnxtra.sty

```

4819 \NeedsTeXFormat{LaTeX2e}
4820 \ProvidesPackage{bidiftnxtra}
4821 \newtoks\bidip@ftn
4822 \let\FN@sffootnote\footnote

```



```

4823 \let\FN@sff@LTRfootnote\LTRfootnote
4824 \let\FN@sff@RTLfootnote\RTLfootnote
4825 \def\footnote{\ifx\protect\@typeset@protect
4826   \expandafter\FN@sff@footnote
4827   \else
4828     \expandafter\FN@sff@gobble@opt
4829   \fi
4830 }
4831 \def\LTRfootnote{\ifx\protect\@typeset@protect
4832   \expandafter\FN@sff@LTRfootnote
4833   \else
4834     \expandafter\FN@sff@gobble@opt
4835   \fi
4836 }
4837 \def\RTLfootnote{\ifx\protect\@typeset@protect
4838   \expandafter\FN@sff@RTLfootnote
4839   \else
4840     \expandafter\FN@sff@gobble@opt
4841   \fi
4842 }
4843 \edef\FN@sff@gobble@opt{\noexpand\protect
4844   \expandafter\noexpand\csname FN@sff@gobble@opt \endcsname}
4845 \expandafter\def\csname FN@sff@gobble@opt \endcsname{%
4846   \@ifnextchar[%]
4847     \FN@sff@gobble@twobracket
4848     \@gobble
4849 }
4850 \def\FN@sff@gobble@twobracket[#1]#2{}
4851 \let\FN@sff@footnotemark\footnotemark
4852 \def\footnotemark{\ifx\protect\@typeset@protect
4853   \expandafter\FN@sff@footnotemark
4854   \else
4855     \expandafter\FN@sff@gobble@optonly
4856   \fi
4857 }
4858 \edef\FN@sff@gobble@optonly{\noexpand\protect
4859   \expandafter\noexpand\csname FN@sff@gobble@optonly \endcsname}
4860 \expandafter\def\csname FN@sff@gobble@optonly \endcsname{%
4861   \@ifnextchar[%]
4862     \FN@sff@gobble@bracket
4863     {}%
4864 }
4865 \def\FN@sff@gobble@bracket[#1]{}
4866 \def\@tabular{%
4867   \leavevmode \hbox \bgroup
4868   \let\@footnotetext\@p@ftntext
4869   \let\@LTRfootnotetext\@p@LTRftntext
4870   \let\@RTLfootnotetext\@p@RTLftntext
4871   \let\@xfootnotenext\@p@xftntext
4872   \let\@xfootnote\@p@xfootnote
4873   \let\@xLTRfootnotenext\@p@xLTRftntext
4874   \let\@xLTRfootnote\@p@xLTRfootnote
4875   \let\@xRTLfootnotenext\@p@xRTLftntext
4876   \let\@xRTLfootnote\@p@xRTLfootnote

```



```

4877 \if@RTLtab\beginR \fi
4878 $\let\@acol\@tabacol
4879 \let\@classz\@tabclassz
4880 \let\@classiv\@tabclassiv \let\@tabularcr\@tabarray}
4881 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
4882 \egroup $\if@RTLtab\endR\fi\egroup
4883 \ifx\@capytype\@undefined
4884 \global\bidip@p@ftn\expandafter{\expandafter}\the\bidip@p@ftn\fi}
4885 \long\def\bidip@p@ftntext#1{%
4886 \edef\@tempy{\the\bidip@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}%
4887 \global\bidip@p@ftn\expandafter{\@tempy{#1}}}%
4888 \long\def\bidip@p@LTRftntext#1{%
4889 \edef\@tempyi{\the\bidip@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}%
4890 \global\bidip@p@ftn\expandafter{\@tempyi{#1}}}%
4891 \long\def\bidip@p@RTLftntext#1{%
4892 \edef\@tempyii{\the\bidip@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}%
4893 \global\bidip@p@ftn\expandafter{\@tempyii{#1}}}%
4894
4895
4896 \long\def\bidip@p@xftntext[#1]#2{%
4897 \global\bidip@p@ftn\expandafter{\the\bidip@p@ftn\footnotetext[#1]{#2}}}
4898
4899 \long\def\bidip@p@xLTRftntext[#1]#2{%
4900 \global\bidip@p@ftn\expandafter{\the\bidip@p@ftn\LTRfootnotetext[#1]{#2}}}
4901
4902 \long\def\bidip@p@xRTLftntext[#1]#2{%
4903 \global\bidip@p@ftn\expandafter{\the\bidip@p@ftn\RTLfootnotetext[#1]{#2}}}
4904
4905
4906 \def\bidip@p@xfootnote[#1]{%
4907 \begingroup
4908 \csname c@\mpfn\endcsname #1\relax
4909 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4910 \endgroup
4911 \@footnotemark\bidip@p@xftntext[#1]}
4912
4913
4914 \def\bidip@p@xLTRfootnote[#1]{%
4915 \begingroup
4916 \csname c@\mpfn\endcsname #1\relax
4917 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4918 \endgroup
4919 \@footnotemark\bidip@p@xLTRftntext[#1]}
4920
4921
4922 \def\bidip@p@xRTLfootnote[#1]{%
4923 \begingroup
4924 \csname c@\mpfn\endcsname #1\relax
4925 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4926 \endgroup
4927 \@footnotemark\bidip@p@xRTLftntext[#1]}
4928
4929 \def\@xfloat #1[#2]{%
4930 \nodocument

```



```

4931 \def \@capttype {#1}%
4932 \def \@fps {#2}%
4933 \@onelevel@sanitize \@fps
4934 \def \reserved@a {!}%
4935 \ifx \reserved@a \fps
4936   \@fpsadddefault
4937 \else
4938   \ifx \@fps \@empty
4939     \@fpsadddefault
4940   \fi
4941 \fi
4942 \ifhmode
4943   \@bsphack
4944   \@floatpenalty -\@Mii
4945 \else
4946   \@floatpenalty-\@Miii
4947 \fi
4948 \ifinner
4949   \@parmoderr\@floatpenalty\z@
4950 \else
4951   \@next\@currbox\@freelist
4952   {%
4953     \@tempcnta \sixt@@n
4954     \expandafter \@tfor \expandafter \reserved@a
4955       \expandafter :\expandafter =\@fps
4956     \do
4957     {%
4958       \if \reserved@a h%
4959         \ifodd \@tempcnta
4960         \else
4961           \advance \@tempcnta \@ne
4962         \fi
4963       \fi
4964       \if \reserved@a t%
4965         \@setfpsbit \tw@
4966       \fi
4967       \if \reserved@a b%
4968         \@setfpsbit 4%
4969       \fi
4970       \if \reserved@a p%
4971         \@setfpsbit 8%
4972       \fi
4973       \if \reserved@a !%
4974         \ifnum \@tempcnta>15
4975           \advance\@tempcnta -\sixt@@n\relax
4976         \fi
4977       \fi
4978     }%
4979     \@tempcntb \csname ftype@\@capttype \endcsname
4980     \multiply \@tempcntb \xxxii
4981     \advance \@tempcnta \@tempcntb
4982     \global \count\@currbox \@tempcnta
4983   }%
4984   \@fltovf

```



```

4985 \fi
4986 \global \setbox\@currbox
4987 \color@vbox
4988 \normalcolor
4989 \vbox \bgroup
4990 \let\@footnotetext\@bidi@p@ftntext
4991 \let\@LTRfootnotetext\@bidi@p@LTRftntext
4992 \let\@RTLfootnotetext\@bidi@p@RTLftntext
4993 \let\@xfootnotenext\@bidi@p@xftntext
4994 \let\@xfootnote\@bidi@p@xfootnote
4995 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4996 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4997 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4998 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4999 \hsize\columnwidth
5000 \@parboxrestore
5001 \@floatboxreset
5002 }
5003 \def \@endfloatbox{%
5004 \par\vskip\z@skip %% \par\vskip\z@ added 15 Dec 87
5005 \@minipagefalse
5006 \outer@nobreak
5007 \egroup %% end of vbox
5008 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn
5009 \color@endbox
5010 }

```

50 File bidimoderncv.cls

```

5011 \NeedsTeXFormat{LaTeX2e}
5012 \ProvidesClass{bidimoderncv}
5013 \newif\if@DEBUG\@DEBUGfalse
5014 \DeclareOption{a4paper}{
5015 \setlength\paperheight{297mm}
5016 \setlength\paperwidth{210mm}}
5017 \DeclareOption{a5paper}{
5018 \setlength\paperheight{210mm}
5019 \setlength\paperwidth{148mm}}
5020 \DeclareOption{b5paper}{
5021 \setlength\paperheight{250mm}
5022 \setlength\paperwidth{176mm}}
5023 \DeclareOption{letterpaper}{
5024 \setlength\paperheight{11in}
5025 \setlength\paperwidth{8.5in}}
5026 \DeclareOption{legalpaper}{
5027 \setlength\paperheight{14in}
5028 \setlength\paperwidth{8.5in}}
5029 \DeclareOption{executivepaper}{
5030 \setlength\paperheight{10.5in}
5031 \setlength\paperwidth{7.25in}}
5032 \DeclareOption{landscape}{
5033 \setlength\@tempdima{\paperheight}
5034 \setlength\paperheight{\paperwidth}
5035 \setlength\paperwidth{\@tempdima}}

```



```

5036 \newcommand\@ptsize{}
5037 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
5038 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5039 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
5040 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5041 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5042 \newif\if@colour\@colourtrue
5043 \DeclareOption{nocolour}{\@colourfalse}
5044 \ExecuteOptions{a4paper,11pt,colour,final}
5045 \ProcessOptions\relax
5046 \input{size1\@ptsize.clo}
5047 \RequirePackage{color}
5048 \RequirePackage{graphicx}
5049 \RequirePackage{ifthen}
5050 \RequirePackage{marvosym}
5051 \addtolength{\oddsidemargin}{-54pt}
5052 \addtolength{\textwidth}{109pt}
5053 \addtolength{\topmargin}{-70pt}
5054 \addtolength{\textheight}{122pt}
5055 \addtolength{\marginparsep}{-5pt}
5056 \addtolength{\marginparwidth}{-10pt}
5057 \RequirePackage{url}
5058 \RequirePackage{hyperref}
5059 \hypersetup{%
5060   breaklinks,
5061   baseurl      = http://,%
5062   pdfborder    = 0 0 0,%
5063   pdfpagemode  = UseNone,%
5064   pdfstartpage = 1}
5065 \AtEndOfClass{%
5066   \AtBeginDocument{%
5067     \hypersetup{%
5068       pdfauthor      = \@firstname~\@familyname,%
5069       pdftitle       = \@title,%
5070       pdfsubject     = \@firstname~\@familyname,%
5071       pdfkeywords    = \@resumename~\@firstname~\@familyname}}}
5072 \urlstyle{tt}
5073 \RequirePackage{fancyhdr}
5074 \fancypagestyle{plain}{%
5075   \renewcommand{\headrulewidth}{0pt}
5076   \renewcommand{\footrulewidth}{0pt}
5077   \fancyhf{}}
5078 \pagestyle{plain}
5079 \setlength\lineskip{1\p@}
5080 \setlength\normallineskip{1\p@}
5081 \renewcommand\baselinestretch{}
5082 \setlength{\parindent}{0pt}
5083 \setlength{\parskip}{0pt}
5084 \setlength\columnsep{10\p@}
5085 \setlength\columnseprule{0\p@}
5086 \pagestyle{empty}
5087 \pagenumbering{arabic}
5088 \raggedbottom
5089 \onecolumn

```



```

5090 \providecommand*{\listitemsymbol}{\textbullet}
5091 \providecommand*{\addresssymbol}{}
5092 \providecommand*{\mobilesymbol}{\Mobilefone}
5093 \providecommand*{\phonesymbol}{\Telefon}
5094 \providecommand*{\faxsymbol}{\FAX}
5095 \providecommand*{\emailsymbol}{\Letter}
5096 \definecolor{firstnamecolor}{rgb}{0,0,0}
5097 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
5098 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
5099 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
5100 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5101 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5102 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5103 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5104 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5105 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5106 \providecommand*{\firstnamefont}{}
5107 \providecommand*{\familynamefont}{}
5108 \providecommand*{\titlefont}{}
5109 \providecommand*{\addressfont}{}
5110 \providecommand*{\quoteftfont}{}
5111 \providecommand*{\sectionfont}{}
5112 \providecommand*{\subsectionfont}{}
5113 \providecommand*{\hintfont}{\small}
5114 \providecommand*{\firstnamestyle}[1]{\{\@firstnamefont\@firstnamecolour#1}}
5115 \providecommand*{\familynamestyle}[1]{\{\@familynamefont\@familynamecolour#1}}
5116 \providecommand*{\titlestyle}[1]{\{\@titlefont\@titlecolour#1}}
5117 \providecommand*{\addresstyle}[1]{\{\@addressfont\@addresscolour#1}}
5118 \providecommand*{\quotestyle}[1]{\{\@quoteftfont\@quotecolour#1}}
5119 \providecommand*{\sectionstyle}[1]{\{\@sectionfont\@sectiontitlecolour#1}}
5120 \providecommand*{\subsectionstyle}[1]{\{\@subsectionfont\@subsectioncolour#1}}
5121 \providecommand*{\hintstyle}[1]{\{\@hintfont\@hintcolour#1}}
5122 \newcommand*{\cvtheme}[2]{}
5123 \def\@cvtheme{#2}
5124 \def\@cvthemeoptions{#1}
5125 \cvtheme{bidi-casual}
5126 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5127 \newcommand*{\resumename}[1]{\def\@resumename{#1}}
5128 \newcommand*{\firstname}[1]{\def\@firstname{#1}}
5129 \newcommand*{\familyname}[1]{\def\@familyname{#1}}
5130 \renewcommand*{\title}[1]{\def\@title{#1}}
5131 \newcommand*{\address}[1]{\def\@address{#1}}
5132 \newcommand*{\mobile}[1]{\def\@mobile{#1}}
5133 \newcommand*{\phone}[1]{\def\@phone{#1}}
5134 \renewcommand*{\fax}[1]{\def\@fax{#1}}
5135 \newcommand*{\email}[1]{\def\@email{#1}}
5136 \newcommand*{\extrainfo}[1]{\def\@extrainfo{#1}}
5137 \def\@photowidth{0pt}
5138 \newcommand*{\photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5139 \newcommand*{\quote}[1]{\def\@quote{#1}}
5140 \newlength{\quotewidth}
5141 \newlength{\hintscolumnwidth}
5142 \newlength{\separatorcolumnwidth}
5143 \setlength{\separatorcolumnwidth}{0.025\textwidth}

```



```

5144 \newlength{\maincolumnwidth}
5145 \newlength{\doubleitemmaincolumnwidth}
5146 \newlength{\listitemsymbolwidth}
5147 \settowidth{\listitemsymbolwidth}{\listitemsymbol{}}~}
5148 \newlength{\listitemmaincolumnwidth}
5149 \newlength{\listdoubleitemmaincolumnwidth}
5150 \newcommand*{\recomputethemelengths}{%
5151 \newcommand*{\recomputelengths}{%
5152 \setlength{\quotewidth}{0.65\textwidth}%
5153 \setlength{\maincolumnwidth}{\textwidth}%
5154 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5155 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5156 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5157 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5158 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5159 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5160 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5161 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5162 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5163 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5164 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5165 \renewcommand{\headwidth}{\textwidth}%
5166 \recomputethemelengths}
5167 \setlength{\hintscolumnwidth}{0.15\textwidth}
5168 \recomputelengths
5169 \title{}
5170 \renewcommand*{\maketitle}{}
5171 \newcommand*{\section}[1]{%
5172 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5173 \phantomsection}%
5174 \addcontentsline{toc}{part}{#1}%
5175 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5176 \hspace{\separatorcolumnwidth}%
5177 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\[\[1ex]}
5178 \newcommand*{\subsection}[1]{%
5179 \cvline[0.45em]{\subsectionstyle{#1}}%
5180 \newcommand*{\cvline}[3][.25em]{%
5181 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5182 \bidi@raggedleft\hintfont{#2} &{#3}%
5183 \end{tabular}\[\[#1]}
5184 \newcommand*{\cvdoubleitem}[4]{%
5185 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5186 \hfill%
5187 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\
5188 \newcommand*{\cvlistitem}[2][\listitemsymbol]{%
5189 \cvline[0pt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}%
5190 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol]{%
5191 \cvline[0pt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5192 \hfill%
5193 \ifthenelse{\equal{#3}{}}%
5194 {}%
5195 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}%
5196 \newcommand*{\cventry}[6]{%
5197 \cvline{#1}{%

```




```

5198     {\bfseries#2}%
5199     \ifx#3\else{, {\slshape#3}}\fi%
5200     \ifx#4\else{, #4}\fi%
5201     \ifx#5\else{, #5}\fi%
5202     .%
5203     \ifx#6\else{\newline{}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5204     }}%
5205 \newcommand*{\cvlanguage}[3]{%
5206   \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.775\maincolumnwidth}\textbf{#3}\end{minipage}}
5207 \newcommand*{\cvcomputer}[4]{%
5208   \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5209 \newcommand*{\link}[2][{}]{%
5210   \ifthenelse{\equal{#1}{}}{%
5211     {\href{#2}{#2}}%
5212     {\href{#2}{#1}}}
5213 \newcommand*{\httplink}[2][{}]{%
5214   \ifthenelse{\equal{#1}{}}{%
5215     {\href{http://#2}{#2}}%
5216     {\href{http://#2}{#1}}}
5217 \newcommand*{\emailink}[2][{}]{%
5218   \ifthenelse{\equal{#1}{}}{%
5219     {\href{mailto:#2}{#2}}%
5220     {\href{mailto:#2}{#1}}}
5221 \newif\if@displaypagenumbers\@displaypagenumberstrue
5222 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5223 \AtBeginDocument{%
5224   \if@displaypagenumbers%
5225     \ifundefined{r@lastpage}{\@displaypagenumbersfalse}%
5226     \ifthenelse{\pageref{lastpage} > 1}{%
5227       \fancypagestyle{plain}{%
5228         \fancyfoot[R]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL\endL\pageref{lastpage}}%
5229       \pagestyle{plain}}}%
5230   \AtEndDocument{\label{lastpage}}%
5231   \fi}
5232 \newlength{\bibindent}
5233 \setlength{\bibindent}{1.5em}
5234 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5235 \newenvironment{thebibliography}[1]{%
5236   {%
5237     \section{\refname}%
5238     \small%
5239     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5240     \bidi@thebibliography@font@hook%
5241     \begin{list}{\bibliographyitemlabel}%
5242       {%
5243         \setlength{\topsep}{0pt}%
5244         \setlength{\labelwidth}{\hintscolumnwidth}%
5245         \setlength{\labelsep}{\separatorcolumnwidth}%
5246         \leftmargin\labelwidth%
5247         \advance\leftmargin\labelsep%
5248         \@openbib@code%
5249         \usecounter{enumiv}%
5250         \let\p@enumiv\@empty%
5251         \renewcommand\theenumiv{\@arabic\c@enumiv}}%

```



```

5252      \sloppy\clubpenalty4000\widowpenalty4000%
5253    }%
5254    {%
5255      \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5256      \end{list}%
5257    }
5258    \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5259    \let\@openbib@code\@empty

```

51 File bidi-perpage.sty

```

5260 \NeedsTeXFormat{LaTeX2e}
5261 \ProvidesPackage{bidi-perpage}[2025/09/15 v0.5 Reset counter(s) on every page]
5262 \newcommand*{\bidi@checkvlist}{%
5263   \ifcase
5264     \ifvmode
5265       \ifx\lastnodetype\bidi@undefined
5266         \ifdim-\@m\p@=\prevdepth
5267           \ifdim\lastskip=\z@
5268             \ifnum\lastpenalty=\z@
5269               \@ne
5270             \fi
5271           \fi
5272         \fi
5273       \else
5274         \ifnum\lastnodetype=\m@ne
5275           \@ne
5276         \fi
5277       \fi
5278     \fi
5279     \z@
5280   \or
5281     \PackageWarning{bidi-perpage}{%
5282       `string\stepcounter' is probably at the beginning of vertical
5283       list.
5284       You may need to use `string\leavevmode' before it to avoid
5285       vertical shifts%
5286     }%
5287   \fi
5288 }
5289 \newcount\bidi@page@count
5290 \bidi@page@count\@ne
5291 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
5292   \if@bidi@csundef\bidi@stepcounterhook@@#2}{%
5293     \expandafter\gdef\csname bidi@stepcounterhook@@#2\endcsname{}%
5294   }{%
5295     \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
5296       \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5297     }{%
5298       \if@bidi@csundef\bidi@#2@count}{%
5299         \expandafter\newcount\csname bidi@#2@count\endcsname
5300       }{%
5301         \csname bidi@#2@count\endcsname\z@
5302       \if@bidi@csundef\bidi@previous@page@@#2@count}{%

```



```

5303 \expandafter\newcount\csname
5304 bidi@previous@page@@#2@count\endcsname
5305 }{}%
5306 \csname bidi@previous@page@@#2@count\endcsname\z@
5307 \if@bidi@csundef{bidi@reset@#2@perpage}{%
5308 \bidi@AfterEndDocumentCheckLabelsRerun{%
5309 \csname if@bidi@reset@#2@rerun\endcsname
5310 \PackageWarningNoLine{bidi-perpage}{%
5311 Counter `#2' may not have been reset per page.
5312 Rerun to reset counter `#2' per page%
5313 }%
5314 \fi
5315 }%
5316 }{}%
5317 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5318 \global\advance\csname bidi@#2@count\endcsname\@ne
5319 \if@files@
5320 \edef\@tempa{%
5321 \write\@auxout{%
5322 \string\bidi@counter@page{#2}%
5323 {\number\csname bidi@#2@count\endcsname}%
5324 {\noexpand\number\noexpand\bidi@page@count}%
5325 }%
5326 }%
5327 \bidi@checkvlist
5328 \dimen@=\lastkern
5329 \ifdim\dimen@=\z@
5330 \else
5331 \unkern
5332 \fi
5333 \count@=\lastpenalty
5334 \@tempa
5335 \ifdim\dimen@=\z@
5336 \penalty
5337 \ifnum\count@<\@M
5338 \@M
5339 \else
5340 \count@
5341 \fi
5342 \else
5343 \kern\dimen@
5344 \fi
5345 \fi
5346 \begingroup\expandafter\expandafter\expandafter\endgroup
5347 \expandafter\ifx\csname bidi@#2@@\number\csname
5348 bidi@#2@count\endcsname\endcsname\relax
5349 \global\csname @bidi@reset@#2@reruntrue\endcsname
5350 \else
5351 \global\csname @bidi@reset@#2@rerunfalse\endcsname
5352 \expandafter\@tempcnta\csname bidi@#2@@\number
5353 \csname bidi@#2@count\endcsname\endcsname\relax
5354 \ifnum\@tempcnta=\csname
5355 bidi@previous@page@@#2@count\endcsname
5356 \else

```



```

5357 \global\csname
5358 bidi@previous@page@@#2@count\endcsname\@tempcnta
5359 \global\csname c@#2\endcsname#1\relax
5360 \fi
5361 \fi
5362 }%
5363 \expandafter\@bidi@gappto\csname
5364 bidi@stepcounterhook@@#2\endcsname{%
5365 \csname bidi@reset@#2@perpage\endcsname
5366 }%
5367 }
5368 \def\@bidi@counter@page#1#2#3{\@bidi@namegdef{\bidi@#1@@#2}{#3}}
5369 \bidi@AtEndOutputPage{%
5370 \global\advance\@bidi@page@count\@ne
5371 }

```

52 File biditools.sty

```

5372 \NeedsTeXFormat{LaTeX2e}
5373 \ProvidesPackage{biditools}[2025/12/06 v2.8 Programming tools for bidi package]
5374 \providecommand{\@bidi@saveprimitive}[2]{\@begingroup\escapechar`\relax
5375 \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5376 \ifx\@tempa\@tempb \global\let#2#1%
5377 \else
5378 \edef\@tempb{\meaning#2}%
5379 \ifx\@tempa\@tempb
5380 \else
5381 \latexerror{Unable to properly define \string#2; primitive
5382 \noexpand#1no longer primitive}\@eha
5383 \fi
5384 \fi
5385 \endgroup}
5386 \newtoks\@bidi@envbody
5387 \newtoks\@bidi@emptytoks
5388 \def\@bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5389 \def\@bidi@collect@body#1{%
5390 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5391 \edef\@bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%
5392 \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5393 \begingroup
5394 \expandafter\let\csname\@currenvir\endcsname\bidi@collect@@body
5395 \edef\@bidi@process@envbody{\expandafter\noexpand\csname\@currenvir\endcsname}%
5396 \bidi@process@envbody
5397 }
5398 \def\@bidi@push@begins#1\begin#2{%
5399 \ifx\end#2\else b\expandafter\@bidi@push@begins\fi
5400 }
5401 \def\@bidi@collect@@body#1\end#2{%
5402 \edef\begin@bidi@stack{\@bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack
5403 \ifx\@empty\begin@bidi@stack
5404 \endgroup
5405 \@checkend{#2}%
5406 \bidi@addto@envbody{#1}%
5407 \else

```



```

5408 \bidi@addto@envbody{#1\end{#2}}%
5409 \fi
5410 \bidi@process@envbody % A little tricky! Note the grouping
5411 }
5412 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}%
5413 \long\def\bidi@collect@long@body#1{%
5414 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5415 \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5416 \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5417 \begingroup
5418 \expandafter\let\csname\@currentvir\endcsname\bidi@collect@long@@body
5419 \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5420 \bidi@process@envbody
5421 }
5422 \long\def\bidi@push@long@begins#1\begin#2{%
5423 \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
5424 }
5425 \long\def\bidi@collect@long@@body#1\end#2{%
5426 \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@
5427 \ifx\@empty\begin@bidi@stack
5428 \endgroup
5429 \@checkend{#2}%
5430 \bidi@addto@long@envbody{#1}%
5431 \else
5432 \bidi@addto@long@envbody{#1\end{#2}}%
5433 \fi
5434 \bidi@process@envbody % A little tricky! Note the grouping
5435 }
5436 \long\def\bidi@new@ifnextchar#1#2#3{%
5437 \let\reserved@d= #1%
5438 \def\reserved@a{#2}\def\reserved@b{#3}%
5439 \futurelet\@let@token\bidi@new@ifnch
5440 }
5441 \def\bidi@new@ifnch{%
5442 \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5443 \reserved@b
5444 }
5445 \def\bidi@matrix@check#1{%
5446 \expandafter\ifx\csname\@currentvir\endcsname#1%
5447 \else\bidi@matrix@error#1%
5448 \expandafter\@gobble
5449 \fi
5450 }
5451 \def\bidi@matrix@error#1{%
5452 \PackageError{biditools}{%
5453 Old form ``\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5454 }{%
5455 ``\string#1{...}' is old bidi package syntax whose use is
5456 ill-advised in the old versions of bidi package.%
5457 }%
5458 }
5459 \def\eqnewif#1#2{%
5460 \count@\escapechar \escapechar\m@ne
5461 \let#1\iffalse

```



```

5462 \let#2\iffalse
5463 \eq@if#1#2\iftrue
5464 \eq@if#1#2\iffalse
5465 \escapechar\count0}
5466 \def\eq@if#1#2#3{%
5467 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5468 \expandafter@gobbletwo\string#3\endcsname
5469 {\let#1#3%
5470 \let#2#3}%
5471 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5472 \expandafter@gobbletwo\string#3\endcsname
5473 {\let#2#3%
5474 \let#1#3}}
5475 \def\noteqnewif#1#2{%
5476 \count0\escapechar \escapechar\m@ne
5477 \let#1\iffalse
5478 \let#2\iffalse
5479 \not@eq@if#1#2\iftrue\iffalse
5480 \escapechar\count0}
5481 \def\not@eq@if#1#2#3#4{%
5482 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5483 \expandafter@gobbletwo\string#3\endcsname
5484 {\let#1#3%
5485 \let#2#4}%
5486 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5487 \expandafter@gobbletwo\string#4\endcsname
5488 {\let#1#4%
5489 \let#2#3}%
5490 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5491 \expandafter@gobbletwo\string#3\endcsname
5492 {\let#2#3%
5493 \let#1#4}%
5494 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5495 \expandafter@gobbletwo\string#4\endcsname
5496 {\let#2#4%
5497 \let#1#3}}
5498 \newcommand*{\SetBoolean}[2]{%
5499 \lowercase{\def\@tempa{#2}}%
5500 \@ifundefined{\@tempswa\@tempa}%
5501 {\PackageError{biditools}%
5502 {You can only set a boolean to `true' or `false'}\@ehc}%
5503 {\@ifundefined{#1\@tempa}%
5504 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5505 {\csname#1\@tempa\endcsname}}}
5506 \newcommand*{\GlobalSetBoolean}[2]{%
5507 \lowercase{\def\@tempa{#2}}%
5508 \@ifundefined{\@tempswa\@tempa}%
5509 {\PackageError{biditools}%
5510 {You can only set a boolean to `true' or `false'}\@ehc}%
5511 {\@ifundefined{#1\@tempa}%
5512 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5513 {\global\csname#1\@tempa\endcsname}}}
5514 \newcommand*{\SetatBoolean}[2]{%
5515 \lowercase{\def\@tempa{#2}}%

```



```

5516 \ifundefined{@tempwa\@tempa}%
5517   {\PackageError{biditools}%
5518     {You can only set a boolean to `true' or `false'}\@ehc}%
5519   {\ifundefined{@#1\@tempa}%
5520     {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5521     {\csname @#1\@tempa\endcsname}}}
5522 \newcommand*{\GlobalSetatBoolean}[2]{%
5523   \lowercase{\def\@tempa{#2}}%
5524   \ifundefined{@tempwa\@tempa}%
5525     {\PackageError{biditools}%
5526       {You can only set a boolean to `true' or `false'}\@ehc}%
5527     {\ifundefined{@#1\@tempa}%
5528       {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5529       {\global\csname @#1\@tempa\endcsname}}}
5530 \def\@bidi@removefromreset#1#2{%
5531   \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5532   \def\@elt##1{%
5533     \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5534     \else
5535       \noexpand\@elt{##1}%
5536     \fi}%
5537   \expandafter\xdef\csname cl@#2\endcsname{%
5538     \csname cl@#2\endcsname}}
5539 \newcommand*{\ifRtoL}{%
5540   \if@RTL
5541     \expandafter\@firstoftwo
5542   \else
5543     \expandafter\@secondoftwo
5544   \fi}
5545 \newcommand*{\ifLtoR}{%
5546   \if@RTL
5547     \expandafter\@secondoftwo
5548   \else
5549     \expandafter\@firstoftwo
5550   \fi}
5551 \newcommand*{\ifRtoLtable}{%
5552   \if@RTLtab
5553     \expandafter\@firstoftwo
5554   \else
5555     \expandafter\@secondoftwo
5556   \fi}
5557 \newcommand*{\ifLtoRtable}{%
5558   \if@RTLtab
5559     \expandafter\@secondoftwo
5560   \else
5561     \expandafter\@firstoftwo
5562   \fi}
5563 \newcommand*{\ifRtoLhboxconstruct}{%
5564   \if@hboxRconstruct
5565     \expandafter\@firstoftwo
5566   \else
5567     \expandafter\@secondoftwo
5568   \fi}
5569 \newcommand*{\ifLtoRhboxconstruct}{%

```



```

5570 \if@hboxRconstruct
5571 \expandafter\@secondoftwo
5572 \else
5573 \expandafter\@firstoftwo
5574 \fi}
5575 \newcommand*{\iflatin}{%
5576 \if@nonlatin
5577 \expandafter\@secondoftwo
5578 \else
5579 \expandafter\@firstoftwo
5580 \fi}
5581 \newcommand*{\ifnonlatin}{%
5582 \if@nonlatin
5583 \expandafter\@firstoftwo
5584 \else
5585 \expandafter\@secondoftwo
5586 \fi}
5587
5588 \newcommand*{\bidi@@convert@dimen@t@unit}[2]{%
5589 \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5590
5591 \newcommand*{\bidi@@convert@dimen@t@pt}[1]{%
5592 \dimexpr #1*65536/\dimexpr 1pt\relax}
5593
5594 \newcommand*{\IfPackageVersionAtLeastTF}[1]{%
5595 \expandafter\@if@ver@pkg@least\csname #1@version\endcsname
5596 }
5597 \newcommand*{\@if@ver@pkg@least}[2]{%
5598 \ifnum\expandafter\bidi@parse@ver@#100\@nil<\expandafter\bidi@parse@ver@#200\@nil
5599 \expandafter\@secondoftwo
5600 \else
5601 \expandafter\@firstoftwo
5602 \fi
5603 }
5604 \newcommand*{\bidi@parse@ver@}[1]{\bidi@parse@ver0#1}
5605 \def\bidi@parse@ver#1.#2.#3#4#5\@nil{%
5606 \if\relax#2\relax\else#1\fi#2#3#4
5607 }
5608 \newcommand*{\IfPackageVersionAtMostTF}[1]{%
5609 \expandafter\@if@ver@pkg@most\csname #1@version\endcsname
5610 }
5611 \newcommand*{\@if@ver@pkg@most}[2]{%
5612 \ifnum\expandafter\bidi@parse@ver@#100\@nil>\expandafter\bidi@parse@ver@#200\@nil
5613 \expandafter\@secondoftwo
5614 \else
5615 \expandafter\@firstoftwo
5616 \fi
5617 }
5618 \newcommand*{\IfPackageVersionTF}[1]{%
5619 \expandafter\@if@ver@pkg@\csname #1@version\endcsname
5620 }
5621 \newcommand*{\@if@ver@pkg@}[2]{%
5622 \ifnum\expandafter\bidi@parse@ver@#100\@nil=\expandafter\bidi@parse@ver@#200\@nil
5623 \expandafter\@firstoftwo

```




```

5624 \else
5625     \expandafter\@secondoftwo
5626 \fi
5627 }
5628
5629 \newcommand*{\if@bidi@csdef}[1]{%
5630     \ifcsname#1\endcsname
5631     \expandafter\@firstoftwo
5632 \else
5633     \expandafter\@secondoftwo
5634 \fi}
5635 \newcommand*{\if@bidi@csundef}[1]{%
5636     \ifcsname#1\endcsname
5637     \expandafter\ifx\csname#1\endcsname\relax
5638     \expandafter\expandafter
5639     \expandafter\@firstoftwo
5640 \else
5641     \expandafter\expandafter
5642     \expandafter\@secondoftwo
5643 \fi
5644 \else
5645     \expandafter\@firstoftwo
5646 \fi}
5647 \newcommand{\if@bidi@def}[1]{%
5648     \ifdefined#1%
5649     \expandafter\@firstoftwo
5650 \else
5651     \expandafter\@secondoftwo
5652 \fi}
5653 \newcommand{\if@bidi@undef}[1]{%
5654     \ifdefined#1%
5655     \ifx#1\relax
5656     \expandafter\expandafter
5657     \expandafter\@firstoftwo
5658 \else
5659     \expandafter\expandafter
5660     \expandafter\@secondoftwo
5661 \fi
5662 \else
5663     \expandafter\@firstoftwo
5664 \fi}
5665 \newcommand{\if@bidi@blank}[1]{% from url.sty
5666     \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5667 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
5668 \newcommand{\bidi@notblank}[1]{%
5669     \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5670 \newcommand{\if@bidi@defmacro}{}
5671 \long\edef\if@bidi@defmacro#1{%
5672     \noexpand\expandafter\noexpand\bidi@ifdefmacro
5673     \noexpand\meaning#1\detokenize{macro}:&}
5674 \edef\bidi@ifdefmacro{%
5675     \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5676 \bidi@ifdefmacro{\bidi@notblank{#2}}
5677 \newcommand*{\if@bidi@csmacro}[1]{%

```



```

5678 \if@bidi@csdef{#1}
5679   {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5680   {\@secondoftwo}}
5681 \newcommand{\if@bidi@defprimitive}[1]{%
5682   \ifprimitive#1
5683     \expandafter\@firstoftwo
5684   \else
5685     \expandafter\@secondoftwo
5686   \fi}
5687 \newcommand{\if@bidi@csprimitive}[1]{%
5688   \begingroup\expandafter\expandafter\expandafter\endgroup%
5689   \expandafter\ifprimitive\csname#1\endcsname%
5690   \expandafter\@firstoftwo
5691   \else
5692     \expandafter\@secondoftwo
5693   \fi}
5694 \newcommand*{\bidi@csdefcs}[2]{%
5695   \expandafter\@ifdefinable \csname#1\endcsname{%
5696     \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5697   \newcommand*{\bidi@csletcs}[2]{%
5698     \expandafter\@ifdefinable \csname#1\endcsname{%
5699       \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
5700   \newcommand*{\bidi@cslet}[2]{%
5701     \expandafter\@ifdefinable \csname#1\endcsname{%
5702       \expandafter\let\csname#1\endcsname#2}}
5703   \newcommand{\bidi@namelongdef}[1]{%
5704     \long\expandafter\def\csname #1\endcsname}
5705   \newcommand{\bidi@namelonggdef}[1]{%
5706     \long\expandafter\gdef\csname #1\endcsname}
5707   \newcommand{\bidi@namelongedef}[1]{%
5708     \long\expandafter\edef\csname #1\endcsname}
5709   \newcommand{\bidi@namelongxdef}[1]{%
5710     \long\expandafter\xdef\csname #1\endcsname}
5711   \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5712   \def\bidi@ensure@new@command#1{%
5713     \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
5714     \expandafter\if@bidi@csundef\@gtempa
5715       {\new@command#1}{\relax%
5716       \let\@ifdefinable\@rc@ifdefinable%
5717       \new@command#1}}
5718   \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
5719
5720 \protected\def\bidi@error{\PackageError{bidi}}
5721 \protected\def\bidi@warning{\PackageWarning{bidi}}
5722 \protected\def\bidi@warningnoline{\PackageWarningNoLine{bidi}}
5723 \protected\def\bidi@info{\PackageInfo{bidi}}
5724
5725 \def\bidi@pos#1#2#3#4{\bidi@namegdef\bidi@#1pos@@#2@#3}{#4}}
5726
5727 \newcount\bidi@poscount
5728
5729 \newcommand*{\WriteStartXPostoaux}{%
5730   \global\advance\bidi@poscount\@ne
5731   \edef\@tempa{%

```



```

5732     \write\@auxout{%
5733         \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5734     }%
5735 }%
5736 \ifvmode
5737     \leavevmode
5738 \fi
5739 \if@RTL
5740     \if@filesw
5741         \@tempa
5742 \fi
5743 \pdfsavepos
5744 \else
5745 \pdfsavepos
5746 \if@filesw
5747     \@tempa
5748 \fi
5749 \fi
5750 \if@bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5751     \PackageWarningNoLine{biditools}{%
5752         The start x position `\'number\bidiposcount' is not known yet.
5753         Rerun to get this x position%
5754     }%
5755 }{}%
5756 }
5757
5758 \newcommand*{\WriteEndXPostoaux}{%
5759     \edef\@tempa{%
5760         \write\@auxout{%
5761             \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5762         }%
5763     }%
5764 \if@RTL
5765     \if@filesw
5766         \@tempa
5767 \fi
5768 \pdfsavepos
5769 \else
5770 \pdfsavepos
5771 \if@filesw
5772     \@tempa
5773 \fi
5774 \fi
5775 \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{%
5776     \PackageWarningNoLine{biditools}{%
5777         The end x position `\'number\bidiposcount' is not known yet.
5778         Rerun to get this x position%
5779     }%
5780 }{}%
5781 }
5782
5783 \newcommand*{\WriteStartYPostoaux}{%
5784     \global\advance\bidiposcount\@ne
5785     \edef\@tempa{%

```



```

5786     \write\@auxout{%
5787         \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdfasty
5788     }%
5789 }%
5790 \ifvmode
5791     \leavevmode
5792 \fi
5793 \if@RTL
5794     \if@filesw
5795         \@tempa
5796 \fi
5797 \pdfsavepos
5798 \else
5799 \pdfsavepos
5800 \if@filesw
5801     \@tempa
5802 \fi
5803 \fi
5804 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5805     \PackageWarningNoLine{biditools}{%
5806         The start y position ` \number\bidiposcount' is not known yet.
5807         Rerun to get this y position%
5808     }%
5809 }{}%
5810 }
5811
5812 \newcommand*{\WriteEndYPostoaux}{%
5813     \edef\@tempa{%
5814         \write\@auxout{%
5815             \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdfasty
5816         }%
5817     }%
5818 \if@RTL
5819     \if@filesw
5820         \@tempa
5821 \fi
5822 \pdfsavepos
5823 \else
5824 \pdfsavepos
5825 \if@filesw
5826     \@tempa
5827 \fi
5828 \fi
5829 \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{%
5830     \PackageWarningNoLine{biditools}{%
5831         The end y position ` \number\bidiposcount' is not known yet.
5832         Rerun to get this y position%
5833     }%
5834 }{}%
5835 }
5836
5837 \newcommand*{\WriteStartXYPostoaux}{%
5838     \global\advance\bidiposcount\@ne
5839     \edef\@tempa{%

```



```

5840     \write\@auxout{%
5841         \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5842     }%
5843     \write\@auxout{%
5844         \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5845     }%
5846 }%
5847 \ifvmode
5848     \leavevmode
5849 \fi
5850 \if@RTL
5851     \if@filesw
5852         \@tempa
5853     \fi
5854     \pdfsavepos
5855     \else
5856     \pdfsavepos
5857     \if@filesw
5858         \@tempa
5859     \fi
5860 \fi
5861 \if@bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5862     \PackageWarningNoLine{biditools}{%
5863         The start x position `\'number\bidiposcount' is not known yet.
5864         Rerun to get this x position%
5865     }%
5866 }{}%
5867 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5868     \PackageWarningNoLine{biditools}{%
5869         The start y position `\'number\bidiposcount' is not known yet.
5870         Rerun to get this y position%
5871     }%
5872 }{}%
5873 }
5874
5875 \newcommand*{\WriteEndXYPostoaux}{%
5876     \edef\@tempa{%
5877         \write\@auxout{%
5878             \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5879         }%
5880         \write\@auxout{%
5881             \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5882         }%
5883     }%
5884 \if@RTL
5885     \if@filesw
5886         \@tempa
5887     \fi
5888     \pdfsavepos
5889     \else
5890     \pdfsavepos
5891     \if@filesw
5892         \@tempa
5893     \fi

```



```

5894 \fi
5895 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5896     \PackageWarningNoLine{biditools}{%
5897         The end x position ``\number\bidi@poscount' is not known yet.
5898         Rerun to get this x position%
5899     }%
5900 }{}%
5901 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5902     \PackageWarningNoLine{biditools}{%
5903         The end y position ``\number\bidi@poscount' is not known yet.
5904         Rerun to get this y position%
5905     }%
5906 }{}%
5907 }
5908
5909 \newcommand*{\currentposxwidth}{%
5910     \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{\z@}
5911     {%
5912         \ifnum\csname bidi@xpos@@start@\number\bidi@poscount
5913             \endcsname < \csname bidi@xpos@@end@\number\bidi@poscount
5914             \endcsname
5915             \dimexpr \csname bidi@xpos@@end@\number\bidi@poscount
5916             \endcsname sp - \csname bidi@xpos@@start@\number\bidi@poscount
5917             \endcsname sp\relax
5918         \else
5919             \dimexpr \csname bidi@xpos@@start@\number\bidi@poscount
5920             \endcsname sp - \csname bidi@xpos@@end@\number\bidi@poscount
5921             \endcsname sp\relax
5922         \fi
5923     }%
5924 }
5925
5926 \newcommand*{\currentposyheight}{%
5927     \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{\z@}
5928     {%
5929         \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
5930             \endcsname sp - \csname bidi@ypos@@end@\number\bidi@poscount
5931             \endcsname sp\relax
5932     }%
5933 }
5934
5935
5936
5937 \newcommand*{\setbaselineskip}[1]{%
5938     \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5939     \selectfont
5940 }
5941
5942
5943 \newcommand*{\bidi@newrobustcmd}{}
5944 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5945
5946 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5947

```



```

5948 \def\bidinewcommand#1[#2]{%
5949   \@ifnextchar[%
5950     {\bidixargdef#1[#2]}
5951     {\ifx\l@ngrel@x\relax
5952       \let\l@ngrel@x\protected
5953     }else
5954       \protected\def\l@ngrel@x{\protected\long}%
5955     \fi
5956     \@argdef#1[#2]}}
5957
5958 \long\def\bidixargdef#1[#2][#3]#4{%
5959   \@ifdefinable#1{%
5960     \expandafter\protected
5961     \expandafter\def
5962     \expandafter#1%
5963     \expandafter{%
5964       \expandafter\@testopt
5965       \csname\string#1\endcsname{#3}}}%
5966     \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}}
5967
5968 \bidinewrobustcmd*{\bidirenewrobustcmd}{\@star@or@long\bidirenew@command}
5969
5970 \def\bidirenew@command#1{%
5971   \if@bidi@undef{#1}
5972     {\biderror{\string#1 undefined}\@ehc}
5973     {}%
5974   \let\@ifdefinable\@rc@ifdefinable
5975   \bidinew@command#1}
5976
5977
5978
5979 \bidinewrobustcmd*{\bidiproviderobustcmd}{\@star@or@long\bidiprovide@command}
5980
5981 \def\bidiprovide@command#1{%
5982   \if@bidi@undef{#1}
5983     {\def\reserved@a{\bidinew@command#1}}
5984     {\def\reserved@a{\bidirenew@command\reserved@a}}%
5985   \reserved@a}
5986
5987 \newcommand*{\bidicsuse}[1]{%
5988   \ifcsname#1\endcsname
5989     \csname#1\expandafter\endcsname
5990   \fi}
5991
5992 \newcommand{\bidixpandonce}[1]{%
5993   \unexpanded\expandafter{#1}}
5994
5995 \def\bidiprotected{%
5996   \let\@protect\protect
5997   \let\protect\@unexpandable@protect
5998   \afterassignment\restore@protect}
5999
6000 \bidinewrobustcmd{\bidiappto}[2]{%
6001   \if@bidi@undef{#1}

```



```

6002     {\edef#1{\unexpanded{#2}}}
6003     {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
6004 \bidi@newrobustcmd{\bidi@eappto}[2]{%
6005   \if@bidi@undef{#1}
6006     {\edef#1{#2}}
6007     {\edef#1{\bidi@expandonce#1#2}}}
6008 \bidi@newrobustcmd{\bidi@gappto}[2]{%
6009   \if@bidi@undef{#1}
6010     {\xdef#1{\unexpanded{#2}}}
6011     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
6012 \bidi@newrobustcmd{\bidi@xappto}[2]{%
6013   \if@bidi@undef{#1}
6014     {\xdef#1{#2}}
6015     {\xdef#1{\bidi@expandonce#1#2}}}
6016
6017 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
6018 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
6019
6020
6021
6022 \bidi@newrobustcmd{\bidi@preto}[2]{%
6023   \if@bidi@undef{#1}
6024     {\edef#1{\unexpanded{#2}}}
6025     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}
6026 \bidi@newrobustcmd{\bidi@epreto}[2]{%
6027   \if@bidi@undef{#1}
6028     {\edef#1{#2}}
6029     {\edef#1{#2\bidi@expandonce#1}}
6030 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
6031   \if@bidi@undef{#1}
6032     {\xdef#1{\unexpanded{#2}}}
6033     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}
6034 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
6035   \if@bidi@undef{#1}
6036     {\xdef#1{#2}}
6037     {\xdef#1{#2\bidi@expandonce#1}}
6038
6039 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
6040 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
6041
6042
6043
6044 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
6045 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
6046 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
6047 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
6048 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
6049 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
6050
6051
6052
6053 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
6054 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
6055 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}

```




```

6056 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
6057 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
6058 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
6059
6060
6061
6062 \bidi@newrobustcmd{\if@bidi@patchable}{%
6063   \bidi@dbg@trce\if@bidi@patchable
6064   \beginingroup
6065   \@makeother\%
6066   \@ifstar\bidi@ifpatchablei\bidi@ifpatchable}
6067
6068 \long\def\bidi@ifpatchable#1#2{%
6069   \endgroup
6070   \bidi@dbg@init#1%
6071   \if@bidi@undef{#1}
6072     {\bidi@dbg@fail{def}\@secondoftwo}
6073     {\bidi@dbg@info{def}%
6074       \if@bidi@defmacro{#1}
6075         {\bidi@dbg@info{mac}%
6076           \bidi@ifscanable{#1}
6077             {\bidi@ifhashcheck{#2}
6078               {\bidi@dbg@info{tok}%
6079                 \bidi@ifpattern#1{#2}
6080                   {\bidi@dbg@info{pat}%
6081                     \bidi@dbg@info{pos}\@firstoftwo}
6082                     {\bidi@dbg@fail{pat}\@secondoftwo}}
6083                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
6084                   {\bidi@dbg@fail{tok}\@secondoftwo}}
6085                   {\bidi@dbg@fail{mac}\@secondoftwo}}}
6086
6087 \long\def\bidi@ifpatchablei#1{%
6088   \endgroup
6089   \bidi@dbg@init#1%
6090   \if@bidi@undef{#1}
6091     {\bidi@dbg@fail{def}\@secondoftwo}
6092     {\bidi@dbg@info{def}%
6093       \if@bidi@defmacro{#1}
6094         {\bidi@dbg@info{mac}%
6095           \if@bidi@defparam{#1}
6096             {\bidi@dbg@info{prm}%
6097               \bidi@ifscanable{#1}
6098                 {\bidi@dbg@info{tok}%
6099                   \bidi@dbg@info{pos}\@firstoftwo}
6100                   {\bidi@dbg@fail{tok}\@secondoftwo}}
6101                 {\bidi@dbg@info{prl}%
6102                   \if@bidi@defprotected{#1}
6103                     {\bidi@dbg@info{pro}}
6104                     {}%
6105                   \bidi@dbg@info{pos}\@firstoftwo}}
6106                 {\bidi@dbg@fail{mac}\@secondoftwo}}}
6107
6108 \bidi@newrobustcmd*{\bidi@patchcmd}{%
6109   \bidi@dbg@trce\bidi@patchcmd

```



```

6110 \begingroup
6111 \@makeother\#%
6112 \bidi@patchcmd}
6113
6114 \newcommand{\bidi@patchcmd}[4][#####1]{%
6115 \bidi@ifpatchable#2{#3}
6116 {\bidi@dbg@succ{ret}}%
6117 \begingroup
6118 \edef\bidi@resrvda{%
6119 \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
6120 #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}%
6121 \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
6122 #####1\detokenize{#4}####2}%
6123 \edef\noexpand\bidi@resrvda{%
6124 \noexpand\bidi@resrvda\meaning#2&}}%
6125 \bidi@resrvda
6126 \bidi@patchcmd@scantoks\bidi@resrvda
6127 \let#2\bidi@resrvda
6128 \bidi@undef\bidi@resrvda
6129 \@firstoftwo}
6130 {\@secondoftwo}}
6131
6132 \def\bidi@patchcmd@scantoks#1{%
6133 \edef\bidi@resrvda{\endgroup
6134 \unexpanded{\makeatletter\scantokens}{#1}%
6135 \catcode\number`\@=\the\catcode`\@\relax}%
6136 \bidi@resrvda}
6137
6138 \protected\def\bidi@ifscanable#1{%
6139 \begingroup
6140 \edef\bidi@resrvda{%
6141 \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
6142 #####1\def\string\bidi@resrvda####2{####3}}%
6143 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
6144 \bidi@resrvda
6145 \makeatletter
6146 \scantokens\expandafter{\bidi@resrvda}%
6147 \expandafter\endgroup\ifx#1\bidi@resrvda
6148 \expandafter\@firstoftwo
6149 \else
6150 \expandafter\@secondoftwo
6151 \fi}
6152
6153
6154 \protected\long\def\bidi@ifhashcheck#1{%
6155 \begingroup
6156 \edef\bidi@resrvda{\detokenize{#1}}%
6157 \expandafter\endgroup
6158 \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}
6159
6160 \edef\bidi@ifhashcheck@i#1{%
6161 \noexpand\expandafter
6162 \noexpand\bidi@ifhashcheck@ii
6163 \noexpand\strip@prefix#1\string#\string#&}

```



```

6164
6165 \edef\bid@ifhashcheck@ii{%
6166   \def\noexpand\bid@ifhashcheck@ii##1\string#\string###2&}
6167 \bid@ifhashcheck@ii{\if@bid@blank{#2}}
6168
6169
6170 \protected\long\def\bid@ifpattern#1#2{%
6171   \begingroup
6172   \edef\bid@resrvda{%
6173     \def\noexpand\bid@resrvda####1\detokenize{#2}####2&{%
6174       \endgroup\noexpand\noexpand\noexpand\if@bid@blank{####2}}}%
6175   \edef\noexpand\bid@resrvda{\noexpand\bid@resrvda
6176     \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
6177   \noexpand\bid@resrvda}
6178 \bid@resrvda\@secondoftwo\@firstoftwo}
6179
6180
6181 \newcommand{\if@bid@defparam}{%
6182 \long\edef\if@bid@defparam#1{%
6183   \noexpand\expandafter\noexpand\bid@ifdefparam
6184   \noexpand\meaning#1\detokenize{macro}:->&}
6185 \edef\bid@ifdefparam{%
6186   \def\noexpand\bid@ifdefparam##1\detokenize{macro}:##2->##3&}
6187 \bid@ifdefparam{\bid@notblank{#2}}
6188
6189
6190 \newcommand{\if@bid@defprotected}{%
6191 \long\edef\if@bid@defprotected#1{%
6192   \noexpand\expandafter\noexpand\bid@ifdefprotected
6193   \noexpand\meaning#1\string\protected&}
6194 \edef\bid@ifdefprotected{%
6195   \def\noexpand\bid@ifdefprotected##1\string\protected##2&}
6196 \bid@ifdefprotected{\bid@notblank{#2}}
6197
6198
6199 \bid@newrobustcmd{\bid@undef}[1]{\let#1\bid@undefined}
6200 \bid@newrobustcmd{\bid@csundef}[1]{%
6201   \expandafter\let\csname #1\endcsname\bid@undefined
6202 }
6203
6204 \let\bid@dbg@trce\@gobble
6205 \let\bid@dbg@init\@gobble
6206 \let\bid@dbg@info\@gobble
6207 \let\bid@dbg@succ\@gobble
6208 \let\bid@dbg@fail\@gobble
6209
6210
6211
6212 \bid@newrobustcmd*{\bid@apptocmd}{%
6213   \bid@dbg@trce\bid@apptocmd
6214   \begingroup
6215   \@makeother\%#
6216   \bid@hooktocmd\bid@append}
6217

```



```

6218
6219
6220 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6221   \bidi@dbg@trce\bidi@pretocmd
6222   \beginingroup
6223   \@makeother\#%
6224   \bidi@hooktocmd\bidi@prepend}
6225
6226 \long\def\bidi@hooktocmd#1#2#3{%
6227   \endgroup
6228   \bidi@dbg@init#2%
6229   \if@bidi@undef{#2}
6230     {\bidi@dbg@fail{def}\@secondoftwo}
6231     {\bidi@dbg@info{def}%
6232       \if@bidi@defmacro{#2}
6233         {\bidi@dbg@info{mac}%
6234           \if@bidi@defparam{#2}
6235             {\bidi@dbg@info{prm}%
6236               \bidi@ifscanable{#2}
6237                 {\bidi@ifhashcheck{#3}
6238                   {\bidi@dbg@info{tok}%
6239                     \bidi@dbg@succ{ret}%
6240                     \bidi@hooktocmd@i#1#2{#3}%
6241                     \@firstoftwo}
6242                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
6243                 {\bidi@dbg@fail{tok}\@secondoftwo}}
6244               {\bidi@dbg@info{prl}%
6245                 \if@bidi@defprotected{#2}
6246                   {\bidi@dbg@info{pro}%
6247                     \bidi@dbg@succ{red}%
6248                     \protected}
6249                   {\bidi@dbg@succ{red}}}%
6250               \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6251               \@firstoftwo}}
6252             {\bidi@dbg@fail{mac}\@secondoftwo}}
6253
6254 \long\def\bidi@hooktocmd@i#1#2#3{%
6255   \beginingroup
6256   \edef\bidi@resrvda{%
6257     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6258       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}%
6259     \edef\noexpand\bidi@resrvda{%
6260       \noexpand\bidi@resrvda\meaning#2&}}%
6261   \bidi@resrvda
6262   \bidi@patchcmd@scantoks\bidi@resrvda
6263   \let#2\bidi@resrvda
6264   \bidi@undef\bidi@resrvda}
6265
6266 \long\def\bidi@append#1#2{#1#2}
6267 \long\def\bidi@prepend#1#2{#2#1}
6268
6269 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6270 %\newcommand*{\bidi@endpreamblehook}{%
6271

```



```

6272 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
6273
6274 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
6275 \newcommand*{\bidi@beforeoutputpageshipouthook}{}
6276
6277 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6278 \newcommand*{\bidi@beforeheaderhook}{}
6279
6280 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutput}
6281 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}
6282
6283 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutput}
6284 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}
6285
6286 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6287 \newcommand*{\bidi@beforefooterhook}{}
6288
6289 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6290 \newcommand*{\bidi@afterfooterhook}{}
6291
6292
6293 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipouthook}
6294 \newcommand*{\bidi@afteroutputpageshipouthook}{}
6295
6296 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6297 \newcommand*{\bidi@atendoutputpagehook}{}
6298
6299 %\bidi@preto\document{%
6300 % \endgroup
6301 % \let\bidi@AtEndPreamble\@firstofone
6302 % \bidi@endpreamblehook
6303 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6304 % \bidi@undef\bidi@endpreamblehook
6305 % \begingroup}
6306
6307 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6308 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6309
6310 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6311 %\newcommand*{\bidi@afterendpreamblehook}{}
6312
6313 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}%
6314
6315 %\bidi@appto\document{%
6316 % \let\bidi@AfterEndPreamble\@firstofone
6317 % \bidi@afterendpreamblehook
6318 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6319 % \bidi@undef\bidi@afterendpreamblehook
6320 % \ignorespaces}
6321
6322 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocumentchecklabelsrerun}
6323 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{}
6324
6325 \bidi@patchcmd\enddocument

```



```

6326 {\fi}
6327 {\let\bid@AfterEndDocumentCheckLabelsRerun\@firstofone
6328 \bid@afterenddocumentchecklabelssrerunhook
6329 \fi}
6330 {}
6331 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6332
6333 \AtEndDocument{\let\bid@AfterEndPreamble\@gobble}
6334
6335 \bid@newrobustcmd*{\bid@AfterLastShipout}{\bid@gappto\bid@afterlastshipouthook}
6336 \newcommand*{\bid@afterlastshipouthook}{}
6337
6338 \bid@patchcmd\enddocument
6339 {\clearpage}
6340 {\clearpage
6341 \let\bid@AfterLastShipout\@firstofone
6342 \bid@afterlastshipouthook}
6343 {}
6344 {\let\bid@clearpage\clearpage
6345 \def\clearpage{%
6346 \bid@clearpage
6347 \let\bid@AfterLastShipout\@firstofone
6348 \bid@afterlastshipouthook}}
6349
6350 %\bid@newrobustcmd*{\bid@AfterEndDocument}{\bid@gappto\bid@afterenddocumenthook}
6351 %\newcommand*{\bid@afterenddocumenthook}{}
6352
6353 \bid@newrobustcmd*{\bid@AfterEndDocument}{\AddToHook{enddocument/end}}%
6354
6355 %\bid@patchcmd\enddocument
6356 % {\deadcycles}
6357 % {\let\bid@AfterEndDocument\@firstofone
6358 % \bid@afterenddocumenthook
6359 % \deadcycles}
6360 % {}
6361 % {\let\bid@@end\@end
6362 % \def\@end{%
6363 % \let\bid@AfterEndDocument\@firstofone
6364 % \bid@afterenddocumenthook
6365 % \bid@@end}}
6366
6367 \bid@newrobustcmd{\bid@AtBeginEnvironment}[1]{%
6368 \bid@csgappto{\bid@begin@#1@hook}}
6369
6370 % Patch \begin<space> and \end<space> in newer LaTeX releases
6371 % \begin and \end in older ones.
6372 \expandafter\bid@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6373 {\csname #1\endcsname}
6374 {\bid@csuse{\bid@begin@#1@hook}%
6375 \csname #1\endcsname}
6376 {}
6377 {\bid@warning{%
6378 Patching '\string\begin' failed!\MessageBreak
6379 '\string\bid@AtBeginEnvironment' will not work\@gobble}}

```



```

6380
6381
6382
6383 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
6384   \bidi@csgappto{@bidi@end@#1@hook}}
6385
6386 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6387   {\csname end#1\endcsname}
6388   {\bidi@csuse{@bidi@end@#1@hook}%
6389     \csname end#1\endcsname}
6390   {}
6391   {\bidi@warning{%
6392     Patching '\string\end' failed!\MessageBreak
6393     '\string\bidi@AtEndEnvironment' will not work\@gobble}}
6394
6395
6396
6397 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6398   \bidi@csgappto{@bidi@beforebegin@#1@hook}}
6399
6400 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6401   {\bidi@csuse{@bidi@beforebegin@#1@hook}}
6402   {}
6403   {\bidi@warning{%
6404     Patching '\string\begin' failed!\MessageBreak
6405     '\string\bidi@BeforeBeginEnvironment' will not work\@gobble}}
6406
6407 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
6408   \bidi@csgappto{@bidi@afterend@#1@hook}}
6409
6410 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6411   {\if@ignore}
6412   {\bidi@csuse{@bidi@afterend@#1@hook}%
6413     \if@ignore}
6414   {}
6415   {\bidi@warning{%
6416     Patching '\string\end' failed!\MessageBreak
6417     '\string\bidi@AfterEndEnvironment' will not work\@gobble}}
6418
6419 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6420 \def\bidi@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6421 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
6422 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6423
6424 % From David Carlisle:
6425 % The \@stpelt redefinition below belongs to Heiko Oberdiek
6426 % See also https://github.com/ho-tex/oberdiek/issues/26
6427
6428 \let\bidi@stepcounter\stepcounter
6429 \let\bidi@stpelt\@stpelt
6430
6431 \def\@stpelt#1{%
6432   \ifcsname bidi@reset@#1@perpage\endcsname
6433     \begingroup

```



```

6434     \let\stepcounter\@bidi@stepcounter
6435     \@bidi@@stpelt{#1}%
6436     \endgroup
6437     \expandafter\@gobbletwo
6438     \fi
6439     \@bidi@@stpelt{#1}%
6440 }
6441
6442 \bidi@pretocmd\stepcounter
6443 {%
6444     \if@bidi@csundef{bidi@stepcounterhook@@#1}{%
6445         \csname bidi@stepcounterhook@@#1\endcsname
6446     }%
6447     }{%
6448         {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6449
6450 \chardef\bidi@backslash`\\
6451 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6452
6453 % anonymous control sequences
6454 \newcount\bidi@tempcountb
6455 \newtoks\bidi@temptoksa
6456 \newtoks\bidi@temptoksb
6457
6458 % Catcode (re)storing
6459 %
6460 \def\bidi@storecatcode#1%
6461     {\escapechar\m@ne
6462     \bidi@csarg\edef{bidi@restorecatcode\string#1}%
6463         {\catcode`\string#1=
6464         \the\catcode\expandafter`\string#1}%
6465     \catcode\expandafter`\string#1=12\relax
6466     \escapechar`\\ \relax}
6467 \def\bidi@restorecatcode#1%
6468     {\escapechar\m@ne
6469     \csname bidi@restorecatcode\string#1\endcsname
6470     \escapechar`\\ \relax}
6471
6472 % Construct a control sequence inside \edef
6473 %
6474 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6475
6476 % Construct a control sequence out of #2, and give it to #1
6477 %
6478 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6479
6480 % Pick an escapecharacter
6481 % this presumes that its argument is a character.
6482 %
6483 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6484
6485 % Equality of strings.
6486 % the fast approach: does not work in expansion-only environment.
6487 %

```




```

6488 \def\bid@EqualString#1#2{00\fi\def\bid@eqs@a{#1}\def\bid@eqs@b{#2}%
6489     \ifx\bid@eqs@a\bid@eqs@b}
6490
6491 % Test by expansion only
6492 %
6493 \def\bid@EqualStringX#1#2{00\fi
6494     \csname if\@bid@EqualStringX#1&#2&$\endcsname}
6495 \def\@bid@EqualStringX#1#2$#3#4${\ifx#1#3%
6496     \ifx#1&true\else\bid@hop@ES\@bid@EqualStringX#2$#4$\fi
6497     \else false\fi}
6498 \def\bid@hop@ES#1\fi#2\fi{\fi\fi#1}
6499
6500 % Lexicographic ordering
6501 % note the use of \def
6502 % also note the characters 0,127,255 that are used,
6503 % these are not supposed to appear in the strings
6504 %
6505 {\catcode0=12 \catcode255=12 \catcode127=12
6506 \gdef\bid@StringBeforeNC#1#2{00\fi
6507     \bid@CharsBefore#1^^@^^?#2^^ff^^?}
6508 \gdef\bid@CharsBeforeNC#1#2^^?#3#4^^?{%
6509     \ifcat#1\relax\def\bid@next{\bid@CharsBefore#2^^@^^?#3#4^^ff^^?}%
6510     \else\ifcat#3\relax\def\bid@next{\bid@CharsBefore#1#2^^@^^?#4^^ff^^?}%
6511     \else\ifnum\lccode`#1<\lccode`#3
6512         \def\bid@next{\csname iftrue\endcsname}%
6513     \else\ifnum\lccode`#1>\lccode`#3
6514         \def\bid@next{\csname iffalse\endcsname}%
6515     \else\def\bid@next{\bid@CharsBefore#2^^?#4^^?}%
6516     \fi \fi \fi \fi
6517     \bid@next}
6518 \gdef\bid@StringBefore#1#2{00\fi
6519     \bid@CharsBefore#1^^@^^?#2^^ff^^?}
6520 \gdef\bid@CharsBefore#1#2^^?#3#4^^?{%
6521     \ifnum`#1<`#3
6522         \def\bid@next{\csname iftrue\endcsname}%
6523     \else\ifnum`#1>`#3
6524         \def\bid@next{\csname iffalse\endcsname}%
6525     \else\def\bid@next{\bid@CharsBefore#2^^?#4^^?}%
6526     \fi\fi
6527     \bid@next}
6528 }
6529
6530 % Null argument test
6531 %
6532 \def\bid@empty{}
6533 \def\bid@ifempty#1{00\fi\expandafter\ifx\csname bid@#1@null\endcsname\bid@null}
6534 \def\bid@ifEmptyX#1{\expandafter\ifx\csname bid@#1@null\endcsname\bid@null}
6535 %\def\bid@ifEmpty#1{\def\bid@cs@a{#1}\ifx\bid@cs@a\bid@empty}
6536 \def\bid@IsEmptyList#1{00\fi\def\bid@cs@a{#1}\ifx\cs@a\bid@empty}
6537
6538 % Next character test
6539 %
6540 \def\bid@NextChar#1#2#3{00\fi
6541     \let\bid@nxt@ch#1\def\bid@nxt@a{#2}\def\bid@nxt@b{#3}%

```



```

6542 \futurelet\bidixnxt@c\@bidixifnxtc}
6543 \def\bidixifNextChar#1#2#3{%
6544 \let\bidixnxt@c#1\def\bidixnxt@a{#2}\def\bidixnxt@b{#3}%
6545 \futurelet\bidixnxt@c\@bidixifnxtc}
6546 \def\@bidixifnxtc{\ifx\bidixnxt@c\bidixnxt@c \expandafter\bidixnxt@a
6547 \else \expandafter\bidixnxt@b \fi}
6548
6549 % Test for defined-ness of string as control sequence.
6550 % works inside \edef
6551 %
6552 \def\bidixundefinedcs#1{00\fi\bidixcsarg\ifx{#1}\relax}
6553
6554 % Define uniquely defined dummy macros,
6555 % usually to serve as bumper blocks at the end of a list
6556 %
6557 \newcount\bidixdummies
6558 \def\DefNewDummy#1{
6559 \if\bidixundefinedcs{#1}\bidixcsarg\edef{#1}{\bidixdum\the\bidixdummies}
6560 \advance\bidixdummies\@ne
6561 \else
6562 \bidixerror{Attempt at second definition of `#1'}
6563 \fi}
6564
6565 % string case statement
6566 % use: \bidixswitch \iftest{...} in:
6567 % item1 action1
6568 % ...
6569 % itemn actionn
6570 % default defaultaction [optional]
6571 % \endbidixswitch
6572 % inspired by Jonathan Fine: Some Basic Control Macros
6573 % Tugboat 12 #4
6574 %
6575 \let\@bidixfi\fi \let\endbidixswitch\relax \DefNewDummy{\bidixdefault}
6576 \def\bidixswitch@exit #1 \@bidixfi #2 \endbidixswitch {\fi #1}
6577 \def\bidixswitch #1#2#3{\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bidixfi
6578 #1{#2}\bidixswitch@exit #3 \@bidixfi
6579 \bidixswitch {#1}
6580 }
6581 % this version puts the test object in {}
6582 \def\bidixoswitch #1 in: #2 #3; {\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bidixfi
6583 #1{#2}\bidixswitch@exit #3 \@bidixfi
6584 \bidixswitch #1 in:
6585 }
6586 % this version assumes that the test object is just one character
6587 \def\bidixcswitch #1 in: #2 #3; {\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bidixfi
6588 #1#2\bidixswitch@exit #3 \@bidixfi
6589 \bidixcswitch #1 in:
6590 }
6591 % this version assumes that the test object can have an optional space
6592 \def\bidixbswitch #1 in: #2 #3; {\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bidixfi
6593 #1#2 \bidixswitch@exit #3 \@bidixfi
6594 \bidixbswitch #1 in:
6595 }

```



```

6596% this version can cope with significant spaces at the start of #3;
6597% #2 is macro argument
6598\def\bidimswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \bidi@
6599 #1{#2}\bidi@switch@exit #3 \bidi@fi
6600 \bidimswitch #1 in:
6601 }
6602% idem; #2 does not have to be enclosed in braces
6603\def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \bidi@
6604 #1#2 \bidi@switch@exit #3 \bidi@fi
6605 \bidi@fswitch #1 in:
6606 }
6607
6608% Routines for taking the value of a string:
6609% if the string is defined as control sequence
6610% take the value of that, otherwise take the string itself
6611
6612% String or value of control sequence
6613%
6614\def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6615
6616% String or control sequence
6617%
6618\def\bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6619
6620% String or \noexpand-ed control sequence;
6621% for use in \edef
6622%
6623\newif\ifbidi@in@label
6624\def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6625 \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6626\newtoks\bidi@are@these@correct
6627\def\bidi@t@w@w#1{%
6628 \if\bidi@undefinedcs{#1}#1%
6629 \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 } \fi
6630 \else
6631 \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6632
6633% List Manipulation .....
6634% this assumes that #1 is a list of tokens, #2 is the name of a list
6635%
6636% Names of lists (and of items to pop into) are given as strings;
6637% not as control sequences.
6638%
6639\newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6640% basic append/prepend macro
6641\long\def\bidi@append@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6642 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@
6643 \long\def\bidi@prepend@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6644 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@list
6645 \def\bidi@append@to@list{\bidi@csarg\bidi@append@to@cslist}
6646 \def\bidi@prepend@to@list{\bidi@csarg\bidi@prepend@to@cslist}
6647% variations:
6648\long\def\bidi@append@to@list#1#2{\bidi@append@to@list{#1}{#2}}
6649\long\def\bidi@prepend@to@list#1#2{\bidi@prepend@to@list{#1}{#2}}

```



```

6650 \def\bid@append@list@to@list#1#2{%
6651   \@bid@append@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2\
6652 \def\bid@prepend@list@to@list#1#2{%
6653   \@bid@prepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2\
6654 \def\bid@append@csl@to@csl#1#2{%
6655   \@bid@append@to@csl{#1}\expandafter{\the#2}}
6656 \def\bid@prepend@csl@to@csl#1#2{%
6657   \@bid@prepend@to@csl{#1}\expandafter{\the#2}}
6658 \def\bid@append@toks@cs@to@list#1#2{\@bid@append@to@list{#1}\expandafter{\the#2}}
6659 \def\bid@prepend@toks@cs@to@list#1#2{\@bid@prepend@to@list{#1}\expandafter{\the#2}}
6660
6661 \let\bid@willbeunhskip\unhskip
6662
6663 % A few list macros for the user
6664 \def\NewTokenList:#1 {\bid@csarg\newtoks{#1}\global\csname#1\endcsname{}}
6665 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6666 \long\def\AppendToTokenList:#1=#2 {\@bid@append@to@list{#1}{#2}}
6667 \long\def\PrependToTokenList:#1=#2 {\@bid@prepend@to@list{#1}{#2}}
6668 \def\TheTokenList:#1 {\let\bid@oldwbuskip\bid@willbeunhskip \let\bid@willbeunhskip\@empty
6669   \if\bid@undefinedcs{#1}\bid@error{Token List <#1> undefined}
6670   \else\bid@csarg\the{#1}\fi
6671   \let\bid@willbeunhskip\bid@oldwbuskip}
6672
6673 \def\bid@del@tok@from@list#1#2{\begingroup
6674   \long\def\bid@cs@list#1#2#3\bid@tok@SM
6675     {\bid@toks@list#1\bid@toks@listb{#2}}%
6676     \edef\bid@cs@listb{\global\bid@csname{#1}=
6677       {\the\bid@toks@list#1\the\bid@toks@listb}}%
6678     \bid@cs@listb}%
6679     \edef\bid@cs@list#1{\noexpand\bid@cs@list#1\expandafter\the\csname#1\endcsname\noexpand
6680     \bid@cs@listb \endgroup}
6681 \def\bid@in@front@of@list#1{\bid@csarg{\let\expandafter\bid@cs@list#1}%
6682   \bid@in@front@of@csl\bid@cs@list#1}
6683 \long\def\bid@in@front@of@csl#1#2{\begingroup\bid@toks@list#1#2}%
6684   \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bid@toks@list#1}
6685   \endgroup}
6686 \long\def\bid@local@in@front@of@list#1#2{\bid@toks@list#1#2}%
6687   \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6688     {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter\expandafter
6689     \expandafter\the\csname#1\endcsname}%
6690   }
6691 \def\bid@set@list#1{\bid@csarg{\let\expandafter\bid@cs@list#1}%
6692   \bid@set@csl\bid@cs@list#1}
6693 \long\def\bid@set@csl#1#2{\begingroup\bid@toks@list#1#2}%
6694   \global#1=\expandafter{\the\bid@toks@list#1}\endgroup}
6695
6696 %%%%%%%%%%%%%%% Stack macros
6697 %
6698 % push in terms of prepending of lists
6699 \def\bid@push@cs@onto@cs#1#2{\@bid@prepend@to@csl#1\expandafter{\expandafter\bid@push@cs@onto@cs{#1}}
6700 \def\bid@push@onto#1{\bid@csarg\bid@push@onto@cs{#1}}
6701 \def\bid@push@onto@cs#1#2{\@bid@prepend@to@csl#1{\bid@push@onto@cs{#1}}
6702 \def\bid@local@push@onto#1#2{\let\bid@relax=
6703   \bid@local@in@front@of@list{#1}{\bid@push@onto@cs{#1}}

```



```

6704 % pop via auxiliary macro: #1 is result, #2 is stack
6705 % two cs arguments
6706 \def\pop@cs@into#1#2{\edef\pop@cs@e
6707   {\noexpand\@popinto\noexpand#1\noexpand#2\the#2\noexpand\@pop}\pop@cs@e}
6708 % two string arguments
6709 \def\pop@into#1#2{\edef\pop@cs@e
6710   {\noexpand\@popinto\pop@csname{#1}\pop@csname{#2}\pop@csarg\the{#2}\noexpand\@pop}
6711   \long\def\@popinto#1#2\#3#4\@pop{#1{#3}#2{#4}}}
6712 \def\copy@stacktop#1#2{%
6713   \edef\pop@cs@e{\noexpand\copy@stacktop
6714     {#1}\pop@csarg\the{#2}\noexpand\@pop}%
6715   \pop@cs@e}
6716 \def\@copy@stacktop#1\#2#3\@pop{\csname#1\endcsname#2\relax}
6717 \newcount\pop@stack@length \newtoks\pop@empty@stack \pop@empty@stack{\{\}}
6718 \def\length@of@stack#1{\pop@csarg\pop@length@of@csstack{#1}}
6719 \def\length@of@csstack#1{\def\#1{\advance\pop@stack@length\@ne}%
6720   \pop@stack@length\@ne \the#1}
6721 % turn a stack upside down
6722 \def\invert@csstack#1{\length@of@csstack{#1}%
6723   \pop@tempcountb\z@ \pop@temptoksa\pop@empty@stack
6724   \loop\ifnum\pop@tempcountb<\pop@stack@length
6725     \pop@pop@cs@into\pop@temptoksb#1\advance\pop@stack@length\@ne
6726     \pop@push@cs@onto@cs\pop@temptoksa\pop@temptoksb
6727     \pop@append@clist@to@clist\pop@temptoksb\pop@temptoksa% append a to b
6728     \pop@temptoksa\pop@temptoksb
6729     \repeat% copy b to a
6730   #1\pop@temptoksa \pop@temptoksa\pop@empty@toks}
6731 % invert a stack into a list
6732 \def\@x@stack@to@list#1{\length@of@stack{#1}%
6733   \pop@tempcountb\z@ \pop@temptoksa\pop@empty@toks
6734   \loop\ifnum\pop@tempcountb<\pop@stack@length
6735     \pop@pop@into\pop@temptoksb{#1}\advance\pop@stack@length\@ne
6736     \pop@append@list@to@list\pop@temptoksb{\pop@temptoksa}\repeat
6737   \csname#1\endcsname\pop@temptoksa \pop@temptoksa\pop@empty@toks}
6738
6739
6740 % General loop macro:
6741 % \looprepeat
6742 %   \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6743 %   \untilcondition{<cond>} \whilecondition{<cond>}
6744 %   \doloopbody { <loop body> }
6745 % where all control sequences in between \looprepeat and \doloopbody are optional.
6746 %
6747 % var: characters to form a control sequence;
6748 %   after \forvariable{index} you can access the loop counter as \index.
6749 %   This is a count register; to print it use \number\index.
6750 % start,step,end: integers with obvious relations to the loop counter;
6751 %   start and step have a default value of 1
6752 % cond: (sequence of commands ending in) any TeX \if... test.
6753 %
6754 % Count down instead of up with \downtovalue; the increment given in \bystep
6755 % is always positive, and is added or subtracted accordingly.
6756 %
6757 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition

```



```

6758% at the beginning of the loop body.
6759%
6760% Exit from middle of loop: \breaklooprepeat
6761% use this at any place in the loop; in case of a conditional use
6762%   \ifsomething ... \expandafter \breaklooprepeat \fi
6763%
6764% Note that the line ends do not cause spaces in the output.
6765%
6766% Technical details:
6767% The loop body is not executed in a group: the braces are those
6768% of a token list.
6769% The 'forvariable' variable is \let to a \count register.
6770
6771
6772
6773% Auxiliary stuff
6774\def\bidilooptrepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6775\def\bidilooptrepeat@csromannumeral#1{\csname #1\romannumeral\bidilooptrepeat@depth\endcsname}
6776\def\bidilooptrepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidilooptrepeat@depth\endcsname}
6777
6778\newcount\bidilooptrepeat@depth
6779\let\endlooptrepeat\relax \def\bidilooptrepeat@csprotect{}
6780% Trace switches may later be defined by PAC_utils
6781\let\bidilooptrepeat@traceinit\relax \let\bidilooptrepeat@traceexit\relax
6782
6783% Main repeatloop macro
6784% - go to next level and allocate unique counter/toks if this is the
6785%   first time we visit this level
6786% - setup: gather bounds and termination conditions
6787% - scoop up body in token list; after the assignment define and
6788%   execute body
6789\def\looptrepeat#1\doloopbody{\bidilooptrepeat@traceinit % exit in \breakrepeatloop
6790  \advance\bidilooptrepeat@depth\one\relax
6791  \bidilooptrepeat@csargromannumeral\ifx{\bidilooptrepeat@count}\relax
6792    \bidilooptrepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidilooptrepeat@count}%
6793    \bidilooptrepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooptrepeat@count}%
6794    \bidilooptrepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooptrepeat@count}%
6795    \bidilooptrepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooptrepeat@count}%
6796  \fi \bidilooptrepeat@zero \def\bidilooptrepeat@sign{}\def\bidilooptrepeat@comp{>}\bidilooptrepeat@comp
6797  \edef\bidilooptrepeat@tmp
6798    {\def\bidilooptrepeat@csargromannumeral\noexpand{\bidilooptrepeat@looptrepeat}{\bidilooptrepeat@body}%
6799  \afterassignment\bidilooptrepeat@dxbody\bidilooptrepeat@csromannumeral{\bidilooptrepeat@count}%
6800
6801% Define and execute loop body
6802% This is done with an \edef to construct the actual sequence
6803\def\bidilooptrepeat@dxbody{\bidilooptrepeat@csargromannumeral\edef{\bidilooptrepeat@body}{%
6804  \bidilooptrepeat@csargromannumeral\the{\bidilooptrepeat@wtest}%
6805  \noexpand\the{\bidilooptrepeat@csargromannumeral\noexpand{\bidilooptrepeat@toks}%
6806  \bidilooptrepeat@csargromannumeral\the{\bidilooptrepeat@utest}%
6807  \global\bidilooptrepeat@csargromannumeral\advance{\bidilooptrepeat@count} by \bidilooptrepeat@comp}%
6808  \noexpand\endlooptrepeat
6809  \bidilooptrepeat@csargromannumeral\noexpand{\bidilooptrepeat@looptrepeat}}}%
6810  \bidilooptrepeat@csromannumeral{\bidilooptrepeat@body}\ignorespaces}
6811

```



```

6812 % Stop test
6813 %% In order to stop, issue a
6814 % \breaklooprepeat which scoops up the rest of the body and exits
6815 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral
6816 \advance\bidi@looprepeat@depth\m@ne \bidi@looprepeat@traceexit
6817 }
6818
6819
6820 % Setup
6821 % gather bounds and termination conditions
6822 \def\bidi@looprepeat@setup#1{%
6823 \begingroup
6824 \def\forvariable##1{%
6825 \edef\bidi@looprepeat@tmp{%
6826 \global\let\bidi@looprepeat@csarg\noexpand{##1}\bidi@looprepeat@csromannumeral\bidi@
6827 \bidi@looprepeat@tmp}%
6828 \def\fromvalue##1{\bidi@looprepeat@csargromannumeral\global\bidi@looprepeat@count}##1\ig
6829 \def\tovalue##1{%
6830 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{\bidi@loop
6831 {\bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@wtest}}%
6832 \noexpand\ifnum\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@count}\bi
6833 \noexpand\expandafter \noexpand\breaklooprepeat
6834 \noexpand\fi}\ignorespaces}%
6835 \bidi@looprepeat@tmp}%
6836 \def\downtovalue##1{%
6837 \gdef\bidi@looprepeat@sign{-}\gdef\bidi@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6838 \def\bystep##1{\ifnum##1<0 \bidi@error{LOOPREPEAT: increment has to be a positive value}
6839 \bidi@looprepeat@csargromannumeral\gdef{\bidi@looprepeat@inc}{-##1}\else
6840 \bidi@looprepeat@csargromannumeral\gdef{\bidi@looprepeat@inc}{##1}\fi\ignoresp
6841 \def\untilcondition##1{%
6842 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{\bidi@loop
6843 {\noexpand##1\relax
6844 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6845 \bidi@looprepeat@tmp}%
6846 \def\whilecondition##1{%
6847 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{\bidi@loop
6848 {\noexpand##1\relax \noexpand\else
6849 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6850 \bidi@looprepeat@tmp}%
6851 \fromvalue{\@ne}\bystep{\@ne}#1%
6852 \endgroup}
6853 \def\bidi@looprepeat@zero
6854 {\bidi@looprepeat@csromannumeral\bidi@looprepeat@toks}{\bidi@looprepeat@csromannumeral\b
6855 \bidi@looprepeat@csargromannumeral\def{\bidi@looprepeat@body}{}}
6856
6857 %\tracingmacros2
6858 %\newcount\tmpcount % used in some examples below
6859
6860 %\looprepeat \forvariable{i}
6861 % \bystep{2}
6862 % \doloopbody {%
6863 % \ifnum i=13 \expandafter\breaklooprepeat \fi
6864 % \number i}% %
6865 %}%

```



```

6866
6867%\looprepeat \forvariable{iii}
6868%      \tovalue{8}
6869%      \doloopbody {}
6870%After loop: \number\iii%
6871
6872%\looprepeat \forvariable{i}
6873%      \fromvalue{10}
6874%      \bystep{2}
6875%      \downtovalue{0}
6876%      \doloopbody {\number\i} }
6877
6878%\looprepeat \forvariable{x} \whilecondition{\ifnum\x<7}
6879%      \doloopbody {\number\x} }
6880
6881%\looprepeat \tovalue{3} \doloopbody {Hello world! }
6882
6883%\looprepeat \forvariable{j}
6884%      \untilcondition{\tmpcount\j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6885%      \doloopbody {\number\j} }
6886
6887%\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6888% {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6889% \doloopbody {(\number\i.\number\j) }
6890% }
6891
6892% infinite loop
6893%\looprepeat \doloopbody {}
6894
6895\ExplSyntaxOn
6896\NewDocumentCommand \bidi@AfterClass { s m o +m }
6897 {
6898   \IfBooleanTF { #1 }
6899   {
6900     \@ifclassloaded{ #2 }
6901     { #4 }
6902     {
6903       \hook_gput_code:nnn
6904       { file / #2.\@clsextension / after }
6905       { #3 }
6906       { #4 }
6907     }
6908   }
6909   {
6910     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6911   }
6912 }
6913
6914\seq_new:N \g__biditools_input_file_seq
6915
6916\prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6917 {
6918   \str_set:Nx \l_tmpa_str { #1 }
6919   \seq_if_in:NxTF \g__biditools_input_file_seq { \str_use:N \l_tmpa_str }

```




```

6920     { \prg_return_true: }
6921     { \prg_return_false: }
6922   }
6923
6924 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6925 {
6926   \@ifclassloaded { #1 }
6927   {
6928     \__bidi_if_loading:nTF { #1.\@clsextension }
6929     { \prg_return_false: }
6930     { \prg_return_true: }
6931   }
6932   {
6933     \prg_return_false:
6934   }
6935 }
6936
6937 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6938 {
6939   \@ifpackageloaded { #1 }
6940   {
6941     \__bidi_if_loading:nTF { #1.\@pkgextension }
6942     { \prg_return_false: }
6943     { \prg_return_true: }
6944   }
6945   {
6946     \prg_return_false:
6947   }
6948 }
6949
6950 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6951 {
6952   \IfBooleanTF { #1 }
6953   {
6954     \bidi_if_class_loaded:nTF { #2 }
6955     { #4 }
6956     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6957   }
6958   {
6959     \bidi_if_class_loaded:nF
6960     { #2 }
6961     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6962   }
6963 }
6964
6965 \NewDocumentCommand \bidi@AfterPackage { s m o +m }
6966 {
6967   \IfBooleanTF { #1 }
6968   {
6969     \@ifpackageloaded{ #2 }
6970     { #4 }
6971     {
6972       \hook_gput_code:nnn
6973       { file / #2.\@pkgextension / after }

```



```

6974         { #3 }
6975         { #4 }
6976     }
6977 }
6978 {
6979     \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6980 }
6981 }
6982
6983 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6984 {
6985     \IfBooleanTF { #1 }
6986     {
6987         \bidi_if_package_loaded:nTF { #2 }
6988         { #4 }
6989         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6990     }
6991     {
6992         \bidi_if_package_loaded:nF
6993         { #2 }
6994         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6995     }
6996 }
6997
6998 \clist_new:N \l__biditools_package_clist
6999 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
7000 {
7001     Can-not-prevent-package-`#1'-from-being-loaded,~
7002     since-it-has-been-loaded-already-before-line~\msg_line_number:
7003 }
7004 \clist_new:N \g__biditools_prevent_clist
7005
7006 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
7007 {
7008     \clist_set:Nx \l__biditools_package_clist { #3 }
7009     \clist_map_inline:Nn \l__biditools_package_clist
7010     {
7011         \@ifpackageloaded { ##1 }
7012         {
7013             \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
7014             { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
7015         }
7016         {
7017             \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
7018             { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
7019             \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }
7020             {
7021                 \tl_new:c { g__biditools_exclude_package_##1_tl }
7022             }
7023             \IfValueT { #2 }
7024             {
7025                 \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
7026             }
7027             \disable@package@load { ##1 }

```



```

7028         { \tl_use:c { g__biditools_exclude_package_##1_tl } }
7029     }
7030 }
7031 \clist_clear:N \l__biditools_package_clist
7032 }
7033
7034 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
7035 {
7036     \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load
7037     \clist_gclear:N \g__biditools_prevent_clist
7038 }
7039
7040 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
7041 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
7042
7043 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
7044 {
7045     \clist_set:Nx \l__biditools_package_clist { #2 }
7046     \clist_map_inline:Nn \l__biditools_package_clist
7047     {
7048         \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
7049         {
7050             \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
7051             \reenable@package@load { ##1 }
7052             \IfBooleanT { #1 }
7053             { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
7054         }
7055     }
7056 }
7057
7058 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
7059 {
7060     \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
7061     {
7062         \debug_suspend:
7063         \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
7064         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7065         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7066         #2
7067         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7068         \debug_resume:
7069     }
7070 }
7071
7072 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
7073 {
7074     \hook_gput_code:nnn { enddocument / afteraux } { #1 }
7075     {
7076         \debug_suspend:
7077         \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
7078         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7079         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7080         #2
7081         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn

```



```

7082         \debug_resume:
7083     }
7084 }
7085
7086 \clist_new:N \l__biditools_file_patch_clist
7087
7088 \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7089 {
7090     \clist_set:Nx \l__biditools_file_patch_clist { #1 }
7091     \clist_map_inline:Nn \l__biditools_file_patch_clist
7092     {
7093         \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7094     }
7095     \clist_clear:N \l__biditools_file_patch_clist
7096 }
7097
7098 \clist_new:N \l__biditools_package_patch_clist
7099
7100 \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7101 {
7102     \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7103     \clist_map_inline:Nn \l__biditools_package_patch_clist
7104     {
7105         \ApplyPatchToPackage { ##1 } [ #2 ]
7106     }
7107     \clist_clear:N \l__biditools_package_patch_clist
7108 }
7109
7110 \clist_new:N \l__biditools_class_patch_clist
7111
7112 \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7113 {
7114     \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7115     \clist_map_inline:Nn \l__biditools_class_patch_clist
7116     {
7117         \ApplyPatchToClass { ##1 } [ #2 ]
7118     }
7119     \clist_clear:N \l__biditools_class_patch_clist
7120 }
7121
7122 \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7123 {
7124     \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7125     \clist_map_inline:Nn \l__biditools_class_patch_clist
7126     {
7127         \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]
7128     }
7129     \clist_clear:N \l__biditools_class_patch_clist
7130 }
7131 \ExplSyntaxOff
7132
7133 \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7134 \newcommand*{\bidi@UnReplaceInput}
7135 {\undeclare@file@substitution}

```



```

7136 \newcommand*{\bidi@ReplacePackage}[2]{%
7137   \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7138 }
7139 \newcommand*{\bidi@UnReplacePackage}[1]{%
7140   \undeclare@file@substitution{#1.\@pkgextension}%
7141 }
7142 \newcommand*{\bidi@ReplaceClass}[2]{%
7143   \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7144 }
7145 \newcommand*{\bidi@UnReplaceClass}[1]{%
7146   \undeclare@file@substitution{#1.\@clsextension}%
7147 }
7148 \newcommand*{\bidi@BeforeFile}[1]{%
7149   \AddToHook{file/#1/before}%
7150 }
7151 \newcommand*{\bidi@AfterFile}[1]{%
7152   \AddToHook{file/#1/after}%
7153 }
7154 \newcommand*{\bidi@BeforeClass}[1]{%
7155   \bidi@BeforeFile{#1.\@clsextension}%
7156 }
7157 \newcommand*{\bidi@BeforePackage}[1]{%
7158   \bidi@BeforeFile{#1.\@pkgextension}%
7159 }
7160
7161 \long\def\bidi@protected@immediate@write#1#2#3{%
7162   \begingroup
7163     #2%
7164     \let\protect\@unexpandable@protect
7165     \edef\reserved@a{\immediate\write#1{#3}}%
7166     \reserved@a
7167   \endgroup
7168   \if@nobeak\ifvmode\nobeak\fi\fi
7169 }
7170
7171 \def\bidi@patch@BeforePackage#1{%
7172   \@ifpackageloaded{#1}{%
7173     \@firstofone
7174   }{%
7175     \AddToHook{package/#1/before}%
7176   }%
7177 }
7178
7179 \def\bidi@patch@AfterPackage#1{%
7180   \@ifpackageloaded{#1}{%
7181     \@firstofone
7182   }{%
7183     \AddToHook{package/#1/after}%
7184   }%
7185 }
7186
7187 \def\bidi@patch@AfterFile#1{%
7188   \IfFileLoadedTF{#1}{%
7189     \@firstofone

```



```

7190 }{%
7191   \AddToHook{file/#1/after}%
7192 }%
7193 }
7194
7195 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7196 {
7197   \bidi@patch@AfterFile{#1.#2}{%
7198     \ifnum\catcode`\@=11
7199       \input{#1-xetex-#3.def}%
7200     \else
7201       \bidi@storecatcode\@
7202       \makeatletter
7203       \input{#1-xetex-#3.def}%
7204       \bidi@restorecatcode\@
7205     \fi
7206   }%
7207 }
7208
7209 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7210 {
7211   \bidi@patch@AfterFile{#1.#3}{#2}%
7212 }
7213
7214 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7215 {
7216   \AddToHook{begindocument/before}{%
7217     \IfPackageLoadedF{#1}{%
7218       \ApplyPatchToFiles{#2}[#3][#4]%
7219     }%
7220   }
7221 }
7222
7223 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7224 {
7225   \AddToHook{begindocument/before}{%
7226     \IfPackageLoadedF{#2}{%
7227       \ifnum\catcode`\@=11
7228         \@ifclassloaded{#1}{%
7229           \input{#1-xetex-#3.def}%
7230         }{}%
7231       \else
7232         \bidi@storecatcode\@
7233         \makeatletter
7234         \@ifclassloaded{#1}{%
7235           \input{#1-xetex-#3.def}%
7236         }{}%
7237         \bidi@restorecatcode\@
7238       \fi
7239     }%
7240   }
7241 }
7242
7243 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }

```



```

7244 {
7245   \AddToHook{begindocument/before}{%
7246     \IfPackageLoadedF{#2}{%
7247       \IfPackageLoadedT{#1}{%
7248         \ifnum\catcode`\@=11
7249           \input{#1-xetex-#3.def}%
7250         \else
7251           \bidi@storecatcode\@
7252           \makeatletter
7253           \input{#1-xetex-#3.def}%
7254           \bidi@restorecatcode\@
7255         \fi
7256       }%
7257     }%
7258   }
7259 }
7260
7261 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7262 {
7263   \AddToHook{begindocument/before}{%
7264     \ifnum\catcode`\@=11
7265       \@ifpackageloaded{#1}{#2}{#3}%
7266     \else
7267       \bidi@storecatcode\@
7268       \makeatletter
7269       \@ifpackageloaded{#1}{#2}{#3}%
7270       \bidi@restorecatcode\@
7271     \fi
7272   }
7273 }
7274
7275 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7276 {
7277   \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7278 }
7279
7280 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7281 {
7282   \ApplyPatchIfPackageLoaded{#1}{}{#2}%
7283 }
7284
7285 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7286 {
7287   \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7288 }
7289
7290 \NewDocumentCommand \ApplyPatchCodeBeforePackage { m +m }
7291 {
7292   \bidi@patch@BeforePackage{#1}{#2}%
7293 }
7294
7295 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7296 {
7297   \bidi@patch@AfterPackage{#1}{#2}%

```



```

7298 }
7299
7300 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7301 {
7302     \@ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%
7303 }

```

53 File `bidituftefloat.sty`

```

7304 \NeedsTeXFormat{LaTeX2e}
7305 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7306 bidi implementation of tufte float]
7307 \RequirePackage{xifthen}
7308 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7309 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7310 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{@bidituftefloat@debug}}{\bid
7311 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1\@gobble}}
7312 \newboolean{@bidituftefloat@reversegeometry}
7313 \setboolean{@bidituftefloat@reversegeometry}{false}
7314 \DeclareOption{reversegeometry}{\setboolean{@bidituftefloat@reversegeometry}{true}}
7315 \newboolean{@bidituftefloat@a4paper}
7316 \DeclareOption{a4paper}{\setboolean{@bidituftefloat@a4paper}{true}}
7317 \newboolean{@bidituftefloat@b5paper}
7318 \DeclareOption{b5paper}{\setboolean{@bidituftefloat@b5paper}{true}}
7319 \newboolean{@bidituftefloat@symmetric}
7320 \newboolean{@bidituftefloat@twoside}
7321 \DeclareOption{twoside}{%
7322 \@twoside true \mparswitch true%
7323 \setboolean{@bidituftefloat@twoside}{true}%
7324 \setboolean{@bidituftefloat@symmetric}{true}%
7325 }
7326 \DeclareOption{oneside}{%
7327 \@twoside false \mparswitch false%
7328 \setboolean{@bidituftefloat@twoside}{false}%
7329 \setboolean{@bidituftefloat@symmetric}{false}%
7330 }
7331 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7332 \newboolean{@bidituftefloat@debug}
7333 \newcommand*{\@bidituftefloat@caption@justification}{\@bidituftefloat@justification@autodete
7334 \ProcessOptions
7335 %% Globally sets the length
7336 \newcommand*{\gsetlength}[2]{%
7337     \setlength{#1}{#2}%
7338     \global#1=#1\relax%
7339 }
7340
7341 %% Set the font sizes and baselines to match bidituftefloat's books
7342 \renewcommand\normalsize{%
7343     \@setfontsize\normalsize\@xpt{14}%
7344     \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7345     \abovedisplayshortskip \z@ \@plus3\p@
7346     \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7347     \belowdisplayskip \abovedisplayskip
7348     \let\@listi\@listI}

```




```

7349 \normalbaselineskip=14pt
7350 \normalsize
7351 \renewcommand\footnotesize{%
7352   \@setfontsize\footnotesize\@viipt{10}%
7353   \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7354   \abovedisplayshortskip \z@ \@plus\p@
7355   \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7356   \def\@listif{\leftmargin\leftmarginI
7357     \topsep 3\p@ \@plus\p@ \@minus\p@
7358     \parsep 2\p@ \@plus\p@ \@minus\p@
7359     \itemsep \parsep}%
7360   \belowdisplayskip \abovedisplayskip
7361 }
7362 %% Paragraph indentation and separation for marginal text
7363 \newcommand{\@biditytfloat@margin@par}{%
7364   \setlength{\RaggedRightParindent}{0.5pc}%
7365   \setlength{\JustifyingParindent}{0.5pc}%
7366   \setlength{\parindent}{0.5pc}%
7367   \setlength{\parskip}{0pt}%
7368 }
7369 \RequirePackage{ragged2e}
7370 \ifthenelse{\boolean{@biditytfloat@reversegeometry}}{%
7371 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7372 \ifthenelse{\boolean{@biditytfloat@a4paper}}
7373   {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpa
7374   {}
7375 \ifthenelse{\boolean{@biditytfloat@b5paper}}
7376   {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm,
7377   {}}%
7378 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7379 \ifthenelse{\boolean{@biditytfloat@a4paper}}
7380   {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7381   {}
7382 \ifthenelse{\boolean{@biditytfloat@b5paper}}
7383   {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
7384   {}
7385 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7386   {}
7387   {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
7388 \setlength\marginparpush{10pt}
7389 %% Font for margin items
7390 \newcommand{\@biditytfloat@marginfont}{\normalfont\footnotesize}
7391 \newcommand*{\@biditytfloat@captionfont}{\@biditytfloat@marginfont}
7392 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@biditytfloat@captionfont}{#1}}
7393 \newcommand{\@biditytfloat@justification}{\justifying}%
7394 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7395 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7396 \newboolean{@biditytfloat@changepage}
7397 \IfFileExists{changepage.sty}{%
7398   \biditytfloatDebugInfoNL{Found changepage.sty}
7399   \RequirePackage[strict]{changepage}
7400   \setboolean{@biditytfloat@changepage}{true}
7401 }{%
7402   \biditytfloatDebugInfoNL{Found chngpage.sty}

```



```

7403 \RequirePackage[strict]{chngepage}
7404 \setboolean{@biditytfloat@change@page}{false}
7405 }
7406 \newboolean{@biditytfloat@odd@page}
7407 \setboolean{@biditytfloat@odd@page}{true}
7408 \newcommand*{\@biditytfloat@checkoddpage}{%
7409 \checkoddpage%
7410 \ifthenelse{\boolean{@biditytfloat@change@page}}{%
7411 \ifoddpage%
7412 \setboolean{@biditytfloat@odd@page}{true}%
7413 \else%
7414 \setboolean{@biditytfloat@odd@page}{false}%
7415 \fi%
7416 }{%
7417 \ifcoddpage%
7418 \setboolean{@biditytfloat@odd@page}{true}%
7419 \else%
7420 \setboolean{@biditytfloat@odd@page}{false}%
7421 \fi%
7422 }%
7423 }
7424 \newlength{\@biditytfloat@overhang}% used by the fullwidth environment and the running head
7425 \newlength{\@biditytfloat@fullwidth}
7426 \newlength{\@biditytfloat@caption@fill}
7427 \newcommand{\biditytfloatRecalculate}{%
7428 \setlength{\@biditytfloat@overhang}{\marginparwidth}
7429 \addtolength{\@biditytfloat@overhang}{\marginparsep}
7430
7431 \setlength{\@biditytfloat@fullwidth}{\textwidth}
7432 \addtolength{\@biditytfloat@fullwidth}{\marginparsep}
7433 \addtolength{\@biditytfloat@fullwidth}{\marginparwidth}
7434
7435 \setlength{\@biditytfloat@caption@fill}{\textwidth}
7436 \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
7437 }
7438 \AtBeginDocument{\biditytfloatRecalculate}
7439 \RequirePackage{optparams}% provides multiple optional arguments for commands
7440 \RequirePackage{placeins}
7441 \newsavebox{\@biditytfloat@margin@floatbox}
7442 \newenvironment{@biditytfloat@margin@float}[2][-1.2ex]%
7443 {\FloatBarrier% process all floats before this point so the figure/table numbers stay in o
7444 \begin{lrbox}{\@biditytfloat@margin@floatbox}%
7445 \begin{minipage}{\marginparwidth}%
7446 \@biditytfloat@caption@font%
7447 \def\@capttype{#2}%
7448 \hbox{\vspace*{#1}%
7449 \@biditytfloat@caption@justification%
7450 \@biditytfloat@margin@par%
7451 \noindent%
7452 }
7453 {\end{minipage}%
7454 \end{lrbox}%
7455 \marginpar{\usebox{\@biditytfloat@margin@floatbox}}%
7456 }

```



```

7457 \newenvironment{marginfigure}[1] [-1.2ex]%
7458   {\begin{@biditytfloat@margin@float}[#1]{figure}}
7459   {\end{@biditytfloat@margin@float}}
7460 \newenvironment{marginable}[1] [-1.2ex]%
7461   {\begin{@biditytfloat@margin@float}[#1]{table}}
7462   {\end{@biditytfloat@margin@float}}
7463 \newcommand*{\@biditytfloat@justification@autodetect}{\justifying}%
7464
7465 \newcommand{\@biditytfloat@float@debug@info}{}% contains debug info generated as the float
7466 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7467   \ifthenelse{\equal{\@biditytfloat@float@debug@info}{}}{%
7468     {\def\@biditytfloat@float@debug@info{#1}}%
7469     {\g@addto@macro\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7470 }
7471 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7472 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@debug
7473 \newboolean{@biditytfloat@float@recto}
7474 \newcommand{\forcerecto@float}{\GlobalSetBoolean{@biditytfloat@float@recto}{true}\@bidityt
7475 \newcommand{\forceverso@float}{\GlobalSetBoolean{@biditytfloat@float@recto}{false}\@bidityt
7476 \newsavebox{\@biditytfloat@figure@box}
7477 \newsavebox{\@biditytfloat@caption@box}
7478 \let\@biditytfloat@orig@float\@float
7479 \let\@biditytfloat@orig@endfloat\endfloat
7480 \newlength{\@biditytfloat@caption@vertical@offset}
7481 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
7482 \newcommand{\@biditytfloat@stored@shortcaption}{%
7483 \newcommand{\@biditytfloat@stored@caption}{%
7484 \newcommand{\@biditytfloat@stored@label}{%
7485 \long\def\@biditytfloat@caption{#1}[#2]#3{%
7486   \ifthenelse{\isempty{#1}}{%
7487     {\gdef\@biditytfloat@stored@shortcaption{#3}}%
7488     {\gdef\@biditytfloat@stored@shortcaption{#1}}%
7489   \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to l
7490   \gdef\@biditytfloat@stored@caption{#3}%
7491 }
7492 \newcommand{\@biditytfloat@label}[1]{%
7493   \gdef\@biditytfloat@stored@label{#1}%
7494 }
7495 \newcommand{\@biditytfloat@fps}{%
7496 \newboolean{@biditytfloat@float@star}
7497 \newlength{\@biditytfloat@float@contents@width}
7498 \newenvironment{@biditytfloat@float}[3] [htbp]%
7499   {% begin @biditytfloat@float
7500     % Should this float be full-width or just text-width?
7501     \ifthenelse{\equal{#3}{star}}{%
7502       {\GlobalSetBoolean{@biditytfloat@float@star}{true}}%
7503       {\GlobalSetBoolean{@biditytfloat@float@star}{false}}%
7504     % Check page side (recto/verso) and store detected value -- can be overridden in environm
7505     \@biditytfloat@checkoddpag%
7506     \ifthenelse{\boolean{@biditytfloat@odd@page}}{%
7507       {\GlobalSetBoolean{@biditytfloat@float@recto}{true}\@biditytfloat@float@debug{Dete
7508       {\GlobalSetBoolean{@biditytfloat@float@recto}{false}\@biditytfloat@float@debug{Det
7509     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
7510     \renewcommand{\@biditytfloat@fps}{#1}%

```



```

7511 \@biditytfloat@float@debug{Allowed positions: [#1]}%
7512 \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
7513   {\renewcommand{\floatalignment}{b}\@biditytfloat@float@debug{Presumed position: [bot
7514   {\renewcommand{\floatalignment}{t}\@biditytfloat@float@debug{Presumed position: [top
7515 % Capture the contents of the \caption and \label commands to use later
7516 \global\let\@biditytfloat@orig@caption\caption%
7517 \global\let\@biditytfloat@orig@label\label%
7518 \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[Opt]}}%
7519 \renewcommand{\label}[1]{\@biditytfloat@label{##1}}%
7520 % Handle subfigure package compatibility
7521 \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
7522   \bidi@patchcmd{\subfigure}{%
7523     \let\subfig@oldlabel=\label
7524   }{%
7525     \let\subfig@oldlabel=\@biditytfloat@orig@label
7526   }
7527   {}
7528   {}
7529   \let\subtable=\subfigure
7530 }{}% subfigure package is not loaded
7531 \@biditytfloat@orig@float{#2}[#1]%
7532 \ifthenelse{\boolean{\@biditytfloat@float@star}}%
7533   {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7534   {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7535 \begin{lrbox}{\@biditytfloat@figure@box}%
7536 \begin{minipage}[\floatalignment]{\@biditytfloat@float@contents@width}\hbox{%
7537 }{% end \@biditytfloat@float
7538   \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{} a
7539   \end{minipage}%
7540 \end{lrbox}%
7541 % build the caption box
7542 \begin{lrbox}{\@biditytfloat@caption@box}%
7543   \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7544     \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}{}}{\@biditytfloat@orig@cap
7545     \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}{}}{\@biditytfloat@orig@label
7546     \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7547   \end{minipage}%
7548 \end{lrbox}%
7549 % now typeset the stored boxes
7550 \begin{fullwidth}%
7551   \begin{minipage}[\floatalignment]{\linewidth}%
7552     \ifthenelse{\boolean{\@biditytfloat@float@star}}%
7553       {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7554       {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7555     \end{minipage}%
7556 \end{fullwidth}%
7557 \@biditytfloat@orig@endfloat% end original LaTeX float environment
7558 % output debug info
7559 \ifthenelse{\boolean{\@biditytfloat@debug}}{%
7560   \typeout{^^J^^J----- biditytfloat package float information -----}%
7561   \ifthenelse{\equal{\@biditytfloat@stored@label}{}}%
7562     {\typeout{Warning: Float unlabeled!}}%
7563     {\typeout{Float label: [\@biditytfloat@stored@label]}}%
7564   \typeout{Page number: [\thepage]}%

```



```

7565 \def\MessageBreak{^^J}%
7566 \typeout{\@biditytfloat@float@debug@info}%
7567 \ifthenelse{\boolean{@biditytfloat@symmetric}}%
7568   {\typeout{Symmetric: [true]}}%
7569   {\typeout{Symmetric: [false]}}%
7570 \typeout{-----^^J^^J}%
7571 }{}%
7572 % reset commands and temp boxes and captions
7573 \gdef\@biditytfloat@float@debug@info{}%
7574 \let\caption\@biditytfloat@orig@caption%
7575 \let\label\@biditytfloat@orig@label%
7576 \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%
7577 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
7578 \gdef\@biditytfloat@stored@shortcaption{}%
7579 \gdef\@biditytfloat@stored@caption{}%
7580 \gdef\@biditytfloat@stored@label{}%
7581 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
7582 }
7583 \newcommand{\@biditytfloat@float@textwidth}[3][Opt]{%
7584 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@recto}
7585 % asymmetric or page is odd, so caption is on the right
7586 \hbox{%
7587   \usebox{#2}%
7588   \hspace{\marginparsep}%
7589   \smash{\raisebox{#1}{\usebox{#3}}}%
7590 }
7591 \@biditytfloat@float@debug{Caption position: [right]}%
7592 }{% symmetric pages and page is even, so caption is on the left
7593 \hbox{%
7594   \smash{\raisebox{#1}{\usebox{#3}}}%
7595   \hspace{\marginparsep}%
7596   \usebox{#2}%
7597 }
7598 \@biditytfloat@float@debug{Caption position: [left]}%
7599 }%
7600 }
7601 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
7602 \ifthenelse{\equal{\floatalignment}{b}}%
7603   {% place caption above figure
7604     \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@recto}
7605     {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug}
7606     {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug}
7607   }{% place caption below figure
7608     \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@recto}
7609     {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug}
7610     {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug}
7611   }%
7612 }
7613 \renewenvironment{figure}[1][htbp]%
7614   {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{}}
7615   {\end{@biditytfloat@float}}
7616 \renewenvironment{table}[1][htbp]
7617   {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{}}
7618   {\end{@biditytfloat@float}}

```



```

7619 \renewenvironment{figure*}[1][htbp]%
7620   {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
7621   {\end{@biditytfloat@float}}
7622 \renewenvironment{table*}[1][htbp]%
7623   {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}
7624   {\end{@biditytfloat@float}}
7625 \newenvironment{fullwidth}
7626   {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7627     {\ifthenelse{\boolean{@biditytfloat@changepage}}{\begin{adjustwidth*}{-}{-@biditytfloat@overhang}}%
7628     {\begin{adjustwidth}{-}{-@biditytfloat@overhang}}}%
7629   }%
7630   {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7631     {\ifthenelse{\boolean{@biditytfloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}%
7632     {\end{adjustwidth}}}%
7633   }
7634 \long\def\@caption#1[#2]#3{%
7635   \par%
7636   \addcontentsline{\csname ext@#1\endcsname}{#1}%
7637     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7638   \begingroup%
7639     \@parboxrestore%
7640     \if@minipage%
7641       \setminipage%
7642     \fi%
7643     \@biditytfloat@caption@font\@biditytfloat@caption@justification%
7644     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7645     %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7646   \endgroup}
7647 %%
7648 % Turns newlines into spaces. Based on code from the 'titlesec' package.
7649 \DeclareRobustCommand{\@biditytfloat@newlinetospace}{%
7650   \ifstar{\@biditytfloat@newlinetospace@i}{\@biditytfloat@newlinetospace@i}%
7651 }
7652 \def\@biditytfloat@newlinetospace@i{%
7653   \ifdim\lastskip>z@\else\space\fi
7654   \ignorespaces%
7655 }
7656 \DeclareRobustCommand{\newlinetospace}[1]{%
7657   \let\@biditytfloat@orig@cr\% save the original meaning of \
7658   \def\@biditytfloat@newlinetospace{% turn \ and \* into \space
7659   \let\newline\% turn \newline into \space
7660   #1%
7661   \let\@biditytfloat@orig@cr\% revert to original meaning of \
7662 }
7663 \RequirePackage{fancyhdr}
7664 \pagestyle{fancy}
7665 \AtBeginDocument{%
7666   \ifthenelse{\boolean{@biditytfloat@symmetric}}
7667     {\fancyhfoffset[LE,RO]{\@biditytfloat@overhang}}
7668     {\fancyhfoffset[RE,RO]{\@biditytfloat@overhang}}
7669 }
7670 % The running heads/feet don't have rules
7671 \renewcommand{\headrulewidth}{0pt}
7672 \renewcommand{\footrulewidth}{0pt}

```



```

7673 % The 'fancy' page style is the default style for all pages.
7674 \fancyhf{} % clear header and footer fields
7675     \ifthenelse{\boolean{@biditytuftefloat@symmetric}}{
7676         {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7677         \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7678         {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}}%
7679 % The 'plain' page style is used on chapter opening pages.
7680 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7681 % bottom of pages -- the folios are unexpressed.
7682 \fancypagestyle{plain}{
7683     \fancyhf{} % clear header and footer fields
7684     % Uncomment the following five lines of code if you want the opening page
7685     % of the chapter to express the folio in the lower outside corner.
7686     % \ifthenelse{\boolean{@biditytuftefloat@symmetric}}{
7687     %     {\fancyfoot[LE,RO]{\thepage}}
7688     %     {\fancyfoot[RE,RO]{\thepage}}
7689 }
7690 % The 'empty' page style suppresses all headers and footers.
7691 % It's used on title pages and 'intentionally blank' pages.
7692 \fancypagestyle{empty}{
7693     \fancyhf{} % clear header and footer fields
7694 }
7695 \def\morefloats{% provides a total of 52 floats
7696     \ifthenelse{\isundefined{\bx@S}}{%
7697         \biditytuftefloatDebugInfoNL{Adding 34 more float slots.}
7698         \newinsert\bx@S
7699         \newinsert\bx@T
7700         \newinsert\bx@U
7701         \newinsert\bx@V
7702         \newinsert\bx@W
7703         \newinsert\bx@X
7704         \newinsert\bx@Y
7705         \newinsert\bx@Z
7706         \newinsert\bx@a
7707         \newinsert\bx@b
7708         \newinsert\bx@c
7709         \newinsert\bx@d
7710         \newinsert\bx@e
7711         \newinsert\bx@f
7712         \newinsert\bx@g
7713         \newinsert\bx@h
7714         \newinsert\bx@i
7715         \newinsert\bx@j
7716         \newinsert\bx@k
7717         \newinsert\bx@l
7718         \newinsert\bx@m
7719         \newinsert\bx@n
7720         \newinsert\bx@o
7721         \newinsert\bx@p
7722         \newinsert\bx@q
7723         \newinsert\bx@r
7724         \newinsert\bx@s
7725         \newinsert\bx@t
7726         \newinsert\bx@u

```




```

7727 \newinsert\bx@v
7728 \newinsert\bx@w
7729 \newinsert\bx@x
7730 \newinsert\bx@y
7731 \newinsert\bx@z
7732 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7733 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7734 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7735 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7736 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7737 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7738 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7739 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7740 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7741 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7742 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7743 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7744 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7745 \ifthenelse{\isundefined{\bx@AA}}{%
7746 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7747 \newinsert\bx@AA
7748 \newinsert\bx@BB
7749 \newinsert\bx@CC
7750 \newinsert\bx@DD
7751 \newinsert\bx@EE
7752 \newinsert\bx@FF
7753 \newinsert\bx@GG
7754 \newinsert\bx@HH
7755 \newinsert\bx@II
7756 \newinsert\bx@JJ
7757 \newinsert\bx@KK
7758 \newinsert\bx@LL
7759 \newinsert\bx@MM
7760 \newinsert\bx@NN
7761 \newinsert\bx@OO
7762 \newinsert\bx@PP
7763 \newinsert\bx@QQ
7764 \newinsert\bx@RR
7765 \newinsert\bx@SS
7766 \newinsert\bx@TT
7767 \newinsert\bx@UU
7768 \newinsert\bx@VV
7769 \newinsert\bx@WW
7770 \newinsert\bx@XX
7771 \newinsert\bx@YY
7772 \newinsert\bx@ZZ
7773 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7774 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7775 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7776 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7777 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7778 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7779 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7780 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j

```




```

7781 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7782 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7783 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7784 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7785 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7786 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7787 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7788 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7789 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7790 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7791 }{%
7792 \biditytfloatError{You may only call \string\morefloats\space twice. See the\Message
7793 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or
7794 }%
7795 }%
7796 }
7797 \newboolean{@biditytfloat@packages@subfigure}
7798 \setboolean{@biditytfloat@packages@subfigure}{false}
7799 \AtBeginDocument{%
7800 \@ifpackageloaded{subfigure}
7801 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7802 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}}%
7803 }
7804 \AtBeginDocument{%
7805 \@ifpackageloaded{float}{%
7806 % Save the redefined float environment (instead of the LaTeX float environment)
7807 \let\@biditytfloat@orig@float\@float
7808 \let\@biditytfloat@orig@endfloat\endfloat
7809
7810 % Define Tuftian float styles (with the caption in the margin)
7811 \newcommand{\floatc@biditytfloatplain}[2]{%
7812 \begin{lrbox}{\@biditytfloat@caption@box}%
7813 \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7814 \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
7815 \end{minipage}%
7816 \end{lrbox}%
7817 \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}}%
7818 }
7819 \newcommand{\fs@biditytfloatplain}{%
7820 \def\@fs@cfont{\@biditytfloat@caption@font}%
7821 \let\@fs@capt\floatc@biditytfloatplain%
7822 \def\@fs@pre{}%
7823 \def\@fs@post{}%
7824 \def\@fs@mid{}%
7825 \let\@fs@iftopcapt@iftrue%
7826 }
7827 \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
7828 \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
7829 \newcommand\floatc@biditytfloatruled[2]{%
7830 {\@fs@cfont #1} #2\par%
7831 }
7832 \newcommand\fs@biditytfloatruled{%
7833 \def\@fs@cfont{\@biditytfloat@caption@font}%
7834 \let\@fs@capt\floatc@biditytfloatplain%

```



```

7835 \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7836 \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7837 \def\@fs@mid{}%
7838 \let\@fs@iftopcapt\iftrue%
7839 }
7840 \newcommand\fs@biditytfloatboxed{%
7841 \def\@fs@cfont{}%
7842 \let\@fs@capt\floatc@biditytfloatplain%
7843 \def\@fs@pre{%
7844 \setbox\@currbox\vbox{\hbadness10000
7845 \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7846 \hrule \hbox to\hsize{\vrule\kern3pt
7847 \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7848 }%
7849 \def\@fs@mid{\kern2pt}%
7850 \def\@fs@post{}%
7851 \let\@fs@iftopcapt\iftrue%
7852 }
7853 }{%
7854 % Nothing to do
7855 }
7856 }
7857 \AtBeginDocument{%
7858 \ifpackageloaded{algorithm}{%
7859 % Set the float style to the Tufte version
7860 \ifthenelse{equal{ALG@floatstyle}{plain}}{OR\equal{ALG@floatstyle}{ruled}}{OR\equal{AL
7861 \biditytfloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBrea
7862 \floatstyle{biditytfloat\ALG@floatstyle}%
7863 \restylefloat{algorithm}%
7864 }{}}%
7865 }{%
7866 % Nothing to do
7867 }
7868 }
7869 \PassOptionsToPackage{caption=false}{subfig}

```

54 File biditytfloatsidenote.sty

```

7870 \NeedsTeXFormat{LaTeX2e}
7871 \ProvidesPackage{biditytfloatsidenote}[2017/08/09 v0.4
7872 bidi implementation of tufte sidenote]
7873 \RequirePackage{xifthen}
7874 \RequirePackage{ragged2e}
7875 \RequirePackage{setspace}
7876 \RequirePackage{biditytools}
7877 \def\biditytfloatsidenotemarginpar{%
7878 \ifhmode
7879 \@bsphack
7880 \@floatpenalty -\@Mii
7881 \else
7882 \@floatpenalty -\@Miii
7883 \fi
7884 \ifinner
7885 \@parmoderr

```



```

7886 \floatpenalty\z@
7887 \else
7888 \@next\@currbox\@freelist{}\{}%
7889 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7890 {\floatpenalty\z@
7891 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7892 \fi
7893 \ifnextchar [\@bidityftesidenotexmpar\@bidityftesidenoteympar}
7894 \long\def\@bidityftesidenotexmpar[#1]#2{%
7895 \@bidityftesidenotesavemarbox\@marbox{#1}%
7896 \@bidityftesidenotesavemarbox\@currbox{#2}%
7897 \@xympar}
7898 \long\def\@bidityftesidenoteympar#1{%
7899 \@bidityftesidenotesavemarbox\@marbox{#1}%
7900 \global\setbox\@currbox\copy\@marbox
7901 \@xympar}
7902 \long\def \@bidityftesidenotesavemarbox #1#2{%
7903 \global\setbox #1%
7904 \color@vbox
7905 \vtop{%
7906 \hsize\marginparwidth
7907 \@parboxrestore
7908 \@bidityftesidenotemarginparreset
7909 #2%
7910 \@minipagefalse
7911 \outer@nobreak
7912 }%
7913 \color@endbox
7914 }
7915 \def \@bidityftesidenotemarginparreset {%
7916 \reset@font
7917 \normalsize
7918 \@minipagetrue
7919 \everypar{\@minipagefalse\everypar{}\if@RTL@footnote\beginR\else\beginL\fi}%
7920 }
7921 \def\LTRbidityftesidenotemarginpar{%
7922 \ifhmode
7923 \@bsphack
7924 \floatpenalty -\@Mii
7925 \else
7926 \floatpenalty-\@Miii
7927 \fi
7928 \ifinner
7929 \parmoderr
7930 \floatpenalty\z@
7931 \else
7932 \@next\@currbox\@freelist{}\{}%
7933 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7934 {\floatpenalty\z@
7935 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7936 \fi
7937 \ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7938 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
7939 \@LTRbidityftesidenotesavemarbox\@marbox{#1}%

```



```

7940 \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7941 \@xympar}
7942 \long\def\@LTRbidityftesidenoteympar#1{%
7943 \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7944 \global\setbox\@currbox\copy\@marbox
7945 \@xympar}
7946 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7947 \global\setbox #1%
7948 \color@vbox
7949 \vtop{%
7950 \hsize\marginparwidth
7951 \@parboxrestore
7952 \@LTRbidityftesidenotemarginparreset
7953 #2%
7954 \@minipagefalse
7955 \outer@nobreak
7956 }%
7957 \color@endbox
7958 }
7959 \def \@LTRbidityftesidenotemarginparreset {%
7960 \reset@font
7961 \normalsize
7962 \@minipagetrue
7963 \everypar{\@minipagefalse\everypar{}\beginL}%
7964 }
7965 \def\RTLbidityftesidenotemarginpar{%
7966 \ifhmode
7967 \@bsphack
7968 \floatpenalty -\@Mii
7969 \else
7970 \floatpenalty-\@Miii
7971 \fi
7972 \ifinner
7973 \@parmoderr
7974 \floatpenalty\z@
7975 \else
7976 \@next\@currbox\@freelist{}\}%
7977 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7978 {\floatpenalty\z@
7979 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7980 \fi
7981 \ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteympar}
7982 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
7983 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7984 \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
7985 \@xympar}
7986 \long\def\@RTLbidityftesidenoteympar#1{%
7987 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7988 \global\setbox\@currbox\copy\@marbox
7989 \@xympar}
7990 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
7991 \global\setbox #1%
7992 \color@vbox
7993 \vtop{%

```



```

7994         \hsize\marginparwidth
7995         \@parboxrestore
7996         \@RTLbidityftesidenotemarginparreset
7997         #2%
7998         \@minipagefalse
7999         \outer@nobreak
8000     }%
8001     \color@endbox
8002 }
8003 \def \@RTLbidityftesidenotemarginparreset {%
8004     \reset@font
8005     \normalsize
8006     \@minipagetrue
8007     \everypar{\@minipagefalse\everypar{}\beginR}%
8008 }
8009 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
8010 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
8011 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
8012 \newcommand*{\@bidityftesidenote@sidenote@font}{\@bidityftesidenote@marginfont}
8013 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
8014 \newcommand*{\@bidityftesidenote@RTLSidenote@font}{\@bidityftesidenote@RTLmarginfont}
8015 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}
8016 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
8017 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}
8018 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
8019 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
8020 \newcommand*{\@bidityftesidenote@RTLcitation@font}{\@bidityftesidenote@RTLmarginfont}
8021 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
8022 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
8023 \newcommand*{\setRTLSidenotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLSidenote@font}{#1}}
8024 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
8025 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
8026 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
8027 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}
8028 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{#1}}
8029 \newcommand*{\setRTLcitationfont}[1]{\renewcommand*{\@bidityftesidenote@RTLcitation@font}{#1}}
8030 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@autodetect}
8031 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@autodetect}
8032 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@autodetect}
8033 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
8034 \newcommand{\@bidityftesidenote@margin@par}{%
8035     \setlength{\RaggedRightParindent}{0.5pc}%
8036     \setlength{\JustifyingParindent}{0.5pc}%
8037     \setlength{\parindent}{0.5pc}%
8038     \setlength{\parskip}{0pt}%
8039 }
8040 %%
8041 % Globally sets the length
8042 \@ifundefined{gsetlength}{%
8043 \newcommand*{gsetlength}[2]{%
8044     \setlength{#1}{#2}%
8045     \global#1=#1\relax%
8046 }%
8047 }{}

```



```

8048
8049 %%
8050 % A function that removes leading and trailing spaces from the supplied macro.
8051 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
8052 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
8053 % being trimmed of leading and trailing white space.
8054 \catcode\Q=3
8055 \def\@bidityftesidenote@trim@spaces#1{%
8056   % Use grouping to emulate a multi-token afterassignment queue
8057   \begingroup%
8058   % Put \toks 0 {' into the afterassignment queue
8059   \aftergroup\toks\aftergroup0\aftergroup{%
8060   % Apply \trimb to the replacement text of #1, adding a leading
8061   % \noexpand to prevent brace stripping and to serve another purpose
8062   % later.
8063   \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
8064   % Transfer the trimmed text back into #1.
8065   \edef#1{\the\toks0}%
8066 }
8067 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
8068 % clean up any leftover bizarre Qs, and trim a leading space. In
8069 % order for \trimc to work properly we need to put back a Q first.
8070 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
8071 % Execute \vfuzz assignment to remove leading space; the \noexpand
8072 % will now prevent unwanted expansion of a macro or other expandable
8073 % token at the beginning of the trimmed text. The \endgroup will feed
8074 % in the \aftergroup tokens after the \vfuzz assignment is completed.
8075 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
8076 \catcode\Q=11
8077 %%
8078 % Citations should go in the margin as sidenotes
8079
8080 \RequirePackage{natbib}
8081 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography env
8082 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
8083 \renewcommand\BR@b@bibitem[2] [] {%
8084   \ifthenelse{\isempty{#1}}{%
8085     {\BR@bibitem{#2}}%
8086     {\BR@bibitem{#1}{#2}}%
8087   \BR@c@bibitem{#2}%
8088 }
8089 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
8090 %%
8091 % Normal \cite behavior
8092 \newcounter{@bidityftesidenote@num@bibkeys}%
8093 \newcommand{\@bidityftesidenote@normal@cite}[2] [Opt] {%
8094   % Snag the last bibentry in the list for later comparison
8095   \let\@temp@last@bibkey\@empty%
8096   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8097   \sidenote[] [#1]{%
8098     % Loop through all the bibentries, separating them with semicolons and spaces
8099     \normalsize\normalfont\@bidityftesidenote@citation@font%
8100     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8101     \@for\@temp@bibkeyx:=#2\do{%

```



```

8102 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8103   {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{\and\ }%
8104     \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8105     \bibentry{\@temp@bibkeyx}}%
8106   {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8107     \bibentry{\@temp@bibkeyx};\ }%
8108   \stepcounter{\@bituftesidenote@num@bibkeys}%
8109 }%
8110 }%
8111 }
8112 \newcommand{\@bituftelTRsidenote@normal@cite}[2][Opt]{%
8113   % Snag the last bibentry in the list for later comparison
8114   \let\@temp@last@bibkey\@empty%
8115   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8116   \LTRsidenote[] [#1]{%
8117     % Loop through all the bibentries, separating them with semicolons and spaces
8118     \normalsize\normalfont\@bituftesidenote@LTRcitation@font%
8119     \setcounter{\@bituftesidenote@num@bibkeys}{0}%
8120     \@for\@temp@bibkeyx:=#2\do{%
8121       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8122         {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{\and\ }%
8123           \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8124           \bibentry{\@temp@bibkeyx}}%
8125         {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8126           \bibentry{\@temp@bibkeyx};\ }%
8127         \stepcounter{\@bituftesidenote@num@bibkeys}%
8128       }%
8129     }%
8130   }
8131 \newcommand{\@bituftertLsidenote@normal@cite}[2][Opt]{%
8132   % Snag the last bibentry in the list for later comparison
8133   \let\@temp@last@bibkey\@empty%
8134   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8135   \RTLsidenote[] [#1]{%
8136     % Loop through all the bibentries, separating them with semicolons and spaces
8137     \normalsize\normalfont\@bituftesidenote@citation@font%
8138     \setcounter{\@bituftesidenote@num@bibkeys}{0}%
8139     \@for\@temp@bibkeyx:=#2\do{%
8140       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8141         {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{\and\ }%
8142           \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8143           \bibentry{\@temp@bibkeyx}}%
8144         {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8145           \bibentry{\@temp@bibkeyx};\ }%
8146         \stepcounter{\@bituftesidenote@num@bibkeys}%
8147       }%
8148     }%
8149   }
8150 }%
8151 % Macros for holding the list of cite keys until after the \sidenote
8152 \gdef\@bituftesidenote@citations{}% list of cite keys
8153 \newcommand{\@bituftesidenote@add@citation}[1]{\relax% adds a new bibkey to the list of cite
8154   \ifx\@bituftesidenote@citations\@empty\else
8155     \g@addto@macro\@bituftesidenote@citations{,}% separate by commas

```



```

8156 \fi
8157 \g@addto@macro\@bidityftesidenote@citations{#1}
8158 }
8159 \newcommand{\@bidityftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
8160 % Snag the last bibentry in the list for later comparison
8161 \let\@temp@last@bibkey\@empty%
8162 \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
8163 \marginpar{%
8164 \hbox{}\vspace*{#1}%
8165 \@bidityftesidenote@citation@font%
8166 \@bidityftesidenote@citation@justification%
8167 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8168 \vspace*{-1\baselineskip}%
8169 % Loop through all the bibentries, separating them with semicolons and spaces
8170 \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8171 \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
8172 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8173 {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8174 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8175 \bibentry{\@temp@bibkeyx}}%
8176 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8177 \bibentry{\@temp@bibkeyx};\ }%
8178 \stepcounter{@bidityftesidenote@num@bibkeys}%
8179 }%
8180 }%
8181 }
8182 %%
8183 % \cite behavior when executed within a sidenote
8184 \newcommand{\@bidityftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8185 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
8186 \@bidityftesidenote@add@citation{#1}
8187 }
8188 %%
8189 % Set the default \cite style. This is set and reset by the \sidenote command.
8190 \let\cite\@bidityftesidenote@normal@cite
8191 \let\LTRcite\@bidityfteLTRsidenote@normal@cite
8192 \let\RTLcite\@bidityfteRTLsidenote@normal@cite
8193 %%
8194 % Transform existing \footnotes into \sidenotes
8195 % Sidenote: ``Where God meant footnotes to go.''' --bidityftesidenote
8196 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argu
8197 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8198 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8199 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8200 % sidenote's text block.
8201 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@textsuperscript{\@bidityftesidenote
8202 % Set the in-text footnote mark in the same typeface as the body text itself.
8203 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote
8204 \providecommand*\@multiplefootnotemark}{\hbox{\@textsuperscript{\normalfont\footnote
8205 \providecommand*\@multifootsep}{,}}
8206 \bidi@patch@AfterPackage{bidi}{%
8207 \renewcommand{\@footnotemark}{%
8208 \leavevmode%
8209 \ifhmode%

```




```

8210 \edef\@x@sf{\the\spacefactor}%
8211 \@bidityftesidenote@check@multiple@sidenotes%
8212 \nobreak%
8213 \fi%
8214 \@makefnmark%
8215 \ifhmode\spacefactor\@x@sf\fi%
8216 \relax%
8217 }%
8218 }
8219 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
8220 \ifdim\lastkern=\multiplefootnotemarker\relax%
8221 \edef\@x@sf{\the\spacefactor}%
8222 \unkern%
8223 \textsuperscript{\multfootsep}%
8224 \spacefactor\@x@sf\relax%
8225 \fi
8226 }
8227 \bidi@patch@AfterPackage{bidi}{%
8228 \renewcommand\@footnotetext[2][0pt]{%
8229 \bidityftesidenotemarginpar{%
8230 \hbox{}\vspace*{#1}%
8231 \def\baselinestretch {\setspace@singlespace}%
8232 \reset@font%
8233 \bidi@font@footnotetext@font% \reset@font\footnotesize%
8234 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8235 \vspace*{-1\baselineskip}\noindent%
8236 \protected@edef\@currentlabel{%
8237 \csname p@footnote\endcsname\@thefnmark%
8238 }%
8239 \color@begingroup%
8240 \@makefnmark%
8241 \ignorespaces#2%
8242 }%
8243 \color@endgroup%
8244 }%
8245 }%
8246 \renewcommand\@LTRfootnotetext[2][0pt]{%
8247 \LTRbidityftesidenotemarginpar{%
8248 \hbox{}\vspace*{#1}%
8249 \def\baselinestretch {\setspace@singlespace}%
8250 \reset@font%
8251 \bidi@font@LTRfootnotetext@font% \reset@font\footnotesize%
8252 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8253 \vspace*{-1\baselineskip}\noindent%
8254 \protected@edef\@currentlabel{%
8255 \csname p@footnote\endcsname\@thefnmark%
8256 }%
8257 \color@begingroup%
8258 \@makefnmark%
8259 \ignorespaces#2%
8260 }%
8261 \color@endgroup%
8262 }%
8263 }%

```



```

8264 \renewcommand\RTLfootnotetext[2][Opt]{%
8265   \RTLbidityftesidenotemarginpar{%
8266     \hbox{}\vspace*{#1}%
8267     \def\baselinestretch {\setspace@singlespace}%
8268     \reset@font%
8269     \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
8270     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8271     \vspace*{-1\baselineskip}\noindent%
8272     \protected@edef\@currentlabel{%
8273       \csname p@footnote\endcsname\@thefnmark%
8274     }%
8275     \color@begingroup%
8276     \@makefnintext{%
8277       \ignorespaces#2%
8278     }%
8279     \color@endgroup%
8280   }%
8281 }%
8282 }
8283 %
8284 % Define \sidenote command. Can handle \cite.
8285 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
8286 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8287 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8288 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8289   \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8290   \gdef\@bidityftesidenote@citations{}% clear out any old citations
8291   \ifthenelse{\NOT\isempty{#2}}{%
8292     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8293   }{%
8294     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8295   }%
8296   \ifthenelse{\isempty{#1}}{%
8297     % no specific footnote number provided
8298     \stepcounter\@mpfn%
8299     \protected@xdef\@thefnmark{\thempfn}%
8300     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8301   }{%
8302     % specific footnote number provided
8303     \begingroup%
8304       \csname c@\@mpfn\endcsname #1\relax%
8305       \unrestored@protected@xdef\@thefnmark{\thempfn}%
8306     \endgroup%
8307     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8308   }%
8309   \@bidityftesidenote@print@citations% print any citations
8310   \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8311   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8312   \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8313   \unskip\ignorespaces% remove extra white space
8314   \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8315   \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8316 }
8317 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%

```



```

8318 \let\cite\@bidityftesidenote@infootnote@cite%    use the in-sidenote \cite command
8319 \gdef\@bidityftesidenote@citations{}%            clear out any old citations
8320 \ifthenelse{\NOT\isempty{#2}}{%
8321     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8322 }{%
8323     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8324 }%
8325 \ifthenelse{\isempty{#1}}{%
8326     % no specific footnote number provided
8327     \stepcounter\@mpfn%
8328     \protected@xdef\@thefnmark{\thempfn}%
8329     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8330 }{%
8331     % specific footnote number provided
8332     \begingroup%
8333         \csname c@\@mpfn\endcsname #1\relax%
8334         \unrestored@protected@xdef\@thefnmark{\thempfn}%
8335     \endgroup%
8336     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8337 }%
8338 \@bidityftesidenote@print@citations%              print any citations
8339 \let\cite\@bidityftesidenote@normal@cite%         go back to using normal in-text \cite comm
8340 \let\LTRcite\@bidityfteLTRsidenote@normal@cite%   go back to using normal in-text \LTR
8341 \let\RTLcite\@bidityfteRTLsidenote@normal@cite%   go back to using normal in-text \RTL
8342 \unskip\ignorespaces%                            remove extra white space
8343 \kern-\multiplefootnotemark%                     remove \kern left behind by sidenote
8344 \kern\multiplefootnotemark\relax% add new \kern here to replace the one we yanked
8345 }
8346 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8347     \let\cite\@bidityftesidenote@infootnote@cite%    use the in-sidenote \cite command
8348     \gdef\@bidityftesidenote@citations{}%            clear out any old citations
8349     \ifthenelse{\NOT\isempty{#2}}{%
8350         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8351     }{%
8352         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8353     }%
8354     \ifthenelse{\isempty{#1}}{%
8355         % no specific footnote number provided
8356         \stepcounter\@mpfn%
8357         \protected@xdef\@thefnmark{\thempfn}%
8358         \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8359     }{%
8360         % specific footnote number provided
8361         \begingroup%
8362             \csname c@\@mpfn\endcsname #1\relax%
8363             \unrestored@protected@xdef\@thefnmark{\thempfn}%
8364         \endgroup%
8365         \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8366     }%
8367     \@bidityftesidenote@print@citations%              print any citations
8368     \let\cite\@bidityftesidenote@normal@cite%         go back to using normal in-text \cite comm
8369     \let\LTRcite\@bidityfteLTRsidenote@normal@cite%   go back to using normal in-text \LTR
8370     \let\RTLcite\@bidityfteRTLsidenote@normal@cite%   go back to using normal in-text \RTL
8371     \unskip\ignorespaces%                            remove extra white space

```



```

8372 \kern-\multiplefootnotemarker%      remove \kern left behind by sidenote
8373 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8374 }
8375 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
8376 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
8377 \newcommand{\RTLsidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
8378 \bidi@patch@AfterPackage{bidi}{%
8379 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
8380 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
8381 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
8382 }
8383 %%
8384 % Sidenote without the footnote mark
8385 \newcommand\marginnote[2] [Opt]{%
8386 \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8387 \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8388 \bidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\@bidityftesidenote@print@citations%
8389 \@bidityftesidenote@print@citations%            print any citations
8390 \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
8391 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTRcite
8392 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTLcite
8393 }
8394 \newcommand\LTRmarginnote[2] [Opt]{%
8395 \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8396 \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8397 \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\@bidityftesidenote@print@citations%
8398 \@bidityftesidenote@print@citations%            print any citations
8399 \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
8400 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTRcite
8401 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTLcite
8402 }
8403 \newcommand\RTLmarginnote[2] [Opt]{%
8404 \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8405 \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8406 \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\@bidityftesidenote@print@citations%
8407 \@bidityftesidenote@print@citations%            print any citations
8408 \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
8409 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTRcite
8410 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTLcite
8411 }

```

55 File bidityftetoc.sty

```

8412 \NeedsTeXFormat{LaTeX2e}
8413 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8414 bidi implementation of tufte toc]
8415 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8416 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8417 \newcommand{\@bidityftetoc@Error}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8418 %%
8419 % Turn off section numbering
8420 \setcounter{secnumdepth}{-1}
8421 \newboolean{\@bidityftetoc@toc}
8422 \setboolean{\@bidityftetoc@toc}{true}

```



```

8423 \DeclareOption{notoc}{\setboolean{@bidityuftetoc@toc}{false}}
8424 \DeclareOption{toc}{\setboolean{@bidityuftetoc@toc}{true}}
8425 \ProcessOptions
8426 %%
8427 % Make Tuftean-style section headings and TOC formatting
8428 \bidi@patch@AfterPackage{bidi}{%
8429 \titleformat{\chapter}%
8430 [display]% shape
8431 {\relax\ifthenelse{\NOT\boolean{@bidityuftfloat@symmetric}}{\begin{fullwidth}}{}}% format
8432 {\itshape\huge\thechapter}% label
8433 {0pt}% horizontal separation between label and title body
8434 {\huge\rmfamily\itshape}% before the title body
8435 [\ifthenelse{\NOT\boolean{@bidityuftfloat@symmetric}}{\end{fullwidth}}{}}% after the title
8436 \titleformat{\section}%
8437 [hang]% shape
8438 {\normalfont\Large\itshape}% format applied to label+text
8439 {\thesection}% label
8440 {1em}% horizontal separation between label and title body
8441 {}% before the title body
8442 []% after the title body
8443 \titleformat{\subsection}%
8444 [hang]% shape
8445 {\normalfont\large\itshape}% format applied to label+text
8446 {\thesubsection}% label
8447 {1em}% horizontal separation between label and title body
8448 {}% before the title body
8449 []% after the title body
8450 \titleformat{\paragraph}%
8451 [runin]% shape
8452 {\normalfont\itshape}% format applied to label+text
8453 {\theparagraph}% label
8454 {1em}% horizontal separation between label and title body
8455 {}% before the title body
8456 []% after the title body
8457 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8458 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8459 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8460 }
8461 % Subsubsection and following section headings shouldn't be used.
8462 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8463 \renewcommand\subsubsection{%
8464 \bidityuftetocError{\noexpand\subsubsection is undefined by this class.%
8465 \MessageBreak See Robert Bringhurst's _The Elements of
8466 \MessageBreak Typographic Style_, section 4.2.2.
8467 \MessageBreak \noexpand\subsubsection was used}
8468 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8469 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8470 \MessageBreak related threads on Ask E.T. at http://www.edwardbidityuftetoc.com/.}
8471 }
8472 \renewcommand\subparagraph{%
8473 \bidityuftetocError{\noexpand\subparagraph is undefined by this class.%
8474 \MessageBreak See Robert Bringhurst's _The Elements of
8475 \MessageBreak Typographic Style_, section 4.2.2.
8476 \MessageBreak \noexpand\subparagraph was used}

```



```

8477     {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8478     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8479     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8480 }
8481 % Formatting for main TOC (printed in front matter)
8482 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8483 \ifthenelse{\boolean{@biditytetoc@toc}}{%
8484 \bidi@patch@AfterPackage{bidi}}{%
8485 \titlecontents{part}% FIXME
8486 [0em] % distance from left margin
8487 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8488 {\contentslabel{2em}} % before w/label (label = ``II'')
8489 {} % before w/o label
8490 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8491 [\end{fullwidth}] % after
8492 \titlecontents{chapter}%
8493 [0em] % distance from left margin
8494 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8495 {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8496 {\hspace*{0em}} % before w/o label
8497 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8498 [\end{fullwidth}] % after
8499 \titlecontents{section}% FIXME
8500 [0em] % distance from left margin
8501 {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
8502 {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8503 {\hspace*{2em}} % before w/o label
8504 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8505 [\end{fullwidth}] % after
8506 \titlecontents{subsection}% FIXME
8507 [0em] % distance from left margin
8508 {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
8509 {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8510 {\hspace*{4em}} % before w/o label
8511 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8512 [\end{fullwidth}] % after
8513 \titlecontents{paragraph}% FIXME
8514 [0em] % distance from left margin
8515 {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global f
8516 {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8517 {\hspace*{6em}} % before w/o label
8518 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8519 [\end{fullwidth}] % after
8520 }%
8521 }{}
8522 %%
8523 % Format lists of figures/tables
8524 \renewcommand\listoffigures{%
8525 \ifundefined{chapter}%
8526 {\section*{\listfigurename}}%
8527 {\chapter*{\listfigurename}}%
8528 % \begin{fullwidth}%
8529 % \@starttoc{lof}%
8530 % \end{fullwidth}%

```



```

8531 }
8532 \renewcommand\listoftables{%
8533   \ifundefined{chapter}%
8534     {\section*{\listtablename}}%
8535     {\chapter*{\listtablename}}%
8536 % \begin{fullwidth}%
8537   \@starttoc{lot}%
8538 % \end{fullwidth}%
8539 }
8540 \newcommand{\@biditytetoc@lof@line}[2]{%
8541   % #1 is the figure/table number and its caption text
8542   % #2 is the page number on which the figure/table appears
8543   \leftskip 0.0em
8544   \rightskip 0em
8545   \parfillskip 0em plus 1fil
8546   \parindent 0.0em
8547   \@afterindenttrue
8548   \interlinepenalty\@M
8549   \leavevmode
8550   \@tempdima 2.0em
8551   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8552   \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8553   {#1}\nobreak\quad\nobreak#2%
8554   \par%
8555 }
8556 \renewcommand*\l@figure{\@biditytetoc@lof@line}
8557 \let\l@table\l@figure

```

56 File biditytgeneralstructure.sty

```

8558 \NeedsTeXFormat{LaTeX2e}
8559 \ProvidesPackage{biditytgeneralstructure}[2011/06/18 v0.1
8560 bidi implementation of tufte general structure]
8561 \renewcommand\small{%
8562   \@setfontsize\small\@ixpt{12}%
8563   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8564   \abovedisplayshortskip \z@ \@plus2\p@
8565   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8566   \def\@listi{\leftmargin\leftmargini
8567     \topsep 4\p@ \@plus2\p@ \@minus2\p@
8568     \parsep 2\p@ \@plus\p@ \@minus\p@
8569     \itemsep \parsep}%
8570   \belowdisplayskip \abovedisplayskip
8571 }
8572 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viiipt}
8573 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vipt}
8574 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8575 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8576 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8577 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8578 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8579 \setlength\leftmargini {1pc}
8580 \setlength\leftmarginii {1pc}
8581 \setlength\leftmarginiii {1pc}

```



```

8582 \setlength\leftmarginiv {1pc}
8583 \setlength\leftmarginv {1pc}
8584 \setlength\leftmarginvi {1pc}
8585 \setlength\labelsep {.5pc}
8586 \setlength\labelwidth {\leftmargini}
8587 \addtolength\labelwidth{-\labelsep}
8588 \setlength{\parindent}{1.0pc}%
8589 \setlength{\parskip}{0pt}%
8590 \RequirePackage{ragged2e}
8591 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8592 % Paragraph indentation and separation for normal text
8593 \newcommand{\@biditytgeneralstructure@reset@par}{%
8594 \setlength{\RaggedRightParindent}{1.0pc}%
8595 \setlength{\JustifyingParindent}{1.0pc}%
8596 \setlength{\parindent}{1pc}%
8597 \setlength{\parskip}{0pt}%
8598 }
8599 \@biditytgeneralstructure@reset@par
8600 % Require paralist package for tighter lists
8601 \RequirePackage{paralist}
8602 % Add rightmargin to compactenum
8603 \def\@compactenum{%
8604 \expandafter\list\csname label\@enumctr\endcsname{%
8605 \usecounter{\@enumctr}%
8606 \rightmargin=2em% added this
8607 \parsep\plparsep
8608 \itemsep\plitemsep
8609 \topsep\pltopsep
8610 \partopsep\plpartopsep
8611 \def\makelabel##1{\hss\llap{##1}}}%
8612 %%
8613 % An environment for paragraph-style section
8614 \providecommand\newthought[1]{%
8615 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8616 \noindent\textbf{#1}%
8617 }
8618 %%
8619 % Redefine the display environments (quote, quotation, etc.)
8620 \renewenvironment{verse}
8621 {\let\\ \@centercr
8622 \list{}{\itemsep \z@
8623 \itemindent -1pc%
8624 \listparindent\itemindent
8625 \rightmargin \leftmargin
8626 \advance\leftmargin 1pc}%
8627 \small%
8628 \item\relax}
8629 {\endlist}
8630 \renewenvironment{quotation}
8631 {\list{}{\listparindent 1pc%
8632 \itemindent \listparindent
8633 \rightmargin \leftmargin
8634 \parsep \z@ \@plus\p@}%
8635 \small%

```




```

8636             \item\relax\noindent\ignorespaces}
8637             {\endlist}
8638 \renewenvironment{quote}
8639             {\list{}{\rightmargin\leftmargin}%
8640             \small%
8641             \item\relax}
8642             {\endlist}
8643 % Italicize description run-in headings (instead of the default bold)
8644 \renewcommand*{descriptionlabel}[1]{\hspace\labelsep\normalfont\em #1}
8645 %%
8646 % Redefine \bibsection to not mark the running heads.
8647 % (Code modified from natbib.sty.)
8648 \ifundefined{chapter}%
8649   {\renewcommand\bibsection{\section*{\refname}}}
8650   {\@ifundefined{NAT@sectionbib}%
8651     {\renewcommand\bibsection{\chapter{\bibname}}}
8652     {\renewcommand\bibsection{\section*{\bibname}}}}
8653 \RequirePackage{multicol}
8654 \renewenvironment{theindex}{%
8655   \@ifundefined{chapter}%
8656     {\section*{\indexname}}%
8657     {\chapter{\indexname}}%
8658   \begin{fullwidth}%
8659   \small%
8660   \parskip0pt%
8661   \parindent0pt%
8662   \let\item\@idxitem%
8663   \begin{multicols}{3}%
8664   {%
8665     \end{multicols}%
8666     \end{fullwidth}%
8667   }
8668 \AtBeginDocument{%
8669 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8670 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8671 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
8672 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8673 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```

57 File `bidituftehyperref.sty`

```

8674 \NeedsTeXFormat{LaTeX2e}
8675 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8676 bidi implementation of tufte hyperref]
8677 %%
8678 % Color
8679 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8680 \newboolean{@bidituftehyperref@loadhyper}
8681 \setboolean{@bidituftehyperref@loadhyper}{true}
8682 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8683 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8684 \ProcessOptions
8685 %% Loads the hyperref package and sets some default options.
8686 \newcommand{\bidituftehyperrefLoadHyperref}{%

```



```

8687 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8688 \hypersetup{
8689     bookmarksdepth = section,
8690     citecolor = DarkGreen,
8691     linkcolor = DarkBlue,
8692 %    pagecolor = DarkBlue,
8693     urlcolor = DarkGreen,
8694 }%
8695 }
8696 \ifthenelse{\boolean{@biditytfttehyperref@loadhyper}}{%
8697     \biditytfttehyperrefLoadHyperref%
8698 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8699 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8700 }

```

58 File biditytfttetitle.sty

```

8701 \NeedsTeXFormat{LaTeX2e}
8702 \ProvidesPackage{biditytfttetitle}[2011/06/18 v0.1
8703 bidi implementation of tufte title]
8704 \RequirePackage{biditytools}
8705 %%
8706 % 'titlepage' option -- creates a full title page with \maketitle
8707 \newboolean{@biditytfttetitle@titlepage}
8708 \DeclareOption{titlepage}{\setboolean{@biditytfttetitle@titlepage}{true}}
8709 \DeclareOption{notitlepage}{\setboolean{@biditytfttetitle@titlepage}{false}}
8710 % Default 'book' and 'handout' options
8711 \@ifclassloaded{book}{%
8712 \ExecuteOptions{titlepage}}{%
8713 \@ifclassloaded{article}{%
8714 \ExecuteOptions{notitlepage}}%
8715 {}}
8716 \ProcessOptions
8717 %%
8718 % Modified \title, \author, and \date commands. These store the
8719 % (footnote-less) values in \plaintitle, \plainauthor, and \thedate, respectively.
8720 \newcommand{\plaintitle}{}% plain-text-only title
8721 \newcommand{\plainauthor}{}% plain-text-only author
8722 \newcommand{\plainpublisher}{}% plain-text-only publisher
8723 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8724 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8725 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8726 \newcommand{\@publisher}{}% full publisher with \thanks{}
8727 \newcommand{\thedate}{\today}
8728 \bidi@patch@AfterPackage{bidi}{%
8729 \renewcommand{\thanks}[1]{\footnote{#1}}
8730 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8731 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8732 }
8733 \renewcommand{\title}[2][{}]{%
8734 \gdef\@title{#2}%
8735 \begingroup%
8736 % TODO store contents of \thanks command
8737 \renewcommand{\thanks}[1]{}% swallow \thanks contents

```



```

8738 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8739 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8740 \protected@xdef\thanklesstitle{#2}%
8741 \endgroup%
8742 \ifthenelse{\isempty{#1}}%
8743 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8744 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8745 \@ifundefined{hypersetup}%
8746 {}% hyperref is not loaded; do nothing
8747 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8748 }
8749 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8750 \renewcommand{\author}[2][]{%
8751 \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8752 \begingroup%
8753 % TODO store contents of \thanks command
8754 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8755 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8756 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8757 \protected@xdef\thanklessauthor{#2}%
8758 \endgroup%
8759 \ifthenelse{\isempty{#1}}%
8760 {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8761 {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8762 \@ifundefined{hypersetup}%
8763 {}% hyperref is not loaded; do nothing
8764 {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8765 }
8766 \renewcommand{\date}[1]{%
8767 \gdef\@date{#1}%
8768 \begingroup%
8769 % TODO store contents of \thanks command
8770 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8771 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8772 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8773 \protected@xdef\thedata{#1}%
8774 \endgroup%
8775 }
8776 %%
8777 % Provides a \publisher command to set the publisher
8778 \newcommand{\publisher}[2][]{%
8779 \gdef\@publisher{#2}%
8780 \begingroup%
8781 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8782 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8783 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8784 \protected@xdef\thanklesspublisher{#2}%
8785 \endgroup%
8786 \ifthenelse{\isempty{#1}}
8787 {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8788 {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8789 }
8790 %%
8791 % Produces a full title page

```



```

8792 \newcommand{\maketitlepage}[0]{%
8793   \cleardoublepage%
8794   {%
8795     \bfseries%
8796     \begin{fullwidth}%
8797       \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8798       \vspace{11.5pc}%
8799       \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8800       \vfill%
8801       \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8802     \end{fullwidth}%
8803   }
8804   \thispagestyle{empty}%
8805   \clearpage%
8806 }
8807 %%
8808 % Title block
8809 \bidi@AfterEndPreamble{%
8810 \renewcommand{\maketitle}{%
8811   \newpage%
8812   \global\@topnum\z@% prevent floats from being placed at the top of the page
8813   \begin{group}%
8814     \setlength{\parindent}{0pt}%
8815     \setlength{\parskip}{4pt}%
8816     \let\@title\@empty%
8817     \let\@author\@empty%
8818     \let\@date\@empty%
8819     \gdef\@title{\LARGE\itshape\@title\par}%
8820     \gdef\@author{\Large\itshape\@author\par}%
8821     \gdef\@date{\Large\itshape\@date\par}%
8822     \@title%
8823     \@author%
8824     \@date%
8825   \end{group}%
8826   \thispagestyle{plain}% suppress the running head
8827 }%
8828 }
8829 %%
8830 % Title page (if the `titlepage' option was passed to the bidentitetitle-handout
8831 % class.)
8832 \bidi@AfterEndPreamble{%
8833 \ifthenelse{\boolean{@bidentitetitle@titlepage}}
8834   {\renewcommand{\maketitle}{\maketitlepage}}
8835   {}
8836 }
8837 %%
8838 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8839 % without headers and footers
8840 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8841   \hbox{}
8842   %\vspace*{\fill}
8843   %\begin{center}
8844   % This page intentionally contains only this sentence.
8845   %\end{center}

```



```

8846 %\vspace{\fill}
8847 \thispagestyle{empty}
8848 \newpage
8849 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

59 File `biditufte-handout.cls`

```

8850 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8851 \ProvidesClass{biditufte-handout}[2011/06/18 v0.1 biditufte-handout class]
8852 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8853 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8854 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8855 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8856 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8857 \ProcessOptions\relax
8858 \LoadClass{article}
8859 \RequirePackage{bidituftefloat}
8860 \RequirePackage{bidituftesidenote}
8861 \RequirePackage{bidituftetoc}
8862 \RequirePackage{bidituftegeneralstructure}
8863 \RequirePackage{bidituftehyperref}
8864 \RequirePackage{bidituftetitle}
8865 \renewenvironment{abstract}
8866   {\begin{quotation}}
8867   {\end{quotation}}
8868 \AtBeginDocument{%
8869   \IfFileExists{biditufte-handout.cfg}
8870     {\input{biditufte-handout.cfg}}
8871     \ClassInfo{biditufte-handout}{Loading biditufte-handout configuration file \@gobble}}
8872   {}%
8873 }

```

60 File `biditufte-book.cls`

```

8874 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8875 \ProvidesClass{biditufte-book}[2011/06/18 v0.1 biditufte-book class]
8876 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8877 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8878 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8879 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8880 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8881 \ProcessOptions\relax
8882 \LoadClass{book}
8883 \RequirePackage{bidituftefloat}
8884 \RequirePackage{bidituftesidenote}
8885 \RequirePackage{bidituftetoc}
8886 \RequirePackage{bidituftegeneralstructure}
8887 \RequirePackage{bidituftehyperref}
8888 \RequirePackage{bidituftetitle}
8889 %%
8890 % Set up any book-specific stuff now
8891 %%
8892 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8893 % to the opening page of Chapter 1. The running heads, when they appear,

```



```

8894 % contain only the (arabic) page number in the outside corner.
8895 %\newif\if@mainmatter \@mainmattertrue
8896 \renewcommand\frontmatter{%
8897   \cleardoublepage%
8898   \@mainmatterfalse%
8899   \pagenumbering{arabic}%
8900   %\pagestyle{plain}%
8901   \fancyhf{}%
8902   \ifthenelse{\boolean{@biditytfloat@twoside}}%
8903     {\fancyhead[LE,RO]{\thepage}}%
8904     {\fancyhead[RE,RO]{\thepage}}%
8905 }
8906 %%
8907 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8908 % numbering---it continues where it left off in the front matter.
8909 \renewcommand\mainmatter{%
8910   \cleardoublepage%
8911   \@mainmattertrue%
8912   \fancyhf{}%
8913   \ifthenelse{\boolean{@biditytfloat@twoside}}%
8914     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8915     {\fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8916     \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
8917     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8918 }
8919 %%
8920 % The back matter contains appendices, indices, glossaries, endnotes,
8921 % bibliographies, list of contributors, illustration credits, etc.
8922 \renewcommand\backmatter{%
8923   \if@openright%
8924     \cleardoublepage%
8925   \else%
8926     \clearpage%
8927   \fi%
8928   \@mainmatterfalse%
8929 }
8930 %%
8931 % Only show the chapter titles in the table of contents
8932 \setcounter{tocdepth}{0}
8933 \AtBeginDocument{%
8934   \IfFileExists{biditytufte-book.cfg}
8935   {\input{biditytufte-book.cfg}
8936    \ClassInfo{biditytufte-book}{Loading biditytufte-book configuration file \@gobble}}
8937   {}%
8938 }

```

61 File bidipoem.sty

```

8939 \NeedsTeXFormat{LaTeX2e}
8940 \ProvidesPackage{bidipoem}%
8941 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8942
8943 % Usage:
8944 %

```



```

8945 % \Setversedim #1#2 % define the layout (within a group):
8946 % #1 = length of both half-verses
8947 % #2 = separation distance = length of a connection, if present
8948 % Variant:
8949 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8950 % #1 = length of first (=right) half-verse
8951 % #2 = length of second (=left) half-verse
8952 % #3 = separation distance = length of a connection, if present
8953 %
8954 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8955 % #1 = text of first (=right) half-verse
8956 % #2 = text of second (=left) half-verse
8957 % Variant:
8958 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8959 % #1 = text of first (=right) half-verse
8960 % #2 = text of connection
8961 % #3 = text of second (=left) half-verse
8962 %
8963 % Alternative (if preferred):
8964 %
8965 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8966
8967
8968 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8969
8970 % define the layout, verses will be centered
8971
8972 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8973 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8974
8975 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8976 \bidipoem@hvind \textwidth
8977 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8978 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8979 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem@
8980
8981 \def \bidipoem@set@verseI [#1]{% optional parameter
8982 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8983
8984 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8985 \advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
8986 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8987
8988 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8989 \ifdim Opt > \bidipoem@hvind %
8990 \bidipoem@spreadbox \bidipoem@hvlen {#1}\\ \hfill % first block
8991 \else
8992 \noindent \hspace \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8993 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8994 \bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
8995 \par }
8996
8997 % macro for two half verses
8998 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?

```



```

8999 \ifx [#2\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}[]}%
9000 \else\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
9001 \bidipoem@half@verses@next}
9002
9003 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
9004 \traditionalconnverses {#1}-{#2}-{#3}}
9005
9006
9007 {\catcode\^^M=\active % these lines must end with %
9008 \gdef\traditionalpoem@obeylines{\catcode\^^M=\active \let^^M\traditionalpoem@par}%
9009 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
9010 {\catcode\^^M=\active % these lines must end with %
9011 \gdef\modernpoem@obeylines{\catcode\^^M=\active \let^^M\modernpoem@par}%
9012 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
9013 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
9014 \def\poemmarginskip{1em plus 1fil minus 1em}
9015 \def\poemextrabaseskip{0\baselineskip}
9016 \def\poemskip{\medskip}
9017 \newcommand{\bidipoem@openbox}{\leavevmode
9018 \hbox to.77778em{%
9019 \hfil\vrule
9020 \vbox to.675em{\hrule width.6em\vfil\hrule}%
9021 \vrule\hfil}}
9022 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
9023 \newdimen\versewidth
9024 \newtoks\bidipoem@p@ftn
9025 \def\poem@verse#1{%
9026 \ifdim\wd#1>\new@poem@width
9027 \xdef\new@poem@width{\the\wd#1}%
9028 \ifdim\new@poem@width>\poem@width
9029 \xdef\poem@width{\new@poem@width}%
9030 \global\let\poem@needrun\relax
9031 \fi
9032 \fi
9033 \hbox to\poem@width{\unhbox#1}%
9034 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
9035 }
9036 \def\poem@linebegin{\vadjust{}\hskip\@flushglue\hskip\poemmarginskip\relax}
9037 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
9038 \def\poem@lineversesep{%
9039 \nobreak
9040 \hskip\z@ plus 1filll%
9041 \penalty600%
9042 \hskip\poemcolsepskip
9043 \hskip\z@ plus -2filll%
9044 \vadjust{}}%
9045 \nobreak
9046 \hskip\z@ plus 1filll%
9047 }
9048 \def\poem@lineparsebegin{%
9049 \halign\bgroup
9050 \global\setbox\verse@i=\hbox{%
9051 \let\@footnotetext\bidipoem@p@ftntext%
9052 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%

```




```

9053 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9054 \let\@xfootnotenext\bidipoem@p@xftntext%
9055 \let\@xfootnote\bidipoem@p@xfootnote%
9056 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9057 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9058 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9059 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9060 \ignorespaces##\unskip}&&
9061 \global\setbox\verse@ii=\hbox{%
9062 \let\@footnotetext\bidipoem@p@ftntext%
9063 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9064 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9065 \let\@xfootnotenext\bidipoem@p@xftntext%
9066 \let\@xfootnote\bidipoem@p@xfootnote%
9067 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9068 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9069 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9070 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9071 \ignorespaces##\unskip}
9072 \cr
9073 }
9074 \def\poem@lineparseend{%
9075 \crr\egroup
9076 \vskip-\baselineskip
9077 }
9078 \def\traditionalpoem@cr{%
9079 \cr\poem@line
9080 }
9081 \newbox\verse@i
9082 \newbox\verse@ii
9083 \newif\ifpoem@started
9084
9085 \def\poem@line{%
9086 \poem@lineparseend
9087 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9088 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9089 \ifpoem@started
9090 \ifdim\wd\verse@ii>\z@\else
9091 \nopagebreak[3]
9092 \fi
9093 \leavevmode
9094 \poem@linebegin
9095 \poem@verse\verse@i
9096 \ifdim\wd\verse@ii>\z@
9097 \poem@lineversesep
9098 \poem@verse\verse@ii
9099 \fi
9100 \poem@lineend
9101 % \nopagebreak
9102 \par
9103 \vskip\poemextrabaselineskip
9104 \fi
9105 \poem@lineparsebegin
9106 }

```



```

9107 \def \@traditionalpoem{%
9108 \stepcounter{poem@no}
9109 \ifnum\max@poem@no<\number\c@poem@no%
9110 \xdef\poem@width{\z@}%
9111 \else
9112 \xdef\poem@width{\poem@prop{poem@width}}%
9113 \fi
9114 \xdef\new@poem@width{\z@}%
9115 \global\versewidth=\poem@width
9116 \poemskip\par
9117 \begingroup
9118 \tabskip=\z@
9119 \parskip=\z@
9120 \parindent=\z@
9121 \parfillskip=\z@
9122 \rightskip=\z@
9123 \leftskip=\z@
9124 \widowpenalty=10000% No break between verses of the same line.
9125 \clubpenalty=10000% Same as above. Not really needed.
9126 \def\newblock{\hfil\poemblocksep\hfil\null}%
9127 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9128 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
9129 \global\poem@startedfalse
9130 \csname poem@obeylines\endcsname
9131 \let\poem@obeylines\relax
9132 \poem@lineparsebegin
9133 }
9134 \def \@endtraditionalpoem{%
9135 \cr
9136 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9137 \noalign{%
9138 \skip0=\poemextrabaseskip
9139 \vskip-\skip0
9140 \vskip-\baseskip
9141 }%
9142 \fi\fi
9143 \poem@lineparseend
9144 \endgroup
9145 \par
9146 \vskip\baseskip
9147 \poemskip
9148 \ifdim\new@poem@width<\poem@width
9149 \global\let\poem@needrun\relax
9150 \fi
9151 \poem@write@aux{poem@width@\romannumeral\c@poem@no}{\new@poem@width}%
9152 \ifx\AtEndDocument\undefined\poem@finish\fi
9153 \@endparenv
9154 }
9155
9156
9157 \long\def\bidipoem@p@ftntext#1{%
9158 \edef\@temp{the\bidipoem@p@ftn\noexpand\footnotetext[the\csname c@\mpfn\endcsname]}%
9159 \global\bidipoem@p@ftn\expandafter{\@temp{#1}}%
9160 \long\def\bidipoem@p@LTRftntext#1{%

```



```

9161 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]
9162 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9163 \long\def\bidipoem@p@RTLftntext#1{%
9164 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]
9165 \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
9166
9167 \long\def\bidipoem@p@xftntext[#1]#2{%
9168 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}
9169
9170 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9171 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}
9172
9173 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9174 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}
9175
9176 \def\bidipoem@p@xfootnote[#1]{%
9177 \begingroup
9178 \csname c@\mpfn\endcsname #1\relax
9179 \unrestored@protected@xdef\@thefnmark{\thempfn}%
9180 \endgroup
9181 \@footnotemark\bidipoem@p@xftntext[#1]}
9182
9183 \def\bidipoem@p@xLTRfootnote[#1]{%
9184 \begingroup
9185 \csname c@\mpfn\endcsname #1\relax
9186 \unrestored@protected@xdef\@thefnmark{\thempfn}%
9187 \endgroup
9188 \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9189
9190 \def\bidipoem@p@xRTLfootnote[#1]{%
9191 \begingroup
9192 \csname c@\mpfn\endcsname #1\relax
9193 \unrestored@protected@xdef\@thefnmark{\thempfn}%
9194 \endgroup
9195 \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9196
9197
9198
9199 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9200 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
9201 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9202 \def\poem@finish{%
9203 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9204 \ifx\poem@needrun\relax
9205 \PackageWarning{bidipoem}{Unjustified poem. Rerun TeX to get poem right}%
9206 \global\let\poem@needrun\undefined
9207 \fi
9208 }
9209 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9210 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9211 \ifx\max@poem@no\undefined
9212 \def\max@poem@no{0}%
9213 \fi
9214 \newcommand{\poem@prop}[1]{\@nameuse{#1@romannumeral\c@poem@no}}

```



```

9215 \newcommand{\poem@write@aux}[2]{%
9216     \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9217     \@x
9218 }
9219 \def\@modernpoem{%
9220 \par
9221 \begingroup
9222 \parskip=\z@
9223 \parindent=\z@
9224 \def\[\{\@settab\@tabplus\ignorespaces}%
9225 \def\]\{\@tabminus\ignorespaces}%
9226 \def\newblock{\poemblocksep}%
9227 \let\newpoem@tabcr\@tabcr
9228 \def\modernpoem@par{% Redefine \par for possible \obeylines
9229     \ifpoem@started\else
9230         \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9231             \@stopfield
9232             \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9233             \@contfield
9234         \fi
9235     \fi
9236     \ifpoem@started\newpoem@tabcr\fi}%
9237 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9238 \global\poem@startedfalse
9239 \csname poem@obeylines\endcsname
9240 \let\poem@obeylines\relax
9241 \begin{tabbing}%
9242 }
9243 \def\@endmodernpoem{%
9244 \global\poem@startedfalse
9245 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9246     \@stopfield
9247     \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9248     \@contfield
9249 \fi
9250 \ifpoem@started\else\let\@stopline\@stopfield\fi
9251 \end{tabbing}%
9252 \endgroup
9253 \par
9254 \if@nparlist \else
9255     \ifdim\lastskip >\z@
9256         \@tempskipa\lastskip \vskip -\lastskip
9257         \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9258         \vskip\@tempskipa
9259     \fi
9260     \@endparenv
9261 \fi
9262 }
9263 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9264 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
9265 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9266 \gdef\@startfield{%
9267 \global\setbox\@curfield\hbox\bgroup%
9268 \let\@footnotetext\bidipoem@p@ftntext%

```



```

9269 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9270 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9271 \let\@xfootnotenext\bidipoem@p@xftntext%
9272 \let\@xfootnote\bidipoem@p@xfootnote%
9273 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9274 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9275 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9276 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9277 \color@begingroup}
9278 \gdef\@stopfield{%
9279   \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9280 \gdef\@contfield{%
9281   \global\setbox\@curfield\hbox\bgroup%
9282   \let\@footnotetext\bidipoem@p@ftntext%
9283   \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9284   \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9285   \let\@xfootnotenext\bidipoem@p@xftntext%
9286   \let\@xfootnote\bidipoem@p@xfootnote%
9287   \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9288   \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9289   \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9290   \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9291   \color@begingroup\unhbox\@curfield}

```

62 File boek3-xetex-bidi.def

```

9292 \ProvidesFile{boek3-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for boek3 class for XeTeX]
9293 \renewenvironment{theindex}{%
9294   \if@twocolumn
9295     \@restonecolfalse
9296   \else
9297     \@restonecoltrue
9298   \fi
9299   \columnseprule \z@
9300   \columnsep 35\p@
9301   \twocolumn[\@makeschapterhead{\indexname}]%
9302   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9303   \thispagestyle{plain}\parindent\z@
9304   \parskip\z@ \@plus .3\p@\relax
9305   \let\item\@idxitem
9306 }{%
9307   \if@restonecol\onecolumn\else\clearpage\fi}
9308 \renewcommand*\head@style{%
9309   \interlinepenalty \@M
9310   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9311   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9312 \renewcommand*\@regtocline[3]{%
9313   \ifnum #1>\c@tocdepth
9314   \else
9315     \vskip\z@ \@plus .2\p@
9316     {\hangindent\z@ \@afterindenttrue \interlinepenalty \@M
9317     \if@RTL\rightskip\else\leftskip\fi\unitindent
9318     \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
9319     \parfillskip\z@

```



```

9320 \@tempdima\unitindent
9321 \parindent\z@
9322 \leavevmode
9323 \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9324 \hskip 1em \nobreak{\slshape #3}\par
9325 }%
9326 \fi}
9327 \if@oldtoc
9328 \renewcommand*\l@part[2]{%
9329 \ifnum \c@tocdepth >-2\relax
9330 \addpenalty{-\@highpenalty}%
9331 \addvspace{2.25em \@plus\p@}%
9332 \begingroup
9333 \setlength\@tempdima{3em}%
9334 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9335 \parfillskip -\@pnumwidth
9336 {\leavevmode
9337 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9338 \nobreak
9339 \global\@nobreaktrue
9340 \everypar{\global\@nobreakfalse\everypar{}}%
9341 \endgroup
9342 \fi}
9343 \else
9344 \renewcommand*\l@part{%
9345 \ifnum \c@tocdepth >-2\relax
9346 \addpenalty{-\@highpenalty}%
9347 \addvspace{2.25em \@plus \p@}%
9348 \@regtocline{0}%
9349 \fi}
9350 \fi
9351 \if@oldtoc
9352 \renewcommand*\l@chapter[2]{%
9353 \addpenalty{-\@highpenalty}%
9354 \vskip 1.0em \@plus\p@
9355 \setlength\@tempdima{1.5em}%
9356 \begingroup
9357 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9358 \parfillskip -\@pnumwidth
9359 \leavevmode \bfseries
9360 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9361 \hskip -\if@RTL\rightskip\else\leftskip\fi
9362 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9363 \penalty\@highpenalty
9364 \endgroup}
9365 \else
9366 \renewcommand*\l@chapter{\@regtocline{0}}
9367 \fi
9368 \renewenvironment{abstract}{%
9369 \titlepage
9370 \null\vfil
9371 \section*{\SectFont \abstractname}
9372 \noindent\ignorespaces}
9373 {\par\vfil\null\endtitlepage}

```



```

9374 \renewenvironment{thebibliography}[1]
9375     {\chapter*{\bibname}%
9376      \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9377      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9378      \bidi@thebibliography@font@hook%
9379      \list{\@biblabel{\@arabic\c@enumiv}}%
9380          {\settowidth\labelwidth{\@biblabel{#1}}%
9381           \leftmargin\labelwidth
9382           \advance\leftmargin\labelsep
9383           \@openbib@code
9384           \usecounter{enumiv}%
9385           \let\p@enumiv\empty
9386           \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9387      \sloppy\clubpenalty4000\widowpenalty4000%
9388      \sfcode\.\@m}
9389      {\def\@noitemerr
9390       {\@latex@warning{Empty `thebibliography' environment}}}%
9391      \endlist}
9392 \renewcommand*\left@footnoterule{%
9393   \kern-3\p@
9394   \kern.5\baselineskip
9395   \hrule\@width\unitindent
9396   \kern.4\baselineskip
9397 }
9398 \renewcommand*\right@footnoterule{%
9399   \kern-3\p@
9400   \kern.5\baselineskip
9401   \nointerlineskip
9402   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9403   \kern.4\baselineskip}
9404 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9405 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9406 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9407 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9408 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9409 \renewcommand*\theequation{%
9410   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9411 \renewcommand*\thefigure{%
9412   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9413 \renewcommand*\thetable{%
9414   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9415 \renewcommand*\maketitle{%
9416   \begin{titlepage}%
9417     \let\footnotesize\small
9418     \let\right@footnoterule\relax
9419     \let\left@footnoterule\relax
9420     \let\textwidth\footnoterule\relax
9421     \let \footnote \thanks
9422     \long\def\@makefntext##1{\parindent\z@
9423       \def\labelitemi{\textendash}\@revlabeltrue
9424       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9425     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9426     \if@compatibility\setcounter{page}{0}\fi
9427     \null\vfil

```



```

9428 \vskip 60\p@
9429 \begin{center}%
9430 \TitleFont
9431 {\LARGE \def\\{\penalty -\@M}
9432 \if@allcaps
9433 \expandafter\uc@nothanks\@title\thanks\relax
9434 \else
9435 \@title
9436 \fi\par}%
9437 \vskip 3em%
9438 {\large
9439 \lineskip .75em \parindent\z@
9440 \begin{tabular}[t]{c}%
9441 \if@allcaps
9442 \expandafter\uc@authornothanks\@author\and\relax
9443 \else
9444 \@author
9445 \fi
9446 \end{tabular}\par}%
9447 \vskip 1.5em%
9448 {\large
9449 \if@allcaps
9450 \uppercase\expandafter{\@date}%
9451 \else
9452 \@date
9453 \fi\par}%
9454 \end{center}\par
9455 \@thanks
9456 \vfil\null
9457 \end{titlepage}%
9458 \setcounter{footnote}{0}%
9459 \global\let\thanks\relax
9460 \global\let\maketitle\relax
9461 \global\let\@thanks\@empty
9462 \global\let\@author\@empty
9463 \global\let\@title\@empty
9464 \global\let\@date\@empty
9465 \global\let\title\relax
9466 \global\let\author\relax
9467 \global\let\date\relax
9468 \global\let\and\relax
9469 }

```

63 File boek-xetex-bidi.def

```

9470 \ProvidesFile{boek-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for boek class for XeTeX]
9471 \renewenvironment{theindex}{%
9472 \if@twocolumn
9473 \@restonecolfalse
9474 \else
9475 \@restonecoltrue
9476 \fi
9477 \columnseprule \z@
9478 \columnsep 35\p@

```




```

9479 \twocolumn[\@makeschapterhead{\indexname}]%
9480 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9481 \thispagestyle{plain}\parindent\z@
9482 \parskip\z@ \@plus .3\p@\relax
9483 \let\item\@idxitem
9484 }{%
9485 \if@restonecol\onecolumn\else\clearpage\fi}
9486 \renewcommand*\head@style{%
9487   \interlinepenalty \@M
9488   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9489   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9490 \renewcommand*\@regtocline[3]{%
9491   \ifnum #1>\c@tocdepth
9492   \else
9493     \vskip\z@ \@plus .2\p@
9494     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9495     \if@RTL\rightskip\else\leftskip\fi\unitindent
9496     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9497     \parfillskip\z@
9498     \@tempdima\unitindent
9499     \parindent\z@
9500     \leavevmode
9501     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9502     \hskip 1em \nobreak{\slshape #3}\par
9503   }%
9504   \fi}
9505 \if@oldtoc
9506 \renewcommand*\l@part[2]{%
9507   \ifnum \c@tocdepth >-2\relax
9508     \addpenalty{-\@highpenalty}%
9509     \addvspace{2.25em \@plus\p@}%
9510     \begingroup
9511       \setlength\@tempdima{3em}%
9512       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9513       \parfillskip -\@pnumwidth
9514       {\leavevmode
9515        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9516        \nobreak
9517        \global\@nobreaktrue
9518        \everypar{\global\@nobreakfalse\everypar{}}%
9519      \endgroup
9520   \fi}
9521 \else
9522 \renewcommand*\l@part{%
9523   \ifnum \c@tocdepth >-2\relax
9524     \addpenalty{-\@highpenalty}%
9525     \addvspace{2.25em \@plus \p@}%
9526     \@regtocline{0}%
9527   \fi}
9528 \fi
9529 \if@oldtoc
9530 \renewcommand*\l@chapter[2]{%
9531   \addpenalty{-\@highpenalty}%
9532   \vskip 1.0em \@plus\p@

```



```

9533 \setlength\@tempdima{1.5em}%
9534 \begingroup
9535 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9536 \parfillskip -\@pnumwidth
9537 \leavevmode \bfseries
9538 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9539 \hskip -\if@RTL\rightskip\else\leftskip\fi
9540 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9541 \penalty\@highpenalty
9542 \endgroup}
9543 \else
9544 \renewcommand*\l@chapter{\@regtocline{0}}
9545 \fi
9546 \renewcommand*\left@footnoterule{%
9547 \kern-3\p@
9548 \kern.5\baselineskip
9549 \hrule\@width\unitindent
9550 \kern.4\baselineskip
9551 }
9552 \renewcommand*\right@footnoterule{%
9553 \kern-3\p@
9554 \kern.5\baselineskip
9555 \nointerlineskip
9556 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9557 \kern.4\baselineskip}
9558 \renewenvironment{abstract}{%
9559 \titlepage
9560 \null\vfil
9561 \section*{\SectFont \abstractname}
9562 \noindent\ignorespaces}
9563 {\par\vfil\null\endtitlepage}
9564 \renewenvironment{thebibliography}[1]
9565 {\chapter*{\bibname}%
9566 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9567 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9568 \bidi@thebibliography@font@hook%
9569 \list{\@biblabel{\@arabic\c@enumiv}}%
9570 {\settowidth\labelwidth{\@biblabel{#1}}%
9571 \leftmargin\labelwidth
9572 \advance\leftmargin\labelsep
9573 \@openbib@code
9574 \usecounter{enumiv}%
9575 \let\p@enumiv\@empty
9576 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9577 \sloppy\clubpenalty4000\widowpenalty4000%
9578 \sfcode`.\@m}
9579 {\def\@noitemerr
9580 {\@latex@warning{Empty `thebibliography' environment}}}%
9581 \endlist}
9582 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9583 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9584 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9585 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9586 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}

```



```

9587 \renewcommand*\theequation{%
9588   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9589 \renewcommand*\thefigure{%
9590   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
9591 \renewcommand*\thetable{%
9592   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
9593 \renewcommand*\maketitle{%
9594   \begin{titlepage}%
9595     \let\footnotesize\small
9596     \let\right@footnoterule\relax
9597     \let\left@footnoterule\relax
9598     \let\textwidth\footnoterule\relax
9599     \let \footnote \thanks
9600     \long\def\@makefntext##1{\parindent\z@
9601       \def\labelitemi{\textendash}\@revlabeltrue
9602       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9603     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9604     \if@compatibility\setcounter{page}{0}\fi
9605     \null\vfil
9606     \vskip 60\p@
9607     \begin{center}%
9608       \TitleFont
9609       {\LARGE \def\\{\penalty -\@M}
9610         \if@allcaps
9611           \expandafter\uc@nothanks\@title\thanks\relax
9612         \else
9613           \@title
9614         \fi\par}%
9615     \vskip 3em%
9616     {\large
9617       \lineskip .75em \parindent\z@
9618       \begin{tabular}[t]{c}%
9619         \if@allcaps
9620           \expandafter\uc@authornothanks\@author\and\relax
9621         \else
9622           \@author
9623         \fi
9624       \end{tabular}\par}%
9625     \vskip 1.5em%
9626     {\large
9627       \if@allcaps
9628         \uppercase\expandafter{\@date}%
9629       \else
9630         \@date
9631       \fi\par}%
9632     \end{center}\par
9633     \@thanks
9634     \vfil\null
9635   \end{titlepage}%
9636   \setcounter{footnote}{0}%
9637   \global\let\thanks\relax
9638   \global\let\maketitle\relax
9639   \global\let\@thanks\@empty
9640   \global\let\@author\@empty

```



```

9641 \global\let\@title\@empty
9642 \global\let\@date\@empty
9643 \global\let\title\relax
9644 \global\let\author\relax
9645 \global\let\date\relax
9646 \global\let\and\relax
9647 }

```

64 File `bookest-xetex-bidi.def`

```

9648 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9649 \def\@makechapterhead#1{%
9650 \vspace*{20\p@}
9651 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9652 \ifnum \c@secnumdepth >\m@ne
9653 \if@mainmatter
9654 {\colorA\huge\scshape \@chapapp\space \thechapter}
9655 \par\nobreak
9656 \vskip 10\p@
9657 \fi
9658 \fi
9659 \interlinepenalty\@M
9660 {\colorB\hrule}
9661 \vskip 15\p@
9662 \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9663 {\colorA\Huge \bfseries #1}\par\nobreak
9664 \if@RTL\end{flushleft}\else\end{flushright}\fi
9665 \vskip 5\p@
9666 {\colorB\hrule}
9667 \vskip 30\p@
9668 }}
9669 \def\@makeschapterhead#1{%
9670 \vspace*{20\p@}
9671 {\parindent \z@ \raggedright \normalfont
9672 {\colorB\hrule}
9673 \vskip 15\p@
9674 \begin{center}
9675 {\colorA\Huge \bfseries #1}\par\nobreak
9676 \end{center}
9677 \vskip 5\p@
9678 {\colorB\hrule}
9679 \vskip 30\p@
9680 }}

```

65 File `book-xetex-bidi.def`

```

9681 \ProvidesFile{book-xetex-bidi.def}[2025/12/06 v1.5 bidi adaptations for standard book class
9682 \renewenvironment{theindex}
9683 {\if@twocolumn
9684 \@restonecolfalse
9685 \else
9686 \@restonecoltrue
9687 \fi
9688 \columnseprule \z@

```



```

9689             \columnsep 35\p@
9690             \twocolumn[\@makeschapterhead{\indexname}]\%
9691             \@mkboth{\MakeUppercase\indexname}\%
9692                 {\MakeUppercase\indexname}\%
9693             \thispagestyle{plain}\parindent\z@
9694             \parskip\z@ \@plus .3\p@\relax
9695             \let\item\@idxitem}
9696         {\if@restonecol\onecolumn\else\clearpage\fi}
9697 \IfClassLoadedF{bookest}{\%
9698   \if@titlepage
9699     \renewcommand\maketitle{\begin{titlepage}\%
9700       \let\footnotesize\small
9701       \let\right@footnoterule\relax
9702       \let\left@footnoterule\relax
9703       \let\textwidth\footnoterule\relax
9704       \let \footnote \thanks
9705       \let \LTRfootnote \LTRthanks
9706       \let \RTLfootnote \RTLthanks
9707       \null\vfil
9708       \vskip 60\p@
9709       \begin{center}\%
9710         {\LARGE \@title \par}\%
9711         \vskip 3em\%
9712         {\large
9713           \lineskip .75em\%
9714           \begin{tabular}[t]{c}\%
9715             \@author
9716             \end{tabular}\par}\%
9717           \vskip 1.5em\%
9718           {\large \@date \par}\%           % Set date in \large size.
9719       \end{center}\par
9720       \@thanks
9721       \vfil\null
9722     \end{titlepage}\%
9723     \setcounter{footnote}{0}\%
9724     \global\let\thanks\relax
9725     \global\let\LTRthanks\relax
9726     \global\let\RTLthanks\relax
9727     \global\let\maketitle\relax
9728     \global\let\@thanks\@empty
9729     \global\let\@author\@empty
9730     \global\let\@date\@empty
9731     \global\let\@title\@empty
9732     \global\let\title\relax
9733     \global\let\author\relax
9734     \global\let\date\relax
9735     \global\let\and\relax
9736 }
9737 \else
9738 \renewcommand\maketitle{\par
9739   \begingroup
9740     \renewcommand\thefootnote{\@fnsymbol\c@footnote}\%
9741     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}\%
9742     \long\def\@makefntext##1{\parindent 1em\noindent

```



```

9743         \hb@xt@1.8em{%
9744             \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9745     \if@twocolumn
9746         \ifnum \col@number=\@ne
9747             \@maketitle
9748         \else
9749             \twocolumn[\@maketitle]%
9750         \fi
9751     \else
9752         \newpage
9753         \global\@topnum\z@    % Prevents figures from going at top of page.
9754         \@maketitle
9755     \fi
9756     \thispagestyle{plain}\@thanks
9757 \endgroup
9758 \setcounter{footnote}{0}%
9759 \global\let\thanks\relax
9760 \global\let\LTRthanks\relax
9761 \global\let\RTLthanks\relax
9762 \global\let\maketitle\relax
9763 \global\let\@maketitle\relax
9764 \global\let\@thanks\@empty
9765 \global\let\@author\@empty
9766 \global\let\@date\@empty
9767 \global\let\@title\@empty
9768 \global\let\title\relax
9769 \global\let\author\relax
9770 \global\let\date\relax
9771 \global\let\and\relax
9772 }
9773 \def\@maketitle{%
9774     \newpage
9775     \null
9776     \vskip 2em%
9777     \begin{center}%
9778         \let \footnote \thanks
9779         \let \LTRfootnote \LTRthanks
9780         \let \RTLfootnote \RTLthanks
9781         {\LARGE \@title \par}%
9782         \vskip 1.5em%
9783         {\large
9784             \lineskip .5em%
9785             \begin{tabular}[t]{c}%
9786                 \@author
9787             \end{tabular}\par}%
9788         \vskip 1em%
9789         {\large \@date}%
9790     \end{center}%
9791     \par
9792     \vskip 1.5em}
9793 \fi
9794 \let\HyOrg@maketitle\maketitle
9795 }
9796 \IfPackageLoadedF{tocloft}{%

```



```

9797 \renewcommand*\l@part[2]{%
9798   \ifnum \c@tocdepth >-2\relax
9799     \addpenalty{-\@highpenalty}%
9800     \addvspace{2.25em \@plus\p@}%
9801     \setlength\@tempdima{3em}%
9802     \begingroup
9803       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9804       \parfillskip -\@pnumwidth
9805       {\leavevmode
9806         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9807       \nobreak
9808       \global\@nobreaktrue
9809       \everypar{\global\@nobreakfalse\everypar{}}%
9810     \endgroup
9811   \fi}
9812 \renewcommand*\l@chapter[2]{%
9813   \ifnum \c@tocdepth >\m@ne
9814     \addpenalty{-\@highpenalty}%
9815     \vskip 1.0em \@plus\p@
9816     \setlength\@tempdima{1.5em}%
9817     \begingroup
9818       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9819       \parfillskip -\@pnumwidth
9820       \leavevmode \bfseries
9821       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9822       \hskip -\if@RTL\rightskip\else\leftskip\fi
9823       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9824       \penalty\@highpenalty
9825     \endgroup
9826   \fi}
9827 }
9828 \renewcommand\left@footnoterule{%
9829   \kern-3\p@
9830   \hrule\@width.4\columnwidth
9831   \kern2.6\p@}
9832 \renewcommand\right@footnoterule{%
9833   \kern-3\p@
9834   \nointerlineskip
9835   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9836   \kern2.6\p@}
9837 \renewcommand\theequation
9838   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9839 \renewcommand \thefigure
9840   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9841 \renewcommand \thetable
9842   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9843 \renewcommand \thechapter {\@arabic\c@chapter}
9844 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9845 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9846 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9847 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9848 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9849 \def\@makechapterhead#1{%
9850   \vspace*{50\p@}%

```



```

9851 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9852 \ifnum \c@secnumdepth >\m@ne
9853 \if@mainmatter
9854 \huge\bfseries \@chapapp\space \thechapter
9855 \par\nobreak
9856 \vskip 20\p@
9857 \fi
9858 \fi
9859 \interlinepenalty\@M
9860 \Huge \bfseries #1\par\nobreak
9861 \vskip 40\p@
9862 }}
9863 \def\@makeschapterhead#1{%
9864 \vspace*{50\p@}%
9865 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9866 \normalfont
9867 \interlinepenalty\@M
9868 \Huge \bfseries #1\par\nobreak
9869 \vskip 40\p@
9870 }}
9871 \renewcommand\backmatter{%
9872 \if@openright
9873 \cleardoublepage
9874 \else
9875 \clearpage
9876 \fi
9877 \@mainmatterfalse}
9878 \IfPackageLoadedF{natbib}{%
9879 \renewenvironment{thebibliography}[1]
9880 {\chapter*{\bibname}%
9881 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9882 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9883 \bidi@thebibliography@font@hook%
9884 \list{\@biblabel{\@arabic\c@enumiv}}%
9885 {\settowidth\labelwidth{\@biblabel{#1}}%
9886 \leftmargin\labelwidth
9887 \advance\leftmargin\labelsep
9888 \@openbib@code
9889 \usecounter{enumiv}%
9890 \let\p@enumiv\@empty
9891 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9892 \sloppy
9893 \clubpenalty4000
9894 \@clubpenalty \clubpenalty
9895 \widowpenalty4000%
9896 \sfcode`\.\@m}
9897 {\def\@noitemerr
9898 {\@latex@warning{Empty `thebibliography' environment}}}%
9899 \endlist}
9900 }

```

66 File breqn-xetex-bidi.def

```

9901 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X

```




```

9902 \def\@dmath[#1]{\ifRTL\@RTLfalse\fi%
9903 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9904 \ifnoskipsec \leavevmode \fi
9905 \if@inlabel \leavevmode \global\@inlabelfalse \fi
9906 \if\eq@group\else\eq@prelim\fi
9907 \setkeys{breqn}{#1}%
9908 \the\eqstyle
9909 \eq@setnumber
9910 \begingroup
9911 \eq@setup@a
9912 \eq@startup
9913 }
9914 \def\@dgroup[#1]{\ifRTL\@RTLfalse\fi%
9915 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9916 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9917 \global\let\GRP@label\@empty
9918 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9919 \global\grp@linewidth\z@\global\grp@wdNum\z@
9920 \global\let\grp@eqs@numbered\@False
9921 \global\let\grp@aligned\@True
9922 \global\let\grp@shiftnumber\@False
9923 \eq@prelim
9924 \setkeys{breqn}{#1}%
9925 \if\grp@hasNumber \grp@setnumber \fi
9926 }
9927 \def\@dseries[#1]{\ifRTL\@RTLfalse\fi%
9928 \let\display@setup\dseries@display@setup
9929 % Question: should this be the default for dseries???
9930 \global\eq@wdCond\z@
9931 \@dmath[layout={M},#1]%
9932 \mathsurround\z@\@math \penalty\@Mi
9933 \let\endmath\ends@math
9934 \def\premath{%
9935 \ifdim\lastskip<.3em \unskip
9936 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9937 }%
9938 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9939 \ignorespaces
9940 }
9941 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9942 \renewenvironment{dsuspend}{%
9943 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9944 \parshape 1 \displayindent \displaywidth\relax
9945 \hsize=\columnwidth \noindent\ignorespaces
9946 }{%
9947 \par\egroup
9948 \global\setbox\GRP@box\vbox{%
9949 \hbox{\copy\EQ@box\top{\unvbox\EQ@box}}%
9950 \unvbox\GRP@box
9951 }%
9952 \global\GRP@queue\@xp{\the\GRP@queue
9953 \@elt{\let\eq@isIntertext\@True}%
9954 }%
9955 }

```



67 File cals-xetex-bidi.def

```
9956 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeT
9957 \renewcommand\cals@setup@alignment[1]{%
9958 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9959 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9960 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9961 }
9962 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9963 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9964 \if@RTLtab\cals@activate@rtl\fi
9965 \let\cals@thead@tokens=\relax
9966 \let\cals@tfoot@tokens=\relax
9967 \let\cals@tbreak@tokens=\relax
9968 \cals@tfoot@height=0pt \relax
9969 \let\cals@last@context=n%
9970 \let\cals@current@context=b%
9971 \parindent=0pt \relax%
9972 \cals@setup@alignment{#1}%
9973 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
9974 %% Alignment inside is independent on center/flushright outside
9975 \parfillskip=0pt plus1fil\relax
9976 \let\cals@borderL=\relax
9977 \let\cals@borderR=\relax
9978 \let\cals@borderT=\relax
9979 \let\cals@borderB=\relax
9980 \setbox\cals@backup@row=\box\voidb@x\relax
9981 \cals@AtBeginTable
9982 }{% End of the table
9983 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9984 \renewcommand\alignL{%
9985 \if@RTLtab
9986 \cals@vfillAdd\cals@paddingL
9987 \else
9988 \cals@vfillDrop\cals@paddingL
9989 \fi
9990 \cals@vfillDrop\cals@paddingR}
9991 \renewcommand\alignR{%
9992 \if@RTLtab
9993 \cals@vfillDrop\cals@paddingL
9994 \else
9995 \cals@vfillAdd\cals@paddingL
9996 \fi
9997 \cals@vfillDrop\cals@paddingR}
```

68 File caption-xetex-bidi.def

```
9998 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package f
9999 \let\@makecaption\caption@makecaption
```

69 File caption3-xetex-bidi.def

```
10000 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
10001 \renewcommand*\caption@{par{%
```



```
10002 \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%
```

70 File colortbl-xetex-bidi.def

```
10003 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package]
10004 \def\CT@setup{%
10005   \@tempdima\col@sep
10006   \@tempdimc\col@sep
10007   \def\CT@color{%
10008     \global\let\CT@do@color\CT@@do@color
10009     \bidicolor}}
10010 \def\@classz{\@classx
10011   \@tempcnta \count@
10012   \prepnext@tok
10013 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
10014   \@addtopreamble{\if@RTLtab\beginL\fi%
10015     \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
10016     \ifcase \@chnum
10017     \hskip\stretch{.5}\kern\z@
10018     \d@llarbegin
10019     \insert@column
10020     \d@llarend\hskip\stretch{.5}\or
10021     \d@llarbegin \insert@column \d@llarend \hfill \or
10022     \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
10023     $\vcenter
10024     \@startpbox{\@nextchar}\insert@column \@endpbox $\or
10025     \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
10026     \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
10027   \fi
10028   \if@RTLtab\endR\fi\egroup\egroup
10029 \begingroup
10030   \CT@setup
10031   \CT@column@color
10032   \CT@row@color
10033   \CT@cell@color
10034   \CT@do@color
10035 \endgroup
10036   \@tempdima\ht\z@
10037   \advance\@tempdima\minrowclearance
10038   \vrule\@height\@tempdima\@width\z@
10039   \unhbox\z@\if@RTLtab\endL\fi}%
10040 \prepnext@tok}
```

71 File color-xetex-bidi.def

```
10041 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for Xe]
10042 \long\def\color@b@x#1#2#3{%
10043   \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
10044   \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
10045   \dimen@ \ht\z@ \advance\dimen@ \fbboxsep \ht\z@ \dimen@
10046   \dimen@ \dp\z@ \advance\dimen@ \fbboxsep \dp\z@ \dimen@
10047   {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}}%
10048     \box\z@}\ifmmode\else\if@RTL\endL\fi\fi}
10049 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
```



```

10050 \DeclareRobustCommand\color{%
10051   \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi@ifnextchar[\@undeclaredcolor\@declaredcolor]
10052 \def\@declaredcolor#1{%
10053   \@ifundefined{\string\color @#1}%
10054     {\c@lor@error{`#1'}}%
10055     {\expandafter\let\expandafter\current@color
10056       \csname\string\color @#1\endcsname
10057       \set@color}%
10058   \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10059 \def\@undeclaredcolor[#1]#2{%
10060   \@ifundefined{color@#1}%
10061     {\c@lor@error{model `#1'}}%
10062     {\csname color@#1\endcsname\current@color{#2}%
10063       \set@color}%
10064   \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10065 \DeclareRobustCommand\bidicolor{%
10066   \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]
10067 \def\@bidiundeclaredcolor[#1]#2{%
10068   \@ifundefined{color@#1}%
10069     {\c@lor@error{model `#1'}}%
10070     {\csname color@#1\endcsname\current@color{#2}%
10071       \set@color}%
10072   \ignorespaces}
10073 \def\@bidideclaredcolor#1{%
10074   \@ifundefined{\string\color @#1}%
10075     {\c@lor@error{`#1'}}%
10076     {\expandafter\let\expandafter\current@color
10077       \csname\string\color @#1\endcsname
10078       \set@color}%
10079   \ignorespaces}
10080 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
10081 \def\color@fbox#1#2#3{%
10082   \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
10083 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

72 File combine-xetex-bidi.def

```

10084 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
10085 \renewcommand{\c@ll@chapsecii}[2]{%
10086   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
10087   \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
10088   #1\nobreak\hfil\nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10089 }
10090 \renewcommand{\c@ll@chapseci}{%
10091   \setlength\@tempdima{0em}%
10092   \begingroup
10093     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10094     \parfillskip -\@pnumwidth
10095     \leavevmode
10096 }
10097 \renewenvironment{tocindent}[1]{%
10098   \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```



73 File crop-xetex-bidi.def

```

10099 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for XeTeX]
10100 \IfClassLoadedT{memoir}{\endinput}
10101 \RequirePackage{graphicx}
10102 \renewcommand*{\CROP@ulc{%
10103   \if@RTLmain%
10104     \begin{picture}(0,0)
10105       \unitlength\p@\thinline
10106       \put(-40,0){\circle{10}}
10107       \put(-30,-5){\line(0,1){10}}
10108       \put(-35,0){\line(1,0){30}}
10109       \put(-10,30){\circle{10}}
10110       \put(-5,30){\line(1,0){10}}
10111       \put(0,35){\line(0,-1){30}}
10112     \end{picture}%
10113   \else%
10114     \begin{picture}(0,0)
10115       \unitlength\p@\thinline
10116       \put(-30,0){\circle{10}}
10117       \put(-30,-5){\line(0,1){10}}
10118       \put(-35,0){\line(1,0){30}}
10119       \put(0,30){\circle{10}}
10120       \put(-5,30){\line(1,0){10}}
10121       \put(0,35){\line(0,-1){30}}
10122     \end{picture}%
10123   \fi%
10124 }
10125 \renewcommand*{\CROP@urc{%
10126   \if@RTLmain%
10127     \begin{picture}(0,0)
10128       \unitlength\p@\thinline
10129       \put(20,0){\circle{10}}
10130       \put(30,-5){\line(0,1){10}}
10131       \put(35,0){\line(-1,0){30}}
10132       \put(-10,30){\circle{10}}
10133       \put(-5,30){\line(1,0){10}}
10134       \put(0,35){\line(0,-1){30}}
10135     \end{picture}%
10136   \else%
10137     \begin{picture}(0,0)
10138       \unitlength\p@\thinline
10139       \put(30,0){\circle{10}}
10140       \put(30,-5){\line(0,1){10}}
10141       \put(35,0){\line(-1,0){30}}
10142       \put(0,30){\circle{10}}
10143       \put(-5,30){\line(1,0){10}}
10144       \put(0,35){\line(0,-1){30}}
10145     \end{picture}%
10146   \fi%
10147 }
10148 \renewcommand*{\CROP@llc{%
10149   \if@RTLmain%
10150     \begin{picture}(0,0)

```



```

10151      \unitlength\p@\thinlines
10152      \put(-40,0){\circle{10}}
10153      \put(-30,-5){\line(0,1){10}}
10154      \put(-35,0){\line(1,0){30}}
10155      \put(-10,-30){\circle{10}}
10156      \put(-5,-30){\line(1,0){10}}
10157      \put(0,-35){\line(0,1){30}}
10158      \end{picture}%
10159      \else%
10160      \begin{picture}(0,0)
10161      \unitlength\p@\thinlines
10162      \put(-30,0){\circle{10}}
10163      \put(-30,-5){\line(0,1){10}}
10164      \put(-35,0){\line(1,0){30}}
10165      \put(0,-30){\circle{10}}
10166      \put(-5,-30){\line(1,0){10}}
10167      \put(0,-35){\line(0,1){30}}
10168      \end{picture}%
10169      \fi%
10170 }
10171 \renewcommand*\CROP@{\lrc}%
10172 \if@RTLmain%
10173     \begin{picture}(0,0)
10174     \unitlength\p@\thinlines
10175     \put(20,0){\circle{10}}
10176     \put(30,-5){\line(0,1){10}}
10177     \put(35,0){\line(-1,0){30}}
10178     \put(-10,-30){\circle{10}}
10179     \put(-5,-30){\line(1,0){10}}
10180     \put(0,-35){\line(0,1){30}}
10181     \end{picture}%
10182     \else%
10183     \begin{picture}(0,0)
10184     \unitlength\p@\thinlines
10185     \put(30,0){\circle{10}}
10186     \put(30,-5){\line(0,1){10}}
10187     \put(35,0){\line(-1,0){30}}
10188     \put(0,-30){\circle{10}}
10189     \put(-5,-30){\line(1,0){10}}
10190     \put(0,-35){\line(0,1){30}}
10191     \end{picture}%
10192     \fi%
10193 }
10194 \@ifpackagewith{crop}{cam}{%
10195 \CROP@except{cam}%
10196 }{}

```

74 File cutwin-xetex-bidi.def

```

10197 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10198 \renewcommand*{\c@twcompctr}[2]{%
10199   \def\c@twfirst{1}
10200   \loop\advance\c@twwinlines\m@ne
10201   \setbox\c@twslicea=\vsplit#1 to\baselineskip

```



```

10202 \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10203 \c@twprune{\c@twslicea}{\c@twlftside}%
10204 \c@twprune{\c@twsliceb}{\c@twrtside}%
10205 \ifnum\c@twfirst=\@ne
10206   \setbox#2=\vbox{\unvbox#2\hbox
10207     to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10208 \else
10209   \setbox#2=\vbox{\unvbox#2\hbox
10210     to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box\c@tw
10211 \fi
10212 \def\c@twfirst{2}
10213 \ifnum\c@twwinlines>\z@\repeat
10214 \renewcommand*{\c@twcompodctr}[2]{%
10215   \def\c@twrounds{1}
10216   \def\c@twfirst{1}
10217   \@for\c@twlspec:=\c@twb\do{%
10218     \ifnum\c@twrounds=1
10219       \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10220       \c@twprune{\c@twslicea}{\c@twlspec}%
10221       \def\c@twrounds{2}
10222     \else
10223       \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10224       \c@twprune{\c@twsliceb}{\c@twlspec}%
10225       \ifnum\c@twfirst=1
10226         \setbox#2=\vbox{\unvbox#2\hbox
10227           to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL\box\c@tw
10228         \def\c@twfirst{2}
10229       \else
10230         \setbox#2=\vbox{\unvbox#2\hbox
10231           to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\el
10232       \fi
10233       \def\c@twrounds{1}
10234     \fi}}

```

75 File cuted-xetex-bidi.def

```

10235 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for Xe
10236
10237 \def\RTL@outputdblcol{%
10238   \if@firstcolumn
10239     \global\@firstcolumnfalse
10240     \global\setbox\@leftcolumn\copy\@outputbox
10241     \splitmaxdepth\maxdimen
10242     \vbadness\maxdimen
10243     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10244     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10245     \toks@\expandafter{\topmark}%
10246     \xdef\@firstcoltopmark{\the\toks@}%
10247     \toks@\expandafter{\splitfirstmark}%
10248     \xdef\@firstcolfirstmark{\the\toks@}%
10249     \ifx\@firstcolfirstmark\@empty
10250       \global\let\@setmarks\relax
10251     \else
10252       \gdef\@setmarks{%

```



```

10253      \let\firstmark\@firstcolfirstmark
10254      \let\topmark\@firstcoltopmark}%
10255  \fi
10256 \else
10257   \global\@firstcolumntrue
10258   \setbox\@outputbox\vbox{%
10259     \hb@xt@\textwidth{%
10260       \hskip \columnwidth
10261       \hfil
10262       {\normalcolor\vrule \@width\columnseprule}%
10263       \hfil
10264       \hb@xt@\columnwidth{%
10265         \bidi@firstcolumn@status@write%
10266         \box\@leftcolumn \hss}%
10267       \hskip -\textwidth
10268       \hb@xt@\columnwidth{%
10269         \bidi@lastcolumn@status@write%
10270         \box\@outputbox \hss}%
10271       \hskip \columnsep
10272       \hskip \columnwidth }}%
10273   \ifvoid\hold@viper
10274   \else
10275     \setbox\@outputbox \vbox to\textheight{%
10276       \box\hold@viper
10277       \box\@outputbox
10278       \vss
10279       }%
10280   \fi
10281 \@@combinedblfloats
10282 \@@setmarks
10283 \@@outputpage
10284 \begin@group
10285   \@@dblfloatplacement
10286   \@@startdblcolumn
10287   \@@whilesw\if@fcolmade \fi{\@@outputpage
10288     \@@startdblcolumn}%
10289   \ifvoid\@viper
10290   \else
10291     \global\setbox\@viper\vbox{%
10292       \vskip-\stripsep
10293       \unvbox\@viper
10294       }%
10295     \@@viperoutput
10296   \fi
10297 \end@group
10298 \fi}%
10299
10300 \def\LTR@outputdblcol{%
10301   \if@firstcolumn
10302     \global\@firstcolumnfalse
10303     \global\setbox\@leftcolumn\copy\@outputbox
10304     \splitmaxdepth\maxdimen
10305     \vbadness\maxdimen
10306     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%

```




```

10307 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10308 \toks@\expandafter{\topmark}%
10309 \xdef\@firstcoltopmark{\the\toks@}%
10310 \toks@\expandafter{\splitfirstmark}%
10311 \xdef\@firstcolfirstmark{\the\toks@}%
10312 \ifx\@firstcolfirstmark\@empty
10313 \global\let\@setmarks\relax
10314 \else
10315 \gdef\@setmarks{%
10316 \let\firstmark\@firstcolfirstmark
10317 \let\topmark\@firstcoltopmark}%
10318 \fi
10319 \else
10320 \global\@firstcolumntrue
10321 \setbox\@outputbox\vbox{%
10322 \hb@xt@\textwidth{%
10323 \hb@xt@\columnwidth{%
10324 \bidi@firstcolumn@status@write%
10325 \box\@leftcolumn \hss}%
10326 \hfil
10327 {\normalcolor\vrule \@width\columnseprule}%
10328 \hfil
10329 \hb@xt@\columnwidth{%
10330 \bidi@lastcolumn@status@write%
10331 \box\@outputbox \hss}}}%
10332 \ifvoid\hold@viper
10333 \else
10334 \setbox\@outputbox \vbox to\textheight{%
10335 \box\hold@viper
10336 \box\@outputbox
10337 \vss
10338 }%
10339 \fi
10340 \@combinedblfloats
10341 \@setmarks
10342 \@outputpage
10343 \beginingroup
10344 \@dblfloatplacement
10345 \@startdblcolumn
10346 \@whilesw\if@fcolmade \fi{\@outputpage
10347 \@startdblcolumn}%
10348 \ifvoid\@viper
10349 \else
10350 \global\setbox\@viper\vbox{%
10351 \vskip-\stripsep
10352 \unvbox\@viper
10353 }%
10354 \@viperoutput
10355 \fi
10356 \endgroup
10357 \fi}%
10358
10359 \def\@addviper{%
10360 \@insertfalse

```



```

10361 \def\var@@thecol@num{2}%
10362 \if@firstcolumn
10363     \def\var@@thecol@num{1}%
10364     \@reqcolroom=.5\@pageht
10365     \ht@viper=\@reqcolroom
10366     \advance\@reqcolroom by\ht\@viper
10367     \advance\@reqcolroom by\stripsep
10368 \else
10369     \@reqcolroom=\@colht
10370     \advance\@reqcolroom by\@pageht
10371     \ht@viper.5\@reqcolroom
10372     \@reqcolroom=\ht@viper
10373     \advance\@reqcolroom by\ht\@viper
10374     \advance\@reqcolroom by\stripsep
10375     \global\setbox\@holdpg\vbox{%
10376         \setbox\cuted@@tempbox@a\vbox{%
10377             \aftergroup\unvbox
10378             \unvcopy\@leftcolumn
10379             \unskip\unkern\unpenalty
10380             \setbox\@tempbox@a\lastbox
10381             \ifdim\dimexpr\ht\@tempbox@a+\wd\@tempbox@a+\dp\@tempbox@a>\z@
10382                 %% keeps lastbox
10383                 \aftergroup\@leftcolumn
10384             \else
10385                 %% removes lastbox
10386                 \aftergroup\cuted@@tempbox@a
10387             \fi
10388             }%
10389             \unskip\unkern\unpenalty
10390             \on@stripcols@break
10391             \the\At@ViperColsBreak
10392             \unvbox\@holdpg
10393             }%
10394     \global\At@ViperColsBreak{}%
10395     \ht@viper=.5\ht\@holdpg
10396     \ifdim\ht@viper>\@colht
10397         \ht@viper=\@colht
10398     \fi
10399 \fi
10400 %%
10401 %% calculations for breaking
10402 %%
10403 \ifvoid\hold@viper
10404     \ht@hold@viper=\z@
10405 \else
10406     \ht@hold@viper=\ht\hold@viper
10407 \fi
10408 \cuted@@tempdim@b\ht@viper
10409 \set@split@topskip@to\topskip
10410 \loop
10411     \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10412     \setbox\cuted@@varbox@a\copy\@holdpg
10413     \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10414     %% set leftcolumn boxes

```



```

10415 \setbox\cuted@@tempbox@c\ vbox{\unvbox\cuted@@tempbox@a}%
10416 \setbox\cuted@@tempbox@a\ vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10417 \xdef\var@@leftcolumn@badness{\the\badness}%
10418 %% set rightcolumn boxes
10419 \setbox\cuted@@varbox@c\ vbox{\unvbox\cuted@@varbox@a}%
10420 \setbox\cuted@@varbox@a\ vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10421 \xdef\var@@rightcolumn@badness{\the\badness}%
10422 %% analyzing split goodness
10423 \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10424 \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10425 \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10426 \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10427 \cuted@@wlog@debug{CUTED [----]}%
10428 ^^JLeft: \the\ht\cuted@@tempbox@c
10429 +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10430 ^^JRight: \the\ht\cuted@@varbox@c
10431 +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10432 ^^JSplit: \the\cuted@@tempdim@b
10433 ^^JExtra height: \the\cuted@@tempdim@spread
10434 }%
10435 \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10436 \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10437 \cuted@@tempdim@spread=\z@
10438 \fi
10439 \fi
10440 \ifdim\cuted@@tempdim@spread<\z@
10441 \if@leftcolumn@spread
10442 \if@rightcolumn@shrink
10443 \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10444 \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread
10445 \else
10446 \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10447 \fi
10448 \setbox\cuted@@varbox@a\ vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10449 \ifnum\badness<\cuted@@column@badness
10450 \cuted@@tempdim@b=\cuted@@tempdim@a
10451 \cuted@@tempdim@spread=\z@
10452 \fi
10453 \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on }
10454 \setbox\cuted@@varbox@a\ vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
10455 \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on }
10456 \else
10457 \setbox\cuted@@varbox@a\ vbox to\ht\cuted@@varbox@c{
10458 \unvcopy\cuted@@tempbox@c
10459 }%
10460 \ifnum\badness<\cuted@@column@badness
10461 \@tempdimb=\ht\cuted@@varbox@c
10462 \cuted@@tempdim@spread=\z@
10463 \fi
10464 \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\ht}
10465 \setbox\cuted@@varbox@a\ vbox to\ht\cuted@@varbox@c{
10466 \unvcopy\cuted@@varbox@c
10467 }%
10468 \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\ht}

```



```

10469         \fi
10470     \else
10471         \if@right@column@shrink
10472             \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10473             \else
10474                 \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10475                 \cuted@@tempdim@spread=\z@
10476             \fi
10477         \fi
10478     \fi
10479 \else
10480     \ifdim\cuted@@tempdim@spread>\z@
10481         \ifdim\dimexpr\@tempdimb+p@\relax>\@colht
10482             \cuted@@tempdim@b=\@colht
10483             \cuted@@tempdim@spread=\z@
10484         \fi
10485     \fi
10486 \fi
10487 \ifdim\cuted@@tempdim@spread<\z@
10488     \advance\cuted@@tempdim@b 1\p@
10489 \repeat
10490 \wlog{CUTED [- LAST -]%
10491     ^^JExtra skip:\the\cuted@@tempdim@spread
10492     ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10493     ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10494     ^^JSplit:\saved@tempdimb
10495     ^^JOutput:\the\cuted@@tempdim@b
10496     ^^JPageshrink:\the\pageshrink
10497     ^^JPagestretch:\the\pagestretch
10498     ^^J@colht:\the\@colht
10499 }%
10500 %%
10501 %% final construction of the cuted page above strip
10502 %%
10503 \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10504 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10505     \cuted@@tempdim@a=\dimexpr
10506         \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10507         \relax
10508     \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10509     \unvbox\cuted@@tempbox@c
10510     \ifdim\cuted@@tempdim@spread>\dp\strutbox
10511     \else
10512         \vskip-\cuted@@tempdim@spread
10513     \fi
10514     \prevdepth\z@
10515     \hrule\@height\cuted@@page@rule width\textwidth
10516     \vskip-\cuted@@page@rule
10517     \ifdim\cuted@@tempdim@a>\z@
10518         \if@left@column@spread
10519         \else
10520             \vss
10521         \fi
10522     \else

```



```

10523         \ifdim\cuted@@tempdim@a<\z@
10524             \if@left@column@shrink
10525             \else
10526                 \vss
10527             \fi
10528         \fi
10529     \fi
10530 }%
10531 \wlog{CUTED [output]: \the\cuted@@tempdim@b
10532 ^~JCUTED [leftcolumn badness]: \number\badness
10533 }%
10534 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10535     \cuted@@tempdim@a=\dimexpr
10536         \cuted@@tempdim@b-\ht\@holdpg
10537     \relax
10538     \unvbox\@holdpg
10539     \ifdim\cuted@@tempdim@a>\z@
10540         \if@right@column@spread
10541         \else
10542             \vss
10543         \fi
10544     \else
10545         \ifdim\cuted@@tempdim@a<\z@
10546             \if@right@column@shrink
10547             \else
10548                 \vss
10549             \fi
10550         \fi
10551     \fi
10552 }%
10553 \wlog{CUTED [rightcolumn badness]: \number\badness}%
10554 \setbox\cuted@@tempbox@var\vbox{%
10555     \hb@xt@\textwidth{%
10556         \if@RTLmain
10557             \hskip \columnwidth
10558             \hfil
10559             {\normalcolor\vrule \@width\columnseprule}%
10560             \hfil
10561             \hb@xt@\columnwidth{%
10562                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10563                 \hss
10564             }%
10565             \hskip -\textwidth
10566             \hb@xt@\columnwidth{%
10567                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10568                 \hss
10569             }%
10570             \hskip \columnsep
10571             \hskip \columnwidth
10572         \else
10573             \hb@xt@\columnwidth{%
10574                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10575                 \hss
10576             }%

```



```

10577         \hfil
10578         {\normalcolor\vrule \@width\columnseprule}%
10579         \hfil
10580         \hb@xt@\columnwidth{%
10581             \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10582             \hss
10583         }%
10584     \fi
10585     }%
10586 }%
10587 %%
10588 %% finalize cuted page
10589 %%
10590 \ifvoid\hold@viper
10591     \global\setbox\hold@viper\vbox{%
10592         \unvbox\cuted@@tempbox@var
10593         \penalty\interlinepenalty
10594         \vskip\stripsep
10595         \the\preCutedStrip
10596         \ifnum\outputpenalty<-\@Mii
10597             \vskip -\parskip
10598         \fi
10599         \outputpenalty\z@
10600     }%
10601 \else
10602     \global\setbox\hold@viper\vbox{%
10603         \unvbox\hold@viper
10604         \cuted@@tempbox@var
10605         \penalty\interlinepenalty
10606         \vskip\stripsep
10607         \the\preCutedStrip
10608         \ifnum\outputpenalty<-\@Mii
10609             \vskip -\parskip
10610         \fi
10611         \outputpenalty\z@
10612     }%
10613 \fi
10614 \ifdim\@colht>\@reqcolroom
10615     \global\setbox\hold@viper\vbox{%
10616         \unvbox\hold@viper
10617         \box\@viper
10618         \penalty\interlinepenalty
10619         \the\postCutedStrip
10620         \vskip\stripsep
10621         \ifnum\outputpenalty<-\@Mii
10622             \vskip -\parskip
10623         \fi
10624         \outputpenalty\z@
10625     }%
10626 \@inserttrue
10627 \global\@firstcolumntrue
10628 \advance\ht@hold@viper by-\ht\hold@viper
10629 \global\advance\@colht by\ht@hold@viper
10630 \ifdim\@colht<2.5\baselineskip

```



```

10631         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10632                                     too tall on page \thepage (\var@thecol@num column)}}%
10633         \@emptycol
10634         \if@firstcolumn
10635         \else
10636             \@emptycol
10637         \fi
10638         \global\@lastvipertrue
10639     \else
10640         \global\vsizel\colht
10641         \global\@colroom\colht
10642         \check@floats\cuted@tempdim@a
10643         \ifdim\cuted@tempdim@a>\z@
10644             \global\advance\@colroom by-\cuted@tempdim@a
10645         \fi
10646         \ifdim\@colroom<\z@
10647             \global\@colroom1\p@
10648             \ifdim\cuted@tempdim@a>\colht
10649                 \@latex@warning@no@line{TOP and/or BOT FLOAT's
10650                                         to large on \thepage (\var@thecol@num column)}}%
10651             \fi
10652             \@emptycol
10653             \if@firstcolumn
10654             \else
10655                 \@emptycol
10656             \fi
10657             \global\@lastvipertrue
10658         \fi
10659     \fi
10660 \fi
10661 \if@insert
10662 \else
10663     \advance\ht@hold@viper by-\ht\hold@viper
10664     \global\advance\@colht by\ht\hold@viper
10665     \global\setbox\hold@viper\ vbox{%
10666         \unvbox\hold@viper
10667         \set@split@topskip@to{\z@ plus2\p@}%
10668         \vsplit\@viper to\@colht
10669         \vss
10670     }%
10671     \vbox{}%
10672     \global\@firstcolumnfalse
10673     \newpage
10674 \fi
10675 }

```

76 File cvthemebidicasual.sty

```

10676 \NeedsTeXFormat{LaTeX2e}
10677 \ProvidesPackage{cvthemebidicasual}
10678 \DeclareOption{blue}{}
10679 \newif\if@colourorange\@colourorangefalse
10680 \DeclareOption{orange}{\@colourorangetrue}
10681 \newif\if@colourgreen\@colourgreenfalse

```



```

10682 \DeclareOption{green}{\@colougreenttrue}
10683 \newif\if@coloured\@colouredfalse
10684 \DeclareOption{red}{\@colouredtrue}
10685 \newif\if@colourgrey\@colourgreyfalse
10686 \DeclareOption{grey}{\@colourgreytrue}
10687 \DeclareOption*{
10688   \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10689 \ExecuteOptions{colour}
10690 \ProcessOptions\relax
10691 \renewcommand*{\listitemsymbol}{\textbullet}
10692 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10693 \familynamecolour{808080}
10694 \firstnamecolour{A9A9A9}
10695 \quotecolour{696969}
10696 \addresscolour{696969}
10697 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10698 \sectiontitlecolour{1E90FF}
10699 \subsectioncolour{4682B4}
10700 \definecolor{rulecolour}{gray}{0.6}
10701 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10702 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10703 \if@colourorange
10704   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10705   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10706   \sectiontitlecolour{FF8C00}
10707   \subsectioncolour{FF8C00}
10708   \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10709   \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10710 \if@colougreen
10711   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10712   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10713   \sectiontitlecolour{008000}
10714   \subsectioncolour{008000}
10715   \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10716   \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10717 \if@coloured
10718   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10719   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10720   \sectiontitlecolour{FF0000}
10721   \subsectioncolour{FF0000}
10722   \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10723   \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10724 \if@colourgrey
10725   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10726   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10727   \sectiontitlecolour{808080}
10728   \subsectioncolour{808080}
10729   \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10730   \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10731 \renewcommand*{\ttdefault}{pcr}
10732 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10733 \renewcommand*{\familynamefont}{\firstnamefont}
10734 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10735 \renewcommand*{\quote font}{\large\slshape}

```




```

10736 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10737 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10738 \renewcommand*{\maketitle}{%
10739   {%
10740     \ifthenelse{\isundefined{\@photo}}{%
10741       {}%
10742       {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10743     \hfill%
10744     \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
10745     {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10746   \ifthenelse{\isundefined{\@quote}}{%
10747     {}%
10748     {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
10749   }%
10750 \newif\if@firstfooterelement\@firstfooterelementtrue
10751 \providecommand*{\footersymbol}{}
10752 \renewcommand*{\footersymbol}{%
10753   \if@firstfooterelement%
10754   \else%
10755     { ~\color{footersymbolcolor}\textbullet~~}\fi}
10756 \providecommand*{\makefooter}{}
10757 \renewcommand*{\makefooter}{%
10758   \fancypagestyle{plain}{%
10759     \fancyfoot[c]{%
10760       \parbox{0.8\textwidth}{%
10761         \centering%
10762         \addressfont\@addresscolour%
10763         \ifthenelse{\isundefined{\@address}}{}{}%
10764         \addresssymbol~\@address\%
10765         \@firstfooterelementfalse}%
10766         \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10767         \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10768         \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
10769         \ifthenelse{\isundefined{\@email}}{}{\footersymbol\emailsymbol~\email\@firstfooterelementfalse}%
10770         \ifthenelse{\isundefined{\@extrainfo}}{}{\footersymbol\@extrainfo\@firstfooterelementfalse}%
10771       }%
10772     \pagestyle{plain}}
10773 \AtBeginDocument{\makefooter}

```

77 File cvthemebidiclassic.sty

```

10774 \NeedsTeXFormat{LaTeX2e}
10775 \ProvidesPackage{cvthemebidiclassic}
10776 \DeclareOption{blue}{}
10777 \newif\if@colourorange\@colourorangefalse
10778 \DeclareOption{orange}{\@colourorange>true}
10779 \newif\if@colourgreen\@colourgreenfalse
10780 \DeclareOption{green}{\@colourgreentru}
10781 \newif\if@colourred\@colourredfalse
10782 \DeclareOption{red}{\@colourredtrue}
10783 \newif\if@colourgrey\@colourgreyfalse
10784 \DeclareOption{grey}{\@colourgreytrue}
10785 \DeclareOption*{
10786   \PackageWarning{cvthemebidiclassic}{Unknown option '\CurrentOption'}}

```



```

10787 \ExecuteOptions{colour}
10788 \ProcessOptions\relax
10789 \renewcommand*{\listitemsymbol}{\textbullet}
10790 \firstnamecolour{}
10791 \familynamecolour{}
10792 \titlecolour{808080}
10793 \quotecolour{696969}
10794 \addresscolour{696969}
10795 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10796 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10797 \sectiontitlecolour{1E90FF}
10798 \subsectioncolour{4682B4}
10799 \if@colourorange
10800 \addresscolour{FF8C00}
10801 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10802 \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10803 \sectiontitlecolour{FF8C00}
10804 \subsectioncolour{FF8C00}\fi
10805 \if@colourgreen
10806 \addresscolour{008000}
10807 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10808 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10809 \sectiontitlecolour{008000}
10810 \subsectioncolour{008000}\fi
10811 \if@colourred
10812 \addresscolour{FF0000}
10813 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10814 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10815 \sectiontitlecolour{FF0000}
10816 \subsectioncolour{FF0000}\fi
10817 \if@colourgrey
10818 \addresscolour{808080}
10819 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10820 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10821 \sectiontitlecolour{808080}
10822 \subsectioncolour{808080}\fi
10823 \renewcommand*{\ttdefault}{pcr}
10824 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10825 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10826 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10827 \renewcommand*{\familynamefont}{\firstnamefont}
10828 \renewcommand*{\quoteont}{\large\slshape}
10829 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10830 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10831 \newlength{\maketitlemaxwidth}
10832 \setlength{\maketitlemaxwidth}{.525\textwidth}
10833 \newlength{\maketitlefullwidth}
10834 \settowidth{\maketitlefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10835 \newlength{\maketitlewidth}
10836 \ifnum\maketitlemaxwidth<\maketitlefullwidth\setlength{\maketitlewidth}{\maketitlefullwidth}\fi
10837 \newlength{\maketitlepicturewidth}
10838 \setlength{\maketitlepicturewidth}{\@photowidth}
10839 \newlength{\maketitledetailwidth}
10840 \renewcommand*{\recomputethemelengths}{%

```



```

10841 \setlength{\maketitledetailswidth}{\textwidth}%
10842 \addtolength{\maketitledetailswidth}{-\maketitlelinewidth}%
10843 \addtolength{\maketitledetailswidth}{-\separatorcolumnwidth}%
10844 \addtolength{\maketitledetailswidth}{-\maketitlepicturewidth}%
10845 \recomputethemelengths
10846 \newif\if@firstdetailselement\@firstdetailselementtrue
10847 \newcommand*{\maketitledetailsnewline}{
10848   \if@firstdetailselement%
10849     \@firstdetailselementfalse%
10850   \else%
10851     \[.2em]\fi}
10852 \renewcommand*{\maketitle}{%
10853   % name and title
10854   \begin{minipage}[b]{\maketitlelinewidth}%
10855     \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10856     \ifthenelse{\equal{\@title}{}}{\[1.25em]\titlestyle{\@title}}%
10857   \end{minipage}%
10858   % optional data
10859   \begin{minipage}[b]{\maketitledetailswidth}%
10860     \bidi@raggedleft\addressfont\@addresscolour%
10861     \ifthenelse{\isundefined{\@address}}{\}%
10862     \maketitledetailsnewline%
10863     \addresssymbol~\@address%
10864     \ifthenelse{\isundefined{\@mobile}}{\}\maketitledetailsnewline\mobilesymbol~\@mobile}%
10865     \ifthenelse{\isundefined{\@phone}}{\}\maketitledetailsnewline\phonesymbol~\@phone}%
10866     \ifthenelse{\isundefined{\@fax}}{\}\maketitledetailsnewline\faxsymbol~\@fax}%
10867     \ifthenelse{\isundefined{\@email}}{\}\maketitledetailsnewline\emailsymbol~\emailink{\@e
10868     \ifthenelse{\isundefined{\@extrainfo}}{\}\maketitledetailsnewline\@extrainfo}%
10869   \end{minipage}%
10870   % optional photo
10871   \ifthenelse{\isundefined{\@photo}}{\}%
10872   {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=
10873   % optional quote
10874   \ifthenelse{\isundefined{\@quote}}{\}%
10875   {\}%
10876   {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
10877   }
10878 }

```

78 File dblfnote-xetex-bidi.def

```

10879 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10880 \let\autofooterule\relax
10881 \let\rightfootnoterule\relax
10882 \let\leftfootnoterule\relax
10883 \let\textwidthfootnoterule\relax
10884 \let\LRfootnoterule\relax
10885 \def\footnoterule{\kern-3\p@
10886   \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10887 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10888 \let\@footnotetext\dfn@footnotetext}
10889 \long\def\dfn@LTRfootnotetext#1{\setbox\dfn@box\vbox{
10890   \let\insert\dfn@gobble
10891   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness

```



```

10892 \def\@makefnmark{\smash{\dfn@makefnmark}}
10893 \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10894 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10895 \ifdim\dfn@dima>\z@\else
10896 \dfn@dima1sp\relax
10897 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10898 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10899 \ifvoid\dfn@ins\else
10900 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10901 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10902 \setbox\dfn@boxa\copy\dfn@ins
10903 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10904 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10905 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10906 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10907 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10908 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10909 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10910 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10911 \let\insert\dfn@gobble
10912 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10913 \def\@makefnmark{\smash{\dfn@makefnmark}}
10914 \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10915 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10916 \ifdim\dfn@dima>\z@\else
10917 \dfn@dima1sp\relax
10918 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10919 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10920 \ifvoid\dfn@ins\else
10921 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10922 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10923 \setbox\dfn@boxa\copy\dfn@ins
10924 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10925 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10926 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10927 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10928 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10929 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10930 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10931 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10932 \dfn@dima\ht\footins
10933 \@tempcnta\z@ \dfn@countins
10934 \@tempdima\z@ \let\@elt\dfn@elt\getht
10935 \dfn@list\@nil
10936 \ifdim\@tempdima=\z@\else
10937 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10938 \global\setbox\dfn@ins\box\dfn@ins
10939 \@tempswatrue
10940 \ifdfn@trysingle
10941 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10942 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10943 \advance\@tempdima-\skip\footins
10944 \advance\@tempdima-\ht\dfn@boxa
10945 \ifdim\@tempdima<\z@\else \@tempswafalse

```



```

10946             \global\setbox\footins\vbox{\boxmaxdepth\dfn\fnmaxdp
10947             \footnoterule \unvbox\dfn@boxa}\fi\fi
10948 \if@tempswa
10949 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn\fnmaxdp\footnotesep
10950 \global\setbox\footins\vbox{\hbox{%
10951     \hskip \DFNcolumnwidth
10952     \hskip\DFNcolumnsep
10953     \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10954         \unvbox\dfn@boxb\vss}\hss}
10955     \hskip -\textwidth
10956     \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10957         \vbox to\@tempdima{
10958             \setbox\@tempboxa\vbox{\footnoterule}
10959             \ifdfn@ruleboth \unvbox\@tempboxa
10960             \else \@tempdima\ht\@tempboxa
10961                 \advance\@tempdima\dp\@tempboxa
10962                 \vskip\@tempdima
10963                 \prevdepth\dp\@tempboxa \fi
10964             \unvbox\dfn@boxa\vss}\fi\hss}
10965             \hskip \DFNcolumnsep
10966             \hskip \DFNcolumnwidth}}\fi\fi
10967 \global\dfn\fnht\z@
10968 \ifx\dfn@list\@empty\else
10969     \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dima\z@
10970     \dfn@list \global\advance\dfn\fnht\dfn@dima
10971     \let\@elt\relax
10972     \ifdim\dfn@dima>\z@
10973         \xdef\dfn@list{\@elt{0}{\number\dfn@dima}\dfn@list}%
10974         \insert\footins{\floatingpenalty\@MM
10975             \vbox to\dfn@dima{}}\fi
10976     \ifdim\dfn\fnht>\@tempdima
10977         \@tempdima\@tempdima \advance\@tempdima-\dfn\fnht
10978         \global\dfn\fnht\@tempdima
10979         \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdima}}%
10980         \xdef\dfn@afteroutput{\insert\footins{
10981             \floatingpenalty\@MM
10982             \vbox to\number\@tempdima sp{}}}%
10983         \global\let\noexpand\dfn@afteroutput\relax}%
10984     \fi\fi
10985 \fi}%
10986 \let\footnoterule\relax \dfn@latex@makecol
10987 \let\footnoterule\dfn@footnoterule}
10988 \def\dfn@LTRmakecol{\ifvoid\footins\else
10989     \dfn@dima\ht\footins
10990     \@tempcnta\z@ \dfn@countins
10991     \@tempdima\z@ \let\@elt\dfn@elt@getht
10992     \dfn@list\@nil
10993     \ifdim\@tempdima=\z@\else
10994         \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10995         \global\setbox\dfn@ins\box\dfn@ins
10996         \@tempwatrua
10997         \ifdfn@trysingle
10998             \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10999             \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb

```



```

11000      \advance\@tempdima-\skip\footins
11001      \advance\@tempdima-\ht\dfn@boxa
11002      \ifdim\@tempdima<z@else \@tempswafalse
11003          \global\setbox\footins\ vbox{\boxmaxdepth\dfn@fnmaxdp
11004              \footnoterule \unvbox\dfn@boxa}\fi\fi
11005      \if@tempswa
11006      \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
11007      \global\setbox\footins\ vbox{\hbox{%
11008          \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
11009              \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
11010          \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
11011              \vbox to\@tempdima{
11012                  \setbox\@tempboxa\vbox{\footnoterule}
11013                  \ifdfn@ruleboth \unvbox\@tempboxa
11014                  \else \@tempdima\ht\@tempboxa
11015                      \advance\@tempdima\dp\@tempboxa
11016                      \vskip\@tempdima
11017                      \prevdepth\dp\@tempboxa \fi
11018                  \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
11019      \global\dfn@fnht\z@
11020      \ifx\dfn@list\@empty\else
11021          \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
11022          \dfn@list \global\advance\dfn@fnht\dfn@dimb
11023          \let\@elt\relax
11024          \ifdim\dfn@dimb>z@
11025              \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
11026              \insert\footins{\floatingpenalty\@MM
11027                  \vbox to\dfn@dimb{}}\fi
11028          \ifdim\dfn@fnht>\@tempdima
11029              \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
11030              \global\dfn@fnht\@tempdima
11031              \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
11032              \xdef\dfn@afteroutput{\insert\footins{
11033                  \floatingpenalty\@MM
11034                  \vbox to\number\@tempdimb sp{}}}%
11035              \global\let\noexpand\dfn@afteroutput\relax}%
11036          \fi\fi
11037      \fi}%
11038      \let\footnoterule\relax \dfn@latex@makecol
11039      \let\footnoterule\dfn@footnoterule}
11040 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
11041 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
11042 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
11043 \DFNalwaysdouble

```

79 File diagbox-xetex-bidi.def

```

11044 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
11045 \bidi@patchcmd{\diagbox@double}{%
11046     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11047 }{\bidi@diagbox@double@ii}{-}{-}
11048 \bidi@patchcmd{\diagbox@double}{%
11049     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11050 }{\bidi@diagbox@double@iii}{-}{-}

```



```

11051 \newcommand*{\bidi@diagbox@double@ii}{%
11052   \if@RTL
11053     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}%
11054     \else
11055       \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}%
11056     \fi
11057 }
11058 \newcommand*{\bidi@diagbox@double@iii}{%
11059   \if@RTL
11060     \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}%
11061     \else
11062       \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}%
11063     \fi
11064 }
11065 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11066   \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}%
11067 }{\bidi@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11068 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11069   \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}%
11070 }{\bidi@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11071 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11072   \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}%
11073 }{\bidi@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
11074 \newcommand*{\bidi@diagbox@triple@setbox@NW@tabular@i@ii}{%
11075   \if@RTL
11076     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}%
11077     \else
11078       \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}%
11079     \fi
11080 }
11081 \if@RTL
11082   \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}%
11083   \else
11084     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}%
11085   \fi
11086 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
11087 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11088   \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}%
11089 }{\bidi@diagbox@triple@setbox@SE@tabular@i}{-}{-}
11090 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11091   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11092 }{\bidi@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11093 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11094   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11095 }{\bidi@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11096 \newcommand*{\bidi@diagbox@triple@setbox@SE@tabular@i}{%
11097   \if@RTL
11098     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11099     \else
11100       \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}%
11101     \fi
11102 }
11103 \newcommand*{\bidi@diagbox@triple@setbox@SE@tabular@ii@iii}{%
11104   \if@RTL

```



```

11105 \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11106 \else
11107 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11108 \fi
11109 }
11110 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11111 \bidi@patchcmd{\diagbox@double@pict@SE}{%
11112 \diagbox@setlinecolor
11113 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11114 }{%
11115 {\diagbox@setlinecolor
11116 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11117 }{}{}
11118 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11119 \bidi@patchcmd{\diagbox@double@pict@NE}{%
11120 \diagbox@setlinecolor
11121 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
11122 }{%
11123 {\diagbox@setlinecolor
11124 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11125 }{}{}
11126 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11127 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11128 \diagbox@setlinecolor
11129 \Line(0,\yym)(\x,0)
11130 \Line(\xm,\y)(\x,0)%
11131 }{%
11132 {\diagbox@setlinecolor
11133 \Line(0,\yym)(\x,0)
11134 \Line(\xm,\y)(\x,0)}%
11135 }{}{}
11136 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11137 \diagbox@setlinecolor
11138 \Line(0,0)(\xxm,\y)
11139 \Line(0,0)(\x,\yym)%
11140 }{%
11141 {\diagbox@setlinecolor
11142 \Line(0,0)(\xxm,\y)
11143 \Line(0,0)(\x,\yym)}%
11144 }{}{}
11145 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11146 \diagbox@setlinecolor
11147 \Line(0,\ym)(\x,\y)
11148 \Line(\xm,0)(\x,\y)%
11149 }{%
11150 {\diagbox@setlinecolor
11151 \Line(0,\ym)(\x,\y)
11152 \Line(\xm,0)(\x,\y)}%
11153 }{}{}
11154 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11155 \diagbox@setlinecolor
11156 \Line(0,\y)(\xxm,0)
11157 \Line(0,\y)(\x,\ym)%
11158 }{%

```




```

11159 {\diagbox@setlinecolor
11160 \Line(0,\y)(\xxm,0)
11161 \Line(0,\y)(\x,\ym)}%
11162 }{}{}

```

80 File draftwatermark-xetex-bidi.def

```

11163 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
11164 \renewcommand\SetWatermarkText[1]{%
11165 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

81 File eso-pic-xetex-bidi.def

```

11166 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
11167 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11168 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}%
11169
11170 \ESO@isMEMOIR{%
11171 \renewcommand\AtTextUpperLeft[1]{%
11172 \begingroup
11173 \ifodd\c@page
11174 \if@RTLmain
11175 \ESO@tempdima=\paperwidth
11176 \advance\ESO@tempdima-\textwidth
11177 \advance\ESO@tempdima-\spinemargin
11178 \else
11179 \ESO@tempdima=\spinemargin
11180 \fi
11181 \else
11182 \if@RTLmain
11183 \ESO@tempdima=\spinemargin
11184 \else
11185 \ESO@tempdima=\paperwidth
11186 \advance\ESO@tempdima-\textwidth
11187 \advance\ESO@tempdima-\spinemargin
11188 \fi
11189 \fi
11190 \ESO@tempdimb=-\uppermargin
11191 \AtPageUpperLeft{%
11192 \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11193 }%
11194 \endgroup
11195 }
11196 }{%
11197 \renewcommand\AtTextUpperLeft[1]{%
11198 \begingroup
11199 \ESO@tempdima=1in\relax
11200 \if@twoside
11201 \ifodd\c@page
11202 \if@RTLmain
11203 \advance\ESO@tempdima\evensidemargin
11204 \else
11205 \advance\ESO@tempdima\oddsidemargin
11206 \fi

```



```

11207         \else
11208         \if@RTLmain
11209             \advance\ESO@tempdima\oddsidemargin
11210         \else
11211             \advance\ESO@tempdima\evensidemargin
11212         \fi
11213     \fi
11214 \else
11215     \advance\ESO@tempdima\oddsidemargin
11216 \fi
11217 \ESO@tempdimb=-1in\relax
11218 \advance\ESO@tempdimb-\topmargin
11219 \advance\ESO@tempdimb-\headheight
11220 \advance\ESO@tempdimb-\headsep
11221 \AtPageUpperLeft{%
11222     \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11223 }%
11224 \endgroup
11225 }
11226 }

```

82 File empheq-xetex-bidi.def

```

11227 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11228 \MHInternalSyntaxOn
11229 \def\EQ_tag_plus_endmark:{%
11230     \iftagsleft@
11231         \gdef\maketag@@@#1{%
11232             \hfuzz\displaywidth
11233             \if@RTL\makebox[\widthof{##1}][r]{%
11234                 \hbox to \displaywidth{\m@th\normalfont##1\hss
11235                     \raisebox{-\dp\EQ_mathdisplay_box
11236                         -\depthof{\EQ_outerbox:}}{
11237                         {\PotEndMark{\hss}}}}
11238             \else\makebox[\widthof{##1}][l]{%
11239                 \hbox to \displaywidth{\m@th\normalfont##1\hss
11240                     \raisebox{-\dp\EQ_mathdisplay_box
11241                         -\depthof{\EQ_outerbox:}}{
11242                         {\PotEndMark{\hss}}}}\fi}%
11243 \MH_else:
11244     \gdef\maketag@@@#1{%
11245         \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11246             \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}%
11247             \MH_addtolength:dn \@tempdima
11248             {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11249             \setlength{\@tempdimb}
11250             {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11251             +\depthof{\EQ_innerbox:}}}
11252         \MH_if_dim:w \@tempdima>\@tempdimb
11253         \MH_setlength:dn \@tempdima>-\dp\EQ_mathdisplay_box
11254         -\@tempdima+\g_EQ_bottomrow_depth_dim}
11255         \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}
11256         \def\EQ_next:{\raisebox{\@tempdima}}%
11257 \MH_else:

```



```

11258         \def\EQ_next:{
11259             \raisebox{-\dp\EQ_mathdisplay_box
11260                 -\depthof{\EQ_outerbox:{}}}%
11261             \MH_fi:\EQ_next:}}}%
11262     \MH_fi:}
11263 \def\EQ_post_process:{%
11264     \EQ_initialize:
11265     \EQ_begin_equation:
11266     \MH_if_boolean:nT {outer_mult}{
11267         \setkeys{MT_options_name:}{
11268             firstline-afterskip=0pt,
11269             lastline-preskip=0pt,
11270             multlined-width=0pt,
11271         }
11272         \ifodd \l_EQ_alignmentmode_int
11273             \setkeys{MT_options_name:}{multlined-pos=b}
11274         \MH_else:
11275             \setkeys{MT_options_name:}{multlined-pos=t}
11276         \MH_fi:
11277         \g@addto@macro\EQ_complete_mathdisplay:{
11278             \begin{MTmultlined}\relax}
11279     }
11280     \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11281     \MH_if_boolean:nT {outer_mult}{
11282         \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11283     }
11284     \EQ_end_equation:
11285     \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11286     \savecounters@
11287     \EQ_typeset_tags:
11288     \edef\l_EQ_equation_fint{\number\c@equation}
11289     \restorecounters@
11290     \Hy@linkcounter=\EQ_hyperref_link_fint
11291     \settowidth\l_EQ_totalwidth_dim{%
11292         $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
11293     \MH_if_boolean:nTF {outer_mult}
11294     { \def\EQ_next:{_mult} }
11295     { \def\EQ_next:{} }
11296     \@nameuse{EQ_modify_linewidth_
11297         \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11298     \EQ_typeset_display:
11299     \@nameuse{EQ_find_displaywidth_
11300         \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11301     \MH_addtolength:dn
11302         \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11303     \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11304         $\EQ_left_side:
11305         \EQ_innerbox:{%
11306             \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11307                 \makebox[\l_EQ_displaywidth_dim][c]
11308                 {\usebox{\EQ_mathdisplay_box}}}%
11309             \MH_or:
11310                 \makebox[\l_EQ_displaywidth_dim][c]
11311                 {\usebox{\EQ_mathdisplay_box}}}%

```



```

11312 \MH_or:
11313 \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11314 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11315 \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11316 \kern-\@mathmargin
11317 \MH_fi:
11318 \MH_fi:
11319 \usebox{\EQ_mathdisplay_box}}%
11320 \else\makebox[\l_EQ_displaywidth_dim][l]{%
11321 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11322 \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11323 \kern-\@mathmargin
11324 \MH_fi:
11325 \MH_fi:
11326 \usebox{\EQ_mathdisplay_box}}\fi%
11327 \MH_or:
11328 \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11329 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11330 \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11331 \kern-\@mathmargin
11332 \MH_fi:
11333 \MH_fi:
11334 \usebox{\EQ_mathdisplay_box}}
11335 \else\makebox[\l_EQ_displaywidth_dim][l]{%
11336 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11337 \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11338 \kern-\@mathmargin
11339 \MH_fi:
11340 \MH_fi:
11341 \usebox{\EQ_mathdisplay_box}}\fi%
11342 \MH_fi:}%
11343 \EQ_right_side:$}%
11344 \begin{AmSequation*}
11345 \@nameuse{EQ_place_display_
11346 \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11347 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11348 \MH_set_boolean_T:n {show_manual_tags}
11349 \MH_if_case:w \l_EQ_alignmentmode_int
11350 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
11351 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
11352 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
11353 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
11354 \MH_fi:
11355 \MH_fi:
11356 \end{AmSequation*}
11357 \global\c@equation=\l_EQ_equation_fint\relax
11358 }
11359 \AtBeginDocument{%
11360 \@ifpackageloaded{fancybox}{%
11361 \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11362 {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11363 \renewcommand*\shadowbox{%
11364 \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11365 \VerbBox\EQ_shadowbox:n}

```



```

11366         {\MH_set_boolean_F:n {shadowbox_star}
11367         \VerBox\EQ_shadowbox:n}}
11368 \def\EQ_shadowbox:n #1{%
11369   \sbox{\z@}{\fbox{#1}}%
11370   \MH_if_boolean:nTF {shadowbox_star}{
11371     \MH_setlength:dn \@tempdima{\z@}%
11372   }{
11373     \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11374   }
11375   \raisebox{\@tempdima}{%
11376     \if@RTL\makebox[\z@][r]{%
11377       \kern\shadowsize \textcolor{shadowcolor}{%
11378         \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}}%
11379     }%
11380     \else\makebox[\z@][l]{%
11381       \kern\shadowsize \textcolor{shadowcolor}{%
11382         \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}}%
11383     }\fi%
11384     \usebox\z@\textcolor{shadowcolor}{%
11385       \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11386   }{}%
11387 }
11388 \MHInternalSyntaxOff

```

83 File extarticle-xetex-bidi.def

```

11389 \ProvidesFile{extarticle-xetex-bidi.def}[2025/09/30 v0.8 bidi adaptations for extarticle cla
11390 \renewcommand*\l@section[2]{%
11391   \ifnum \c@tocdepth >\z@
11392     \addpenalty\@secpenalty
11393     \addvspace{1.0em \@plus\p@}%
11394     \setlength\@tempdima{1.5em}%
11395     \begingroup
11396       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11397       \parfillskip -\@pnumwidth
11398       \leavevmode \bfseries
11399       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11400       \hskip -\if@RTL\rightskip\else\leftskip\fi
11401       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11402     \endgroup
11403   \fi}
11404 \renewcommand*\l@part[2]{%
11405   \ifnum \c@tocdepth >-2\relax
11406     \addpenalty\@secpenalty
11407     \addvspace{2.25em \@plus\p@}%
11408     \begingroup
11409       \setlength\@tempdima{3em}%
11410       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11411       \parfillskip -\@pnumwidth
11412       {\leavevmode
11413         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11414       \nobreak
11415     \endgroup
11416   \fi}

```



```

11417 \ApplyPatchIfPackageLoaded{nameref}{%
11418   \bidi@patchcmd\NR@part\raggedright{%
11419     \if@RTL\raggedleft\else\raggedright\fi
11420   }{\bidi@warningnoline{Oops! patching `string\NR@part' failed}}}%
11421   \bidi@patchcmd\NR@spart\raggedright{%
11422     \if@RTL\raggedleft\else\raggedright\fi
11423   }{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}}%
11424 }{%
11425   \bidi@patchcmd\@part\raggedright{%
11426     \if@RTL\raggedleft\else\raggedright\fi
11427   }{\bidi@warningnoline{Oops! patching `string\@part' failed}}}%
11428   \bidi@patchcmd\@spart\raggedright{%
11429     \if@RTL\raggedleft\else\raggedright\fi
11430   }{\bidi@warningnoline{Oops! patching `string\@spart' failed}}}%
11431 }
11432 \renewenvironment{thebibliography}[1]
11433   {\section*{\refname
11434     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11435     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11436     \bidi@@thebibliography@font@hook%
11437     \list{\@biblabel{\@arabic\c@enumiv}}%
11438       {\settowidth\labelwidth{\@biblabel{#1}}%
11439        \leftmargin\labelwidth
11440        \advance\leftmargin\labelsep
11441        \@openbib@code
11442        \usecounter{enumiv}%
11443        \let\p@enumiv\@empty
11444        \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11445     \sloppy\clubpenalty4000\widowpenalty4000%
11446     \sfcode`. \m}
11447   {\def\@noitemerr
11448     {\@latex@warning{Empty `thebibliography' environment}}%
11449     \endlist}
11450 \renewcommand\left@footnoterule{%
11451   \kern-3\p@
11452   \hrule\@width.4\columnwidth
11453   \kern2.6\p@}
11454 \renewcommand\right@footnoterule{%
11455   \kern-3\p@
11456   \nointerlineskip
11457   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11458   \kern2.6\p@}
11459   \if@titlepage
11460     \renewcommand\maketitle{\begin{titlepage}%
11461       \let\footnotesize\small
11462       \let\right@footnoterule\relax
11463       \let\left@footnoterule\relax
11464       \let\textwidth\footnoterule\relax
11465       \let \footnote \thanks
11466       \null\vfil
11467       \vskip 60\p@
11468       \begin{center}%
11469         {\LARGE \@title \par}%
11470         \vskip 3em%

```



```

11471 {\\large
11472 \\lineskip .75em%
11473 \\begin{tabular}[t]{c}%
11474 \\@author
11475 \\end{tabular}\\par}%
11476 \\vskip 1.5em%
11477 {\\large \\@date \\par}% % Set date in \\large size.
11478 \\end{center}\\par
11479 \\@thanks
11480 \\vfil\\null
11481 \\end{titlepage}%
11482 \\setcounter{footnote}{0}%
11483 \\global\\let\\thanks\\relax
11484 \\global\\let\\maketitle\\relax
11485 \\global\\let\\@thanks\\@empty
11486 \\global\\let\\@author\\@empty
11487 \\global\\let\\@date\\@empty
11488 \\global\\let\\@title\\@empty
11489 \\global\\let\\title\\relax
11490 \\global\\let\\author\\relax
11491 \\global\\let\\date\\relax
11492 \\global\\let\\and\\relax
11493 }
11494 \\else
11495 \\renewcommand\\maketitle{\\par
11496 \\begingroup
11497 \\renewcommand\\thefootnote{\\@fnsymbol\\c@footnote}%
11498 \\def\\@makefnmark{\\rlap{\\@textsuperscript{\\normalfont\\@thefnmark}}}%
11499 \\long\\def\\@makefntext##1{\\parindent 1em\\noindent
11500 \\hb@xt@1.8em{%
11501 \\hss\\@textsuperscript{\\normalfont\\@thefnmark}}##1}%
11502 \\if@twocolumn
11503 \\ifnum \\col@number=\\@ne
11504 \\@maketitle
11505 \\else
11506 \\twocolumn[\\@maketitle]%
11507 \\fi
11508 \\else
11509 \\newpage
11510 \\global\\@topnum\\z@ % Prevents figures from going at top of page.
11511 \\@maketitle
11512 \\fi
11513 \\thispagestyle{plain}\\@thanks
11514 \\endgroup
11515 \\setcounter{footnote}{0}%
11516 \\global\\let\\thanks\\relax
11517 \\global\\let\\maketitle\\relax
11518 \\global\\let\\@maketitle\\relax
11519 \\global\\let\\@thanks\\@empty
11520 \\global\\let\\@author\\@empty
11521 \\global\\let\\@date\\@empty
11522 \\global\\let\\@title\\@empty
11523 \\global\\let\\title\\relax
11524 \\global\\let\\author\\relax

```



```

11525 \global\let\date\relax
11526 \global\let\and\relax
11527 }
11528 \def\@maketitle{%
11529 \newpage
11530 \null
11531 \vskip 2em%
11532 \begin{center}%
11533 \let \footnote \thanks
11534 {\LARGE \@title \par}%
11535 \vskip 1.5em%
11536 {\large
11537 \lineskip .5em%
11538 \begin{tabular}[t]{c}%
11539 \@author
11540 \end{tabular}\par}%
11541 \vskip 1em%
11542 {\large \@date}%
11543 \end{center}%
11544 \par
11545 \vskip 1.5em}
11546 \fi
11547 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@section}
11548 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11549 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11550 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

84 File extbook-xetex-bidi.def

```

11551 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11552 \if@titlepage
11553 \renewcommand\maketitle{\begin{titlepage}%
11554 \let\footnotesize\small
11555 \let\right@footnoterule\relax
11556 \let\left@footnoterule\relax
11557 \let\textwidth@footnoterule\relax
11558 \let \footnote \thanks
11559 \let \LTRfootnote \LTRthanks
11560 \let \RTLfootnote \RTLthanks
11561 \null\vfil
11562 \vskip 60\p@
11563 \begin{center}%
11564 {\LARGE \@title \par}%
11565 \vskip 3em%
11566 {\large
11567 \lineskip .75em%
11568 \begin{tabular}[t]{c}%
11569 \@author
11570 \end{tabular}\par}%
11571 \vskip 1.5em%
11572 {\large \@date \par}% % Set date in \large size.
11573 \end{center}\par
11574 \@thanks
11575 \vfil\null

```




```

11576 \end{titlepage}%
11577 \setcounter{footnote}{0}%
11578 \global\let\thanks\relax
11579 \global\let\LTRthanks\relax
11580 \global\let\RTLthanks\relax
11581 \global\let\maketitle\relax
11582 \global\let\@thanks\@empty
11583 \global\let\@author\@empty
11584 \global\let\@date\@empty
11585 \global\let\@title\@empty
11586 \global\let\title\relax
11587 \global\let\author\relax
11588 \global\let\date\relax
11589 \global\let\and\relax
11590 }
11591 \else
11592 \renewcommand\maketitle{\par
11593 \begingroup
11594 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11595 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11596 \long\def\@makefntext##1{\parindent 1em\noindent
11597 \hb@xt@1.8em{\%
11598 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11599 \if@twocolumn
11600 \ifnum \col@number=\@one
11601 \@maketitle
11602 \else
11603 \twocolumn[\@maketitle]%
11604 \fi
11605 \else
11606 \newpage
11607 \global\@topnum\z@ % Prevents figures from going at top of page.
11608 \@maketitle
11609 \fi
11610 \thispagestyle{plain}\@thanks
11611 \endgroup
11612 \setcounter{footnote}{0}%
11613 \global\let\thanks\relax
11614 \global\let\LTRthanks\relax
11615 \global\let\RTLthanks\relax
11616 \global\let\maketitle\relax
11617 \global\let\@maketitle\relax
11618 \global\let\@thanks\@empty
11619 \global\let\@author\@empty
11620 \global\let\@date\@empty
11621 \global\let\@title\@empty
11622 \global\let\title\relax
11623 \global\let\author\relax
11624 \global\let\date\relax
11625 \global\let\and\relax
11626 }
11627 \def\@maketitle{%
11628 \newpage
11629 \null

```



```

11630 \vskip 2em%
11631 \begin{center}%
11632 \let \footnote \thanks
11633 \let \LTRfootnote \LTRthanks
11634 \let \RTLfootnote \RTLthanks
11635 {\LARGE \@title \par}%
11636 \vskip 1.5em%
11637 {\large
11638 \lineskip .5em%
11639 \begin{tabular}[t]{c}%
11640 \@author
11641 \end{tabular}\par}%
11642 \vskip 1em%
11643 {\large \@date}%
11644 \end{center}%
11645 \par
11646 \vskip 1.5em}
11647 \fi
11648 \renewcommand*\l@part[2]{%
11649 \ifnum \c@tocdepth >-2\relax
11650 \addpenalty{-\@highpenalty}%
11651 \addvspace{2.25em \@plus\p@}%
11652 \begingroup
11653 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11654 \parfillskip -\@pnumwidth
11655 {\leavevmode
11656 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11657 \nobreak
11658 \global\@nobreaktrue
11659 \everypar{\global\@nobreakfalse\everypar{}}%
11660 \endgroup
11661 \fi}
11662 \renewcommand\theequation
11663 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11664 \renewcommand \thefigure
11665 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11666 \renewcommand \thetable
11667 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11668 \renewcommand \thechapter {\@arabic\c@chapter}
11669 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11670 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11671 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
11672 \renewcommand \theparagraph {\thesubsubsection \@SepMark\@arabic\c@paragraph}
11673 \renewcommand \thesubparagraph {\theparagraph \@SepMark\@arabic\c@subparagraph}
11674 \def\@makechapterhead#1{%
11675 \vspace*{50\p@}%
11676 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11677 \ifnum \c@secnumdepth >\m@ne
11678 \if@mainmatter
11679 \huge\bfseries \@chapapp\space \thechapter
11680 \par\nobreak
11681 \vskip 20\p@
11682 \fi
11683 \fi}

```



```

11684 \interlinepenalty\@M
11685 \Huge \bfseries #1\par\nobreak
11686 \vskip 40\p@
11687 }}
11688
11689 \def\@makeschapterhead#1{%
11690 \vspace*{50\p@}%
11691 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11692 \normalfont
11693 \interlinepenalty\@M
11694 \Huge \bfseries #1\par\nobreak
11695 \vskip 40\p@
11696 }}
11697 \renewcommand\backmatter{%
11698 \if@openright
11699 \cleardoublepage
11700 \else
11701 \clearpage
11702 \fi
11703 \@mainmatterfalse}
11704 \renewenvironment{thebibliography}[1]
11705 {\chapter*{\bibname
11706 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}}%
11707 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11708 \bidi@thebibliography@font@hook%
11709 \list{\@biblabel{\@arabic\c@enumiv}}%
11710 {\settowidth\labelwidth{\@biblabel{#1}}%
11711 \leftmargin\labelwidth
11712 \advance\leftmargin\labelsep
11713 \@openbib@code
11714 \usecounter{enumiv}}%
11715 \let\p@enumiv\@empty
11716 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11717 \sloppy
11718 \clubpenalty4000
11719 \@clubpenalty \clubpenalty
11720 \widowpenalty4000%
11721 \sfcode\.\@m}
11722 {\def\@noitemerr
11723 {\@latex@warning{Empty `thebibliography' environment}}}%
11724 \endlist}

```

85 File extletter-xetex-bidi.def

```

11725 \ProvidesFile{extletter-xetex-bidi.def}[2025/09/30 v0.3 bidi adaptations for extletter class]
11726 \renewcommand*\opening[1]{\ifx\@empty\fromaddress
11727 \thispagestyle{firstpage}%
11728 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
11729 \else % home address
11730 \thispagestyle{empty}%
11731 {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11732 \fromaddress \[*[2\parskip]%
11733 \@date \end{tabular}\par}%
11734 \fi

```



```

11735 \vspace{2\parskip}%
11736 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ \toaddress \par}%
11737 \vspace{2\parskip}%
11738 #1\par\nobreak}
11739 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11740 \stopbreaks
11741 \noindent
11742 \ifx\@empty\fromaddress\else
11743 \hspace*{\longindentation}\fi
11744 \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
11745 \ignorespaces #1\ \ [6\medskipamount]%
11746 \ifx\@empty\fromsig
11747 \fromname
11748 \else \fromsig \fi\strut}%
11749 \par}
11750 \renewcommand\left@footnoterule{%
11751 \kern-\p@
11752 \hrule \@width .4\columnwidth
11753 \kern .6\p@}
11754 \renewcommand\right@footnoterule{%
11755 \kern-\p@
11756 \nointerlineskip
11757 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11758 \kern .6\p@}

```

86 File extrafootnotefeatures-xetex-bidi.def

```

11759 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/09/13 v2.8 bidi extra footnote feat
11760 \newdimen\bidi@columnwidth
11761 \def\bidi@floathook{%
11762 \bidi@columnwidth\columnwidth
11763 }
11764 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11765 \if@bidi@csundef{ifHy@hyperfootnotes}{}{%
11766 \if@bidi@csundef{HLTR@LTRfootnotetext}{}{%
11767 \ifHy@hyperfootnotes
11768 \let\@H@footnotetext\@footnotetext
11769 \let\@HLTR@LTRfootnotetext\@LTRfootnotetext
11770 \let\@HRTL@RTLfootnotetext\@RTLfootnotetext
11771 \let\@H@mpfootnotetext\@mpfootnotetext
11772 \let\@HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
11773 \let\@HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11774 \fi
11775 }%
11776 }%
11777 }
11778 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11779 \if@bidi@csundef{ifHy@hyperfootnotes}{}{%
11780 \if@bidi@csundef{HLTR@LTRfootnotetext}{}{%
11781 \ifHy@hyperfootnotes
11782 \let\H@footnotetext\@footnotetext
11783 \let\@footnotetext\@H@footnotetext
11784 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
11785 \let\@LTRfootnotetext\@HLTR@LTRfootnotetext

```



```

11786 \let\HRTL@@RTLfootnotetext\@RTLfootnotetext
11787 \let\@RTLfootnotetext\@HRTL@@RTLfootnotetext
11788 \let\H@@mpfootnotetext\@mpfootnotetext
11789 \let\@mpfootnotetext\@H@@mpfootnotetext
11790 \let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11791 \let\@mpLTRfootnotetext\@HLTR@@mpLTRfootnotetext
11792 \let\HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11793 \let\@mpRTLfootnotetext\@HRTL@@mpRTLfootnotetext
11794 \fi
11795 }%
11796 }%
11797 }
11798 \let\autofooterule\relax
11799 \let\rightfootnoterule\relax
11800 \let\leftfootnoterule\relax
11801 \let\textwidthfootnoterule\relax
11802 \let\LRfootnoterule\relax
11803 \def\footnoterule{\kern-3\p@
11804 \hrule \@width \columnwidth \kern 2.6\p@}
11805 \newcommand{\@preamnormalfmt}{%
11806 \parindent 1em%
11807 \noindent
11808 }
11809 \newcommand{\@normalfootfmt}[1]{%
11810 \@preamnormalfmt
11811 \footfootmark
11812 \rule{z@}{footnotesep}\ignorespaces{\foottextfont #1}%
11813 \@finalstrut\strutbox
11814 }
11815 \newcommand{\@normalRTLfootfmt}[1]{%
11816 \@preamnormalfmt
11817 \RTLfootfootmark
11818 \rule{z@}{footnotesep}\ignorespaces{\RTLfoottextfont #1}%
11819 \@finalstrut\strutbox
11820 }
11821 \newcommand{\@normalLTRfootfmt}[1]{%
11822 \@preamnormalfmt
11823 \LTRfootfootmark
11824 \rule{z@}{footnotesep}\ignorespaces{\LTRfoottextfont #1}%
11825 \@finalstrut\strutbox
11826 }
11827 \renewcommand{\@footnotetext}[1]{%
11828 \insert\footins{%
11829 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11830 \def\baselinestretch{\m@m@footnote@spacing}%
11831 \reset@font
11832 \foottextfont
11833 \@preamfntext
11834 \hsize\columnwidth
11835 \protected@edef\@currentlabel{%
11836 \csname p@footnote\endcsname\@thefnmark}%
11837 \color@begingroup
11838 \@normalfootfmt{#1}%
11839 \color@endgroup}%

```



```

11840 \m@mmf@prepare}
11841 \renewcommand{\@RTLfootnotetext}[1]{%
11842 \insert\footins{%
11843 \@RTLtrue%
11844 \def\baselinestretch{\m@m@footnote@spacing}%
11845 \reset@font
11846 \RTLfoottextfont
11847 \@preamfntext
11848 \hsize\columnwidth
11849 \protected@edef\@currentlabel{%
11850 \csname p@footnote\endcsname\@thefnmark}%
11851 \color@begingroup
11852 \@normalRTLfootfmt{#1}%
11853 \color@endgroup}%
11854 \m@mmf@prepare}
11855 \renewcommand{\@LTRfootnotetext}[1]{%
11856 \insert\footins{%
11857 \@RTLfalse%
11858 \def\baselinestretch{\m@m@footnote@spacing}%
11859 \reset@font
11860 \LTRfoottextfont
11861 \@preamfntext
11862 \hsize\columnwidth
11863 \protected@edef\@currentlabel{%
11864 \csname p@footnote\endcsname\@thefnmark}%
11865 \color@begingroup
11866 \@normalLTRfootfmt{#1}%
11867 \color@endgroup}%
11868 \m@mmf@prepare}
11869 \renewcommand{\@mpfootnotetext}[1]{%
11870 \global\setbox\@mpfootins\vbox{%
11871 \unvbox\@mpfootins
11872 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
11873 \def\baselinestretch{\m@m@footnote@spacing}%
11874 \reset@font%
11875 \foottextfont \hsize\columnwidth \@parboxrestore
11876 \protected@edef\@currentlabel{%
11877 \csname p@mpfootnote\endcsname\@thefnmark}%
11878 \color@begingroup
11879 \@normalfootfmt{#1}%
11880 \color@endgroup}}
11881 \renewcommand{\@mplTRfootnotetext}[1]{%
11882 \global\setbox\@mpfootins\vbox{%
11883 \unvbox\@mpfootins
11884 \@RTLfalse
11885 \def\baselinestretch{\m@m@footnote@spacing}%
11886 \reset@font%
11887 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11888 \protected@edef\@currentlabel{%
11889 \csname p@mpfootnote\endcsname\@thefnmark}%
11890 \color@begingroup
11891 \@normalLTRfootfmt{#1}%
11892 \color@endgroup}}
11893 \renewcommand{\@mpRTLfootnotetext}[1]{%

```



```

11894 \global\setbox\@mpfootins\vbox{%
11895   \unvbox\@mpfootins
11896   \@RTLtrue
11897   \def\baselinestretch{\m@m@footnote@spacing}%
11898   \reset@font%
11899   \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11900   \protected@edef\@currentlabel{%
11901     \csname p@mpfootnote\endcsname\@thefnmark}%
11902   \color@begingroup
11903     \@normalRTLfootfmt{#1}%
11904   \color@endgroup}}
11905 \let\m@mold@footnotetext\@footnotetext
11906 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11907 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11908 \let\m@mold@mpfootnotetext\@mpfootnotetext
11909 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11910 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11911 \bidi@ensure@newcommand{\normalfootnotes}{%
11912   \@bidi@before@Hy@hyperfootnotes
11913   \let\@footnotetext\m@mold@footnotetext
11914   \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11915   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11916   \let\@mpfootnotetext\m@mold@mpfootnotetext
11917   \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11918   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11919   \@bidi@after@Hy@hyperfootnotes
11920   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11921 }
11922 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}
11923 \bidi@ensure@newcommand*\setSingleSpace{1}{%
11924   \def\m@m@singlespace{#1}%
11925   \def\m@m@footnote@spacing{#1}%
11926   \def\m@m@float@spacing{#1} %
11927 }
11928 \setSingleSpace{1}
11929 \bidi@ensure@newcommand*\multiplefootnotemarker{3sp}
11930 \bidi@ensure@newcommand*\m@m@mmf@prepare{%
11931   \kern-\multiplefootnotemarker
11932   \kern\multiplefootnotemarker\relax}
11933 \bidi@ensure@newlength{\footmarkwidth}
11934 \bidi@ensure@newcommand*\footmarkstyle{1}{\def\footscript##1{#1}}
11935 \bidi@ensure@newcommand*\LTRfootmarkstyle{1}{\def\LTRfootscript##1{#1}}
11936 \bidi@ensure@newcommand*\RTLfootmarkstyle{1}{\def\RTLfootscript##1{#1}}
11937 \bidi@ensure@newcommand{\footfootmark}{%
11938   \ifdim\footmarkwidth < \z@
11939     \llap{\hb@xt@ -\footmarkwidth{%
11940       \hss\normalfont\footscript{\@thefnmark}}%
11941       \hspace*{-\footmarkwidth}}%
11942   \else
11943     \ifdim\footmarkwidth = \z@
11944       {\normalfont\footscript{\@thefnmark}}%
11945     \else
11946       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11947     \fi

```



```

11948 \fi}
11949 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11950 \ifdim\footmarkwidth < \z@
11951 \llap{\hb@xt@ -\footmarkwidth{%
11952 \hss\normalfont\LTRfootscript{\@thefnmark}}}%
11953 \hspace*{-\footmarkwidth}}%
11954 \else
11955 \ifdim\footmarkwidth = \z@
11956 {\normalfont\LTRfootscript{\@thefnmark}}%
11957 \else
11958 \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11959 \fi
11960 \fi}
11961 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11962 \ifdim\footmarkwidth < \z@
11963 \llap{\hb@xt@ -\footmarkwidth{%
11964 \hss\normalfont\RTLfootscript{\@thefnmark}}}%
11965 \hspace*{-\footmarkwidth}}%
11966 \else
11967 \ifdim\footmarkwidth = \z@
11968 {\normalfont\RTLfootscript{\@thefnmark}}%
11969 \else
11970 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11971 \fi
11972 \fi}
11973 \footmarkstyle{\textsuperscript{#1}}
11974 \LTRfootmarkstyle{\textsuperscript{#1}}
11975 \RTLfootmarkstyle{\textsuperscript{#1}}
11976 \newcommand*{\bidi@normal@footmarkwidth}{%
11977 \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11978 }
11979 \newcommand*{\bidi@star@footmarkwidth}{%
11980 \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11981 }
11982 \bidi@normal@footmarkwidth
11983 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11984 \bidi@ensure@newcommand*{\extrafeetins}{%
11985 \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11986 \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11987 \bidi@joinfootnotes\@bidi@copyins@}{\unvbox\@bidi@copyins@}%
11988 \extrafeetinshook}
11989 \bidi@ensure@newcommand{\extrafeetinshook}{%
11990 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11991 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11992 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11993 \bidi@ensure@newlength{\footinsdim}
11994 \setlength{\footinsdim}{8in} % standard for \dimen\footins
11995 \bidi@ensure@newcommand{\@preamfntext}{%
11996 \interlinepenalty\interfootnotelinepenalty
11997 \floatingpenalty \@MM
11998 \splittopskip=\footnotesep
11999 \splitmaxdepth=\dp\strutbox
12000 \@parboxrestore}
12001 \def\bidi@ifmulticol#1#2{\@tempswafalse

```




```

12002 \ifnum\col@number>\@ne
12003 \ifnum\count\footins>1999 \@tempwattrue \fi
12004 \fi
12005 \if@tempswa #1\else #2\fi
12006 }
12007 \def\bid@joinfootnotes#1#2#3{%
12008 \ifvoid#1
12009 \else
12010 \@tempskipa\skip#1%
12011 \bid@ifmulticol{\divide\@tempskipa\col@number}{}%
12012 \edef\bid@footskip{\vskip\the\@tempskipa\relax}%
12013 \bid@removexfootskip
12014 \ifvoid\footins
12015 \global\setbox\footins\vbox{#2#3}%
12016 \else
12017 \global\setbox\footins\vbox{%
12018 \unvbox\footins
12019 \bid@footskip
12020 #2#3%
12021 }%
12022 \fi
12023 \fi
12024 }
12025 \def\bid@joinmpfootnotes#1#2#3{%
12026 \ifvoid#1
12027 \else
12028 \@tempskipa\skip#1%
12029 \bid@ifmulticol{\divide\@tempskipa\col@number}{}%
12030 \edef\bid@footskip{\vskip\the\@tempskipa\relax}%
12031 \bid@removexfootskip
12032 \ifvoid\@mpfootins
12033 \global\setbox\@mpfootins\vbox{#2#3}%
12034 \else
12035 \global\setbox\@mpfootins\vbox{%
12036 \unvbox\@mpfootins
12037 \bid@footskip
12038 #2#3%
12039 }%
12040 \fi
12041 \fi
12042 }
12043 \bid@ensure@newcommand{\m@mdoextrafeetmini}{%
12044 \extrafeetminihook}
12045 \bid@ensure@newcommand{\extrafeetendmini}{%
12046 \bid@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12047 \bid@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12048 \extrafeetendminihook}
12049 \bid@ensure@newcommand{\extrafeetendminihook}{%
12050 \bid@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
12051 \def\endminipage{%
12052 \par
12053 \unskip
12054 \m@mdoextrafeetendmini
12055 \ifvoid\@mpfootins

```



```

12056 \else
12057 \vskip\skip\@mpfootins
12058 \normalcolor
12059 \footnoterule
12060 \unvbox\@mpfootins
12061 \fi
12062 \@minipagefalse
12063 \color@endgroup
12064 \egroup
12065 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12066 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
12067 \namedef{\footstart#1}{%
12068 \leftskip=\z@
12069 \rightskip=\z@
12070 \parindent=\z@
12071 }%
12072 }
12073 \newinsert\footinsv@r
12074 \skip\footinsv@r\skip\footins
12075 \count\footinsv@r=1000 % no magnification
12076 \dimen\footinsv@r=\footinsdim
12077 \m@make@footstart{v@r}
12078 \newinsert\footinsv@l
12079 \skip\footinsv@l\skip\footins
12080 \count\footinsv@l=1000 % no magnification
12081 \dimen\footinsv@l=\footinsdim
12082 \m@make@footstart{v@l}
12083 \bidi@ensure@newcommand{\@footgroupv@r}{%
12084 \newinsert\@mpfootinsv@r
12085 \skip\@mpfootinsv@r\skip\@mpfootins
12086 \newinsert\@mpfootinsv@l
12087 \skip\@mpfootinsv@l\skip\@mpfootins
12088 \bidi@ensure@newcommand{\mp@footgroupv@r}{%
12089 \newcount\m@m@k \newdimen\m@m@h
12090 \bidi@ensure@newcommand*\m@m@k{\m@m@k\m@m@h}{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12091 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12092 \valign{##\vfill\cr\m@m@dosplits}\endR}}
12093 \newcommand*\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12094 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12095 \valign{##\vfill\cr\m@m@dosplits}\endL}}
12096 \bidi@ensure@newcommand*\m@m@dosplits{\ifnum\m@m@k>0 \noalign{\hfil}\m@m@splitoff
12097 \global\advance\m@m@k-1\cr\m@m@dosplits\fi}
12098 \bidi@ensure@newcommand*\m@m@splitoff{\dimen0=\ht0
12099 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12100 \setbox2 \vsplit0 to \dimen0
12101 \unvbox2 }
12102 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12103 \namedef{\foottextfontv@r}{\foottextfont}% % [RS]
12104 \namedef{\foottextfontv@l}{\LTRfoottextfont}%
12105 \@bidi@before@Hy@hyperfootnotes
12106 \let\@footnotetext\@twocolfootnotetext
12107 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12108 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12109 \dimen\footinsv@r=2\footinsdim

```



```

12110 \count\footinsv@r=500\relax
12111 \m@make@twocol@footgroup{v@r}%
12112 \let\@footgroupv@r\@twocol@footgroupv@r
12113 \dimen\footinsv@l=2\footinsdim
12114 \count\footinsv@l=500\relax
12115 \bidi@make@twocol@LTRfootgroup{v@l}%
12116 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12117 \let\@mpfootnotetext\@mptwocolfootnotetext
12118 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12119 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12120 \@bidi@after@Hy@hyperfootnotes
12121 \m@make@mptwocol@footgroup{v@r}%
12122 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12123 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12124 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12125 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12126 }
12127 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12128 \ifRTL@footnote
12129 \footinsv@r
12130 \else
12131 \footinsv@l
12132 \fi
12133 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12134 \def\baselinestretch{\m@m@footnote@spacing}%
12135 \reset@font\foottextfont
12136 \@preamfntext
12137 \protected@edef\@currentlabel{%
12138 \csname p@footnote\endcsname\@thefnmark}%
12139 \color@begingroup
12140 \@twocolfootfmt{#1}%
12141 \color@endgroup}%
12142 \m@mmf@prepare}
12143 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12144 \def\baselinestretch{\m@m@footnote@spacing}%
12145 \reset@font\LTRfoottextfont
12146 \@preamfntext
12147 \protected@edef\@currentlabel{%
12148 \csname p@footnote\endcsname\@thefnmark}%
12149 \color@begingroup
12150 \@twocolLTRfootfmt{#1}%
12151 \color@endgroup}%
12152 \m@mmf@prepare}
12153 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12154 \def\baselinestretch{\m@m@footnote@spacing}%
12155 \reset@font\RTLfoottextfont
12156 \@preamfntext
12157 \protected@edef\@currentlabel{%
12158 \csname p@footnote\endcsname\@thefnmark}%
12159 \color@begingroup
12160 \@twocolRTLfootfmt{#1}%
12161 \color@endgroup}%
12162 \m@mmf@prepare}
12163 \bidi@ensure@newcommand{\@preamtwofmt}{%

```



```

12164 \hsize .45\hsize
12165 \parindent=\z@
12166 \tolerance=5000\relax
12167 \leavevmode}
12168 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12169 \@preamtwofmt
12170 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12171 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12172 \@preamtwofmt
12173 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12174 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12175 \@preamtwofmt
12176 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12177 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
12178 \global\setbox
12179 \if@RTL@footnote
12180 \@mpfootinsv@r
12181 \else
12182 \@mpfootinsv@l
12183 \fi
12184 \vbox{%
12185 \unvbox
12186 \if@RTL@footnote
12187 \@mpfootinsv@r
12188 \else
12189 \@mpfootinsv@l
12190 \fi
12191 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12192 \def\baselinestretch{\m@m@footnote@spacing}%
12193 \reset@font\foottextfont
12194 \hsize\columnwidth \@parboxrestore
12195 \protected@edef\@currentlabel{%
12196 \csname p@mpfootnote\endcsname\@thefnmark}%
12197 \color@begingroup
12198 \@twocolfootfmt{#1}%
12199 \color@endgroup}%
12200 \m@m@mmf@prepare}
12201 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12202 \global\setbox\@mpfootinsv@l\vbox{%
12203 \unvbox\@mpfootinsv@l
12204 \@RTLfalse
12205 \def\baselinestretch{\m@m@footnote@spacing}%
12206 \reset@font\LTRfoottextfont
12207 \hsize\columnwidth \@parboxrestore
12208 \protected@edef\@currentlabel{%
12209 \csname p@mpfootnote\endcsname\@thefnmark}%
12210 \color@begingroup
12211 \@twocolLTRfootfmt{#1}%
12212 \color@endgroup}%
12213 \m@m@mmf@prepare}
12214 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12215 \global\setbox\@mpfootinsv@r\vbox{%
12216 \unvbox\@mpfootinsv@r
12217 \@RTLtrue

```



```

12218 \def\baselinestretch{\m@m@footnote@spacing}%
12219 \reset@font\RTLfoottextfont
12220 \hsize\columnwidth \@parboxrestore
12221 \protected@edef\@currentlabel{%
12222 \csname p@mpfootnote\endcsname\@thefnmark}%
12223 \color@begingroup
12224 \@twocolRTLfootfmt{#1}%
12225 \color@endgroup}%
12226 \m@mmf@prepare}
12227 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12228 \@namedef{@twocol@footgroup#1}{%
12229 \def\baselinestretch{\m@m@footnote@spacing}%
12230 \hsize\bidi@columnwidth
12231 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12232 \m@mrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12233 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12234 \@namedef{@twocol@LTRfootgroup#1}{%
12235 \def\baselinestretch{\m@m@footnote@spacing}%
12236 \hsize\bidi@columnwidth
12237 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12238 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12239 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12240 \@namedef{@mptwocol@footgroup#1}{%
12241 \def\baselinestretch{\m@m@footnote@spacing}%
12242 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12243 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
12244 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12245 \@namedef{@mptwocol@LTRfootgroup#1}{%
12246 \def\baselinestretch{\m@m@footnote@spacing}%
12247 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12248 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
12249 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12250 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12251 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12252 \@bidi@before@Hy@hyperfootnotes
12253 \let\@footnotetext\@threecolfootnotetext
12254 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12255 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12256 \dimen\footinsv@r=3\footinsdim
12257 \count\footinsv@r=333\relax
12258 \m@make@threecol@footgroup{v@r}%
12259 \let\@footgroupv@r\@threecol@footgroupv@r
12260 \dimen\footinsv@l=3\footinsdim
12261 \count\footinsv@l=333\relax
12262 \bidi@make@threecol@LTRfootgroup{v@l}%
12263 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12264 \let\@mpfootnotetext\@mpthreecolfootnotetext
12265 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12266 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12267 \@bidi@after@Hy@hyperfootnotes
12268 \m@make@mpthreecol@footgroup{v@r}%
12269 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12270 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12271 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l

```



```

12272 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12273 }
12274 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12275   \if@RTL@footnote
12276     \footinsv@r
12277   \else
12278     \footinsv@l
12279   \fi
12280 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12281   \def\baselinestretch{\m@m@footnote@spacing}%
12282   \reset@font\foottextfont
12283   \@preamfntext
12284   \protected@edef\@currentlabel{%
12285     \csname p@footnote\endcsname\@thefnmark}%
12286   \color@begingroup
12287     \@threecolfootfmt{#1}%
12288   \color@endgroup}\m@mmf@prepare}
12289 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12290   \def\baselinestretch{\m@m@footnote@spacing}%
12291   \reset@font\LTRfoottextfont
12292   \@preamfntext
12293   \protected@edef\@currentlabel{%
12294     \csname p@footnote\endcsname\@thefnmark}%
12295   \color@begingroup
12296     \@threecolLTRfootfmt{#1}%
12297   \color@endgroup}\m@mmf@prepare}
12298 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12299   \def\baselinestretch{\m@m@footnote@spacing}%
12300   \reset@font\RTLfoottextfont
12301   \@preamfntext
12302   \protected@edef\@currentlabel{%
12303     \csname p@footnote\endcsname\@thefnmark}%
12304   \color@begingroup
12305     \@threecolRTLfootfmt{#1}%
12306   \color@endgroup}\m@mmf@prepare}
12307 \bidi@ensure@newcommand{\@preamthreelfmt}{%
12308   \hspace{.3\hspace}
12309   \parindent=\z@
12310   \tolerance=5000\relax
12311   \leavevmode}
12312 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12313   \@preamthreelfmt
12314   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12315 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12316   \@preamthreelfmt
12317   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12318 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12319   \@preamthreelfmt
12320   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12321 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12322   \global\setbox
12323     \if@RTL@footnote
12324     \@mpfootinsv@r
12325   \else

```



```

12326 \mpfootinsv@l
12327 \fi
12328 \vbox{%
12329 \unvbox
12330 \if@RTL@footnote
12331 \mpfootinsv@r
12332 \else
12333 \mpfootinsv@l
12334 \fi
12335 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12336 \def\baselinestretch{\m@m@footnote@spacing}%
12337 \reset@font\foottextfont
12338 \hsize\columnwidth \@parboxrestore
12339 \protected@edef\@currentlabel{%
12340 \csname p@mpfootnote\endcsname\@thefnmark}%
12341 \color@begingroup
12342 \@threecolfootfmt{#1}%
12343 \color@endgroup}\m@mmf@prepare}
12344 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12345 \global\setbox\@mpfootinsv@l\vbox{%
12346 \unvbox\@mpfootinsv@l
12347 \@RTLfalse
12348 \def\baselinestretch{\m@m@footnote@spacing}%
12349 \reset@font\LTRfoottextfont
12350 \hsize\columnwidth \@parboxrestore
12351 \protected@edef\@currentlabel{%
12352 \csname p@mpfootnote\endcsname\@thefnmark}%
12353 \color@begingroup
12354 \@threecolLTRfootfmt{#1}%
12355 \color@endgroup}\m@mmf@prepare}
12356 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12357 \global\setbox\@mpfootinsv@r\vbox{%
12358 \unvbox\@mpfootinsv@r
12359 \@RTLtrue
12360 \def\baselinestretch{\m@m@footnote@spacing}%
12361 \reset@font\RTLfoottextfont
12362 \hsize\columnwidth \@parboxrestore
12363 \protected@edef\@currentlabel{%
12364 \csname p@mpfootnote\endcsname\@thefnmark}%
12365 \color@begingroup
12366 \@threecolRTLfootfmt{#1}%
12367 \color@endgroup}\m@mmf@prepare}
12368 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12369 \@namedef{@threecol@footgroup#1}{%
12370 \def\baselinestretch{\m@m@footnote@spacing}%
12371 \hsize\bidi@columnwidth
12372 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12373 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}%
12374 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12375 \@namedef{@threecol@LTRfootgroup#1}{%
12376 \def\baselinestretch{\m@m@footnote@spacing}%
12377 \hsize\bidi@columnwidth
12378 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12379 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}%

```



```

12380 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12381 \namedef{@mpthreecol@footgroup#1}{%
12382 \def\baselinestretch{\m@make@footnote@spacing}%
12383 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12384 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{\thr@@}{\splittopskip}}}%
12385 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12386 \namedef{@mpthreecol@LTRfootgroup#1}{%
12387 \def\baselinestretch{\m@make@footnote@spacing}%
12388 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12389 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{\thr@@}{\splittopskip}}}%
12390 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12391 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
12392 \namedef{foottextfontv@l}{\LTRfoottextfont}%
12393 \@bidi@before@Hy@hyperfootnotes
12394 \let\@footnotetext\@fourcolfootnotetext
12395 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12396 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12397 \dimen\footinsv@r=4\footinsdim
12398 \count\footinsv@r=250\relax
12399 \m@make@fourcol@footgroup{v@r}%
12400 \let\@footgroupv@r\@fourcol@footgroupv@r
12401 \dimen\footinsv@l=4\footinsdim
12402 \count\footinsv@l=250\relax
12403 \bidi@make@fourcol@LTRfootgroup{v@l}%
12404 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12405 \let\@mpfootnotetext\@mpfourcolfootnotetext
12406 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12407 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12408 \@bidi@after@Hy@hyperfootnotes
12409 \m@make@mpfourcol@footgroup{v@r}%
12410 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12411 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12412 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12413 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12414 }
12415 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12416 \if@RTL@footnote
12417 \footinsv@r
12418 \else
12419 \footinsv@l
12420 \fi
12421 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12422 \def\baselinestretch{\m@make@footnote@spacing}%
12423 \reset@font\foottextfont
12424 \@preamfntext
12425 \protected@edef\@currentlabel{%
12426 \csname p@footnote\endcsname\@thefnmark}%
12427 \color@begingroup
12428 \@fourcolfootfmt{#1}%
12429 \color@endgroup}%
12430 \m@mmf@prepare}
12431 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12432 \def\baselinestretch{\m@make@footnote@spacing}%
12433 \reset@font\LTRfoottextfont

```




```

12434 \@preamfntext
12435 \protected@edef\@currentlabel{%
12436   \csname p@footnote\endcsname\@thefnmark}%
12437 \color@begingroup
12438   \@fourcolLTRfootfmt{#1}%
12439 \color@endgroup}%
12440 \m@mmf@prepare}
12441 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12442   \def\baselinestretch{\m@m@footnote@spacing}%
12443   \reset@font\RTLfoottextfont
12444   \@preamfntext
12445   \protected@edef\@currentlabel{%
12446     \csname p@footnote\endcsname\@thefnmark}%
12447   \color@begingroup
12448     \@fourcolRTLfootfmt{#1}%
12449   \color@endgroup}%
12450   \m@mmf@prepare}
12451 \bidi@ensure@newcommand{\@preamfourfmt}{%
12452   \hspace{.25\hsize}
12453   \parindent=\z@
12454   \tolerance=5000\relax
12455   \leavevmode}
12456 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12457   \@preamfourfmt
12458   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12459 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12460   \@preamfourfmt
12461   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12462 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12463   \@preamfourfmt
12464   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12465 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12466   \global\setbox
12467     \if@RTL@footnote
12468     \@mpfootinsv@r
12469   \else
12470     \@mpfootinsv@l
12471   \fi
12472   \vbox{%
12473     \unvbox
12474     \if@RTL@footnote
12475     \@mpfootinsv@r
12476   \else
12477     \@mpfootinsv@l
12478   \fi
12479   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12480   \def\baselinestretch{\m@m@footnote@spacing}%
12481   \reset@font\foottextfont
12482   \hspace\columnwidth \@parboxrestore
12483   \protected@edef\@currentlabel{%
12484     \csname p@mpfootnote\endcsname\@thefnmark}%
12485   \color@begingroup
12486     \@fourcolfootfmt{#1}%
12487   \color@endgroup}%

```



```

12488 \m@mmf@prepare}
12489 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12490 \global\setbox\@mpfootinsv@l\vbox{%
12491 \unvbox\@mpfootinsv@l
12492 \RTLfalse
12493 \def\baselinestretch{\m@m@footnote@spacing}%
12494 \reset@font\LTRfoottextfont
12495 \hsize\columnwidth \@parboxrestore
12496 \protected@edef\@currentlabel{%
12497 \csname p@mpfootnote\endcsname\@thefnmark}%
12498 \color@begingroup
12499 \@fourcolLTRfootfmt{#1}%
12500 \color@endgroup}%
12501 \m@mmf@prepare}
12502 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12503 \global\setbox\@mpfootinsv@r\vbox{%
12504 \unvbox\@mpfootinsv@r
12505 \RTLtrue
12506 \def\baselinestretch{\m@m@footnote@spacing}%
12507 \reset@font\RTLfoottextfont
12508 \hsize\columnwidth \@parboxrestore
12509 \protected@edef\@currentlabel{%
12510 \csname p@mpfootnote\endcsname\@thefnmark}%
12511 \color@begingroup
12512 \@fourcolRTLfootfmt{#1}%
12513 \color@endgroup}%
12514 \m@mmf@prepare}
12515 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
12516 \@namedef{\@fourcol@footgroup#1}{%
12517 \def\baselinestretch{\m@m@footnote@spacing}%
12518 \hsize\bidi@columnwidth
12519 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12520 \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}%
12521 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
12522 \@namedef{\@fourcol@LTRfootgroup#1}{%
12523 \def\baselinestretch{\m@m@footnote@spacing}%
12524 \hsize\bidi@columnwidth
12525 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12526 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}%
12527 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
12528 \@namedef{\@mpfourcol@footgroup#1}{%
12529 \def\baselinestretch{\m@m@footnote@spacing}%
12530 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12531 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}%
12532 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
12533 \@namedef{\@mpfourcol@LTRfootgroup#1}{%
12534 \def\baselinestretch{\m@m@footnote@spacing}%
12535 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12536 \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}%
12537 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
12538 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12539 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12540 \@bidi@before@Hy@hyperfootnotes
12541 \let\@footnotetext\@fivecolfootnotetext

```



```

12542 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
12543 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
12544 \dimen\footinsv@r=5\footinsdim
12545 \count\footinsv@r=200\relax
12546 \m@make@fivecol@footgroup{v@r}%
12547 \let\@footgroupv@r\@fivecol@footgroupv@r
12548 \dimen\footinsv@l=5\footinsdim
12549 \count\footinsv@l=200\relax
12550 \bidi@make@fivecol@LTRfootgroup{v@l}%
12551 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
12552 \let\@mpfootnotetext\@mpfivecolfootnotetext
12553 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
12554 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
12555 \@bidi@after@Hy@hyperfootnotes
12556 \m@make@mpfivecol@footgroup{v@r}%
12557 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
12558 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
12559 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
12560 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12561 }
12562 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
12563 \if@RTL@footnote
12564 \footinsv@r
12565 \else
12566 \footinsv@l
12567 \fi
12568 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12569 \def\baselinestretch{\m@footnote@spacing}%
12570 \reset@font\foottextfont
12571 \@preamfntext
12572 \protected@edef\@currentlabel{%
12573 \csname p@footnote\endcsname\@thefnmark}%
12574 \color@begingroup
12575 \@fivecolfootfmt{#1}%
12576 \color@endgroup}%
12577 \m@m@mmf@prepare}
12578 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12579 \def\baselinestretch{\m@footnote@spacing}%
12580 \reset@font\LTRfoottextfont
12581 \@preamfntext
12582 \protected@edef\@currentlabel{%
12583 \csname p@footnote\endcsname\@thefnmark}%
12584 \color@begingroup
12585 \@fivecolLTRfootfmt{#1}%
12586 \color@endgroup}%
12587 \m@m@mmf@prepare}
12588 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12589 \def\baselinestretch{\m@footnote@spacing}%
12590 \reset@font\RTLfoottextfont
12591 \@preamfntext
12592 \protected@edef\@currentlabel{%
12593 \csname p@footnote\endcsname\@thefnmark}%
12594 \color@begingroup
12595 \@fivecolRTLfootfmt{#1}%

```



```

12596 \color@endgroup}%
12597 \m@mmf@prepare}
12598 \bidi@ensure@newcommand{\@preamfivefmt}{%
12599 \hspace{.2\hspace}
12600 \parindent=\z@
12601 \tolerance=5000\relax
12602 \leavevmode}
12603 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
12604 \@preamfivefmt
12605 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12606 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
12607 \@preamfivefmt
12608 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12609 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
12610 \@preamfivefmt
12611 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12612 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
12613 \global\setbox
12614 \if@RTL@footnote
12615 \mpfootinsv@r
12616 \else
12617 \mpfootinsv@l
12618 \fi
12619 \vbox{%
12620 \unvbox
12621 \if@RTL@footnote
12622 \mpfootinsv@r
12623 \else
12624 \mpfootinsv@l
12625 \fi
12626 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12627 \def\baselinestretch{\m@m@footnote@spacing}%
12628 \reset@font\foottextfont
12629 \hspace\columnwidth \@parboxrestore
12630 \protected@edef\@currentlabel{%
12631 \csname p@mpfootnote\endcsname\@thefnmark}%
12632 \color@begingroup
12633 \@fivecolfootfmt{#1}%
12634 \color@endgroup}%
12635 \m@mmf@prepare}
12636 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
12637 \global\setbox\mpfootinsv@l\vbox{%
12638 \unvbox\mpfootinsv@l
12639 \@RTLfalse
12640 \def\baselinestretch{\m@m@footnote@spacing}%
12641 \reset@font\LTRfoottextfont
12642 \hspace\columnwidth \@parboxrestore
12643 \protected@edef\@currentlabel{%
12644 \csname p@mpfootnote\endcsname\@thefnmark}%
12645 \color@begingroup
12646 \@fivecolLTRfootfmt{#1}%
12647 \color@endgroup}%
12648 \m@mmf@prepare}
12649 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%

```



```

12650 \global\setbox\@mpfootinsv\@vbox{%
12651   \unvbox\@mpfootinsv
12652   \RTLtrue
12653   \def\baselinestretch{\m@footnote@spacing}%
12654   \reset@font\RTLfoottextfont
12655   \hsize\columnwidth \parboxrestore
12656   \protected@edef\@currentlabel{%
12657     \csname p@mpfootnote\endcsname\@thefnmark}%
12658   \color@begingroup
12659     \@fivecolRTLfootfmt{#1}%
12660   \color@endgroup}%
12661   \m@mff@prepare}
12662 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
12663   \@namedef{@fivecol@footgroup#1}{%
12664     \def\baselinestretch{\m@footnote@spacing}%
12665     \hsize\bidi@columnwidth
12666     \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12667     \m@rigrigidbodybalance{\nameuse{footins#1}}{5}{\splittopskip}}}%
12668 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
12669   \@namedef{@fivecol@LTRfootgroup#1}{%
12670     \def\baselinestretch{\m@footnote@spacing}%
12671     \hsize\bidi@columnwidth
12672     \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12673     \bidi@LTRrigrigidbodybalance{\nameuse{footins#1}}{5}{\splittopskip}}}%
12674 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
12675   \@namedef{@mpfivecol@footgroup#1}{%
12676     \def\baselinestretch{\m@footnote@spacing}%
12677     \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12678     \m@rigrigidbodybalance{\nameuse{@mpfootins#1}}{5}{\splittopskip}}}%
12679 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
12680   \@namedef{@mpfivecol@LTRfootgroup#1}{%
12681     \def\baselinestretch{\m@footnote@spacing}%
12682     \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12683     \bidi@LTRrigrigidbodybalance{\nameuse{@mpfootins#1}}{5}{\splittopskip}}}%
12684 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
12685   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12686   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12687   \@bidi@before@Hy@hyperfootnotes
12688   \let\@footnotetext\@sixcolfootnotetext
12689   \let\@LTRfootnotetext\@sixcolLTRfootnotetext
12690   \let\@RTLfootnotetext\@sixcolRTLfootnotetext
12691   \dimen\footinsv@r=6\footinsdim
12692   \count\footinsv@r=166\relax
12693   \m@make@sixcol@footgroup{v@r}%
12694   \let\@footgroupv@r\@sixcol@footgroupv@r
12695   \dimen\footinsv@l=6\footinsdim
12696   \count\footinsv@l=166\relax
12697   \bidi@make@sixcol@LTRfootgroup{v@l}%
12698   \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
12699   \let\@mpfootnotetext\@mpsixcolfootnotetext
12700   \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
12701   \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
12702   \@bidi@after@Hy@hyperfootnotes
12703   \m@make@mpsixcol@footgroup{v@r}%

```



```

12704 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
12705 \bidi@make@mpsixcol@LTRfootgroup{v@1}%
12706 \let\mp@LTRfootgroupv@1\@mpsixcol@LTRfootgroupv@1
12707 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12708 }
12709 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
12710 \if@RTL@footnote
12711 \footinsv@r
12712 \else
12713 \footinsv@l
12714 \fi
12715 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12716 \def\baselinestretch{\m@{footnote@spacing}%
12717 \reset@font\foottextfont
12718 \@preamfntext
12719 \protected@edef\@currentlabel{%
12720 \csname p@footnote\endcsname\@thefnmark}%
12721 \color@begingroup
12722 \@sixcolfootfmt{#1}%
12723 \color@endgroup}%
12724 \m@mmf@prepare}
12725 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12726 \def\baselinestretch{\m@{footnote@spacing}%
12727 \reset@font\LTRfoottextfont
12728 \@preamfntext
12729 \protected@edef\@currentlabel{%
12730 \csname p@footnote\endcsname\@thefnmark}%
12731 \color@begingroup
12732 \@sixcolLTRfootfmt{#1}%
12733 \color@endgroup}%
12734 \m@mmf@prepare}
12735 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12736 \def\baselinestretch{\m@{footnote@spacing}%
12737 \reset@font\RTLfoottextfont
12738 \@preamfntext
12739 \protected@edef\@currentlabel{%
12740 \csname p@footnote\endcsname\@thefnmark}%
12741 \color@begingroup
12742 \@sixcolRTLfootfmt{#1}%
12743 \color@endgroup}%
12744 \m@mmf@prepare}
12745 \bidi@ensure@newcommand{\@preamsixfmt}{%
12746 \hsize .16\hsize
12747 \parindent=\z@
12748 \tolerance=5000\relax
12749 \leavevmode}
12750 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
12751 \@preamsixfmt
12752 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12753 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
12754 \@preamsixfmt
12755 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12756 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
12757 \@preamsixfmt

```



```

12758 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12759 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
12760   \global\setbox
12761     \if@RTL@footnote
12762       \@mpfootinsv@r
12763   \else
12764     \@mpfootinsv@l
12765   \fi
12766   \vbox{%
12767     \unvbox
12768     \if@RTL@footnote
12769       \@mpfootinsv@r
12770   \else
12771     \@mpfootinsv@l
12772   \fi
12773   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12774   \def\baselinestretch{\m@m@footnote@spacing}%
12775   \reset@font\foottextfont
12776   \hsize\columnwidth \@parboxrestore
12777   \protected@edef\@currentlabel{%
12778     \csname p@mpfootnote\endcsname\@thefnmark}%
12779   \color@begingroup
12780     \@sixcolfootfmt{#1}%
12781   \color@endgroup}%
12782   \m@mmf@prepare}
12783 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
12784   \global\setbox\@mpfootinsv@l\vbox{%
12785     \unvbox\@mpfootinsv@l
12786     \@RTLfalse
12787     \def\baselinestretch{\m@m@footnote@spacing}%
12788     \reset@font\LTRfoottextfont
12789     \hsize\columnwidth \@parboxrestore
12790     \protected@edef\@currentlabel{%
12791       \csname p@mpfootnote\endcsname\@thefnmark}%
12792     \color@begingroup
12793       \@sixcolLTRfootfmt{#1}%
12794     \color@endgroup}%
12795     \m@mmf@prepare}
12796 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
12797   \global\setbox\@mpfootinsv@r\vbox{%
12798     \unvbox\@mpfootinsv@r
12799     \@RTLtrue
12800     \def\baselinestretch{\m@m@footnote@spacing}%
12801     \reset@font\RTLfoottextfont
12802     \hsize\columnwidth \@parboxrestore
12803     \protected@edef\@currentlabel{%
12804       \csname p@mpfootnote\endcsname\@thefnmark}%
12805     \color@begingroup
12806       \@sixcolRTLfootfmt{#1}%
12807     \color@endgroup}%
12808     \m@mmf@prepare}
12809 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
12810   \@namedef{\@sixcol@footgroup#1}{%
12811     \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12812 \hsize\bidicolumnwidth
12813 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12814 \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
12815 \newcommand{\@bidi@make@sixcol@LTRfootgroup}[1]{%
12816 \@namedef{@sixcol@LTRfootgroup#1}{%
12817 \def\baselinestretch{\m@m@footnote@spacing}%
12818 \hsize\bidicolumnwidth
12819 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12820 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
12821 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
12822 \@namedef{@mpsixcol@footgroup#1}{%
12823 \def\baselinestretch{\m@m@footnote@spacing}%
12824 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12825 \m@mrigidbalance{\@nameuse{mpfootins#1}}{6}{\splittopskip}}}}
12826 \newcommand{\@bidi@make@mpsixcol@LTRfootgroup}[1]{%
12827 \@namedef{@mpsixcol@LTRfootgroup#1}{%
12828 \def\baselinestretch{\m@m@footnote@spacing}%
12829 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12830 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{6}{\splittopskip}}}}
12831 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
12832 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12833 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12834 \@bidi@before@Hy@hyperfootnotes
12835 \let\@footnotetext\@sevendcolfootnotetext
12836 \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
12837 \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
12838 \dimen\footinsv@r=7\footinsdim
12839 \count\footinsv@r=142\relax
12840 \m@make@sevendcol@footgroup{v@r}%
12841 \let\@footgroupv@r\@sevendcol@footgroupv@r
12842 \dimen\footinsv@l=7\footinsdim
12843 \count\footinsv@l=142\relax
12844 \bidi@make@sevendcol@LTRfootgroup{v@l}%
12845 \let\@LTRfootgroupv@l\@sevendcol@LTRfootgroupv@l
12846 \let\@mpfootnotetext\@mpsevendcolfootnotetext
12847 \let\@mpLTRfootnotetext\@mpsevendcolLTRfootnotetext
12848 \let\@mpRTLfootnotetext\@mpsevendcolRTLfootnotetext
12849 \@bidi@after@Hy@hyperfootnotes
12850 \m@make@mpsevendcol@footgroup{v@r}%
12851 \let\mp@footgroupv@r\@mpsevendcol@footgroupv@r
12852 \bidi@make@mpsevendcol@LTRfootgroup{v@l}%
12853 \let\mp@LTRfootgroupv@l\@mpsevendcol@LTRfootgroupv@l
12854 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12855 }
12856 \bidi@ensure@newcommand{\@sevendcolfootnotetext}[1]{\insert
12857 \if@RTL@footnote
12858 \footinsv@r
12859 \else
12860 \footinsv@l
12861 \fi
12862 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12863 \def\baselinestretch{\m@m@footnote@spacing}%
12864 \reset@font\foottextfont
12865 \@preamfntext

```




```

12866 \protected@edef\@currentlabel{%
12867   \csname p@footnote\endcsname\@thefnmark}%
12868 \color@begingroup
12869   \@sevenscolfootfmt{#1}%
12870 \color@endgroup}%
12871 \m@mmf@prepare}
12872 \bidi@ensure@newcommand{\@sevenscolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12873   \def\baselinestretch{\m@m@footnote@spacing}%
12874   \reset@font\LTRfoottextfont
12875   \@preamfntext
12876   \protected@edef\@currentlabel{%
12877     \csname p@footnote\endcsname\@thefnmark}%
12878   \color@begingroup
12879     \@sevenscolLTRfootfmt{#1}%
12880   \color@endgroup}%
12881   \m@mmf@prepare}
12882 \bidi@ensure@newcommand{\@sevenscolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12883   \def\baselinestretch{\m@m@footnote@spacing}%
12884   \reset@font\RTLfoottextfont
12885   \@preamfntext
12886   \protected@edef\@currentlabel{%
12887     \csname p@footnote\endcsname\@thefnmark}%
12888   \color@begingroup
12889     \@sevenscolRTLfootfmt{#1}%
12890   \color@endgroup}%
12891   \m@mmf@prepare}
12892 \bidi@ensure@newcommand{\@preamsevenfmt}{%
12893   \hspace{.142\hspace}
12894   \parindent=\z@
12895   \tolerance=5000\relax
12896   \leavevmode}
12897 \bidi@ensure@newcommand{\@sevenscolfootfmt}[1]{%
12898   \@preamsevenfmt
12899   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12900 \bidi@ensure@newcommand{\@sevenscolLTRfootfmt}[1]{%
12901   \@preamsevenfmt
12902   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12903 \bidi@ensure@newcommand{\@sevenscolRTLfootfmt}[1]{%
12904   \@preamsevenfmt
12905   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12906 \bidi@ensure@newcommand{\@mpsevenscolfootnotetext}[1]{%
12907   \global\setbox
12908     \if@RTL@footnote
12909     \@mpfootinsv@r
12910   \else
12911     \@mpfootinsv@l
12912   \fi
12913   \vbox{%
12914     \unvbox
12915     \if@RTL@footnote
12916     \@mpfootinsv@r
12917   \else
12918     \@mpfootinsv@l
12919   \fi

```



```

12920 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12921 \def\baselinestretch{\m@m@footnote@spacing}%
12922 \reset@font\foottextfont
12923 \hsize\columnwidth \@parboxrestore
12924 \protected@edef\@currentlabel{%
12925 \csname p@mpfootnote\endcsname\@thefnmark}%
12926 \color@begingroup
12927 \sevenscolfootfmt{#1}%
12928 \color@endgroup}%
12929 \m@m@prepare}
12930 \bidi@ensure@newcommand{\@mpsevenscolLTRfootnotetext}[1]{%
12931 \global\setbox\@mpfootinsv@l\vbox{%
12932 \unvbox\@mpfootinsv@l
12933 \@RTLfalse
12934 \def\baselinestretch{\m@m@footnote@spacing}%
12935 \reset@font\LTRfoottextfont
12936 \hsize\columnwidth \@parboxrestore
12937 \protected@edef\@currentlabel{%
12938 \csname p@mpfootnote\endcsname\@thefnmark}%
12939 \color@begingroup
12940 \sevenscolLTRfootfmt{#1}%
12941 \color@endgroup}%
12942 \m@m@prepare}
12943 \bidi@ensure@newcommand{\@mpsevenscolRTLfootnotetext}[1]{%
12944 \global\setbox\@mpfootinsv@r\vbox{%
12945 \unvbox\@mpfootinsv@r
12946 \@RTLtrue
12947 \def\baselinestretch{\m@m@footnote@spacing}%
12948 \reset@font\RTLfoottextfont
12949 \hsize\columnwidth \@parboxrestore
12950 \protected@edef\@currentlabel{%
12951 \csname p@mpfootnote\endcsname\@thefnmark}%
12952 \color@begingroup
12953 \sevenscolRTLfootfmt{#1}%
12954 \color@endgroup}%
12955 \m@m@prepare}
12956 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
12957 \@namedef{\@sevenscol@footgroup#1}{%
12958 \def\baselinestretch{\m@m@footnote@spacing}%
12959 \hsize\bidi@columnwidth
12960 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12961 \m@mrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
12962 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
12963 \@namedef{\@sevenscol@LTRfootgroup#1}{%
12964 \def\baselinestretch{\m@m@footnote@spacing}%
12965 \hsize\bidi@columnwidth
12966 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12967 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
12968 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
12969 \@namedef{\@mpsevenscol@footgroup#1}{%
12970 \def\baselinestretch{\m@m@footnote@spacing}%
12971 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12972 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{7}{\splittopskip}}}}
12973 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%

```



```

12974 \@namedef{@mpsevencol@LTRfootgroup#1}{%
12975 \def\baselinestretch{\m@m@footnote@spacing}%
12976 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12977 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{7}{\splittopskip}}}}
12978 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
12979 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12980 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12981 \@bidi@before@Hy@hyperfootnotes
12982 \let\@footnotetext\@eightcolfootnotetext
12983 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
12984 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
12985 \dimen\footinsv@r=8\footinsdim
12986 \count\footinsv@r=125\relax
12987 \m@make@eightcol@footgroup{v@r}%
12988 \let\@footgroupv@r\@eightcol@footgroupv@r
12989 \dimen\footinsv@l=8\footinsdim
12990 \count\footinsv@l=125\relax
12991 \bidi@make@eightcol@LTRfootgroup{v@l}%
12992 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
12993 \let\@mpfootnotetext\@mpeightcolfootnotetext
12994 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
12995 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
12996 \@bidi@after@Hy@hyperfootnotes
12997 \m@make@mpeightcol@footgroup{v@r}%
12998 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
12999 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13000 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13001 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13002 }
13003 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
13004 \if@RTL@footnote
13005 \footinsv@r
13006 \else
13007 \footinsv@l
13008 \fi
13009 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13010 \def\baselinestretch{\m@m@footnote@spacing}%
13011 \reset@font\foottextfont
13012 \@preamfntext
13013 \protected@edef\@currentlabel{%
13014 \csname p@footnote\endcsname\@thefnmark}%
13015 \color@begingroup
13016 \@eightcolfootfmt{#1}%
13017 \color@endgroup}%
13018 \m@mmf@prepare}
13019 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13020 \def\baselinestretch{\m@m@footnote@spacing}%
13021 \reset@font\LTRfoottextfont
13022 \@preamfntext
13023 \protected@edef\@currentlabel{%
13024 \csname p@footnote\endcsname\@thefnmark}%
13025 \color@begingroup
13026 \@eightcolLTRfootfmt{#1}%
13027 \color@endgroup}%

```



```

13028 \m@mmf@prepare}
13029 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13030 \def\baselinestretch{\m@m@footnote@spacing}%
13031 \reset@font\RTLfoottextfont
13032 \@preamfntext
13033 \protected@edef\@currentlabel{%
13034 \csname p@footnote\endcsname\@thefnmark}%
13035 \color@begingroup
13036 \@eightcolRTLfootfmt{#1}%
13037 \color@endgroup}%
13038 \m@mmf@prepare}
13039 \bidi@ensure@newcommand{\@preameightfmt}{%
13040 \hspace{.125\hspace}
13041 \parindent=\z@
13042 \tolerance=5000\relax
13043 \leavevmode}
13044 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
13045 \@preameightfmt
13046 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13047 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
13048 \@preameightfmt
13049 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13050 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
13051 \@preameightfmt
13052 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13053 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
13054 \global\setbox
13055 \if@RTL@footnote
13056 \mpfootinsv@r
13057 \else
13058 \mpfootinsv@l
13059 \fi
13060 \vbox{%
13061 \unvbox
13062 \if@RTL@footnote
13063 \mpfootinsv@r
13064 \else
13065 \mpfootinsv@l
13066 \fi
13067 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13068 \def\baselinestretch{\m@m@footnote@spacing}%
13069 \reset@font\foottextfont
13070 \hspace\columnwidth \@parboxrestore
13071 \protected@edef\@currentlabel{%
13072 \csname p@mpfootnote\endcsname\@thefnmark}%
13073 \color@begingroup
13074 \@eightcolfootfmt{#1}%
13075 \color@endgroup}%
13076 \m@mmf@prepare}
13077 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
13078 \global\setbox\mpfootinsv@l\vbox{%
13079 \unvbox\mpfootinsv@l
13080 \@RTLfalse
13081 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

13082 \reset@font\LTRfoottextfont
13083 \hsize\columnwidth \@parboxrestore
13084 \protected@edef\@currentlabel{%
13085 \csname p@mpfootnote\endcsname\@thefnmark}%
13086 \color@begingroup
13087 \@eightcolLTRfootfmt{#1}%
13088 \color@endgroup}%
13089 \m@m@mf@prepare}
13090 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
13091 \global\setbox\@mpfootinsv@r\vbox{%
13092 \unvbox\@mpfootinsv@r
13093 \@RTLtrue
13094 \def\baselinestretch{\m@m@footnote@spacing}%
13095 \reset@font\RTLfoottextfont
13096 \hsize\columnwidth \@parboxrestore
13097 \protected@edef\@currentlabel{%
13098 \csname p@mpfootnote\endcsname\@thefnmark}%
13099 \color@begingroup
13100 \@eightcolRTLfootfmt{#1}%
13101 \color@endgroup}%
13102 \m@m@mf@prepare}
13103 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
13104 \@namedef{@eightcol@footgroup#1}{%
13105 \def\baselinestretch{\m@m@footnote@spacing}%
13106 \hsize\columnwidth
13107 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13108 \m@mrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
13109 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
13110 \@namedef{@eightcol@LTRfootgroup#1}{%
13111 \def\baselinestretch{\m@m@footnote@spacing}%
13112 \hsize\columnwidth
13113 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13114 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
13115 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
13116 \@namedef{@mpeightcol@footgroup#1}{%
13117 \def\baselinestretch{\m@m@footnote@spacing}%
13118 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13119 \m@mrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}}
13120 \newcommand{\bidi@make@mpeightcol@LTRfootgroup}[1]{%
13121 \@namedef{@mpeightcol@LTRfootgroup#1}{%
13122 \def\baselinestretch{\m@m@footnote@spacing}%
13123 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13124 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}}
13125 \bidi@ensure@newcommand{\ninecolumnfootnotes}{%
13126 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13127 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13128 \@bidi@before@Hy@hyperfootnotes
13129 \let\@footnotetext\@ninecolfootnotetext
13130 \let\@LTRfootnotetext\@ninecolLTRfootnotetext
13131 \let\@RTLfootnotetext\@ninecolRTLfootnotetext
13132 \dimen\footinsv@r=9\footinsdim
13133 \count\footinsv@r=111\relax
13134 \m@make@ninecol@footgroup{v@r}%
13135 \let\@footgroupv@r\@ninecol@footgroupv@r

```



```

13136 \dimen\footinsv@l=9\footinsdim
13137 \count\footinsv@l=111\relax
13138 \bidi@make@ninelcol@LTRfootgroup{v@l}%
13139 \let\@LTRfootgroupv@l\@ninelcol@LTRfootgroupv@l
13140 \let\@mpfootnotetext\@mpninelcolfootnotetext
13141 \let\@mpLTRfootnotetext\@mpninelcolLTRfootnotetext
13142 \let\@mpRTLfootnotetext\@mpninelcolRTLfootnotetext
13143 \@bidi@after@Hy@hyperfootnotes
13144 \m@make@mpninelcol@footgroup{v@r}%
13145 \let\mp@footgroupv@r\@mpninelcol@footgroupv@r
13146 \bidi@make@mpninelcol@LTRfootgroup{v@l}%
13147 \let\mp@LTRfootgroupv@l\@mpninelcol@LTRfootgroupv@l
13148 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13149 }
13150 \bidi@ensure@newcommand{\@ninelcolfootnotetext}[1]{\insert
13151   \if@RTL@footnote
13152     \footinsv@r
13153   \else
13154     \footinsv@l
13155   \fi
13156 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13157 \def\baselinestretch{\m@mm@footnote@spacing}%
13158 \reset@font\foottextfont
13159 \@preamfntext
13160 \protected@edef\@currentlabel{%
13161   \csname p@footnote\endcsname\@thefnmark}%
13162 \color@begingroup
13163   \@ninelcolfootfmt{#1}%
13164 \color@endgroup}%
13165 \m@mmf@prepare}
13166 \bidi@ensure@newcommand{\@ninelcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13167 \def\baselinestretch{\m@mm@footnote@spacing}%
13168 \reset@font\LTRfoottextfont
13169 \@preamfntext
13170 \protected@edef\@currentlabel{%
13171   \csname p@footnote\endcsname\@thefnmark}%
13172 \color@begingroup
13173   \@ninelcolLTRfootfmt{#1}%
13174 \color@endgroup}%
13175 \m@mmf@prepare}
13176 \bidi@ensure@newcommand{\@ninelcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13177 \def\baselinestretch{\m@mm@footnote@spacing}%
13178 \reset@font\RTLfoottextfont
13179 \@preamfntext
13180 \protected@edef\@currentlabel{%
13181   \csname p@footnote\endcsname\@thefnmark}%
13182 \color@begingroup
13183   \@ninelcolRTLfootfmt{#1}%
13184 \color@endgroup}%
13185 \m@mmf@prepare}
13186 \bidi@ensure@newcommand{\@preamninelcolfmt}{%
13187 \hsize .1\hsize
13188 \parindent=\z@
13189 \tolerance=5000\relax

```



```

13190 \leavevmode}
13191 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
13192 \@preamninefmt
13193 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13194 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
13195 \@preamninefmt
13196 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13197 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
13198 \@preamninefmt
13199 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13200 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
13201 \global\setbox
13202 \if@RTL@footnote
13203 \@mpfootinsv@r
13204 \else
13205 \@mpfootinsv@l
13206 \fi
13207 \vbox{%
13208 \unvbox
13209 \if@RTL@footnote
13210 \@mpfootinsv@r
13211 \else
13212 \@mpfootinsv@l
13213 \fi
13214 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13215 \def\baselinestretch{\m@m@footnote@spacing}%
13216 \reset@font\foottextfont
13217 \hsize\columnwidth \@parboxrestore
13218 \protected@edef\@currentlabel{%
13219 \csname p@mpfootnote\endcsname\@thefnmark}%
13220 \color@begingroup
13221 \@ninecolfootfmt{#1}%
13222 \color@endgroup}%
13223 \m@m@mmf@prepare}
13224 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
13225 \global\setbox\@mpfootinsv@l\vbox{%
13226 \unvbox\@mpfootinsv@l
13227 \@RTLfalse
13228 \def\baselinestretch{\m@m@footnote@spacing}%
13229 \reset@font\LTRfoottextfont
13230 \hsize\columnwidth \@parboxrestore
13231 \protected@edef\@currentlabel{%
13232 \csname p@mpfootnote\endcsname\@thefnmark}%
13233 \color@begingroup
13234 \@ninecolLTRfootfmt{#1}%
13235 \color@endgroup}%
13236 \m@m@mmf@prepare}
13237 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
13238 \global\setbox\@mpfootinsv@r\vbox{%
13239 \unvbox\@mpfootinsv@r
13240 \@RTLtrue
13241 \def\baselinestretch{\m@m@footnote@spacing}%
13242 \reset@font\RTLfoottextfont
13243 \hsize\columnwidth \@parboxrestore

```



```

13244 \protected@edef\@currentlabel{%
13245 \csname p@mpfootnote\endcsname\@thefnmark}%
13246 \color@begingroup
13247 \@ninecolRTLfootfmt{#1}%
13248 \color@endgroup}%
13249 \m@mmf@prepare}
13250 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
13251 \@namedef{\@ninecol@footgroup#1}{%
13252 \def\baselinestretch{\m@make@footnote@spacing}%
13253 \hsize\@bidi@columnwidth
13254 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13255 \m@mrigidbodybalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
13256 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
13257 \@namedef{\@ninecol@LTRfootgroup#1}{%
13258 \def\baselinestretch{\m@make@footnote@spacing}%
13259 \hsize\@bidi@columnwidth
13260 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13261 \bidi@LTRigidbodybalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
13262 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
13263 \@namedef{\@mpninecol@footgroup#1}{%
13264 \def\baselinestretch{\m@make@footnote@spacing}%
13265 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13266 \m@mrigidbodybalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}}
13267 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
13268 \@namedef{\@mpninecol@LTRfootgroup#1}{%
13269 \def\baselinestretch{\m@make@footnote@spacing}%
13270 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13271 \bidi@LTRigidbodybalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}}
13272 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
13273 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13274 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13275 \@bidi@before@Hy@hyperfootnotes
13276 \let\@footnotetext\@tencolfootnotetext
13277 \let\@LTRfootnotetext\@tencolLTRfootnotetext
13278 \let\@RTLfootnotetext\@tencolRTLfootnotetext
13279 \dimen\footinsv@r=10\footinsdim
13280 \count\footinsv@r=100\relax
13281 \m@make@tencol@footgroup{v@r}%
13282 \let\@footgroupv@r\@tencol@footgroupv@r
13283 \dimen\footinsv@l=10\footinsdim
13284 \count\footinsv@l=100\relax
13285 \bidi@make@tencol@LTRfootgroup{v@l}%
13286 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
13287 \let\@mpfootnotetext\@mptencolfootnotetext
13288 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
13289 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
13290 \@bidi@after@Hy@hyperfootnotes
13291 \m@make@mptencol@footgroup{v@r}%
13292 \let\mp@footgroupv@r\@mptencol@footgroupv@r
13293 \bidi@make@mptencol@LTRfootgroup{v@l}%
13294 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
13295 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13296 }
13297 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert

```




```

13298 \if@RTL@footnote
13299 \footinsv@r
13300 \else
13301 \footinsv@l
13302 \fi
13303 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13304 \def\baselinestretch{\m@m@footnote@spacing}%
13305 \reset@font\foottextfont
13306 \@preamfntext
13307 \protected@edef\@currentlabel{%
13308 \csname p@footnote\endcsname\@thefnmark}%
13309 \color@begingroup
13310 \@tencolfootfmt{#1}%
13311 \color@endgroup}%
13312 \m@mmf@prepare}
13313 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13314 \def\baselinestretch{\m@m@footnote@spacing}%
13315 \reset@font\LTRfoottextfont
13316 \@preamfntext
13317 \protected@edef\@currentlabel{%
13318 \csname p@footnote\endcsname\@thefnmark}%
13319 \color@begingroup
13320 \@tencolLTRfootfmt{#1}%
13321 \color@endgroup}%
13322 \m@mmf@prepare}
13323 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13324 \def\baselinestretch{\m@m@footnote@spacing}%
13325 \reset@font\RTLfoottextfont
13326 \@preamfntext
13327 \protected@edef\@currentlabel{%
13328 \csname p@footnote\endcsname\@thefnmark}%
13329 \color@begingroup
13330 \@tencolRTLfootfmt{#1}%
13331 \color@endgroup}%
13332 \m@mmf@prepare}
13333 \bidi@ensure@newcommand{\@preamtenfmt}{%
13334 \hspace{.1\hspace}
13335 \parindent=\z@
13336 \tolerance=5000\relax
13337 \leavevmode}
13338 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
13339 \@preamtenfmt
13340 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13341 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
13342 \@preamtenfmt
13343 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13344 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
13345 \@preamtenfmt
13346 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13347 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
13348 \global\setbox
13349 \if@RTL@footnote
13350 \@mpfootinsv@r
13351 \else

```



```

13352 \mpfootinsv@l
13353 \fi
13354 \vbox{%
13355 \unvbox
13356 \if@RTL@footnote
13357 \mpfootinsv@r
13358 \else
13359 \mpfootinsv@l
13360 \fi
13361 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13362 \def\baselinestretch{\m@m@footnote@spacing}%
13363 \reset@font\foottextfont
13364 \hsize\columnwidth \@parboxrestore
13365 \protected@edef\@currentlabel{%
13366 \csname p@mpfootnote\endcsname\@thefnmark}%
13367 \color@begingroup
13368 \@tencolfootfmt{#1}%
13369 \color@endgroup}%
13370 \m@m@mmf@prepare}
13371 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
13372 \global\setbox\@mpfootinsv@l\vbox{%
13373 \unvbox\@mpfootinsv@l
13374 \@RTLfalse
13375 \def\baselinestretch{\m@m@footnote@spacing}%
13376 \reset@font\LTRfoottextfont
13377 \hsize\columnwidth \@parboxrestore
13378 \protected@edef\@currentlabel{%
13379 \csname p@mpfootnote\endcsname\@thefnmark}%
13380 \color@begingroup
13381 \@tencolLTRfootfmt{#1}%
13382 \color@endgroup}%
13383 \m@m@mmf@prepare}
13384 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
13385 \global\setbox\@mpfootinsv@r\vbox{%
13386 \unvbox\@mpfootinsv@r
13387 \@RTLtrue
13388 \def\baselinestretch{\m@m@footnote@spacing}%
13389 \reset@font\RTLfoottextfont
13390 \hsize\columnwidth \@parboxrestore
13391 \protected@edef\@currentlabel{%
13392 \csname p@mpfootnote\endcsname\@thefnmark}%
13393 \color@begingroup
13394 \@tencolRTLfootfmt{#1}%
13395 \color@endgroup}%
13396 \m@m@mmf@prepare}
13397 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
13398 \@namedef{@tencol@footgroup#1}{%
13399 \def\baselinestretch{\m@m@footnote@spacing}%
13400 \hsize\bidi@columnwidth
13401 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13402 \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}%
13403 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
13404 \@namedef{@tencol@LTRfootgroup#1}{%
13405 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

13406 \hsize\bidicolumnwidth
13407 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13408 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
13409 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
13410 \@namedef{\mptencol@footgroup#1}{%
13411 \def\baselinestretch{\m@m@footnote@spacing}%
13412 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13413 \m@mrigidbalance{\@nameuse{\mpfootins#1}}{10}{\splittopskip}}}}
13414 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
13415 \@namedef{\mptencol@LTRfootgroup#1}{%
13416 \def\baselinestretch{\m@m@footnote@spacing}%
13417 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13418 \bidi@LTRrigidbalance{\@nameuse{\mpfootins#1}}{10}{\splittopskip}}}}
13419 \bidi@ensure@newcommand{\m@munvxh}[1]{%
13420 \setbox0=\vbox{\unvbox#1%
13421 \global\setbox1=\lastbox}%
13422 \unhbox1
13423 \unskip
13424 \unskip
13425 \unpenalty
13426 \hskip\m@mipn@skip}
13427 \bidi@ensure@newcommand{\m@mungebox}{%
13428 \setbox0=\hbox{\m@munvxh0}%
13429 \dp0=\z@
13430 \ht0=\footfudgefactor\wd0
13431 \box0
13432 \penalty0}
13433 \newskip\m@mipn@skip
13434 \bidi@ensure@newcommand*{\m@minterparanoteglue}[1]{%
13435 {\foottextfont\global\m@mipn@skip=#1\relax}}
13436 \m@minterparanoteglue{1em plus.3em minus.3em}
13437 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
13438 \setbox0=\hbox{}%
13439 \loop
13440 \unpenalty
13441 \setbox2=\lastbox
13442 \ifhbox2
13443 \setbox0=\hbox{\box2\unhbox0}
13444 \repeat}
13445 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
13446 \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
13447 \newcommand*{\AddExtraParaSkip}[1]{%
13448 \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
13449 }
13450 \let\bidi@xparaskip\relax
13451 \@onlypreamble\AddExtraParaSkip
13452 \@onlypreamble\bidi@xparaskip
13453 \def\bidi@startparafootskip#1{%
13454 \global\advance\skip#1\bidi@paraskip
13455 }
13456 \@onlypreamble\bidi@startparafootskip
13457 \bidi@ensure@newcommand{\paragraphfootnotes}{%
13458 \@namedef{\foottextfontv@r}{\foottextfont}% % [RS]
13459 \@namedef{\foottextfontv@l}{\LTRfoottextfont}%

```



```

13460 \@bidi@before@Hy@hyperfootnotes
13461 \let\@footnotetext\@parafootnotetext
13462 \let\@LTRfootnotetext\@paraLTRfootnotetext
13463 \let\@RTLfootnotetext\@paraRTLfootnotetext
13464 \dimen\footinsv@r=\footinsdim
13465 \count\footinsv@r=1000\relax
13466 \let\@bidi@removexfootskip\@bidi@removexparafootskip
13467 \m@make@para@footgroup{v@r}%
13468 \m@make@para@footstart{v@r}%
13469 \let\@footgroupv@r\@para@footgroupv@r
13470 \let\@footstartv@r\@para@footstartv@r
13471 \dimen\footinsv@l=\footinsdim
13472 \count\footinsv@l=1000\relax
13473 \bidi@make@para@LTRfootgroup{v@l}%
13474 \m@make@para@footstart{v@l}%
13475 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
13476 \let\@footstartv@l\@para@footstartv@l
13477 \let\@mpfootnotetext\@mpparafootnotetext
13478 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13479 \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
13480 \@bidi@after@Hy@hyperfootnotes
13481 \m@make@mppara@footgroup{v@r}%
13482 \bidi@make@mppara@LTRfootgroup{v@l}%
13483 \let\@mp@footgroupv@r\@mppara@footgroupv@r
13484 \let\@mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
13485 \g@addto@macro\@bidi@floathook{%
13486   \begingroup
13487     \foottextfont \@tempdima\normalbaselineskip
13488     \multiply \@tempdima \@cclvi
13489     \@tempdimb \columnwidth
13490     \divide \@tempdimb \@cclvi
13491     \divide \@tempdima \@tempdimb
13492     \xdef\footfudgefactor{\strip@pt\@tempdima}%
13493   \endgroup
13494 }
13495 \AtBeginDocument{%
13496   \begingroup
13497     \foottextfont
13498     \@tempdima\footnotesep
13499     \advance\@tempdima -\ht\strutbox
13500     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
13501     \advance\@tempdima.5\normalbaselineskip
13502     \bidi@xparaskip
13503     \xdef\@bidi@paraskip{\the\@tempdima\relax}%
13504   \endgroup
13505   \bidi@startparafootskip\footinsv@r
13506   \bidi@startparafootskip\footinsv@l
13507 }
13508 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13509 }
13510 \newcommand{\normalRTLparaLTRfootnotes}{%
13511   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13512   \@bidi@before@Hy@hyperfootnotes
13513   \if@RTL@footnote

```



```

13514 \let\@footnotetext\m@mold@footnotetext
13515 \else
13516 \let\@footnotetext\@parafootnotetext
13517 \fi
13518 \let\@LTRfootnotetext\@paraLTRfootnotetext
13519 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
13520 \dimen\footinsv@l=\footinsdim
13521 \count\footinsv@l=1000\relax
13522 \let\@bidi@removexfootskip\@bidi@removexparafootskip
13523 \bidi@make@para@LTRfootgroup{v@l}%
13524 \m@make@para@footstart{v@l}%
13525 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
13526 \let\@footstartv@l\@para@footstartv@l
13527 \if@RTL@footnote
13528 \let\@mpfootnotetext\m@mold@mpfootnotetext
13529 \else
13530 \let\@mpfootnotetext\@mpparafootnotetext
13531 \fi
13532 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13533 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
13534 \@bidi@after@Hy@hyperfootnotes
13535 \bidi@make@mppara@LTRfootgroup{v@l}%
13536 \let\@mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
13537 \g@addto@macro\@bidi@floathook{%
13538 \beginngroup
13539 \LTRfoottextfont \@tempdima\normalbaselineskip
13540 \multiply \@tempdima \@cclvi
13541 \@tempdimb \columnwidth
13542 \divide \@tempdimb \@cclvi
13543 \divide \@tempdima \@tempdimb
13544 \xdef\footfudgefactor{\strip@pt\@tempdima}%
13545 \endgroup
13546 }
13547 \AtBeginDocument{%
13548 \beginngroup
13549 \LTRfoottextfont
13550 \@tempdima\footnotesep
13551 \advance\@tempdima -\ht\strutbox
13552 \ifdim\@tempdima<z@ \@tempdima z@ \fi
13553 \advance\@tempdima.5\normalbaselineskip
13554 \bidi@xparaskip
13555 \xdef\@bidi@paraskip{\the\@tempdima\relax}%
13556 \endgroup
13557 \bidi@startparafootskip\footinsv@l
13558 }
13559 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
13560 }
13561 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
13562 \if@RTL@footnote
13563 \footinsv@r
13564 \else
13565 \footinsv@l
13566 \fi
13567 {%

```



```

13568 \let\bid@RTL@everypar\@empty%
13569 \def\baselinestretch{\m@m@footnote@spacing}%
13570 \reset@font\foottextfont
13571 \@preamfntext
13572 \protected@edef\@currentlabel{%
13573   \csname p@footnote\endcsname\@thefnmark}%
13574 \setbox0=\vbox{\hsize=\maxdimen
13575   \color@begingroup
13576     \noindent \@parafootfmt{#1}%
13577   \color@endgroup}%
13578 \m@mungebox}\m@mmf@prepare}
13579 \bid@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
13580 \let\bid@RTL@everypar\@empty%
13581 \def\baselinestretch{\m@m@footnote@spacing}%
13582 \reset@font\LTRfoottextfont
13583 \@preamfntext
13584 \protected@edef\@currentlabel{%
13585   \csname p@footnote\endcsname\@thefnmark}%
13586 \setbox0=\vbox{\hsize=\maxdimen
13587   \color@begingroup
13588     \noindent \@paraLTRfootfmt{#1}%
13589   \color@endgroup}%
13590 \m@mungebox}\m@mmf@prepare}
13591 \bid@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
13592 \let\bid@RTL@everypar\@empty%
13593 \def\baselinestretch{\m@m@footnote@spacing}%
13594 \reset@font\RTLfoottextfont
13595 \@preamfntext
13596 \protected@edef\@currentlabel{%
13597   \csname p@footnote\endcsname\@thefnmark}%
13598 \setbox0=\vbox{\hsize=\maxdimen
13599   \color@begingroup
13600     \noindent \@paraRTLfootfmt{#1}%
13601   \color@endgroup}%
13602 \m@mungebox}\m@mmf@prepare}
13603 \bid@ensure@newcommand{\@parafootfmt}[1]{%
13604   \parindent=\z@
13605   \parfillskip=0pt \@plus 1fil
13606   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
13607 \bid@ensure@newcommand{\@paraLTRfootfmt}[1]{%
13608   \parindent=\z@
13609   \parfillskip=0pt \@plus 1fil
13610   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
13611 \bid@ensure@newcommand{\@paraRTLfootfmt}[1]{%
13612   \parindent=\z@
13613   \parfillskip=0pt \@plus 1fil
13614   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
13615 \bid@ensure@newcommand{\@mpparafootnotetext}[1]{%
13616   \global\setbox
13617   \if@RTL@footnote
13618     \@mpfootinsv@r
13619   \else
13620     \@mpfootinsv@l
13621   \fi

```



```

13622 \vbox{%
13623   \unvbox
13624   \if@RTL@footnote
13625     \@mpfootinsv@r
13626   \else
13627     \@mpfootinsv@l
13628   \fi
13629   \let\bid@RTL@everypar\@empty
13630   \def\baselinestretch{\m@m@footnote@spacing}%
13631   \reset@font\foottextfont
13632   \hsize\columnwidth \@parboxrestore
13633   \protected@edef\@currentlabel{%
13634     \csname p@mpfootnote\endcsname\@thefnmark}%
13635   \setbox0=\vbox{\hsize=\maxdimen
13636     \color@begingroup
13637       \noindent \@parafootfmt{#1}%
13638     \color@endgroup}%
13639   \m@mungebox}\m@mmf@prepare}
13640 \bid@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
13641   \global\setbox\@mpfootinsv@l\vbox{%
13642     \unvbox\@mpfootinsv@l
13643     \let\bid@RTL@everypar\@empty
13644     \def\baselinestretch{\m@m@footnote@spacing}%
13645     \reset@font\LTRfoottextfont
13646     \hsize\columnwidth \@parboxrestore
13647     \protected@edef\@currentlabel{%
13648       \csname p@mpfootnote\endcsname\@thefnmark}%
13649     \setbox0=\vbox{\hsize=\maxdimen
13650       \color@begingroup
13651         \noindent \@paraLTRfootfmt{#1}%
13652       \color@endgroup}%
13653     \m@mungebox}\m@mmf@prepare}
13654 \bid@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
13655   \global\setbox\@mpfootinsv@r\vbox{%
13656     \unvbox\@mpfootinsv@r
13657     \let\bid@RTL@everypar\@empty
13658     \def\baselinestretch{\m@m@footnote@spacing}%
13659     \reset@font\RTLfoottextfont
13660     \hsize\columnwidth \@parboxrestore
13661     \protected@edef\@currentlabel{%
13662       \csname p@mpfootnote\endcsname\@thefnmark}%
13663     \setbox0=\vbox{\hsize=\maxdimen
13664       \color@begingroup
13665         \noindent \@paraRTLfootfmt{#1}%
13666       \color@endgroup}%
13667     \m@mungebox}\m@mmf@prepare}
13668 \bid@ensure@newcommand{\m@make@para@footgroup}[1]{%
13669   \@namedef{para@footgroup#1}{%
13670     \unvbox\@nameuse{footins#1}
13671     \@RTLtrue
13672     \m@makehboxofhboxes
13673     \setbox0=\hbox{\unhbox0 \m@removehboxes}%
13674     \hsize\bid@columnwidth
13675     \@parboxrestore

```



```

13676 \def\baselinestretch{\m@m@footnote@spacing}%
13677 \@nameuse{foottextfont#1}%
13678 \noindent\unhbox0\par}}
13679 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
13680 \@namedef{@para@LTRfootgroup#1}{%
13681 \unvbox\@nameuse{footins#1}
13682 \@RTLfalse
13683 \m@mmakehboxofhboxes
13684 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13685 \hsize\bidi@columnwidth
13686 \@parboxrestore
13687 \def\baselinestretch{\m@m@footnote@spacing}%
13688 \@nameuse{foottextfont#1}%
13689 \noindent\unhbox0\par}}
13690 \newcommand{\bidi@removexparafootskip}{%
13691 \advance\@tempskipa -\bidi@paraskip
13692 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
13693 }
13694 \let\bidi@removexfootskip\relax
13695 \bidi@ensure@newcommand{\m@m@make@mppara@footgroup}[1]{%
13696 \@namedef{@mppara@footgroup#1}{%
13697 \unvbox\@nameuse{@mpfootins#1}
13698 \@RTLtrue
13699 \m@mmakehboxofhboxes
13700 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13701 \def\baselinestretch{\m@m@footnote@spacing}%
13702 \@nameuse{foottextfont#1}%
13703 \noindent\unhbox0\par}}
13704 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
13705 \@namedef{@mppara@LTRfootgroup#1}{%
13706 \unvbox\@nameuse{@mpfootins#1}
13707 \@RTLfalse
13708 \m@mmakehboxofhboxes
13709 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13710 \def\baselinestretch{\m@m@footnote@spacing}%
13711 \@nameuse{foottextfont#1}%
13712 \noindent\unhbox0\par}}
13713 \bidi@ensure@newcommand{\m@m@make@para@footstart}[1]{%
13714 \@namedef{@para@footstart#1}{%
13715 \leftskip=\z@
13716 \rightskip=\z@
13717 \parindent=\z@
13718 }%
13719 }
13720 \bidi@ensure@newcommand*{\m@m@make@colfloats}{%
13721 \xdef\@freelist{\@freelist\@midlist}%
13722 \global\let\@midlist\@empty
13723 \@combinefloats}
13724 \bidi@ensure@newcommand*{\m@m@make@coltext}{%
13725 \ifvbox\@kludgeins
13726 \@makespecialcolbox
13727 \else
13728 \setbox\@outputbox \vbox to\@colht{%
13729 \@texttop

```




```

13730     \dimen@ \dp\@outputbox
13731     \unvbox \@outputbox
13732     \vskip -\dimen@
13733     \@textbottom}%
13734 \fi}
13735 \bidi@ensure@newcommand*{\m@m@makecolintro}{\}
13736 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
13737   \boxmaxdepth\@maxdepth
13738   \@tempdima\dp\@cclv
13739   \unvbox\@cclv
13740   \vskip-\@tempdima
13741   \bidi@mopfn@bottom
13742   \vskip \skip\footins
13743   \color@begingroup
13744     \normalcolor
13745     \footnoterule
13746     \unvbox \footins
13747   \color@endgroup
13748   }%
13749 }
13750 \newcommand*{\bidi@mopfootnotebf}{\}
13751 \setbox\@outputbox \vbox{%
13752   \boxmaxdepth\@maxdepth
13753   \unvbox\@outputbox
13754   \bidi@mopfn@bottom
13755   \vskip\skip\footins
13756   \color@begingroup
13757     \normalcolor
13758     \footnoterule
13759     \unvbox \footins
13760   \color@endgroup
13761   }%
13762 }
13763 \gdef\mem@m@makecol{%
13764   \m@m@makecolintro
13765   \m@m@doextrafeet
13766   \ifvoid\footins
13767     \setbox\@outputbox \box\@cclv
13768   \else
13769     \m@mopfootnote
13770   \fi
13771   \m@m@makecolfloats
13772   \m@m@makecoltext
13773   \global \maxdepth \@maxdepth}
13774 \gdef\bidi@makecolbf{%
13775   \m@m@makecolintro
13776   \m@m@doextrafeet
13777   \setbox\@outputbox \box\@cclv
13778   \m@m@makecolfloats
13779   \ifvoid\footins
13780   \else
13781     \bidi@mopfootnotebf
13782   \fi
13783   \m@m@makecoltext

```



```

13784 \global \maxdepth \@maxdepth}
13785 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem\@makecol}}
13786 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi\@makecolbf}}
13787 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
13788 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
13789 \FeetAboveFloat
13790 \FeetBelowRagged
13791 \def\bidi@reinserts#1{\ifvoid#1\else
13792     \ifnum\count\@currbox>\z@
13793     \advance\@pageht \ht#1%
13794     \advance\@pageht \skip#1%
13795     \advance\@pageht \dp#1%
13796     \fi
13797     \insert#1{\unvbox#1}%
13798 \fi
13799 }
13800 \def\bidi@init@multi@footins#1{%
13801     \multiply\count#1\col@number
13802     \multiply\skip#1\col@number
13803 }
13804 \def\bidi@reinsert@footnotes#1{\ifvoid#1\else
13805     \insert#1{\fi}
13806 \AtBeginDocument{%
13807     \bidi@preto\@doclearpage\m@mmdoextrafeet
13808     \g@addto@macro\@reinserts{%
13809         \bidi@reinserts\footinsv@r
13810         \bidi@reinserts\footinsv@l
13811     }
13812     \bidi@floathook
13813     \g@addto@macro\@floatplacement{%
13814         \bidi@ifmulticol{}\bidi@floathook}%
13815     }%
13816     \if\bidi@csundef{multi@column@out}{%
13817         \onlypreamble\bidi@init@multi@footins
13818         \let\bidi@ifmulticol\@secondoftwo
13819     }{%
13820         \bidi@preto\multi@column@out\m@mmdoextrafeet
13821         \g@addto@macro\init@mult@footins{%
13822             \bidi@init@multi@footins\footinsv@r
13823             \bidi@init@multi@footins\footinsv@l
13824         }%
13825         \g@addto@macro\reinsert@footnotes{%
13826             \bidi@reinsert@footnotes\footinsv@r
13827             \bidi@reinsert@footnotes\footinsv@l
13828         }%
13829     }%
13830 }

```

87 File extreport-xetex-bidi.def

```

13831 \ProvidesFile{extreport-xetex-bidi.def}[2025/09/30 v0.4 bidi adaptations for extreport class]
13832 \renewcommand*\l@part[2]{%
13833     \ifnum \c@tocdepth >-2\relax
13834         \addpenalty{-\@highpenalty}%

```



```

13835 \addvspace{2.25em \@plus\p@}%
13836 \begingroup
13837 \setlength\@tempdima{3em}%
13838 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13839 \parfillskip -\@pnumwidth
13840 {\leavevmode
13841 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
13842 \nobreak
13843 \global\@nobreaktrue
13844 \everypar{\global\@nobreakfalse\everypar{}}%
13845 \endgroup
13846 \fi}
13847 \renewcommand*\l@chapter[2]{%
13848 \ifnum \c@tocdepth >\m@ne
13849 \addpenalty{-\@highpenalty}%
13850 \vskip 1.0em \@plus\p@
13851 \setlength\@tempdima{1.5em}%
13852 \begingroup
13853 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13854 \parfillskip -\@pnumwidth
13855 \leavevmode \bfseries
13856 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
13857 \hskip -\if@RTL\rightskip\else\leftskip\fi
13858 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
13859 \penalty\@highpenalty
13860 \endgroup
13861 \fi}
13862 \def\@makechapterhead#1{%
13863 \vspace*{50\p@}%
13864 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
13865 \ifnum \c@secnumdepth >\m@ne
13866 \huge\bfseries \@chapapp\space \thechapter
13867 \par\nobreak
13868 \vskip 20\p@
13869 \fi
13870 \interlinepenalty\@M
13871 \Huge \bfseries #1\par\nobreak
13872 \vskip 40\p@
13873 }}
13874 \def\@makeschapterhead#1{%
13875 \vspace*{50\p@}%
13876 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
13877 \normalfont
13878 \interlinepenalty\@M
13879 \Huge \bfseries #1\par\nobreak
13880 \vskip 40\p@
13881 }}
13882 \renewcommand\left@footnoterule{%
13883 \kern-3\p@
13884 \hrule\@width.4\columnwidth
13885 \kern2.6\p@}
13886 \renewcommand\right@footnoterule{%
13887 \kern-3\p@
13888 \nointerlineskip

```



```

13889 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
13890 \kern2.6\p@}
13891 \renewenvironment{thebibliography}[1]
13892     {\chapter*{\bibname
13893         \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
13894         \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
13895         \bidi@thebibliography@font@hook%
13896         \list{\@biblabel{\@arabic\c@enumiv}}%
13897             {\settowidth\labelwidth{\@biblabel{#1}}%
13898              \leftmargin\labelwidth
13899              \advance\leftmargin\labelsep
13900              \@openbib@code
13901              \usecounter{enumiv}%
13902              \let\p@enumiv\@empty
13903              \renewcommand\theenumiv{\@arabic\c@enumiv}}%
13904         \sloppy\clubpenalty4000\widowpenalty4000%
13905         \sfcode\.\@m}
13906     {\def\@noitemerr
13907         {\@latex@warning{Empty `thebibliography' environment}}}%
13908     \endlist}
13909 \if@titlepage
13910 \renewcommand\maketitle{\begin{titlepage}%
13911 \let\footnotesize\small
13912 \let\right@footnoterule\relax
13913 \let\left@footnoterule\relax
13914 \let\textwidth\footnoterule\relax
13915 \let \footnote \thanks
13916 \null\vfil
13917 \vskip 60\p@
13918 \begin{center}%
13919     {\LARGE \@title \par}%
13920     \vskip 3em%
13921     {\large
13922         \lineskip .75em%
13923         \begin{tabular}[t]{c}%
13924             \@author
13925         \end{tabular}\par}%
13926         \vskip 1.5em%
13927         {\large \@date \par}%           % Set date in \large size.
13928 \end{center}\par
13929 \@thanks
13930 \vfil\null
13931 \end{titlepage}%
13932 \setcounter{footnote}{0}%
13933 \global\let\thanks\relax
13934 \global\let\maketitle\relax
13935 \global\let\@thanks\@empty
13936 \global\let\@author\@empty
13937 \global\let\@date\@empty
13938 \global\let\@title\@empty
13939 \global\let\title\relax
13940 \global\let\author\relax
13941 \global\let\date\relax
13942 \global\let\and\relax

```



```

13943 }
13944 \else
13945 \renewcommand\maketitle{\par
13946   \begin{group}
13947     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
13948     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
13949     \long\def\@makefntext##1{\parindent 1em\noindent
13950       \hb@xt@1.8em{%
13951         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
13952     \if@twocolumn
13953       \ifnum \col@number=\@ne
13954         \@maketitle
13955       \else
13956         \twocolumn[\@maketitle]%
13957       \fi
13958     \else
13959       \newpage
13960       \global\@topnum\z@ % Prevents figures from going at top of page.
13961       \@maketitle
13962     \fi
13963     \thispagestyle{plain}\@thanks
13964   \end{group}
13965   \setcounter{footnote}{0}%
13966   \global\let\thanks\relax
13967   \global\let\maketitle\relax
13968   \global\let\@maketitle\relax
13969   \global\let\@thanks\@empty
13970   \global\let\@author\@empty
13971   \global\let\@date\@empty
13972   \global\let\@title\@empty
13973   \global\let\title\relax
13974   \global\let\author\relax
13975   \global\let\date\relax
13976   \global\let\and\relax
13977 }
13978 \def\@maketitle{%
13979   \newpage
13980   \null
13981   \vskip 2em%
13982   \begin{center}%
13983     \let \footnote \thanks
13984     {\LARGE \@title \par}%
13985     \vskip 1.5em%
13986     {\large
13987       \lineskip .5em%
13988       \begin{tabular}[t]{c}%
13989         \@author
13990       \end{tabular}\par}%
13991     \vskip 1em%
13992     {\large \@date}%
13993   \end{center}%
13994   \par
13995   \vskip 1.5em}
13996 \fi

```



```

13997 \renewcommand\thesection      {\thechapter\@SepMark\@arabic\c@section}
13998 \renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@subsection}
13999 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
14000 \renewcommand\theparagraph     {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14001 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
14002 \renewcommand\theequation{%
14003   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
14004 \renewcommand\thefigure{%
14005   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14006 \renewcommand\thetable{%
14007   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}

```

88 File fancybox-xetex-bidi.def

```

14008 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
14009 \def\fancy@oval#1#2#3{%
14010   \boxmaxdepth \maxdimen
14011   \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
14012   \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
14013   \@ovxx#1\relax
14014   \advance\@ovxx-\@wholewidth
14015   \@ovyy#2\relax
14016   \advance\@ovyy-\@wholewidth
14017   \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx\else \@ovyy \fi
14018   \advance\@tempdimb-2\p@
14019   \ifdim\@tempdimb>\the@cornersize\relax
14020     \@tempdimb=\the@cornersize
14021   \fi
14022   \@getcirc\@tempdimb
14023   \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
14024   \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
14025   \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
14026   \@circlefnt
14027   \setbox\@tempboxa\hbox{\beginL%
14028     \if@ovr \@ovvert32\kern -\@tempdima \fi
14029     \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
14030     \if@ovt \@ovhorz \kern -\@ovxx \fi
14031     \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
14032   \advance\@ovdx\@ovro
14033   \advance\@ovdy\@ovro
14034   \advance\@ovxx\@wholewidth
14035   \wd\@tempboxa=\@ovxx
14036   \dp\@tempboxa=\z@}

```

89 File fancyhdr-xetex-bidi.def

```

14037 \ProvidesFile{fancyhdr-xetex-bidi.def}[2025/09/03 v1.0 bidi adaptations for fancyhdr package]
14038
14039 \let\f@nch@everypar\everypar
14040
14041 \def\f@nch@parbox@align@hl{\def\f@nch@align@h{\bidi@raggedright}}
14042 \def\f@nch@parbox@align@hr{\def\f@nch@align@h{\bidi@raggedleft}}
14043

```



90 File fix2col-xetex-bidi.def

```

14044 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package f
14045 \def\RTL@outputdblcol{%
14046   \if@firstcolumn
14047     \global\@firstcolumnfalse
14048     \global\setbox\@leftcolumn\copy\@outputbox
14049     \splitmaxdepth\maxdimen
14050     \vbadness\maxdimen
14051     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14052     \toks@\expandafter{\topmark}%
14053     \xdef\@firstcoltopmark{\the\toks@}%
14054     \toks@\expandafter{\splitfirstmark}%
14055     \xdef\@firstcolfirstmark{\the\toks@}%
14056     \ifx\@firstcolfirstmark\@empty
14057       \global\let\@setmarks\relax
14058     \else
14059       \gdef\@setmarks{%
14060         \let\firstmark\@firstcolfirstmark
14061         \let\topmark\@firstcoltopmark}%
14062     \fi
14063 \else \global\@firstcolumntrue
14064 \setbox\@outputbox \vbox {\hbox to\textwidth {%
14065 \hskip \columnwidth
14066 \hfil \vrule width\columnseprule \hfil
14067 \hbox to\columnwidth {%
14068 \bidi@firstcolumn@status@write%
14069 \box\@leftcolumn \hss}%
14070 \hskip -\textwidth
14071 \hbox to\columnwidth{%
14072 \bidi@lastcolumn@status@write%
14073 \box\@outputbox \hss}%
14074 \hskip \columnsep
14075 \hskip \columnwidth }}%
14076 \@combinedblfloats \@setmarks \@outputpage
14077 \begingroup \@dblfloatplacement \@startdblcolumn
14078 \@whilesw\if@fcolmade \fi
14079 {\@outputpage \@startdblcolumn }\endgroup
14080 \fi}
14081 \def\LTR@outputdblcol{%
14082   \if@firstcolumn
14083     \global\@firstcolumnfalse
14084     \global\setbox\@leftcolumn\copy\@outputbox
14085     \splitmaxdepth\maxdimen
14086     \vbadness\maxdimen
14087     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14088     \toks@\expandafter{\topmark}%
14089     \xdef\@firstcoltopmark{\the\toks@}%
14090     \toks@\expandafter{\splitfirstmark}%
14091     \xdef\@firstcolfirstmark{\the\toks@}%
14092     \ifx\@firstcolfirstmark\@empty
14093       \global\let\@setmarks\relax
14094     \else
14095       \gdef\@setmarks{%

```



```

14096         \let\firstmark\@firstcolfirstmark
14097         \let\topmark\@firstcoltopmark}%
14098     \fi
14099 \else
14100     \global\@firstcolumntrue
14101     \setbox\@outputbox\vbox{%
14102         \hb@xt@\textwidth{%
14103             \hb@xt@\columnwidth{%
14104                 \bidi@firstcolumn@status@write%
14105                 \box\@leftcolumn \hss}%
14106             \hfil
14107             \vrule \@width\columnseprule
14108             \hfil
14109             \hb@xt@\columnwidth{%
14110                 \bidi@lastcolumn@status@write%
14111                 \box\@outputbox \hss}}}%
14112 \@combinedblfloats
14113 \setmarks
14114 \outputpage
14115 \begingroup
14116     \@dblfloatplacement
14117     \@startdblcolumn
14118     \@whiles\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
14119 \endgroup
14120 \fi}

```

91 File fleqn-xetex-bidi.def

```

14121 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX]
14122 \DeclareRobustCommand\{\relax
14123     \ifmmode\@badmath
14124     \else
14125         \begin{trivlist}%
14126             \@beginparpenalty\predisplaypenalty
14127             \@endparpenalty\postdisplaypenalty
14128             \item[]\leavevmode
14129             \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
14130             \hskip\mathindent\bgroup
14131         \fi}
14132 \DeclareRobustCommand\{\relax
14133     \ifmmode
14134         \egroup $\hfil% $
14135     \endL\egroup
14136     \end{trivlist}%
14137     \else \@badmath
14138     \fi}
14139 \renewenvironment{equation}%
14140     {\@beginparpenalty\predisplaypenalty
14141     \@endparpenalty\postdisplaypenalty
14142     \refstepcounter{equation}%
14143     \trivlist \item[]\leavevmode
14144     \hb@xt@\linewidth\bgroup\beginL $\m@th% $
14145     \displaystyle
14146     \hskip\mathindent}%

```




```

14147      {$\hfil % $
14148      \displaywidth\linewidth\hbox{\@eqnnum}%
14149      \endL\egroup
14150      \endtrivlist}

```

92 File float-xetex-bidi.def

```

14151 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for X
14152 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
14153 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
14154 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
14155 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]%
14156 \expandafter\edef\csname the#1\endcsname{%
14157 \expandafter\noexpand\csname
14158 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
14159 {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

93 File floatrow-xetex-bidi.def

```

14160 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow package
14161 \RequirePackage{color}
14162 \renewcommand\flnew@within[1]{\@addtoreset{FB@captype}{#1}%
14163 \expandafter\edef\csname the\FB@captype\endcsname{%
14164 \expandafter\noexpand\csname
14165 the#1\endcsname\@SepMark\noexpand\arabic{FB@captype}}}

```

94 File flowfram-xetex-bidi.def

```

14166 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram package
14167 \def\@outputdblcol{%
14168 \@nxtcol=\c@thisframe
14169 \c@curpg=\c@page
14170 \g@tnextcol{\@nxtcol}%
14171 \if@ff@nwpg % next flow frame starts on new page
14172 \global\@firstcolumntrue
14173 \setcolbox\c@thisframe
14174 \if@specialpage
14175 \global\@specialpagefalse
14176 \nameuse{ps@\@specialstyle}\relax
14177 \fi
14178 \if@twoside
14179 \ifodd\count\z@
14180 \let\@thehead\@oddhead
14181 \let\@thefoot\@oddfoot
14182 \else
14183 \let\@thehead\@evenhead
14184 \let\@thefoot\@evenfoot
14185 \fi
14186 \else
14187 \let\@thehead\@oddhead
14188 \let\@thefoot\@oddfoot
14189 \fi
14190 \@begindvi
14191 \@dodynamicthehead\@dodynamicthefoot

```



```

14192 \vbadness=\@M
14193 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}}%
14194 \@combinedblfloats
14195 \@outputpage
14196 \advance\c@curpg by -\c@page\relax
14197 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
14198 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}}%
14199 \@outputpage}
14200 \beginingroup
14201 \dblfloatplacement
14202 \@startdblcolumn
14203 \@whilesw \if@fcolmade \fi
14204 {\@outputpage \@startdblcolumn }\endgroup
14205 \@resetst@tics
14206 \@resetdyn@mics
14207 \else % still on same page, save contents of box255
14208 \global\@firstcolumnfalse
14209 \@setcolbox\c@thisframe
14210 \fi
14211 \global\c@thisframe=\@nxtcol
14212 \@setcol{\c@thisframe}\relax
14213 \global\@colht\vsiz
14214 }
14215 \def\@outputpage{%
14216 \beginingroup
14217 \let\protect\noexpand
14218 \@resetactivechars
14219 \global\let\@if@newlist\if@newlist
14220 \global\@newlistfalse\@parboxrestore
14221 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
14222 \bidi@beforeoutputpageshipouthook
14223 \shipout\vbox{\set@typeset@protect
14224 \aftergroup
14225 \endgroup
14226 \aftergroup
14227 \set@typeset@protect
14228 \reset@font\normalsize
14229 \bidi@font\@outputpage
14230 \normalsfcodes
14231 \let\label\@gobble
14232 \let\index\@gobble
14233 \let\glossary\@gobble
14234 \baselineskip\z@skip
14235 \lineskip\z@skip
14236 \lineskiplimit\z@
14237 \vskip\topmargin\moveright\@themargin
14238 \vbox{%
14239 \global\let\@bidi@BeforeHeader\@firstofone
14240 \bidi@beforeheaderhook
14241 \vskip\headheight
14242 \vskip\headsep
14243 \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
14244 \bidi@beforeoutputboxoutputpagehook
14245 \box\@outputbox

```



```

14246 \global\let\bid@AfterOutputBoxOutputPage\@firstofone
14247 \bid@afteroutputboxoutputpagehook
14248 }}%
14249 \global\let\bid@AfterOutputPageShipOut\@firstofone
14250 \bid@afteroutputpageshipouthook
14251 \global\let\if@newlist\@if@newlist
14252 \stepcounter{page}%
14253 \setcounter{displayedframe}{0}%
14254 \let\firstmark\botmark
14255 \global\let\bid@AtEndOutputPage\@firstofone
14256 \bid@atendoutputpagehook
14257 }
14258
14259
14260 \newcommand*\bid@s@tffftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{\}%
14261 \expandafter\bidicolor\ff@txtcol}}
14262
14263 \newcommand{\bid@ff@box}[3]{\@ffbackground{\vbox to#2
14264 {\hb@xt@ #1{\hss{\bid@s@tffftextcol #3}\hss}\vss\kern\z@}}}}
14265
14266
14267 \renewcommand*\@docolbox}[1]{%
14268 \edef\ff@frametype{%
14269 \csname @ff@frametype@romannumeral#1\endcsname}%
14270 \edef\ff@col{\csname @ff@col@romannumeral#1\endcsname}%
14271 \edef\ff@txtcol{\csname @ff@txtcol@romannumeral#1\endcsname}%
14272 \edef\ff@backcol{\csname @ff@backcol@romannumeral#1\endcsname}%
14273 \@ff@setoffset{#1}%
14274 \rotateframe{\csname @ff@angle@romannumeral#1\endcsname}{%
14275 \ifthenelse{\boolean{columnframe\romannumeral#1}}{\}%
14276 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
14277 {\csname colheight\romannumeral#1\endcsname}{%
14278 \expandafter\box\csname column\romannumeral#1\endcsname}{%
14279 \csname\ff@frametype\endcsname}%
14280 }{\}%
14281 \bid@ff@box{\csname colwidth\romannumeral#1\endcsname}%
14282 {\csname colheight\romannumeral#1\endcsname}{%
14283 \expandafter\box\csname column\romannumeral#1\endcsname}%
14284 }}}
14285 \IfClassLoadedT{book}{%
14286 \renewcommand\theequation
14287 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14288 \renewcommand \thefigure
14289 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14290 \renewcommand \thetable
14291 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14292 \renewcommand \thechapter {\@arabic\c@chapter}
14293 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14294 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14295 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
14296 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14297 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
14298 \IfClassLoadedT{report}{%
14299 \renewcommand\theequation

```



```

14300 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14301 \renewcommand \thefigure
14302     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14303 \renewcommand \thetable
14304     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14305 \renewcommand \thechapter {\@arabic\c@chapter}
14306 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14307 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14308 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
14309 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14310 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
14311 \renewcommand {\rotateframe}[2] {\if@ttb@rotate
14312 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
14313 \else
14314 #2\relax
14315 \fi}

```

95 File fnpct-xetex-bidi.def

```

14316 \ProvidesFile{fnpct-xetex-bidi.def}[2025/09/12 v0.2 bidi adaptations for fnpct package for XeTeX]
14317 \ExplSyntaxOn
14318 \ifclassloaded{beamer}
14319 {
14320     \AdaptNote \footnote{d<+m} [\beamer@mpfn]
14321     {
14322         \IfNoValueTF{#1}
14323         {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[#2]{#3}}}
14324         {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[#2]{#3}}}
14325     }
14326     \AdaptNote \RTLfootnote{d<+m} [\beamer@mpfn]
14327     {
14328         \IfNoValueTF{#1}
14329         {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[#2]{#3}}}
14330         {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[#2]{#3}}}
14331     }
14332     \AdaptNote \LTRfootnote{d<+m} [\beamer@mpfn]
14333     {
14334         \IfNoValueTF{#1}
14335         {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[#2]{#3}}}
14336         {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[#2]{#3}}}
14337     }
14338 }
14339 {
14340     \AdaptNote \RTLfootnote {+m} [\@mpfn]
14341     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[#1]{#2}} }
14342     \AdaptNote \LTRfootnote {+m} [\@mpfn]
14343     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[#1]{#2}} }
14344 }
14345 \ExplSyntaxOff

```

96 File footnote-xetex-bidi.def

```

14346 \ProvidesFile{footnote-xetex-bidi.def}[2025/09/30 v1.6 bidi footnote macros for XeTeX engine]
14347 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi

```



```

14348 \newif\ifbidi@autofootnoterule
14349 \def\bidi@mpfootnoterule{\footnoterule}
14350 \newcounter{footdir@label}
14351 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
14352 \newcommand*{\footdir@write}{%
14353   \stepcounter{footdir@label}%
14354   \zref@labelbyprops{\thefootdir@label}{abspage}%
14355 }
14356 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
14357 \newtoks\footdir@toks
14358 \newcommand*{\footdir@debug}[1]{%
14359   \ifffootdir@debug
14360     \typeout{[footdir] #1}%
14361   \fi
14362 }
14363 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
14364 %  \newcommand*{\footdir@LeftRightElse}{%
14365 %    \ltx@ifundefined{footdir@the\value{zabspage}}{%
14366 %      \footdir@debug{abspage \the\value{zabspage}: else}%
14367 %      \ltx@thirdofthree
14368 %    }{%
14369 %      \if\csname footdir@the\value{zabspage}\endcsname L%
14370 %        \footdir@debug{abspage \the\value{zabspage}: left}%
14371 %        \expandafter\ltx@firstofthree
14372 %      \else
14373 %        \footdir@debug{abspage \the\value{zabspage}: right}%
14374 %        \expandafter\ltx@secondofthree
14375 %      \fi
14376 %    }%
14377 %  }%
14378 %}%
14379 \providecommand*{\c@zabspage}{\c@abspage}%
14380 \newcommand*{\footdir@LeftRightElse}{%
14381   \footdir@write
14382   \zifrefundefined{\thefootdir@label}{%
14383     \footdir@debug{abspage ??: else}%
14384     \ltx@thirdofthree
14385   }{%
14386     \edef\footdir@abspage{%
14387       \zref@extractdefault{\thefootdir@label}{abspage}{0}%
14388     }%
14389     \ltx@ifundefined{footdir@\footdir@abspage}{%
14390       \footdir@debug{\footdir@abspage: else}%
14391       \ltx@thirdofthree
14392     }{%
14393       \if\csname footdir@\footdir@abspage\endcsname L%
14394         \footdir@debug{\footdir@abspage: left}%
14395         \expandafter\ltx@firstofthree
14396       \else
14397         \footdir@debug{\footdir@abspage: right}%
14398         \expandafter\ltx@secondofthree
14399       \fi
14400     }%
14401   }%

```



```

14402 }%
14403 %}
14404 \newcommand*{\footdir@fntext}[1]{%
14405   \zifrefundefined{\thefootdir@label}{%
14406     {%
14407       \edef\footdir@name{%
14408         footdir@zref@extractdefault{\thefootdir@label}{abspage}{0}%
14409       }%
14410       \@ifundefined{\footdir@name}{%
14411         \expandafter\gdef\csname\footdir@name\endcsname{#1}%
14412       }{}%
14413     }%
14414 }
14415
14416 \newcommand*{\footdir@temp}[3]{%
14417   \@ifdefinable{#1}{%
14418     \let#1#2%
14419     \renewcommand{#2}[1]{%
14420       \footdir@write
14421       \footdir@fntext{#3}%
14422       \stepcounter{footdir@label}%
14423       \footdir@fntext{#3}%
14424       \footdir@toks{##1}%
14425       \footdir@toks\expandafter{%
14426         \the\expandafter\footdir@toks
14427         \expandafter
14428         \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
14429       }%
14430       \expandafter#1\expandafter{\the\footdir@toks}%
14431     }%
14432   }%
14433 }
14434
14435 \def\right@footnoterule{%
14436   \kern-3\p@
14437   \nointerlineskip
14438   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
14439   \kern2.6\p@}
14440 \def\left@footnoterule{\kern-3\p@
14441   \hrule \@width .4\columnwidth \kern 2.6\p@}
14442 \def\textwidth@footnoterule{\kern-3\p@
14443   \hrule \@width \columnwidth \kern 2.6\p@}
14444 \def\leftfootnoterule{%
14445   \bidi@autofootnoterulefalse
14446   \def\footnoterule{\left@footnoterule}}
14447 \let\LRfootnoterule=\leftfootnoterule
14448 \def\rightfootnoterule{%
14449   \bidi@autofootnoterulefalse
14450   \def\footnoterule{\right@footnoterule}}
14451 \def\textwidthfootnoterule{%
14452   \bidi@autofootnoterulefalse
14453   \def\footnoterule{\textwidth@footnoterule}}
14454
14455

```



```

14456
14457 \def\auto@footnoterule{%
14458 \footdir@LeftRightElse%
14459 \left@footnoterule%
14460 \right@footnoterule%
14461 \left@footnoterule%
14462 }
14463
14464
14465
14466 \def\autofootnoterule{%
14467 \bidi@autofootnoteruletrue%
14468 \def\footnoterule{\auto@footnoterule}%
14469 }
14470
14471 \newcommand*{\SplitFootnoteRule}{%
14472   \gdef\split@prev{0}
14473   \let\pagefootnoterule\footnoterule
14474   \let\mpfootnoterule\footnoterule
14475   \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
14476   \def\footnoterule{\relax
14477     \ifx \@listdepth\@mplistdepth
14478       \mpfootnoterule
14479     \else
14480       \ifnum\split@prev=\z@
14481         \pagefootnoterule
14482       \else
14483         \splitfootnoterule
14484       \fi
14485       \xdef\split@prev{\the\insertpenalties}%
14486     \fi
14487   }%
14488 }
14489
14490
14491
14492
14493 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
14494   \protected@xdef\@thefnmark{\thempfn}}%
14495   \@footnotemark\@RTLfootnotetext}}
14496 \def\@xRTLfootnote[#1]{%
14497   \begingroup
14498     \csname c@\@mpfn\endcsname #1\relax
14499     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14500   \endgroup
14501   \@footnotemark\@RTLfootnotetext}
14502 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
14503   \protected@xdef\@thefnmark{\thempfn}}%
14504   \@footnotemark\@LTRfootnotetext}}
14505 \def\@xLTRfootnote[#1]{%
14506   \begingroup
14507     \csname c@\@mpfn\endcsname #1\relax
14508     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14509   \endgroup

```



```

14510 \@footnotemark\@LTRfootnotetext}
14511
14512
14513 \def\setfootnoteRL{\@RTLfootnotetrue}
14514 \def\unsetfootnoteRL{\@RTLfootnotefalse}
14515 \def\setfootnoteLR{\unsetfootnoteRL}
14516
14517 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
14518 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
14519 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
14520
14521 \long\def\@footnotetext#1{\insert\footins{%
14522   \if@RTLfootnote\@RTLtrue\else\@RTLfalse\fi%
14523   \reset@font%
14524   \bidi@footnotetext@font% \reset@font\footnotesize
14525   \interlinepenalty\interfootnotelinepenalty
14526   \splittopskip\footnotesep
14527   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
14528   \hsize\columnwidth \@parboxrestore
14529   \protected@edef\@currentlabel{%
14530     \csname p@footnote\endcsname\@thefnmark
14531   }%
14532   \color@begingroup
14533     \makefnintext{%
14534       \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14535     \color@endgroup}}%
14536
14537
14538 \long\def\@RTLfootnotetext#1{\insert\footins{%
14539   \@RTLtrue%
14540   \reset@font%
14541   \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14542   \interlinepenalty\interfootnotelinepenalty
14543   \splittopskip\footnotesep
14544   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
14545   \hsize\columnwidth \@parboxrestore
14546   \protected@edef\@currentlabel{%
14547     \csname p@footnote\endcsname\@thefnmark
14548   }%
14549   \color@begingroup
14550     \makefnintext{%
14551       \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14552     \color@endgroup}}%
14553
14554 \long\def\@LTRfootnotetext#1{\insert\footins{%
14555   \@RTLfalse%
14556   \reset@font%
14557   \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14558   \interlinepenalty\interfootnotelinepenalty
14559   \splittopskip\footnotesep
14560   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
14561   \hsize\columnwidth \@parboxrestore
14562   \protected@edef\@currentlabel{%
14563     \csname p@footnote\endcsname\@thefnmark

```




```

14564 }%
14565 \color@begingroup
14566 \makefnintext{%
14567 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14568 \color@endgroup}}%
14569
14570 \AtBeginDocument{%
14571 \if@RTL@footnote
14572 \newcommand*{\bidi@footdir@footnote}{R}
14573 \else
14574 \newcommand*{\bidi@footdir@footnote}{L}
14575 \fi%
14576 }
14577
14578 \footdir@temp\footdir@ORG\bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
14579 \footdir@temp\footdir@ORG\bidi@RTLfootnotetext\@RTLfootnotetext{R}%
14580 \footdir@temp\footdir@ORG\bidi@LTRfootnotetext\@LTRfootnotetext{L}%
14581
14582 \long\def\@mpRTLfootnotetext#1{%
14583 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@foot
14584 \global\setbox\@mpfootins\vbox{%
14585 \unvbox\@mpfootins
14586 \@RTLtrue
14587 \reset@font%
14588 \bidi@@RTLfootnotetext@font% \reset@font\footnotesize
14589 \hsize\columnwidth
14590 \@parboxrestore
14591 \protected@edef\@currentlabel
14592 {\csname p@mpfootnote\endcsname\@thefnmark}%
14593 \color@begingroup
14594 \makefnintext{%
14595 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14596 \color@endgroup}}
14597 \long\def\@mpLTRfootnotetext#1{%
14598 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footno
14599 \global\setbox\@mpfootins\vbox{%
14600 \unvbox\@mpfootins
14601 \@RTLfalse
14602 \reset@font%
14603 \bidi@@LTRfootnotetext@font% \reset@font\footnotesize
14604 \hsize\columnwidth
14605 \@parboxrestore
14606 \protected@edef\@currentlabel
14607 {\csname p@mpfootnote\endcsname\@thefnmark}%
14608 \color@begingroup
14609 \makefnintext{%
14610 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14611 \color@endgroup}}
14612 \long\def\@mpfootnotetext#1{%
14613 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnote
14614 \global\setbox\@mpfootins\vbox{%
14615 \unvbox\@mpfootins
14616 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14617 \reset@font%

```



```

14618 \bidi@footnotetext@font% \reset@font\footnotesize
14619 \hsize\columnwidth
14620 \@parboxrestore
14621 \protected@edef\@currentlabel
14622     {\csname p@mpfootnote\endcsname\@thefnmark}%
14623 \color@begingroup
14624     \@makefnintext{%
14625         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14626 \color@endgroup}}
14627 \def\@iiiminipage#1#2[#3]#4{%
14628     \leavevmode
14629     \@pboxswfalse
14630     \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
14631     \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
14632     \setlength\@tempdima{#4}%
14633     \def\@mpargs{{#1}{#2}[#3]{#4}}%
14634     \setbox\@tempboxa\vbox\bgroup
14635         \color@begingroup
14636         \hsize\@tempdima
14637         \textwidth\hsize \columnwidth\hsize
14638         \@parboxrestore
14639         \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
14640         \let\@footnotetext\@mpfootnotetext
14641         \let\@LTRfootnotetext\@mpLTRfootnotetext
14642         \let\@RTLfootnotetext\@mpRTLfootnotetext
14643         \let\@listdepth\@mplistdepth \@mplistdepth\z@
14644         \@minipagerestore
14645         \setminipage}
14646 \def\endminipage{%
14647     \par
14648     \unskip
14649     \ifvoid\@mpfootins\else
14650         \vskip\skip\@mpfootins
14651         \normalcolor
14652         \bidi@mpfootnoterule
14653         \unvbox\@mpfootins
14654     \fi
14655     \@minipagefalse %% added 24 May 89
14656 \color@endgroup
14657 \egroup
14658 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
14659 \def\LTRthanks#1{\footnotemark
14660     \protected@xdef\@thanks{\@thanks
14661         \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
14662 }
14663 \def\LTRfootnotetext{%
14664     \@ifnextchar [\@xLTRfootnotenext
14665         {\protected@xdef\@thefnmark{\thempfn}%
14666         \@LTRfootnotetext}}
14667 \def\@xLTRfootnotenext[#1]{%
14668     \begingroup
14669         \csname c@\@mpfn\endcsname #1\relax
14670         \unrestored@protected@xdef\@thefnmark{\thempfn}%
14671     \endgroup

```



```

14672 \@LTRfootnotetext}
14673 \def\RTLthanks#1{\footnotemark
14674     \protected@xdef\@thanks{\@thanks
14675         \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
14676 }
14677 \let\@thanks\@empty
14678 \def\RTLfootnotetext{%
14679     \@ifnextchar [\@xRTLfootnotenext
14680         {\protected@xdef\@thefnmark{\thempfn}%
14681         \RTLfootnotetext}}
14682 \def\@xRTLfootnotenext[#1]{%
14683     \begingroup
14684         \csname c@\mpfn\endcsname #1\relax
14685         \unrestored@protected@xdef\@thefnmark{\thempfn}%
14686     \endgroup
14687     \@RTLfootnotetext}
14688 \leftfootnoterule

```

97 File footnotebackref-xetex-bidi.def

```

14689 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnoteb
14690 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
14691 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
14692
14693 \renewcommand*\LTRfootnote{%
14694     \refstepcounter{BackrefHyperFootnoteCounter}%
14695     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14696     \label{\BackrefFootnoteTag}%
14697     \@ifnextchar [\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
14698
14699 \renewcommand*\RTLfootnote{%
14700     \refstepcounter{BackrefHyperFootnoteCounter}%
14701     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14702     \label{\BackrefFootnoteTag}%
14703     \@ifnextchar [\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
14704 \newcommand\Backref@HyperLTRFootnote[1]{%
14705     \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
14706
14707 \newcommand\Backref@HyperRTLFootnote[1]{%
14708     \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
14709
14710 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
14711     \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
14712
14713 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
14714     \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
14715
14716 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
14717     \ifFootnoteBackref@numberlinked
14718     \renewcommand{\footfootmark}{%
14719         \ifdim\footmarkwidth < \z@
14720             \llap{\hb@xt@ -\footmarkwidth{%
14721                 \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14722                 \hspace*{-\footmarkwidth}}}%

```



```

14723 \else
14724   \ifdim\footmarkwidth = \z@
14725     {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14726   \else
14727     \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14728   \fi
14729 \fi}
14730 \renewcommand{\LTRfootfootmark}{%
14731   \ifdim\footmarkwidth < \z@
14732     \llap{\hb@xt@-\footmarkwidth{%
14733       \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14734     \hspace*{-\footmarkwidth}}%
14735   \else
14736     \ifdim\footmarkwidth = \z@
14737       {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14738     \else
14739       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14740     \fi
14741   \fi}
14742 \renewcommand{\RTLfootfootmark}{%
14743   \ifdim\footmarkwidth < \z@
14744     \llap{\hb@xt@-\footmarkwidth{%
14745       \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14746     \hspace*{-\footmarkwidth}}%
14747   \else
14748     \ifdim\footmarkwidth = \z@
14749       {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14750     \else
14751       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14752     \fi
14753   \fi}
14754 \fi
14755 }

```

98 File framed-xetex-bidi.def

```

14756 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for xetex]
14757 \renewcommand\TitleBarFrame[3] [] {\begingroup
14758   \ifx\delimiter#1\delimiter
14759     \let\TF@conlab\empty
14760   \else
14761     \def\TF@conlab{% continuation label
14762       \nointerlineskip
14763       \smash{\rlap{\kern\wd\@tempboxa\kern\fbboxrule\kern\fbboxsep #1}}}%
14764   \fi
14765   %\let\TF@savecolor\current@color
14766   \textcolor{TFFrameColor}{%
14767     \CustomFBox
14768     {\TF@Title{#2}}{\TF@conlab}%
14769     \fbboxrule\fbboxrule\fbboxrule\fbboxrule
14770     %{\let\current@color\TF@savecolor\set@color #3}%
14771     {\normalcolor #3}%
14772   }\endgroup
14773 }

```



```

14774 \renewenvironment{titled-frame}[1]{%
14775   \def\FrameCommand{\fboxsep8pt\fboxrule2pt
14776     \TitleBarFrame{\textbf{#1}}}%
14777   \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
14778     \TitleBarFrame[ $\if@RTL\blacktriangleleft\else\blacktriangleright\fi$ ]{\textbf{#1}}}%
14779   \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
14780     \TitleBarFrame[ $\if@RTL\blacktriangleleft\else\blacktriangleright\fi$ ]{\textbf{#1\ (con
14781   \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
14782     \TitleBarFrame{\textbf{#1\ (cont)}}}%
14783   \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
14784 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
14785 % could interfere with the width measurement.
14786 {\endMakeFramed}
14787 \chardef\FrameRestore=\catcode\| % for debug
14788 \catcode\|=\catcode\% % (debug: insert space after backslash)
14789 \def\fb@put@frame#1#2{\relax
14790   \ifdim\pagegoal=\maxdimen \pagegoal\vspace \fi
14791   \message{===== Entering putframe =====^J
14792   \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal.}%
14793   \ifinner
14794     \fb@putboxa#1%
14795     \fb@afterframe
14796   \else
14797     \dimen@ \pagegoal \advance\dimen@-\pagetotal % natural space left on page
14798     \ifdim\dimen@<2\baselineskip % Too little room on page
14799       \message{Page has only \the\dimen@ space room left; eject.}%
14800       \eject \fb@adjheight \fb@put@frame#1#2%
14801     \else % there's appreciable room left on the page
14802       \fb@sizeofframe#1%
14803       \message{\string\pagetotal=\the\pagetotal,
14804         \string\pagegoal=\the\pagegoal,
14805         \string\pagestretch=\the\pagestretch,
14806         \string\pageshrink=\the\pageshrink,
14807         \string\fb@frh=\the\fb@frh. \space}
14808       \message{^^JBox of size \the\ht@tempboxa\space}%
14809       \begingroup % temporarily set \dimen@ to be...
14810       \advance\dimen@.8\pageshrink % maximum space available on page
14811       \advance\dimen@-\fb@frh\relax % max space available for frame's contents
14812 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
14813       \expandafter\endgroup
14814       % expand \ifdim, then restore \dimen@ to real room left on page
14815       \ifdim\dimen@>\ht@tempboxa % whole box does fit
14816         \message{fits in \the\dimen@.}%
14817         % ToDo: Change this to use vsplit anyway to capture the marks
14818         % MERGE THIS WITH THE else CLAUSE!!!
14819         \fb@putboxa#1%
14820         \fb@afterframe
14821       \else % box must be split
14822         \message{must be split to fit in \the\dimen@.}%
14823         % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
14824         \fb@sizeofframe#2%
14825         \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
14826           \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
14827           \kern137sp\kern-137sp\penalty-30

```



```

14828         \unvbox\@tempboxa}%
14829     \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
14830         \splittopskip\the\splittopskip}%
14831     \boxmaxdepth\z@ \splittopskip\z@
14832 | \message{^^JPadded box of size \the\ht\@tempboxa\space split to \the\dimen@}%
14833     % Split box here
14834     \setbox\tw@\vsplit\@tempboxa to\dimen@
14835 | \toks99\expandafter{\splitfirstmark}%
14836 | \toks98\expandafter{\splitbotmark}%
14837 | \message{Marks are: \the\toks99, \the\toks98. }%
14838     \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
14839 | \message{Natural height of split box is \the\ht\tw@, leaving
14840 |     \the\ht\@tempboxa\space remainder. }%
14841     % If the split-to size > (\vsize-\topskip), then set box to full size.
14842     \begingroup
14843     \advance\dimen@\topskip
14844     \expandafter\endgroup
14845     \ifdim\dimen@>\pagegoal
14846 |         \message{Frame is big -- Use up the full column. }%
14847         \dimen@ii\pagegoal
14848         \advance\dimen@ii -\topskip
14849         \advance\dimen@ii \FrameHeightAdjust\relax
14850     \else % suspect this is implemented incorrectly:
14851         % If the split-to size > feasible room_on_page, rebox it smaller.
14852         \advance\dimen@.8\pageshrink
14853         \ifdim\ht\tw@>\dimen@
14854 |             \message{Box too tall; rebox it to \the\dimen@. }%
14855             \dimen@ii\dimen@
14856         \else % use natural size
14857             \dimen@ii\ht\tw@
14858         \fi
14859     \fi
14860     % Re-box contents to desired size \dimen@ii
14861     \advance\dimen@ii -\fb@frh
14862     \setbox\tw@\vbox to\dimen@ii \bgroup
14863     % remove simulated frame and page flexibility:
14864     \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
14865     \unvbox\tw@ \unpenalty\unpenalty
14866     \ifdim\lastkern=-137sp % whole box went to next page
14867 |         \message{box split at beginning! }%
14868         % need work here???
14869         \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
14870         \fb@adjheight
14871         \fb@put@frame#1#2% INSERTED ???
14872     \else % Got material split off at the head
14873         \egroup \fb@resto@set
14874         \ifvoid\@tempboxa % it all fit after all
14875 |             \message{box split at end! }%
14876             \setbox\@tempboxa\box\tw@
14877             \fb@putboxa#1%
14878             \fb@afterframe
14879         \else % it really did split
14880 |             \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
14881             \ifdim\wd\tw@>\z@

```



```

14882         \wd\tw@\wd\@tempboxa
14883         \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
14884     \else
14885 |         \message{Zero width means likely blank. Don't frame it (guess)}%
14886         \box\tw@
14887     \fi
14888     \hrule \@height\z@ \@width\hsize
14889     \eject
14890     \fb@adjheight
14891     \fb@put@frame\LastFrameCommand\MidFrameCommand
14892 \fi\fi\fi\fi\fi
14893 }
14894 \def\fb@putboxa#1{%
14895     \ifvoid\@tempboxa
14896         \PackageWarning{framed}{Boxa is void -- discard it.}%
14897     \else
14898 |         \message{Frame and place boxa.}%
14899 |         %{\showoutput\showbox\@tempboxa}%
14900         \centerline{#1{\hboxL{\box\@tempboxa}}}%
14901     \fi
14902 }
14903 \catcode`\|=\FrameRestore
14904 \def\FrameRestore{%
14905     \let\if@nobreak\iffalse
14906     \let\if@noskipsec\iffalse
14907     \let\-\@dischph
14908     \let'\@acci\let\-\@accii\let\=\@acciii
14909     % \message{FrameRestore:
14910     %     \@totalleftmargin=\the \@totalleftmargin,
14911     %     \rightmargin=\the\rightmargin,
14912     %     \@listdepth=\the\@listdepth.}%
14913     % Test if we are in a list (or list-like paragraph)
14914     \ifnum \ifdim \@totalleftmargin>\z@ 1\fi
14915         \ifdim \rightmargin>\z@ 1\fi
14916         \ifnum \@listdepth>\z@ 1\fi 0>\z@
14917     %     \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftm
14918     %     \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
14919     %     \labelwidth=\the\labelwidth.}%
14920     \@setminipage % snug fit around the item
14921     % Now try to propageate changes of width from \hsize to list parameters.
14922     % This is deficient, but a more advanced way to indicate modification to text
14923     % dimensions is not (yet) provided; in particular, no separate left/right
14924     % adjustment.
14925     \advance\linewidth-\columnwidth \advance\linewidth\hsize
14926     \parshape\@ne \@totalleftmargin \linewidth
14927 \else % Not in list
14928     \linewidth=\hsize
14929     %\message{No list, set \string\linewidth=\the\hsize.}%
14930 \fi
14931 \sloppy
14932 }

```

99 File ftnright-xetex-bidi.def



```

14933 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
14934
14935 \def\prepare@bidi@copyins{%
14936   \global\bidircol@copyinsskip\skip\@bidi@copyins@
14937   \global\skip\@bidi@copyins@\z@
14938   \global\count\@bidi@copyins@\z@
14939   \global\dimen\@bidi@copyins@\textheight}
14940
14941 \newskip\bidircol@copyinsskip
14942
14943 \def\LTR@outputdblcol{%
14944   \if@firstcolumn
14945     \global\@firstcolumnfalse
14946     \global\setbox\@leftcolumn\copy\@outputbox
14947     \global\count\footins\@m
14948     \global\skip\footins\rcol@footinsskip
14949     \global\count\@bidi@copyins@\@m
14950     \global\skip\@bidi@copyins@\bidircol@copyinsskip
14951     \splitmaxdepth\maxdimen
14952     \vbadness\maxdimen
14953     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14954     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14955     \toks@{\expandafter{\topmark}}%
14956     \xdef\@firstcoltopmark{\the\toks@}%
14957     \toks@{\expandafter{\splitfirstmark}}%
14958     \xdef\@firstcolfirstmark{\the\toks@}%
14959     \ifx\@firstcolfirstmark\@empty
14960       \global\let\@setmarks\relax
14961     \else
14962       \gdef\@setmarks{%
14963         \let\firstmark\@firstcolfirstmark
14964         \let\topmark\@firstcoltopmark}%
14965     \fi
14966   \else
14967     \preparefootins
14968     \prepare@bidi@copyins
14969     \global\@firstcolumntrue
14970     \setbox\@outputbox\vbox{%
14971       \hb@xt@\textwidth{%
14972         \hb@xt@\columnwidth{%
14973           \bidi@firstcolumn@status@write%
14974           \box\@leftcolumn \hss}%
14975         \hfil
14976         {\normalcolor\vrule \@width\columnseprule}%
14977         \hfil
14978         \hb@xt@\columnwidth{%
14979           \bidi@lastcolumn@status@write%
14980           \box\@outputbox \hss}}}%
14981     \@combinedblfloats
14982     \@setmarks
14983     \@outputpage
14984     \begingroup
14985     \@dblfloatplacement
14986     \@startdblcolumn

```




```

14987     \@whilesw\if@fcolmade \fi{\@outputpage
14988     \@startdblcolumn}%
14989     \endgroup
14990 \fi}%
14991
14992 \def\RTL@outputdblcol{%
14993   \if@firstcolumn
14994     \global\@firstcolumnfalse
14995     \global\setbox\@leftcolumn\copy\@outputbox
14996     \global\count\footins\@m
14997     \global\skip\footins\rcol@footinsskip
14998     \global\count\@bidi@copyins@\@m
14999     \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip
15000     \splitmaxdepth\maxdimen
15001     \vbadness\maxdimen
15002     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
15003     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15004     \toks@\expandafter{\topmark}%
15005     \xdef\@firstcoltopmark{\the\toks@}%
15006     \toks@\expandafter{\splitfirstmark}%
15007     \xdef\@firstcolfirstmark{\the\toks@}%
15008     \ifx\@firstcolfirstmark\@empty
15009       \global\let\@setmarks\relax
15010     \else
15011       \gdef\@setmarks{%
15012         \let\firstmark\@firstcolfirstmark
15013         \let\topmark\@firstcoltopmark}%
15014     \fi
15015   \else
15016     \preparefootins
15017     \prepare@bidi@copyins
15018     \global\@firstcolumntrue
15019     \setbox\@outputbox\vbox{%
15020       \hb@xt@\textwidth{%
15021         \hskip \columnwidth
15022         \hfil
15023         {\normalcolor\vrule \@width\columnseprule}%
15024         \hfil
15025         \hb@xt@\columnwidth{%
15026           \bidi@firstcolumn@status@write%
15027           \box\@leftcolumn \hss}%
15028         \hskip -\textwidth
15029         \hb@xt@\columnwidth{%
15030           \bidi@lastcolumn@status@write%
15031           \box\@outputbox \hss}%
15032         \hskip \columnsep
15033         \hskip \columnwidth }}%
15034     \@combinedblfloats
15035     \@setmarks
15036     \@outputpage
15037     \begingroup
15038     \@dblfloatplacement
15039     \@startdblcolumn
15040     \@whilesw\if@fcolmade \fi{\@outputpage

```



```

15041 \startdblcolumn}%
15042 \endgroup
15043 \fi}%
15044
15045 \def\startcolumn{%
15046 \ifx\@deferlist\@empty
15047 \global\@fcolmadefalse
15048 \global\@colroom\@colht
15049 \else
15050 \ifvoid\footins\else
15051 \ftn@amount\ht\footins
15052 \advance\ftn@amount\dp\footins
15053 \advance\ftn@amount\skip\footins
15054 \fi
15055 \ifvoid\@bidi@copyins\else
15056 \bidi@copyins@amount\ht\@bidi@copyins@
15057 \advance\bidi@copyins@amount\dp\@bidi@copyins@
15058 \advance\bidi@copyins@amount\skip\@bidi@copyins@
15059 \fi
15060 \global\advance\@colht-\ftn@amount
15061 \global\advance\@colht-\bidi@copyins@amount
15062 \global\@colroom\@colht
15063 \xstartcol
15064 \global\advance\@colht\ftn@amount
15065 \global\advance\@colroom\ftn@amount
15066 \global\advance\@colht\bidi@copyins@amount
15067 \global\advance\@colroom\bidi@copyins@amount
15068 \fi
15069 \if@fcolmade
15070 \setbox\@cclv\box\@outputbox
15071 \@makecol
15072 \else
15073 \ifvoid\footins\else
15074 \insert\footins{\unvbox\footins}\fi
15075 \ifvoid\@bidi@copyins\else
15076 \insert\@bidi@copyins{\unvbox\@bidi@copyins}\fi
15077 \fi}
15078
15079 \newdimen\bidi@copyins@amount
15080
15081 \def\@makecol{\if@firstcolumn
15082 \setbox\@outputbox\box\@cclv
15083 \if@twocolumn \else
15084 \ifvoid\footins \else
15085 \latexerr{ftnright package
15086 used in one-column mode}}%
15087 {The ftnright package was designed to
15088 work with LaTeX's standard^^Jtwocolumn
15089 option. It does *not* work with the
15090 multicol package.^^JSo please specify
15091 `twocolumn' in the
15092 \noexpand\documentclass command.}%
15093 \shipout\box\footins \fi
15094 \ifvoid\@bidi@copyins\else

```



```

15095     \@latexerr{ftnright package
15096         used in one-column mode}%
15097 {The ftnright package was designed to
15098 work with LaTeX's standard^^Jtwocolumn
15099 option. It does *not* work with the
15100 multicol package.^^JSo please specify
15101 `twocolumn' in the
15102 \noexpand\documentclass command.}%
15103 \shipout\box\@bidi@copyins@ \fi\fi
15104 \ifnum\insertpenalties>\z@
15105     \@latexerr{ftnright package
15106         scrambled footnotes}%
15107 {There is too much footnote material in
15108 the first column and ftnright^^Jis
15109 unable to cope with this.^^JYou need
15110 to reduce the amount to get a properly
15111 formatted page.}%
15112 \fi
15113 \else
15114 \ifvoid\footins
15115     \ifvoid\@bidi@copyins@
15116         \setbox\@outputbox\box\@cclv
15117     \else
15118         \setbox\@outputbox\vbox
15119         {\ifvoid\@cclv \else
15120          \unvbox\@cclv
15121          \vskip \skip\@bidi@copyins@
15122          \fi
15123          \color@begingroup
15124          \normalcolor
15125          \unvbox \@bidi@copyins@
15126          \color@endgroup}%
15127     \fi
15128 \else
15129     \setbox\@outputbox\vbox
15130     {\ifvoid\@cclv \else
15131      \unvbox\@cclv
15132      \vskip\skip\footins\fi
15133      \color@begingroup
15134      \normalcolor
15135      \footnoterule\unvbox\footins
15136      \color@endgroup
15137      \ifvoid\@bidi@copyins@
15138      \else
15139          \vskip \skip\@bidi@copyins@
15140          \color@begingroup
15141          \normalcolor
15142          \unvbox \@bidi@copyins@
15143          \color@endgroup
15144      \fi
15145      }%
15146 \fi
15147 \fi
15148 \xdef\@freelist{\@freelist\@midlist}%

```



```

15149 \global \let \@midlist \@empty
15150 \@combinefloats
15151 \ifvbox\@kludgeins
15152   \@makespecialcolbox
15153 \else
15154   \setbox\@outputbox\vbox to\@colht
15155     {\boxmaxdepth\maxdepth
15156       \@texttop
15157       \@tempdima\dp\@outputbox
15158       \unvbox\@outputbox
15159       \vskip-\@tempdima
15160       \@textbottom}%
15161 \fi
15162 \global\maxdepth\@maxdepth}
15163
15164 \let\leftfootnoterule\@empty
15165 \let\rightfootnoterule\@empty
15166 \let\textwidthfootnoterule\@empty
15167 \let\autofootnoterule\@empty
15168 \let\footnoterule\@empty
15169 \long\def\@makefnmark#1{\parindent 1em
15170   \noindent\hbox to 2em{}}%
15171   \llap{\@thefnmark\hbox{.}\,\,\,}#1}
15172
15173 \setlength{\skip\@bidi@copyins@}
15174           {10pt plus 5pt minus 3pt}
15175 \AtBeginDocument{\prepare@bidi@copyins}

```

100 File graphicx-xetex-bidi.def

```

15176 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
15177 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
15178   \Grot@setangle{#1}%
15179   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL\endR\fi}%
15180   \Grot@x\z@
15181   \Grot@y\z@
15182   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
15183 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15184   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
15185   \Grot@x\width \divide\Grot@x\tw@
15186   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
15187   \setkeys{Grot}{#1}%
15188   \setbox\z@\box\@tempboxa
15189   \Grot@setangle{#2}%
15190   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
15191   \@end@tempboxa}
15192 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15193   \leavevmode
15194   \def\Gscale@x{#1}\def\Gscale@y{#2}%
15195   \setbox\z@\hbox{#3}%
15196   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15197   \ifdim#2\p@<\z@
15198     \ht\tw@-#2\dp\z@
15199     \dp\tw@-#2\ht\z@

```



```

15200 \else
15201   \ht\tw@#2\ht\z@
15202   \dp\tw@#2\dp\z@
15203 \fi
15204 \ifdim#1\p@<\z@
15205   \hb@xt@-#1\wd\z@{\kern-#1\wd\z@ \box\tw@\hss}%
15206 \else
15207   \wd\tw@#1\wd\z@
15208   \box\tw@
15209 \fi\ifmmode\else\if@RTL\endL\fi\fi}
15210 \def\Gin@iii[#1,#2][#3,#4]#5{%
15211   \begingroup
15212   \ifmmode\else\if@RTL\beginL\fi\fi
15213   \Gin@bboxtrue
15214   \Gin@defaultbp\Gin@llx{#1}%
15215   \Gin@defaultbp\Gin@lly{#2}%
15216   \Gin@defaultbp\Gin@urx{#3}%
15217   \Gin@defaultbp\Gin@ury{#4}%
15218   \Gin@include@graphics{#5}%
15219   \ifmmode\else\if@RTL\endL\fi\fi
15220   \endgroup}
15221 \def\Gin@ii[#1]#2{%
15222   \def\@tempa{[]}\def\@tempb{#2}%
15223   \ifx\@tempa\@tempb
15224     \def\@tempa{\Gin@iii[#1] []}%
15225     \expandafter\@tempa
15226   \else
15227     \begingroup
15228     \ifmmode\else\if@RTL\beginL\fi\fi
15229     \@tempswafalse
15230     \toks@{\Gin@include@graphics{#2}}%
15231     \setkeys{Gin}{#1}%
15232     \Gin@esetsize
15233     \the\toks@
15234     \ifmmode\else\if@RTL\endL\fi\fi
15235     \endgroup
15236     \fi}
15237 \def\reflectbox{\bidiGscale@box-1[1]}
15238 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15239 \leavevmode
15240 \def\Gscale@x{#1}\def\Gscale@y{#2}%
15241 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
15242 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15243 \ifdim#2\p@<\z@
15244   \ht\tw@-#2\dp\z@
15245   \dp\tw@-#2\ht\z@
15246 \else
15247   \ht\tw@#2\ht\z@
15248   \dp\tw@#2\dp\z@
15249 \fi
15250 \ifdim#1\p@<\z@
15251   \hb@xt@-#1\wd\z@{\kern-#1\wd\z@ \box\tw@\hss}%
15252 \else
15253   \wd\tw@#1\wd\z@

```



```

15254 \box\tw@
15255 \fi\ifmmode\else\if@RTL\endL\fi\fi}
15256 \def\scalebox#1{%
15257 \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}}
15258 \def\resizebox{%
15259 \leavevmode
15260 \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
15261 \def\bidiGscale@@box#1#2#3{%
15262 \let\@tempa\Gin@exclamation
15263 \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
15264 \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
15265 \ifx\@tempb\@tempa
15266 \ifx\@tempc\@tempa
15267 \toks@{\mbox}%
15268 \else
15269 \toks@{\bidiGscale@box@dd{#3}#1}%
15270 \fi
15271 \else
15272 \ifx\@tempc\@tempa
15273 \toks@{\bidiGscale@box@dd{#2}\width}%
15274 \else
15275 \toks@{\bidiGscale@box@ddd{#2}\width{#3}#1}%
15276 \fi
15277 \fi
15278 \the\toks@}
15279 \long\def\bidiGscale@box@dd#1#2#3{%
15280 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
15281 \setlength\@tempdima{#1}%
15282 \setlength\@tempdimb{#2}%
15283 \Gscale@div\@tempa\@tempdima\@tempdimb
15284 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
15285 \@end@tempboxa}
15286 \long\def\bidiGscale@box@ddd#1#2#3#4#5{%
15287 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if@RTL\endR\fi}%
15288 \setlength\@tempdima{#1}%
15289 \setlength\@tempdimb{#2}%
15290 \Gscale@div\@tempa\@tempdima\@tempdimb
15291 \setlength\@tempdima{#3}%
15292 \setlength\@tempdimb{#4}%
15293 \Gscale@div\@tempb\@tempdima\@tempdimb
15294 \ifGin@iso
15295 \ifdim\@tempa\p@>\@tempb\p@
15296 \let\@tempa\@tempb
15297 \else
15298 \let\@tempb\@tempa
15299 \fi
15300 \fi
15301 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
15302 \@end@tempboxa}

```

101 File geometry-xetex-bidi.def

```

15303 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
15304 \renewcommand*{\Gm@vrules@mpi}{%

```



```

15305 \if@RTLmain%
15306     \hb@xt@{\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15307     \llap{\Gm@vrule}\ignorespaces
15308     \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15309     \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
15310 \else%
15311 \hb@xt@{\@tempdima{\llap{\Gm@vrule}\ignorespaces
15312 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15313 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
15314 \renewcommand*{\Gm@vrules@mpii}{%
15315 \if@RTLmain%
15316 \hb@xt@{\@tempdima{\llap{\Gm@vrule}\ignorespaces
15317 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15318 \llap{\Gm@vrule}\hfil\Gm@vrule}%
15319 \else%
15320 \hb@xt@{\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15321 \llap{\Gm@vrule}\ignorespaces
15322 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15323 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
15324 \bidi@patchcmd{\Gm@pageframes}{%
15325 \ifodd\count\z@
15326 \let\@themargin\oddsidemargin
15327 \else
15328 \let\@themargin\evensidemargin
15329 \fi
15330 }{%
15331 \ifodd\count\z@
15332 \if@RTLmain
15333 \let\@themargin\evensidemargin
15334 \else
15335 \let\@themargin\oddsidemargin
15336 \fi
15337 \else
15338 \if@RTLmain
15339 \let\@themargin\oddsidemargin
15340 \else
15341 \let\@themargin\evensidemargin
15342 \fi
15343 \fi
15344 }{}{}

```

102 File hggeneric-testphase-xetex-bidi.def

```

15345 \ProvidesFile{hggeneric-testphase-xetex-bidi.def}[2025/09/26 v0.3 bidi adaptations for generi
15346 \ExplSyntaxOn
15347 \bidi@undef\hyper@linkstart
15348 \bidi@undef\hyper@linkend
15349 \cs_new_protected:Npn \hyper@linkstart #1 #2 % #1 context, #2=destination name
15350 {
15351 \bool_if:NT \l__hyp_annot_GoTo_bool
15352 {
15353 \int_gincr:N\g__hyp_linknestlevel_int
15354 \__hyp_check_link_nesting:TF
15355 {

```



```

15356         \Hy@VerboseLinkStart{#1}{#2}% only for debug
15357     \group_begin:
15358     \tl_set:Nn \l_hyp_current_dest_name_tl {#2}
15359     \socket_use:nnn{hyp/link/GoTo/Contents}{#2}{#3}
15360     \hook_use:n {hyp/link/#1}
15361     \ifmmode\else\beginL\fi
15362     \__hyp_link_goto_begin:nw {#2}
15363 }
15364 {
15365     \group_begin:
15366 }
15367 }
15368 }
15369
15370 \cs_new_protected:Npn \hyper@linkend
15371 {
15372     \bool_if:NT \l__hyp_annot_GoTo_bool
15373     {
15374         \__hyp_check_link_nesting:TF
15375         {
15376             \__hyp_link_goto_end:
15377             \ifmmode\else\endL\fi
15378             \group_end:
15379             \Hy@VerboseLinkStop
15380         }
15381         {
15382             \group_end:
15383         }
15384         \int_gdecr:N\g__hyp_linknestlevel_int
15385     }
15386 }
15387 \AtBeginDocument{%
15388 \bidi@undef\hyper@link
15389 \bidi@undef\hyper@linkfile
15390 \bidi@undef\hyper@linkurl
15391 \bidi@undef\hyper@linknamed
15392 \cs_new_protected:Npn \hyper@link #1 #2 #3 % #1 context, #2=destination name, #3 content
15393 {
15394     \bool_if:NTF \l__hyp_annot_GoTo_bool
15395     {
15396         \int_gincr:N\g__hyp_linknestlevel_int
15397         \__hyp_check_link_nesting:TF
15398         {
15399             \Hy@VerboseLinkStart{#1}{#2}
15400             \group_begin:
15401             \tl_set:Nn \l_hyp_current_dest_name_tl {#2}
15402             \socket_use:nnn{hyp/link/GoTo/Contents}{#2}{#3}
15403             \hook_use:n {hyp/link/#1}
15404             \ifmmode\else\beginL\fi
15405             \__hyp_link_goto_begin:nw {#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\i
15406             \__hyp_link_goto_end:
15407             \ifmmode\else\endL\fi
15408             \group_end:
15409             \Hy@VerboseLinkStop

```




```

15410     }
15411     {
15412         \group_begin: #3\group_end:
15413     }
15414     \int_gdecr:N\g__hyp_linknestlevel_int
15415 }
15416 {{\let\protect\relax#3}}
15417 }
15418 \cs_new_protected:Npn \hyper@linkfile #1 #2 #3 % link text, filename, destname
15419 {
15420     \bool_if:NTF \l__hyp_annot_GoToR_bool
15421     {
15422         \int_gincr:N\g__hyp_linknestlevel_int
15423         \__hyp_check_link_nesting:TF
15424         {
15425             \group_begin:
15426             \tl_set:Nx \l__hyp_filename_tmpa_tl { \text_expand:n { #2 } }
15427             \exp_args:Nx
15428             \pdf_object_if_exist:nF { __hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl }
15429             {
15430                 \pdfdict_put:nne { l_pdffile/Filespec } { Subtype } { \pdf_name_from_unicode_e:n
15431                 \pdffile_embed_file:noe
15432                 {}
15433                 { \l__hyp_filename_tmpa_tl }
15434                 { __hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl }
15435             }
15436             \pdfdict_put:nne
15437             { l_hyp/annot/A/GoToR }
15438             { F }
15439             { \pdf_object_ref:e { __hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl } }
15440             \__hyp_text_pdfstring:nnN
15441             { #3 }
15442             { \l__hyp_text_enc_dest_print_tl }
15443             \l__hyp_dest_name_tmpa_tl
15444             \socket_use:nn{hyp/link/GoToR/Contents}{#2}
15445             \tl_if_blank:eTF {#3}
15446             {
15447                 \pdfdict_put:nne { l_hyp/annot/A/GoToR } { D }
15448                 {
15449                     [
15450                     \int_eval:n
15451                     { \int_max:nn {0}{ 0\l__hyp_href_pdf_page_tl - 1 } }
15452                     /\l__hyp_dest_pdfremotestartview_tl
15453                     ]
15454                 }
15455             }
15456             {
15457                 \pdfdict_put:nno { l_hyp/annot/A/GoToR } { D } { \l__hyp_dest_name_tmpa_tl }
15458             }
15459             \mode_leave_vertical:
15460             \pdf_object_unnamed_write:ne{dict}{\pdfdict_use:n { l_hyp/annot/A/GoToR } }
15461             \pdfannot_dict_put:nne { link/GoToR } { A } { \pdf_object_ref_last: }
15462             \ifmmode\else\beginL\fi
15463             \pdfannot_link:nnn %expansion??

```



```

15464         { GoToR }
15465         {
15466         }
15467         {
15468             \let\protect\relax
15469             \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace
15470             \Hy@VerboseLinkStop %where is the start??
15471         }
15472         \ifmmode\else\endL\fi
15473         \group_end:
15474     }
15475     {
15476         \group_begin: #1 \group_end:
15477     }
15478     \int_gdecr:N\g__hyp_linknestlevel_int
15479 }
15480 {{\let\protect\relax#1}}
15481 }
15482 \cs_new_protected:Npn \hyper@linkurl #1 #2 %#1:link text #2: URI,
15483 {
15484     \bool_if:NTF \l__hyp_annot_URI_bool
15485     {
15486         \int_gincr:N\g__hyp_linknestlevel_int
15487         \__hyp_check_link_nesting:TF
15488         {
15489             \group_begin:
15490             \__hyp_text_pdfstring:eoN
15491             { #2}
15492             { \l__hyp_text_enc_uri_print_tl }
15493             \l__hyp_uri_tmpa_tl
15494             \pdfdict_put:nno{l_hyp/annot/A/URI}{URI}{\l__hyp_uri_tmpa_tl}
15495             \bool_if:NT \l__hyp_href_url_ismap_bool
15496             {
15497                 \pdfdict_put:nnn{l_hyp/annot/A/URI}{IsMap}{true}
15498             }
15499             \socket_use:nn{hyp/link/URI/Contents}{#2}
15500             \cs_set_eq:NN \# \c_hash_str
15501             \cs_set_eq:NN \% \c_percent_str
15502             \Hy@safe@activetrue
15503             \mode_leave_vertical:
15504             \pdfannot_dict_put:nne {link/URI}{A}{<<\pdfdict_use:n {l_hyp/annot/A/URI}>>}}
15505             \ifmmode\else\beginL\fi
15506             \pdfannot_link:nen { URI }
15507             {
15508             }
15509             {
15510                 \let\protect\relax
15511                 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi
15512                 \Hy@xspace@end
15513                 \Hy@VerboseLinkStop %where is the start??
15514             }
15515             \ifmmode\else\endL\fi
15516             \group_end:
15517         }

```



```

15518         {
15519             \group_begin: #1 \group_end:
15520         }
15521         \int_gdecr:N\g__hyp_linknestlevel_int
15522     }
15523     {{\let\protect\relax#1}}
15524 }
15525 \RenewDocumentCommand \Acrobatmenu { m m }
15526 {
15527     \hyper@linknamed {#1} {#2}
15528 }
15529 \cs_new_protected:Npn \hyper@linknamed #1 #2 %#1 action, #2 link text
15530 {
15531     \bool_if:NTF \l__hyp_annot_Named_bool
15532     {
15533         \int_gincr:N\g__hyp_linknestlevel_int
15534         \__hyp_check_link_nesting:TF
15535         {
15536             \group_begin:
15537             \pdfmeta_standard_verify:nnTF {named_actions}{#1}
15538             {
15539                 \mode_leave_vertical:
15540                 \pdfdict_put:nne {l_hyp/annot/A/Named}{N}
15541                 {\pdf_name_from_unicode_e:n{#1}}
15542                 \pdfannot_dict_put:nne {link/Named}{A}{<<\pdfdict_use:n {l_hyp/annot/A/Named
15543                 \ifmmode\else\beginL\fi
15544                 \pdfannot_link:nnn { Named }
15545                 {
15546                     % /A
15547                     % <<
15548                     % \pdfdict_use:n { l_hyp/annot/A/Named }
15549                     % >>
15550                 }
15551                 {
15552                     \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi
15553                     \Hy@xspace@end
15554                     \Hy@VerboseLinkStop
15555                 }
15556                 \ifmmode\else\endL\fi
15557             }
15558             {
15559                 \msg_warning:nnn { hyp } { pdfa-no-named-action }{#1}
15560                 #2
15561             }
15562             \group_end:
15563         }
15564         { \group_begin: #2 \group_end: }
15565         \int_gdecr:N\g__hyp_linknestlevel_int
15566     }
15567     {{\let\protect\relax#2}}
15568 }
15569 }
15570 \bidi@patchcmd\@TextField{%
15571     \pdfannot_box:nnnn

```



```

15572 }{%
15573   \if@RTL
15574     \hskip\Fld@width
15575   \fi
15576   \pdfannot_box:nnnn
15577 }{}{}
15578 \bidi@patchcmd\@TextField{%
15579   \MakeTextField{\Fld@width}{\Fld@height}
15580 }{%
15581   \if@RTL
15582     \hskip-\Fld@width
15583   \fi
15584   \MakeTextField{\Fld@width}{\Fld@height}
15585 }{}{}
15586 \ExplSyntaxOff

```

103 File hvfloat-xetex-bidi.def

```

15587 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
15588 \def\do@hvFloat[#1]#2#3{%
15589   \def\hv@shortCap{#1}
15590   \def\hv@longCap{#2}
15591   \def\hv@label{#3}
15592   %\newcommand*{\hvFloat}[5][[]]{%
15593   % [#1]: keyvalues
15594   % #2: type figure | table | ...
15595   % #3: float contents
15596   % [#4]: short caption
15597   % #5: caption
15598   % #6: label
15599   % \setDefault%
15600   % \def\@tempa{#1}%
15601   % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
15602   % \def\@tempa{90}%
15603   % \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
15604   % \else \setlength{\hvMaxCapWidth}{\linewidth}
15605   % \fi
15606   %
15607   % First we save the object in \hvObjectBox
15608   %
15609   % \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
15610   %   \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
15611   % \else
15612   %   \savebox{\hvObjectBox}{%
15613   %     \rotatebox{\hvSet@objectAngle}{%
15614   %       \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
15615   % \fi
15616   % \setlength{\hvObjectWidth}{\wd\hvObjectBox}
15617   %
15618   % Now we save the caption with its defined \hvCapWidth
15619   %
15620   % \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
15621   % \else
15622   %   \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}

```



```

15623 \else
15624 \setlength{\hvCapWidth}{\hvObjectWidth}
15625 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15626 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15627 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
15628 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
15629 \else
15630 \setlength{\hvCapWidth}{\hvMaxCapWidth}
15631 \fi
15632 \fi
15633 \fi
15634 %
15635 % now we have the object and the caption with the right
15636 % rotated angles saved in boxes
15637 %
15638 \def\fps@figure{\hvSet@floatPos}
15639 \ifhv@nonFloat\begin{group}% Start the nonfloat part
15640 \else \begin{\hv@floatType}% Start the floating environment
15641 \fi%
15642 \saveCaptionSkip% we put this space ourselves
15643 \ifx\hvSet@capAngle\hv@Width % need rotation?
15644 \sbox{\hvCaptionBox}{%
15645 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15646 \ifhv@nonFloat%
15647 \ifhv@onlyText#2%
15648 \else%
15649 \ifx\hv@floatType\hv@figure
15650 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
15651 \else
15652 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15653 \fi
15654 \fi
15655 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15656 \fi%
15657 \label{#3}%
15658 \end{minipage}%
15659 }%
15660 \else%
15661 \sbox{\hvCaptionBox}{%
15662 \rotatebox{\hvSet@capAngle}{%
15663 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15664 \ifhv@nonFloat%
15665 \ifhv@onlyText#2%
15666 \else%
15667 \ifx\hv@floatType\hv@figure
15668 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
15669 \else
15670 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15671 \fi
15672 \fi
15673 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15674 \fi%
15675 \label{#3}%
15676 \end{minipage}%

```



```

15677     }%
15678   }%
15679 \fi%
15680 %%
15681 \restoreCaptionSkip% save old values
15682 \ifx\hvSet@objectPos\hv@Right\@bidi@raggedleft%
15683 \else%
15684   \ifx\hvSet@objectPos\hv@Center
15685     \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
15686   \fi%
15687 \fi%
15688 %
15689 % to rotate object and caption together, we save all in another box
15690 % the caption comes first, if its on the left or the top
15691 %
15692 \savebox{\@tempboxa}{%
15693   \ifx\hvSet@capPos\hv@Left % caption on left side
15694 \if@RTL%
15695 \ifx\hvSet@capVPos\hv@Center%
15696   \ifhv@fbox
15697     \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
15698   \else
15699     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15700   \fi%
15701   \hspace{\hvSet@floatCapSep pt}%
15702   \ifhv@fbox
15703     \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15704   \else
15705     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15706   \fi%
15707 \else%
15708   \ifx\hvSet@capVPos\hv@Top
15709     \ifhv@fbox
15710       \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15711     \else
15712       \raisebox{-\height}{\usebox{\hvObjectBox}}%
15713     \fi%
15714     \hspace{\hvSet@floatCapSep pt}%
15715     \ifhv@fbox
15716       \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15717     \else
15718       \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15719     \fi
15720   \else
15721     \ifhv@fbox
15722       \fbox{\usebox{\hvObjectBox}}%
15723     \else
15724       \usebox{\hvObjectBox}%
15725     \fi
15726     \hspace{\hvSet@floatCapSep pt}%
15727     \ifhv@fbox
15728       \fbox{\usebox{\hvCaptionBox}}%
15729     \else
15730       \usebox{\hvCaptionBox}%

```



```

15731         \fi%
15732         \fi%
15733 \fi%
15734 \else% not RTL
15735     \ifx\hvSet@capVPos\hv@Center%
15736         \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15737         \else         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15738         \fi%
15739         \hspace{\hvSet@floatCapSep pt}% capfloatsep
15740         \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
15741         \else         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}%
15742         \fi%
15743 \else%
15744     \ifx\hvSet@capVPos\hv@Top % caption at top
15745         \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15746         \else         \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15747         \fi
15748         \hspace{\hvSet@floatCapSep pt}% capfloatsep
15749         \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15750         \else         \raisebox{-\height}{\usebox{\hvObjectBox}}%
15751         \fi%
15752 \else% caption on bottom
15753     \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
15754     \else\usebox{\hvCaptionBox}
15755     \fi%
15756     \hspace{\hvSet@floatCapSep pt}%
15757     \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
15758     \else         \usebox{\hvObjectBox}
15759     \fi%
15760 \fi%
15761 \fi% end of RTL
15762 \fi%
15763 \else
15764     \ifx\hvSet@capPos\hv@Top
15765         \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15766             \begin{minipage}{\wd\hvCaptionBox}
15767             \else
15768                 \begin{minipage}{\wd\hvObjectBox}
15769             \fi
15770             \centering
15771             \ifhv@fbox
15772                 \fbbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
15773                 \fbbox{\usebox{\hvObjectBox}}
15774             \else
15775                 \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
15776                 \usebox{\hvObjectBox}
15777             \fi%
15778             \end{minipage}
15779         \else
15780             \ifx\hvSet@capPos\hv@Bottom
15781                 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15782                     \begin{minipage}{\wd\hvCaptionBox}
15783                 \else
15784                     \begin{minipage}{\wd\hvObjectBox}

```



```

15785 \fi
15786 \centering
15787 \ifhv@fbox
15788 \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
15789 \fbox{\usebox{\hvCaptionBox}}
15790 \else
15791 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
15792 \usebox{\hvCaptionBox}
15793 \fi%
15794 \end{minipage}
15795 \else% the last option: put the caption on the right
15796 \if@RTL%
15797 \ifx\hvSet@capVPos\hv@Center%
15798 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15799 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15800 \fi%
15801 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15802 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15803 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15804 \fi%
15805 \else%
15806 \ifx\hvSet@capVPos\hv@Top % caption at top
15807 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15808 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15809 \fi
15810 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15811 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15812 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
15813 \fi%
15814 \else% caption on bottom
15815 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
15816 \else\usebox{\hvCaptionBox}
15817 \fi%
15818 \hspace{\hvSet@floatCapSep pt}%
15819 \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
15820 \else \usebox{\hvObjectBox}
15821 \fi%
15822 \fi%
15823 \fi%
15824 \else% not RTL
15825 \ifx\hvSet@capVPos\hv@Center%
15826 \ifhv@fbox
15827 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15828 \else
15829 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15830 \fi%
15831 \hspace{\hvSet@floatCapSep pt}%
15832 \ifhv@fbox
15833 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15834 \else
15835 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15836 \fi%
15837 \else%
15838 \ifx\hvSet@capVPos\hv@Top

```




```

15839      \ifhv@fbox
15840      \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15841    \else
15842      \raisebox{-\height}{\usebox{\hvObjectBox}}%
15843    \fi%
15844    \hspace{\hvSet@floatCapSep pt}%
15845    \ifhv@fbox
15846    \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15847  \else
15848    \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15849  \fi
15850 \else
15851   \ifhv@fbox
15852   \fbox{\usebox{\hvObjectBox}}%
15853 \else
15854   \usebox{\hvObjectBox}%
15855 \fi
15856   \hspace{\hvSet@floatCapSep pt}%
15857   \ifhv@fbox
15858   \fbox{\usebox{\hvCaptionBox}}%
15859 \else
15860   \usebox{\hvCaptionBox}%
15861 \fi%
15862 \fi%
15863 \fi
15864 \fi% end of RTL
15865   \fi
15866   \fi
15867   \fi
15868 }% End savebox Object and caption
15869 %
15870 % now we rotate the object and caption, if needed
15871 %
15872 \ifx\hvSet@rotAngle\hv@Zero
15873   \usebox{\@tempboxa}
15874 \else
15875   \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
15876 \fi
15877 \ifhv@nonFloat
15878   \ifx\hvSet@objectPos\hv@Center
15879     \ifhv@nonFloat
15880       \hspace{\fill}
15881     \fi
15882   \fi
15883   \endgroup% End the nonfloat part
15884 \else
15885   \end{\hv@floatType}% End the floating environment
15886 \fi
15887 }

```

104 File hyperref-xetex-bidi.def

```

15888 \ProvidesFile{hyperref-xetex-bidi.def}[2025/12/06 v1.5 bidi adaptations for hyperref package]
15889 \AtBeginDocument{%

```



```

15890 \def\contentsline#1#2#3#4{%
15891   \ifx\#4\%
15892     \csname l@#1\endcsname{#2}{#3}%
15893   \else
15894     \ifcase\Hy@linktoc % none
15895       \csname l@#1\endcsname{#2}{#3}%
15896     \or % section
15897       \csname l@#1\endcsname{%
15898         \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15899       }{#3}%
15900     \or % page
15901       \csname l@#1\endcsname{#2}{#3}{%
15902         \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15903       }%
15904     \else % all
15905       \csname l@#1\endcsname{%
15906         \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15907       }{#3}{%
15908         \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15909       }%
15910     \fi
15911   \fi
15912 }
15913 \ifHy@hyperfootnotes
15914   \let\H@@footnotetext\@footnotetext
15915   \let\HRTL@RTLfootnotetext\@RTLfootnotetext
15916   \let\HLTR@LTRfootnotetext\@LTRfootnotetext
15917   \def\@xfootnotenext[#1]{%
15918     \begingroup
15919       \csname c@\@mpfn\endcsname #1\relax
15920       \unrestored@protected@xdef\@thefnmark{\thempfn}%
15921     \endgroup
15922     \ifx\@footnotetext\@mpfootnotetext
15923       \expandafter\H@@mpfootnotetext
15924     \else
15925       \expandafter\H@@footnotetext
15926     \fi
15927   }%
15928   \def\@xRTLfootnotenext[#1]{%
15929     \begingroup
15930       \csname c@\@mpfn\endcsname #1\relax
15931       \unrestored@protected@xdef\@thefnmark{\thempfn}%
15932     \endgroup
15933     \ifx\@RTLfootnotetext\@mpRTLfootnotetext
15934       \expandafter\HRTL@mpRTLfootnotetext
15935     \else
15936       \expandafter\HRTL@RTLfootnotetext
15937     \fi
15938   }%
15939   \def\@xLTRfootnotenext[#1]{%
15940     \begingroup
15941       \csname c@\@mpfn\endcsname #1\relax
15942       \unrestored@protected@xdef\@thefnmark{\thempfn}%
15943     \endgroup

```



```

15944 \ifx\LTRfootnotetext\@mpLTRfootnotetext
15945 \expandafter\HLTR@\mpLTRfootnotetext
15946 \else
15947 \expandafter\HLTR@\LTRfootnotetext
15948 \fi
15949 }%
15950 \def\xfootnotemark[#1]{%
15951 \begingroup
15952 \c@footnote #1\relax
15953 \unrestored@protected@xdef\@thefnmark{\thefootnote}%
15954 \endgroup
15955 \H@\footnotemark
15956 }%
15957 \let\H@\mpfootnotetext\mpfootnotetext
15958 \let\HRTL@\mpRTLfootnotetext\mpRTLfootnotetext
15959 \let\HLTR@\mpLTRfootnotetext\mpLTRfootnotetext
15960 \long\def\@mpfootnotetext#1{%
15961 \H@\mpfootnotetext{%
15962 \ifHy@nesting
15963 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15964 \else
15965 \Hy@raisedlink{%
15966 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15967 }#1%
15968 \fi
15969 }%
15970 }%
15971 \long\def\@mpRTLfootnotetext#1{%
15972 \HRTL@\mpRTLfootnotetext{%
15973 \ifHy@nesting
15974 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15975 \else
15976 \Hy@raisedlink{%
15977 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15978 }#1%
15979 \fi
15980 }%
15981 }%
15982 \long\def\@mpLTRfootnotetext#1{%
15983 \HLTR@\mpLTRfootnotetext{%
15984 \ifHy@nesting
15985 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15986 \else
15987 \Hy@raisedlink{%
15988 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15989 }#1%
15990 \fi
15991 }%
15992 }%
15993 \long\def\@footnotetext#1{%
15994 \H@\footnotetext{%
15995 \ifHy@nesting
15996 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15997 \else

```



```

15998      \Hy@raisedlink{%
15999          \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
16000      }%
16001      \let\@currentHlabel\Hy@footnote@currentHlabel
16002      \let\@currentHref\Hy@footnote@currentHref
16003      \let\@currentlabelname\@empty
16004      #1%
16005      \fi
16006  }%
16007 }%
16008 \long\def\@RTLfootnotetext#1{%
16009 \HRTL@@RTLfootnotetext{%
16010     \ifHy@nesting
16011         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
16012     \else
16013         \Hy@raisedlink{%
16014             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
16015         }%
16016         \let\@currentHlabel\Hy@footnote@currentHlabel
16017         \let\@currentHref\Hy@footnote@currentHref
16018         \let\@currentlabelname\@empty
16019         #1%
16020     \fi
16021 }%
16022 }%
16023 \long\def\@LTRfootnotetext#1{%
16024 \HLTR@@LTRfootnotetext{%
16025     \ifHy@nesting
16026         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
16027     \else
16028         \Hy@raisedlink{%
16029             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
16030         }%
16031         \let\@currentHlabel\Hy@footnote@currentHlabel
16032         \let\@currentHref\Hy@footnote@currentHref
16033         \let\@currentlabelname\@empty
16034         #1%
16035     \fi
16036 }%
16037 }%
16038 \ApplyPatchCodeToPackage{tabularx}{%
16039 \let\HyOrg@TX@endtabularx\TX@endtabularx
16040 \def\Hy@tabularx@hook{%
16041     \let\@footnotetext\H@@footnotetext
16042     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
16043     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
16044     \let\@footnotemark\H@@footnotemark
16045     \let\@mpfootnotetext\H@@mpfootnotetext
16046     \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
16047     \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
16048 }%
16049 \begingroup
16050 \toks@\expandafter{\TX@endtabularx}%
16051 \xdef\Hy@gtemp{%

```



```

16052         \noexpand\Hy@tabularx@hook
16053         \the\toks@
16054     }%
16055 \endgroup
16056 \let\TX@endtabularx\Hy@gtemp
16057 }%
16058 \ApplyPatchCodeToPackage{longtable}{%
16059 \CheckCommand{\LT@p@LTRfnttext}[1]{%
16060     \edef\@tempa{%
16061         \the\LT@p@ftn
16062         \noexpand\LTRfootnotetext[\the\c@footnote]%
16063     }%
16064     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
16065 }%
16066 \long\def\LT@p@LTRfnttext#1{%
16067     \edef\@tempa{%
16068         \the\LT@p@ftn
16069         \begingroup
16070         \noexpand\c@footnote=\the\c@footnote\relax
16071         \noexpand\protected@xdef\noexpand\@thefnmark{%
16072             \noexpand\thempfn
16073         }%
16074         \noexpand\Hy@LT@LTRfootnotetext{%
16075             \Hy@footnote@currentHref
16076         }%
16077     }%
16078     \global\LT@p@ftn\expandafter{%
16079         \@tempa{#1}%
16080     \endgroup
16081     }%
16082 }%
16083 \long\def\Hy@LT@LTRfootnotetext#1#2{%
16084     \HLTR@@LTRfootnotetext{%
16085         \ifHy@nesting
16086             \hyper@@anchor{#1}{#2}%
16087         \else
16088             \Hy@raisedlink{%
16089                 \hyper@@anchor{#1}{\relax}%
16090             }%
16091             \def\@currentHref{#1}%
16092             \let\@currentlabelname\empty
16093             #2%
16094         \fi
16095     }%
16096 }%
16097 \CheckCommand{\LT@p@RTLfnttext}[1]{%
16098     \edef\@tempa{%
16099         \the\LT@p@ftn
16100         \noexpand\RTLfootnotetext[\the\c@footnote]%
16101     }%
16102     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
16103 }%
16104 \long\def\LT@p@RTLfnttext#1{%
16105     \edef\@tempa{%

```



```

16106      \the\LT@p@ftn
16107      \begingroup
16108      \noexpand\c@footnote=\the\c@footnote\relax
16109      \noexpand\protected@xdef\noexpand\@thefnmark{%
16110      \noexpand\thempfn
16111      }%
16112      \noexpand\Hy@LT@RTLfootnotetext{%
16113      \Hy@footnote@currentHref
16114      }%
16115      }%
16116      \global\LT@p@ftn\expandafter{%
16117      \@tempa{#1}%
16118      \endgroup
16119      }%
16120      }%
16121      \long\def\Hy@LT@RTLfootnotetext#1#2{%
16122      \HRTL@RTLfootnotetext{%
16123      \ifHy@nesting
16124      \hyper@@anchor{#1}{#2}%
16125      \else
16126      \Hy@raisedlink{%
16127      \hyper@@anchor{#1}{\relax}%
16128      }%
16129      \def\@currentHref{#1}%
16130      \let\@currentlabelname\@empty
16131      #2%
16132      \fi
16133      }%
16134      }%
16135      }%
16136      \ApplyPatchCodeToPackage{bidipoem}{%
16137      \long\def\bidipoem@p@ftntext#1{%
16138      \edef\@tempx{%
16139      \the\bidipoem@p@ftn
16140      \begingroup
16141      \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16142      \noexpand\protected@xdef\noexpand\@thefnmark{%
16143      \noexpand\thempfn
16144      }%
16145      \noexpand\Hy@bidipoem@footnotetext{%
16146      \Hy@footnote@currentHref
16147      }%
16148      }%
16149      \global\bidipoem@p@ftn\expandafter{%
16150      \@tempx{#1}%
16151      \endgroup
16152      }%
16153      }%
16154      \long\def\Hy@bidipoem@footnotetext#1#2{%
16155      \H@@footnotetext{%
16156      \ifHy@nesting
16157      \hyper@@anchor{#1}{#2}%
16158      \else
16159      \Hy@raisedlink{%

```



```

16160         \hyper@@anchor{#1}{\relax}%
16161     }%
16162     \def\@currentHref{#1}%
16163     \let\@currentlabelname\@empty
16164     #2%
16165 \fi
16166 }%
16167 }%
16168     \long\def\bidipoem@p@LTRftntext#1{%
16169 \edef\@tempxi{%
16170     \the\bidipoem@p@ftn
16171     \beginingroup
16172     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16173     \noexpand\protected@xdef\noexpand\@thefnmark{%
16174         \noexpand\thempfn
16175     }%
16176     \noexpand\Hy@bidipoem@LTRfootnotetext{%
16177         \Hy@footnote@currentHref
16178     }%
16179     }%
16180     \global\bidipoem@p@ftn\expandafter{%
16181         \@tempxi{#1}%
16182     \endgroup
16183     }%
16184 }%
16185 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
16186     \HLTR@@LTRfootnotetext{%
16187         \ifHy@nesting
16188             \hyper@@anchor{#1}{#2}%
16189         \else
16190             \Hy@raisedlink{%
16191                 \hyper@@anchor{#1}{\relax}%
16192             }%
16193             \def\@currentHref{#1}%
16194             \let\@currentlabelname\@empty
16195             #2%
16196         \fi
16197     }%
16198 }%
16199     \long\def\bidipoem@p@RTLftntext#1{%
16200 \edef\@tempxii{%
16201     \the\bidipoem@p@ftn
16202     \beginingroup
16203     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16204     \noexpand\protected@xdef\noexpand\@thefnmark{%
16205         \noexpand\thempfn
16206     }%
16207     \noexpand\Hy@bidipoem@RTLfootnotetext{%
16208         \Hy@footnote@currentHref
16209     }%
16210     }%
16211     \global\bidipoem@p@ftn\expandafter{%
16212         \@tempxii{#1}%
16213     \endgroup

```



```

16214     }%
16215 }%
16216 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
16217   \HRTL@@RTLfootnotetext{%
16218     \ifHy@nesting
16219       \hyper@@anchor{#1}{#2}%
16220     \else
16221       \Hy@raisedlink{%
16222         \hyper@@anchor{#1}{\relax}%
16223       }%
16224       \def\@currentHref{#1}%
16225       \let\@currentlabelname\@empty
16226       #2%
16227     \fi
16228   }%
16229 }%
16230 }%
16231 % \let\HyOrg@maketitle\maketitle
16232 \def\maketitle{%
16233   \let\Hy@saved@footnotemark\@footnotemark
16234   \let\Hy@saved@footnotetext\@footnotetext
16235   \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
16236   \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
16237   \let\@footnotemark\H@@footnotemark
16238   \let\@footnotetext\H@@footnotetext
16239   \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
16240   \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
16241   \@ifnextchar[\Hy@maketitle@optarg{% ]
16242     \HyOrg@maketitle
16243     \Hy@maketitle@end
16244   }%
16245 }%
16246 \def\Hy@maketitle@optarg[#1]{%
16247   \HyOrg@maketitle[#{#1}]%
16248   \Hy@maketitle@end
16249 }%
16250 \def\Hy@maketitle@end{%
16251   \ifx\@footnotemark\H@@footnotemark
16252     \let\@footnotemark\Hy@saved@footnotemark
16253   \fi
16254   \ifx\@footnotetext\H@@footnotetext
16255     \let\@footnotetext\Hy@saved@footnotetext
16256   \fi
16257   \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
16258     \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
16259   \fi
16260   \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
16261     \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
16262   \fi
16263 }%
16264 \def\realfootnote{%
16265   \@ifnextchar[\@xfootnote{%
16266     \stepcounter{\@mpfn}%
16267     \protected@xdef\@thefnmark{\thempfn}%

```




```

16268      \H@@footnotemark\H@@footnotetext
16269    }%
16270  }%
16271 \fi
16272 \def\Hy@BeginAnnot#1{%
16273   \ifmmode\else\beginL\fi%
16274   \global\advance\c@Hy@AnnotLevel\@ne
16275   \ifnum\c@Hy@AnnotLevel=\@ne
16276     #1%
16277   \fi
16278 }
16279 \def\Hy@endAnnot{%
16280   \ifnum\c@Hy@AnnotLevel=\@ne
16281     \Hy@endcolorlink
16282     \@pdfm@mark{eann}%
16283   \fi
16284   \global\advance\c@Hy@AnnotLevel\m@ne
16285   \ifmmode\else\endL\fi%
16286 }
16287 \def\hyper@link#1#2#3{%
16288   \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi
16289 }
16290 \def\hyper@linkfile#1#2#3{%
16291   \leavevmode
16292   \Hy@BeginAnnot{%
16293     \def\Hy@pstringF{#2}%
16294     \Hy@CleanupFile\Hy@pstringF
16295     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
16296     \Hy@pstringdef\Hy@pstringD{#3}%
16297     \Hy@MakeRemoteAction
16298     \@pdfm@mark{%
16299       bann<<%
16300       /Type/Annot%
16301       /Subtype/Link%
16302       \ifHy@pdfa /F 4\fi
16303       \Hy@setpdfborder
16304       \ifx\@filebordercolor\relax
16305       \else
16306         /C[\@filebordercolor]%
16307       \fi
16308       /A<<%
16309       /S/GoToR%
16310       /F(\Hy@pstringF)%
16311       /D%
16312       \ifx\@#3\%
16313         [\Hy@href@page\@pdfremotestartview]%
16314       \else
16315         (\Hy@pstringD)%
16316       \fi
16317       \Hy@SetNewWindow
16318       \Hy@href@nextactionraw
16319     >>%
16320     >>%
16321   }%

```



```

16322 \Hy@colorlink\@filecolor
16323 }%
16324 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16325 \Hy@EndAnnot
16326 }
16327 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
16328 \leavevmode
16329 \Hy@BeginAnnot{%
16330 \Hy@pstringdef\Hy@pstringF{#1}%
16331 \Hy@pstringdef\Hy@pstringP{#3}%
16332 \@pdfm@mark{%
16333 bann<<%
16334 /Type/Annot%
16335 /Subtype/Link%
16336 \ifHy@pdfa /F 4\fi
16337 \Hy@setpdfborder
16338 \ifx\@runbordercolor\relax
16339 \else
16340 /C[\@runbordercolor]%
16341 \fi
16342 /A<<%
16343 /F(\Hy@pstringF)%
16344 /S/Launch%
16345 \Hy@SetNewWindow
16346 \ifx\#3\%
16347 \else
16348 /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
16349 \fi
16350 \Hy@href@nextactionraw
16351 >>%
16352 >>%
16353 }%
16354 \Hy@colorlink\@runcolor
16355 }%
16356 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16357 \Hy@EndAnnot
16358 }
16359 \def\hyper@linkurl#1#2{%
16360 \leavevmode
16361 \Hy@BeginAnnot{%
16362 \Hy@pstringdef\Hy@pstringURI{#2}%
16363 \@pdfm@mark{%
16364 bann<<%
16365 /Type/Annot%
16366 /Subtype/Link%
16367 \ifHy@pdfa /F 4\fi
16368 \Hy@setpdfborder
16369 \ifx\@urlbordercolor\relax
16370 \else
16371 /C[\@urlbordercolor]%
16372 \fi
16373 /A<<%
16374 /S/URI%
16375 /URI(\Hy@pstringURI)%

```



```

16376         \ifHy@href@ismap
16377         /IsMap true%
16378         \fi
16379         \Hy@href@nextactionraw
16380     >>%
16381 >>%
16382 }%
16383 \Hy@colorlink\@urlcolor
16384 }%
16385 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16386 \Hy@endAnnot
16387 }
16388 \def\Acrobatmenu#1#2{%
16389 \Hy@Acrobatmenu{#1}{#2}{%
16390 \Hy@BeginAnnot{%
16391 \EdefEscapeName\Hy@temp@menu{#1}%
16392 \@pdfm@mark{%
16393 bann<<%
16394 /Type/Annot%
16395 /Subtype/Link%
16396 \ifHy@pdfa /F 4\fi
16397 \Hy@setpdfborder
16398 \ifx\@menubordercolor\relax
16399 \else
16400 /C[\@menubordercolor]%
16401 \fi
16402 /A<<%
16403 /S/Named%
16404 /N/\Hy@temp@menu
16405 \Hy@href@nextactionraw
16406 >>%
16407 >>%
16408 }%
16409 \Hy@colorlink\@menucolor
16410 }%
16411 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16412 \Hy@endAnnot
16413 }%
16414 }
16415 \def\hyper@natlinkstart#1{%
16416 \Hy@backout{#1}%
16417 \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
16418 \def\hyper@nat@current{#1}%
16419 }
16420 \def\hyper@natlinkend{%
16421 \if@RTL\endR\fi\hyper@linkend
16422 }
16423 \def\hyper@natlinkbreak#1#2{%
16424 \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
16425 }%
16426 }
16427 \pdfstringdefDisableCommands{%
16428 \let\LRE\@firstofone
16429 \let\LR\@firstofone

```



```

16430 \let\RLE\@firstofone
16431 \let\RL\@firstofone
16432 \def\XeTeX{Xe\TeX}%
16433 \def\XeLaTeX{Xe\LaTeX}%
16434 }
16435 \bidi@patchcmd\@TextField{%
16436   \@pdfm@mark
16437 }{%
16438   \if@RTL
16439     \hskip\Fld@width
16440   \fi
16441   \@pdfm@mark
16442 }{}{}
16443 \bidi@patchcmd\@TextField{%
16444   \unhbox
16445 }{%
16446   \if@RTL
16447     \hskip-\Fld@width
16448   \fi
16449   \unhbox
16450 }{}{}
16451 \bidi@patchcmd\@@Radio{%
16452   \@pdfm@mark
16453 }{%
16454   \if@RTL
16455     \hskip\Fld@width
16456   \fi
16457   \@pdfm@mark
16458 }{}{}
16459 \bidi@patchcmd\@@Radio{%
16460   \unhcopy
16461 }{%
16462   \if@RTL
16463     \hskip-\Fld@width
16464   \fi
16465   \unhcopy
16466 }{}{}
16467 \bidi@patchcmd\@Submit{%
16468   \@pdfm@mark
16469 }{%
16470   \if@RTL
16471     \null
16472     \hskip\wd\pdfm@box
16473   \fi
16474   \@pdfm@mark
16475 }{}{}
16476 \bidi@patchcmd\@Submit{%
16477   \unhbox
16478 }{%
16479   \if@RTL
16480     \hskip-\wd\pdfm@box
16481   \fi
16482   \unhbox
16483 }{}{}

```



```

16484 \bidi@patchcmd\@Reset{%
16485 \@pdfm@mark
16486 }{%
16487 \if@RTL
16488 \null
16489 \hskip\wd\pdfm@box
16490 \fi
16491 \@pdfm@mark
16492 }{}{}
16493 \bidi@patchcmd\@Reset{%
16494 \unhbox
16495 }{%
16496 \if@RTL
16497 \hskip-\wd\pdfm@box
16498 \fi
16499 \unhbox
16500 }{}{}

```

105 File imspdoc-xetex-bidi.def

```

16501 \ProvidesFile{imspdoc-xetex-bidi.def}[2025/09/30 v0.2 bidi adaptations for imspdoc class for
16502 \newenvironment{thebibliography}[1]{%
16503 \@bibtitlestyle
16504 \normalfont\bibliofont\labelsep .5em\relax
16505 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
16506 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16507 \bidi@thebibliography@font@hook
16508 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
16509 \leftmargin\labelwidth \advance\leftmargin\labelsep
16510 \usecounter{enumiv}}%
16511 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
16512 \sfcode`\.=\@m
16513 }{%
16514 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
16515 \endlist
16516 }
16517
16518 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
16519 \columnseprule\z@ \columnsep 35\p@
16520 \@indextitlestyle
16521 \thispagestyle{plain}%
16522 \let\item\@idxitem
16523 \parindent\z@ \parskip\z@\@plus.3\p@\relax
16524 \if@RTL\raggedleft\else\raggedright\fi
16525 \hyphenpenalty\@M
16526 \footnotesize}
16527 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
16528 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
16529 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
16530
16531 \def\right@footnoterule{%
16532 \kern-.4\p@
16533 \nointerlineskip
16534 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }}

```



```

16535 \kern11\p@\kern-\footnotesep}
16536 \def\left@footnoterule{\kern-.4\p@
16537 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
16538 \def\@makefnmark{%
16539 \leavevmode
16540 \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}%
16541 }
16542
16543 \def\part{\@startsection{part}{0}%
16544 \z@\linespacing\@plus\linespacing}{.5\linespacing}%
16545 {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
16546 \def\@tocline#1#2#3#4#5#6#7{\relax
16547 \ifnum #1>\c@tocdepth % then omit
16548 \else
16549 \par \addpenalty\@secpenalty\addvspace{#2}%
16550 \begingroup \hyphenpenalty\@M
16551 \ifempty{#4}{%
16552 \@tempdima\c@tocdepth\@tocdepth\@tocdepth\@tocdepth\relax
16553 }{%
16554 \@tempdima#4\relax
16555 }%
16556 \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else
16557 \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
16558 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
16559 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16560 \nobreak
16561 \endgroup
16562 \fi}
16563 \renewcommand\thesubsection {\thesecount\@SepMark\arabic{subsection}}
16564 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
16565 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
16566 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
16567 \def\maketitle{\par
16568 \topnum\z@ % this prevents figures from falling at the top of page 1
16569 \setcopyright
16570 \thispagestyle{firstpage}% this sets first page specifications
16571 \uppercase\shorttitle
16572 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
16573 \else \andify\shortauthors
16574 \fi
16575 \maketitle@hook
16576 \begingroup
16577 \maketitle
16578 \toks@{\xp{\shortauthors}\@temptokena{\xp{\shorttitle}}%
16579 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
16580 \edef\@tempa{%
16581 \nx\markboth{\the\toks4
16582 \nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
16583 \@tempa
16584 \endgroup
16585 \c@footnote\z@
16586 \cleartopmattertags
16587 }

```



106 File leqno-xetex-bidi.def

```
16588 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
16589 \renewcommand\@eqnnum{\hb@xt@.01\p@{}}%
16590 \rlap{\hskip -\displaywidth
16591 \{\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\}}
```

107 File letter-xetex-bidi.def

```
16592 \ProvidesFile{letter-xetex-bidi.def}[2025/09/30 v0.4 bidi adaptations for standard letter class]
16593 \renewcommand*\@opening[1]{\ifx@empty\fromaddress
16594 \thispagestyle{firstpage}%
16595 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
16596 \else % home address
16597 \thispagestyle{empty}%
16598 {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
16599 \fromaddress \*[2\parskip]%
16600 \@date \end{tabular}\par}%
16601 \fi
16602 \vspace{2\parskip}%
16603 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ \toaddress \par}%
16604 \vspace{2\parskip}%
16605 #1\par\nobreak}
16606 \renewcommand\left@footnoterule{%
16607 \kern-\p@
16608 \hrule \@width .4\columnwidth
16609 \kern .6\p@}
16610 \renewcommand\right@footnoterule{%
16611 \kern-\p@
16612 \nointerlineskip
16613 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16614 \kern .6\p@}
```

108 File lettrine-xetex-bidi.def

```
16615 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package]
16616 \RemoveFromHook{begindocument}[lettrine]
16617 \AtBeginDocument[lettrine]{%
16618 \if\DefaultOptionsFile\relax
16619 \else
16620 \InputIfFileExists{\DefaultOptionsFile}%
16621 {}%
16622 {\PackageWarning{lettrine.sty}%
16623 {File \DefaultOptionsFile\space not found}%
16624 }%
16625 \fi
16626 \let\ifL@RTL\if@RTL
16627 }
```

109 File lineno-xetex-bidi.def

```
16628 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package for XeTeX]
16629 \bidi@patchcmd{\MakeLineNo}{%
16630 \hb@xt@\z@{\makeLineNumber}%
```



```

16631 }{%
16632   \hboxL to \z@{\makeLineNumber}%
16633 }{}{}
16634
16635 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
16636   \if@RTL
16637     \hb@xt@\linenumberwidth{\LineNumber\hss}%
16638   \else
16639     \LineNumber
16640   \fi
16641 }{}{}
16642
16643 \bidi@patchcmd{\makeLineNumberRight}{%
16644   \hb@xt@\linenumberwidth{\hss\LineNumber}%
16645 }{%
16646   \if@RTL
16647     \LineNumber
16648   \else
16649     \hb@xt@\linenumberwidth{\hss\LineNumber}%
16650   \fi
16651 }{}{}
16652
16653 \bidi@AfterPreamble{%
16654   \if@RTLmain
16655     \rightlinenumbers*
16656   \else
16657     \leftlinenumbers*
16658   \fi
16659   \@ifpackagewith{lineno}{left}{%
16660     \leftlinenumbers*
16661   }{}
16662   \@ifpackagewith{lineno}{right}{%
16663     \rightlinenumbers*
16664   }{}
16665   \@ifpackagewith{lineno}{switch}{%
16666     \if@RTLmain
16667       \switchlinenumbers*%
16668     \else
16669       \switchlinenumbers
16670     \fi
16671   }{}
16672   \@ifpackagewith{lineno}{switch*}{%
16673     \if@RTLmain
16674       \switchlinenumbers
16675     \else
16676       \switchlinenumbers*%
16677     \fi
16678   }{}
16679 }
16680

```

110 File listings-xetex-bidi.def

```

16681 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package

```




```

16682 \lst@Key{captiondirection}{textdirection}{%
16683   \lstKV@SwitchCases{#1}%
16684   {textdirection:\\%
16685     RTL:\chardef\bidilst@caption@direction\@ne\\%
16686     LTR:\chardef\bidilst@caption@direction\z@%
16687   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16688
16689 \lst@Key{captionscript}{textscript}{%
16690   \lstKV@SwitchCases{#1}%
16691   {textscript:\\%
16692     latin:\chardef\bidilst@caption@script\@ne\\%
16693     nonlatin:\chardef\bidilst@caption@script\z@%
16694   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16695
16696 \newcommand*{\bidilst@ensure@caption@direction}[2]{%
16697   \@ifundefined{bidilst@caption@direction}{}%
16698   \ifnum\bidilst@caption@direction=\z@%
16699     #1%
16700   \else%
16701     \ifnum\bidilst@caption@direction=\@ne%
16702       #2%
16703     \fi%
16704   \fi%
16705 }}
16706
16707 \newcommand*{\bidilst@ensure@caption@script}[2]{%
16708   \@ifundefined{bidilst@caption@script}{}%
16709   \ifnum\bidilst@caption@script=\z@%
16710     #1%
16711   \else%
16712     \ifnum\bidilst@caption@script=\@ne%
16713       #2%
16714     \fi%
16715   \fi%
16716 }}
16717
16718 \long\def\@bidilst@makecaption#1#2{%
16719   \bidilst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16720   \vskip\abovecaptionskip
16721   \bidilst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16722   \sbox\@tempboxa{%
16723     \bidilst@ensure@caption@direction{\beginL}{\beginR}%
16724     #1: #2%
16725     \bidilst@ensure@caption@direction{\endL}{\endR}%
16726   }%
16727   \ifdim \wd\@tempboxa >\hsize
16728     #1: #2\par
16729   \else
16730     \global \@minipagefalse
16731     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
16732   \fi
16733   \vskip\belowcaptionskip}%
16734 \def\lst@makecaption{\@bidilst@makecaption}
16735 \def\lst@maketitle{\@bidilst@makecaption\lst@title\dropdelim}

```



```

16736 \bidi@AtEndPreamble{%
16737 \bidi@patchcmd{\lst@MakeCaption}{%
16738     \ifx #1t%
16739         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16740             \expandafter\refstepcounter
16741         \fi {lstlisting}%
16742 }{}%
16743     \ifx #1t%
16744         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16745         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16746             \expandafter\refstepcounter
16747         \fi {lstlisting}%
16748         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
16749 }{}{}%
16750 \bidi@patchcmd{\lst@MakeCaption}{%
16751     \addcontentsline{lol}{lstlisting}%
16752     {\protect\numberline{\thelstlisting}\lst@caption}%
16753 }{}%
16754 \begingroup%
16755     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16756     \addcontentsline{lol}{lstlisting}%
16757     {\protect\numberline{\thelstlisting}\lst@caption}%
16758 \endgroup%
16759 }{}{}%
16760 }
16761 \ApplyPatchIfPackageLoaded{caption}{%
16762     \AtBeginCaption{%
16763         \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16764         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16765     }
16766     \let\@bidi@lst@makecaption\caption@makecaption%
16767     \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
16768     \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
16769 }{}%
16770 \AtBeginDocument{%
16771     \@ifundefined{captionlabelfalse}{}{}%
16772     \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
16773     \@ifundefined{captionstartrue}{}{}%
16774     \def\lst@maketitle{\captionstartrue\@bidi@lst@makecaption\@empty}}%
16775 }%
16776 }
16777 \AtBeginDocument{
16778     \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
16779     \lst@ifnumberbychapter
16780         \gdef\thelstlisting%
16781             {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
16782     \else
16783         \gdef\thelstlisting{\@arabic\c@lstlisting}
16784     \fi}

```

111 File longtable-xetex-bidi.def

```

16785 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable packa
16786 \ExplSyntaxOn

```



```

16787 \def\LT@array[#1]#2{%
16788   \UseTaggingSocket{tbl/init}
16789   \tl_if_empty:eTF { \LTcapytype }
16790   {
16791     \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
16792   }
16793   {
16794     \@kernel@refstepcounter{\LTcapytype}\stepcounter{LT@tables}
16795     \tl_gset:Ne \@currentHref {\LTcapytype.\cs_if_exist_use:c {theH\LTcapytype}}
16796   }
16797   \tbl_gzero_row_count:
16798   \UseTaggingSocket{tbl/longtable/init}
16799   \if l#1%
16800     \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
16801   \else\if r#1%
16802     \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
16803   \else\if c#1%
16804     \LTleft\fill \LTright\fill
16805   \fi\fi\fi
16806   \let\LT@mc@col\multicolumn
16807   \let\LT@@@tabarray\@tabarray
16808   \let\LT@@@hl\hline
16809   \def\@tabarray{%
16810     \let\hline\LT@@@hl
16811     \LT@@@tabarray}%
16812   \let\@LT@tabularcr
16813   \let\@tabularnewline\@
16814   \def\newpage{\noalign{\break}}%
16815   \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
16816   \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk4}}%
16817   \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
16818   \@tempdima\ht\strutbox
16819   \let\@endpbox\LT@endpbox
16820   \ifx\extrarowheight\@undefined
16821     \let\@acol\@tabacol
16822     \let\@classz\@tabclassz \let\@classiv\@tabclassiv
16823     \def\@startpbox{\vtop\LT@startpbox}%
16824     \let\@@startpbox\@startpbox
16825     \let\@@endpbox\@endpbox
16826     \let\LT@LL@FM@cr\@tabularcr
16827   \else
16828     \advance\@tempdima\extrarowheight
16829     \col@sep\@tabcolsep
16830     \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
16831   \fi
16832   \setbox\@arstrutbox\hbox{\vrule
16833     \@height \arraystretch \@tempdima
16834     \@depth \arraystretch \dp \strutbox
16835     \@width \z@}%
16836   \let\@sharp##\let\protect\relax
16837   \begingroup
16838   \@mkpream{#2}%
16839   \tbl_count_table_cols:
16840   \xdef\LT@bchunk{%

```



```

16841 \tbl_inbetween_rows:
16842 \global\advance\c@LT@chunks\@ne
16843 \global\LT@rows\z@\setbox\z@\vbox\bgroup
16844 \LT@setprevdepth
16845 \tabskip\LTleft \noexpand\halign to\hsize\bgroup
16846 \tabskip\z@ \@arstrut
16847 \UseTaggingSocket{tbl/row/begin}%
16848 \tbl_init_cell_data_for_row:
16849 \@preamble \tabskip\LTright \cr}%
16850 \endgroup
16851 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
16852 \LT@make@row
16853 \m@th\let\par\@empty
16854 \everycr{%
16855 \noalign{%
16856 \tbl_trace:n {--longtable-->~chunk-row:~ \the\LT@rows \space
16857 row:~ \the\g__tbl_row_int \space
16858 column:~ \the\g__tbl_col_int
16859 }
16860 \tbl_if_row_was_started:T
16861 {
16862 \UseTaggingSocket{tbl/row/end}
16863 \tbl_inbetween_rows:
16864 }
16865 \int_compare:nNt \LT@rows < \LT@chunksize
16866 { \tbl_gincr_row_count: } % next is row about to start
16867 }%
16868 }%
16869 \lineskip\z@\baselineskip\z@
16870 \LT@bchunk}
16871 \ExplSyntaxOff
16872 \def\LT@makecaption#1#2#3{%
16873 \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
16874 \reset@font
16875 \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
16876 \ifdim\wd\@tempboxa>\hsize
16877 #1{#2: }#3%
16878 \else
16879 \hbox to\hsize{\hfil\box\@tempboxa\hfil}}%
16880 \fi
16881 \endgraf\vskip\baselineskip}%
16882 \hss}}}
16883 \ApplyPatchCodeToPackage{caption}{%
16884 \renewcommand\LT@makecaption[3]{%
16885 \caption@LT@make{%
16886 \caption@LT@settype\LTcaptype
16887 \caption@LT@setup
16888 \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
16889 \caption@startrue#1\caption@starfalse
16890 \caption@prepare@stepcounter\LTcaptype
16891 \caption@begin\LTcaptype
16892 \caption@normalsize
16893 \vskip-\ht\strutbox
16894 \caption@ifdefined\FBifcaptop{%

```



```

16895         \let\caption@belowskip\@empty\}%
16896         \caption@make@above
16897         \caption@make{#2}{#3}\endgraf
16898         \caption@make@below
16899         \caption@end\}%
16900     }
16901 \def\LT@startpbox#1{%
16902     \bgroup
16903     \color@begingroup
16904     \let\@footnotetext\LT@p@ftntext
16905     \let\LTRfootnotetext\LT@p@LTRftntext
16906     \let\RTLfootnotetext\LT@p@RTLftntext
16907     \setlength\hsize{#1}%
16908     \@arrayparboxrestore
16909     \everypar{%
16910         \vrule \@height \ht\@arstrutbox \@width \z@
16911         \everypar{}}%
16912     }
16913 \long\def\LT@p@LTRftntext#1{%
16914     \edef\@tempa{\the\LT@p@ftnnoexpand\LTRfootnotetext[\the\c@footnote]}\%
16915     \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16916 \long\def\LT@p@RTLftntext#1{%
16917     \edef\@tempa{\the\LT@p@ftnnoexpand\RTLfootnotetext[\the\c@footnote]}\%
16918     \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16919 \def\LT@output{%
16920     \ifnum\outputpenalty <-\@Mi
16921         \ifnum\outputpenalty > -\LT@end@pen
16922             \LT@err{floats and marginpars not allowed in a longtable}\@ehc
16923         \else
16924             \setbox\z@\vbox{\unvbox\@cclv}\%
16925             \ifdim \ht\LT@lastfoot>\ht\LT@foot
16926                 \dimen@\pagegoal
16927                 \advance\dimen@\ht\LT@foot
16928                 \advance\dimen@-\ht\LT@lastfoot
16929                 \ifdim\dimen@<\ht\z@
16930                     \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}\%
16931                     \@makecol
16932                     \@outputpage
16933                     \global\vsize\@colroom
16934                     \setbox\z@\vbox{\box\LT@head}\%
16935                 \fi
16936             \fi
16937             \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
16938             \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
16939             \UseTaggingSocket{tbl/longtable/foot}
16940             \if@RTLtab\egroup\endR\egroup\fi
16941         \fi
16942     \else
16943         \setbox\@cclv\vbox{%
16944             \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
16945             \unvbox\@cclv\copy\LT@foot\vss
16946             \if@RTLtab\egroup\endR\egroup\fi
16947         }%
16948         \UseTaggingSocket{tbl/longtable/foot}

```



```

16949 \makecol
16950 \outputpage
16951 \global\size\colroom
16952 \copy\LT@head\nobreak
16953 \fi}

```

112 File `lscape-xetex-bidi.def`

```

16954 \ProvidesFile{lscape-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscape package for
16955 \RequirePackage{graphicx}
16956 \bidi@patchcmd{\LS@rot}{\rotatebox{90}}{\box\@outputbox}}{%
16957 \if@RTL
16958 \rotatebox[origin=br]{-90}{\box\@outputbox}%
16959 \else
16960 \rotatebox{90}{\box\@outputbox}%
16961 \fi
16962 }{}{}
16963
16964 \g@addto@macro{\landscape}{%
16965 \if@bidi@csdef{bidi@columnwidth}{%
16966 \bidi@columnwidth\columnwidth
16967 }{}%
16968 \let\bidi@left@footnoterule\left@footnoterule
16969 \let\bidi@right@footnoterule\right@footnoterule
16970 \def\left@footnoterule{%
16971 \if@RTL
16972 \bidi@right@footnoterule
16973 \else
16974 \bidi@left@footnoterule
16975 \fi
16976 }%
16977 \def\right@footnoterule{%
16978 \if@RTL
16979 \bidi@left@footnoterule
16980 \else
16981 \bidi@right@footnoterule
16982 \fi
16983 }%
16984 }

```

113 File `mathtools-xetex-bidi.def`

```

16985 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools packa
16986 \RequirePackage{graphicx}
16987 \MHInternalSyntaxOn
16988 \def\MT_define_tagform:nwnn #1[#2]#3#4{
16989 \namedef{MT_tagform_#1:n}##1
16990 {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@ \ignorespaces#2{##1}\unskip\@italiccorr#4}
16991 }
16992 \renewtagform{default}{\{()\}}
16993 \MHInternalSyntaxOff

```

114 File `mdframed-xetex-bidi.def`



```

16994 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package]
16995 \newif\if@bidi@mdf@RTL
16996 \def\mdf@lrbox#1{%
16997   \mdf@patchamsthm%patch amsthm
16998   \if@RTL\@bidi@mdf@RTLtrue\fi%
16999   \@RTLfalse%
17000 \setbox#1\vbox\bgroup%
17001   \color@begingroup%
17002   \if@bidi@mdf@RTL\@RTLtrue\fi%
17003   \mdf@horizontalmargin@equation%
17004   \columnwidth=\hsize%
17005   \textwidth=\hsize%
17006   \let\if@nobreak\iffalse%
17007   \let\if@noskipsec\iffalse%
17008   \let\par\@@par%
17009   \let\-\@dischph%
17010   \let'\@acci\let'\@accii\let\=\@acciii%
17011   \parindent\z@ \parskip\z@skip%
17012   \linewidth\hsize%
17013   \@totalleftmargin\z@%
17014   \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
17015   \parfillskip\@flushglue \lineskip\normallineskip%
17016   \baselineskip\normalbaselineskip%
17017 %% \sloppy%
17018 \let\\\@normalcr%
17019 \mdf@par@local%New feature to restore parskip/parindent local in save box
17020 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
17021 \@afterindentfalse%
17022 %\@afterheading%
17023 }
17024 \renewrobustcmd\mdfframedtitleenv[1]{%
17025   \mdf@lrbox{\mdf@frametitlebox}%
17026   \mdf@frametitlealignment%
17027   \leavevmode{\color{\mdf@frametitlefontcolor}%
17028     \normalfont\mdf@frametitlefont{#1}
17029     \ifbool{mdf@ignorelastdescenders}%
17030       {%
17031         \par\strut\par
17032         \unskip\unskip\setbox0=\lastbox
17033         \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
17034       }{}}%
17035   \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
17036   \endmdf@lrbox\relax%
17037   \mdf@ignorevbadness%
17038   \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
17039   \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
17040   \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
17041   \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
17042   \mdfframetitleboxtotalheight=\dimexpr
17043     \ht\mdf@frametitlebox
17044     +\dp\mdf@frametitlebox%
17045     +\mdf@frametitleaboveskip@length
17046     +\mdf@frametitlebelowskip@length
17047     \relax%

```



```

17048 }
17049
17050 \renewrobustcmd*\mdf@footnoteoutput{%
17051     \ifvoid\@mpfootins\else%
17052         \nobreak%
17053         \vskip\mdf@footnotedistance@length%
17054         \normalcolor%
17055         \bidi@mpfootnoterule%
17056         \unvbox\@mpfootins%
17057     \fi%
17058 }
17059
17060
17061 \renewrobustcmd*\mdf@footnoteinput{%
17062     \def\@mpfn{\mpfootnote}%
17063     \def\thempfn{\thempfootnote}%
17064     \c@mpfootnote\z@%
17065     \let\@footnotetext\@mpfootnotetext%
17066     \let\@LTRfootnotetext\@mpLTRfootnotetext%
17067     \let\@RTLfootnotetext\@mpRTLfootnotetext%
17068 }

```

115 File media9-xetex-bidi.def

```

17069 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package for
17070 \RequirePackage{bidi-media9}

```

116 File bidi-media9.sty

```

17071 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
17072 {bidi fixes for media9 package for the XeTeX engine}
17073
17074 \keys_define:nn{media9/mbtn}{
17075     draft .code:n = {},
17076     final .code:n = {},
17077
17078     tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
17079     tooltip .value_required:n = {true},
17080
17081     overface .code:n = {
17082         \sbox\l_mix_poster_box{
17083             \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
17084             \mix_pdfxform:n{\l_mix_poster_box}
17085             \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
17086         },
17087     overface .value_required:n = {true},
17088
17089     downface .code:n = {
17090         \sbox\l_mix_poster_box{
17091             \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
17092             \mix_pdfxform:n{\l_mix_poster_box}
17093             \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
17094         },
17095     downface .value_required:n = {true},

```




```

17096
17097 3Dgotoview .code:n = {
17098   \tl_set:Nx\l_tmpa_tl{#1}           %extract ref
17099   \regex_replace_once:nnN{([~:]+):??.*}{\1}\l_tmpa_tl
17100   \tl_trim_spaces:N\l_tmpa_tl
17101   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17102     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17103       \tl_set:Nx\l_tmpb_tl{#1}         %extract idx
17104       \regex_replace_once:nnN{[~:]+:?.*}{\1}\l_tmpb_tl
17105       \tl_trim_spaces:N\l_tmpb_tl
17106       \tl_if_blank:VF\l_tmpb_tl{
17107         \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
17108           \tl_set:Nx\l_mix_vidx_tl{/\l_tmpb_tl}
17109         }{
17110           \regex_match:nVTF{^~\d+$}\l_tmpb_tl{
17111             \tl_set:Nx\l_mix_vidx_tl{~\l_tmpb_tl}
17112           }{
17113             \regex_replace_once:nnN{^~(\s*)}{\1}\l_tmpb_tl
17114             \regex_replace_once:nnN{(\s*)$}{\1}\l_tmpb_tl
17115             \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
17116           }
17117         }
17118       }
17119       \mix_pdfobj:nnn{}{dict}{
17120         /S/JavaScript/JS~(
17121           if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17122           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17123             annotRM['\l_tmpa_tl']=
17124               this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17125           }
17126           annotRM['\l_tmpa_tl'].activated=true;
17127         )
17128         \tl_if_blank:VF\l_tmpb_tl{
17129           /Next~<<
17130           /S/GoTo3DView
17131           /TA~\tl_use:c{ann@\l_tmpa_tl}
17132           /V\l_mix_vidx_tl
17133           >>
17134         }
17135       }
17136       \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17137     }
17138   }{
17139     \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
17140     \cs_if_exist:NF\g_mix_refundefwarned_tl{
17141       \tl_new:N\g_mix_refundefwarned_tl
17142       \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
17143     }
17144   }
17145 },
17146 3Dgotoview .value_required:n = {true},
17147
17148 mediacommand .code:n = {
17149   \tl_set:Nx\l_tmpa_tl{#1}

```



```

17150 \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpa_tl %extract ref
17151 \tl_trim_spaces:N\l_tmpa_tl
17152 \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17153   \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17154     \tl_set:Nx\l_tmpb_tl{#1}
17155     \regex_replace_once:nnN{[~:~]+:~?}{\1}\l_tmpb_tl
17156     \tl_trim_spaces:N\l_tmpb_tl
17157     \regex_replace_all:nnN{^~\{~\}$}{\1}\l_tmpb_tl
17158     \tl_set:Nx\l_mix_cmd_tl{
17159       \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
17160     \tl_trim_spaces:N\l_mix_cmd_tl
17161     \tl_set:Nx\l_mix_arg_tl{
17162       \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
17163     \tl_trim_spaces:N\l_mix_arg_tl
17164     \mix_pdfobj:nnn{}{dict}{
17165       /S/JavaScript/JS~(
17166         if(typeof(annotRM)=='undefined'){annotRM=new-Array();}
17167         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17168           annotRM['\l_tmpa_tl']=
17169             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17170         }
17171         annotRM['\l_tmpa_tl'].activated=true;
17172       )
17173       \tl_if_blank:VF\l_mix_cmd_tl{
17174         /Next~<<
17175         /S/RichMediaExecute
17176         /TA~\tl_use:c{ann@\l_tmpa_tl}
17177         /TI~\tl_use:c{main@\l_tmpa_tl}
17178         /CMD~<<
17179         /C~(\l_mix_cmd_tl)
17180         \tl_if_blank:VF\l_mix_arg_tl{
17181           /A~[\l_mix_arg_tl]
17182         }
17183         >>
17184         >>
17185       }
17186     }
17187     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17188   }
17189 }{
17190   \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17191   \cs_if_exist:NF\g_mix_refundefwarned_tl{
17192     \tl_new:N\g_mix_refundefwarned_tl
17193     \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17194   }
17195 }
17196 },
17197 mediacommand .value_required:n = {true},
17198
17199 jsaction .code:n = {
17200   \tl_set:Nx\l_tmpa_tl{#1}
17201   \regex_match:nVTF{^[^~:~]+:~.*$}\l_tmpa_tl{
17202     \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpa_tl %extract ref
17203     \tl_trim_spaces:N\l_tmpa_tl

```



```

17204   }\tl_clear:N\l_tmpa_tl}
17205   \tl_set:Nx\l_tmpb_tl{#1}
17206   \tl_if_blank:VF\l_tmpa_tl{
17207     \tl_if_exist:cF{ann@\l_tmpa_tl}{
17208       \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17209       \cs_if_exist:NF\g_mix_refundefwarned_tl{
17210         \tl_new:N\g_mix_refundefwarned_tl
17211         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17212       }
17213     }
17214     \regex_replace_once:nnN{[^\:]+\:}{\l_tmpb_tl
17215   }
17216   \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
17217   \tl_trim_spaces:N\l_tmpb_tl
17218   \tl_if_blank:VF\l_tmpb_tl{
17219     \mix_pdfobj:nnn{}{dict}{
17220       /S/JavaScript/JS~(
17221         try{\l_tmpb_tl}catch(e){console.show();console.println(e)}}}
17222     \bool_lazy_and:nnT{
17223       \tl_if_exist_p:c{ann@\l_tmpa_tl}
17224     }{
17225       !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17226     }{
17227       \mix_pdfobj:nnn{}{dict}{
17228         /S/JavaScript/JS~(
17229           if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17230           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17231             annotRM['\l_tmpa_tl']=
17232               this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17233           }
17234           annotRM['\l_tmpa_tl'].activated=true;
17235         )
17236         \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
17237       }
17238     }
17239     \bool_if:nT{
17240       \bool_lazy_and_p:nn{
17241         \tl_if_exist_p:c{ann@\l_tmpa_tl}
17242       }{
17243         !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17244       }
17245       || !\tl_if_blank_p:V\l_tmpb_tl
17246     }{
17247       \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17248     }
17249   },
17250   jsaction .value_required:n = {true},
17251
17252   unknown .code:n = {
17253     \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
17254   }
17255 }
17256
17257 \RenewDocumentCommand\includemedia{0{}mm}{\%#1 options, #2 text/image #3 media file

```



```

17258 \mix_uriend:
17259 \group_begin:
17260 \mix_beginLTR:
17261 \mode_leave_vertical:
17262 %empty stream as appearance dummy
17263 \cs_if_exist:NF\g_mix_appearance_tl{
17264   \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
17265   \mix_pdfxform:n{\l_mix_poster_box}
17266   \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
17267 }
17268 \mix_reset:
17269 \mix_uribegin: %treat URI characters correctly
17270 \keys_set:nn{media9/user}{#1}
17271 \mix_uriend:
17272 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
17273 \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
17274 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~={}{=}
17275 \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
17276 \tl_gtrim_spaces:N\g_mix_flashvars_tl
17277
17278 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
17279
17280 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
17281 %\hbox_set:Nn\l_mix_poster_box{#2}
17282 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17283 \mix_scale:n{\l_mix_poster_box}
17284 \bool_if:nT{
17285   \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
17286   \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
17287 }{
17288   \tl_gset:Nn\g_mix_usrpbtn_tl{none}
17289 }
17290 \bool_if:NTF\g_mix_usrdraft_bool{
17291   \tl_if_empty:NF\g_mix_usrlabel_tl{
17292     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
17293   }
17294   \tl_if_blank:oTF{#2}{
17295     \mix_uribegin: %treat URI characters correctly
17296     \mix_draftbox:n{\tl_to_str:n{#3}}
17297     \mix_uriend:
17298   }{
17299     \hbox_to_wd:nn{\g_mix_wd_tl}{
17300       \vrule-width~\c_zero_dim-height~\g_mix_ht_tl-depth~\g_mix_dp_tl
17301       \box_use:N\l_mix_poster_box\hss
17302     }
17303   }
17304 }{
17305   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
17306     %attach script that switches off play button overlay upon activation
17307     \mix_pdfobj:nnn{}{stream}{
17308       }{
17309         var~ocgs=host.getOCGs(host.pageNum);
17310         for(var~i=0;i<ocgs.length;i++){
17311           if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){

```



```

17312         ocs[i].state=false;
17313     }
17314 }
17315 }
17316 }
17317 \mix_pdfobj:nnn{}{dict}{
17318     /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
17319 }
17320 \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
17321 \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
17322 %enforce plain playbutton overlay for XeTeX
17323 \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
17324 }
17325 %embed main asset
17326 \mix_uribegin:
17327 \mix_embedasset:n{#3}
17328 \bool_if:nTF{
17329     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
17330 }{
17331     \bool_gset_true:N\g_mix_iiid_bool
17332     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
17333 }{
17334     \str_case_e:nnF{\l_mix_base_tl}{
17335         {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17336         {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17337         {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17338         {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17339         {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17340     }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
17341 }
17342 \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
17343 \mix_uriend:
17344 %secondary assets (added by addresource)
17345 \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
17346 \seq_map_inline:Nn\g_mix_script_seq{
17347     \mix_embedasset:n{##1}
17348     \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
17349 }
17350 %attach 3D calculation script
17351 \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
17352     \mix_embedasset:n{3Dmenu.js}
17353     \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
17354 }
17355 %create 3D views from file (option 3Dviews)
17356 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
17357     \tl_set:Nn\l_mix_level_tl{-1}
17358     \int_zero:N\l_mix_viewcnt_int
17359     \int_zero:N\l_mix_lineno_int
17360
17361     \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
17362     \ior_map_inline:Nn\l_mix_vfile_stream{
17363         \int_incr:N\l_mix_lineno_int
17364         \keys_set:nn{media9/views}{##1} %process input line
17365     }

```



```

17366     \ior_close:N\l_mix_vfile_stream
17367 }
17368 \bool_if:nT{ %create default 3D view if required
17369     \g_mix_iiid_bool &&
17370     (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
17371 }{
17372     \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
17373     \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
17374     \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
17375     \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
17376     \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
17377     \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
17378     \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
17379
17380     \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
17381     \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
17382     \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
17383     \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
17384
17385     \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
17386     \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
17387     \tl_clear:N\l_mix_naarray_tl
17388
17389     \bool_if:NF\l_mix_ciiw_bool{
17390         \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
17391         \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
17392     }
17393
17394     \tl_clear:N\l_mix_naarray_tl
17395     \tl_clear:N\l_mix_saarray_tl
17396     \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
17397
17398     \mix_view:n{Default}
17399     \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
17400
17401 }
17402 \mix_pdfobj:nnn{}{dict}{
17403     /Type/RichMediaInstance
17404     /Subtype/\g_mix_mainassetsub_tl
17405     /Asset~\g_mix_mainasset_tl
17406     \bool_if:NF\g_mix_iiid_bool{
17407         /Params~<<
17408         /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
17409             /Foreground
17410         }{
17411             /Background
17412         }
17413         \tl_if_blank:VF\g_mix_flashvars_tl{
17414             /FlashVars~(\g_mix_flashvars_tl)
17415         }
17416         >>
17417     }
17418 }
17419 \tl_if_empty:NF\g_mix_usrlabel_tl{

```



```

17420     \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
17421 }
17422 \mix_pdfobj:nnn{}{dict}{
17423   /Type/RichMediaConfiguration
17424   /Subtype/\g_mix_mainassetsub_tl
17425   /Instances~[\mix_pdflastobj:]
17426 }
17427 \mix_pdfobj:nnn{}{dict}{
17428   /Type/RichMediaContent
17429   /Assets~<</Names~[\g_mix_assets_tl]>>
17430   /Configurations~[\mix_pdflastobj:]
17431   \bool_if:nT{
17432     \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
17433   }{
17434     /Views~[\l_mix_iiidviewarray_tl]
17435   }
17436 }
17437 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
17438 \bool_if:nT{
17439   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
17440 }{
17441   \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
17442 }
17443 %determine floating window size
17444 \bool_if:NT\g_mix_opt_windowed_bool{
17445   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
17446 }
17447 \mix_pdfobj:nnn{}{dict}{
17448   /Activation~<<
17449   /Condition\g_mix_act_tl
17450   \bool_if:nT{
17451     \g_mix_iiid_bool &&
17452     !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
17453   }{ %seems to work only with 3D content
17454     /Animation~<<
17455     /Subtype/\g_mix_playtpe_tl
17456     /PlayCount~\g_mix_playcnt_tl
17457     /Speed~\g_mix_playspd_tl
17458     >>
17459   }
17460   \bool_if:nT{
17461     \g_mix_iiid_bool && (
17462       \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
17463     )
17464   }{ /View~\l_mix_dfltview_tl}
17465   /Presentation~<<
17466   /Transparent~\g_mix_transp_tl
17467   \bool_if:NTF\g_mix_opt_windowed_bool{
17468     /Style/Windowed
17469     /Window~<<
17470     /Width~<</Default~\tl_mix_fltd>>
17471     /Height~<</Default~\tl_mix_fltht>>
17472     /Position~<<
17473     /HOffset~0/VOffset~0

```



```

17474         \str_case_e:nnF{\g_mix_winpos_tl}{
17475             {tl}{/VAlign/Near/HAlign/Near}
17476             {cl}{/VAlign/Center/HAlign/Near}
17477             {bl}{/VAlign/Far/HAlign/Near}
17478             {bc}{/VAlign/Far/HAlign/Center}
17479             {br}{/VAlign/Far/HAlign/Far}
17480             {cr}{/VAlign/Center/HAlign/Far}
17481             {tr}{/VAlign/Near/HAlign/Far}
17482             {tc}{/VAlign/Near/HAlign/Center}
17483         }{/HAlign/Center/VAlign/Center}
17484     >>
17485     >>
17486     }{
17487         /Style/Embedded
17488     }
17489     \bool_if:NTF\g_mix_iiid_bool{
17490         /Toolbar~\g_mix_tools_tl
17491         /NavigationPane~\g_mix_nav_tl
17492     }{
17493         /PassContextClick~\g_mix_contextclick_tl
17494     }
17495     >>
17496     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
17497     >>
17498     /Deactivation~<</Condition\g_mix_deact_tl>>
17499 }
17500 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
17501 \tl_if_empty:NF\g_mix_usrlabel_tl{
17502     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
17503 }
17504 % #1:width, #2:height, #3:depth, #4:content (key-value)
17505 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
17506     /Subtype/RichMedia
17507     /F~4
17508     /BS~<</W~0/S/S>>
17509     /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
17510     /NM~(\g_mix_label_tl)
17511     /AP~<</N~\g_mix_appearance_tl>>
17512     /RichMediaSettings~\l_mix_settings_tl
17513     /RichMediaContent~\l_mix_content_tl
17514 }
17515 \tl_if_empty:NF\g_mix_usrlabel_tl{
17516     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
17517     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
17518         \noexpand\the\g@mix@page@int}
17519 }
17520 \mix_pdfobj:nnn{}{dict}{
17521     /S/JavaScript/JS~(
17522         try{
17523             if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17524             if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
17525                 annotRM['\g_mix_label_tl']=
17526                 this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
17527             }

```




```

17528     \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
17529         if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
17530             var~ocgs=this.getOCGs(this.pageNum);
17531             for(var~i=0;i<ocgs.length;i++){
17532                 if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
17533                     var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
17534                 }
17535             }
17536         }
17537         if(
17538             !annotRM['\g_mix_label_tl'].activated&&(
17539                 app.viewerType=='Reader' ||
17540                 app.viewerType=='Exchange' ||
17541                 app.viewerType=='Exchange-Pro'
17542             )&&app.viewerVersion>=9
17543         ){
17544             ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
17545         }
17546     }
17547     }catch(e){}
17548     this.dirty=false;
17549 )
17550 }
17551 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
17552     /Subtype/Widget
17553     /FT/Btn/Ff~65537/F~2
17554     /BS~<</W~0>>
17555     /T~(fd@\g_mix_label_tl)
17556     /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
17557 }
17558 \mix_appendtofields:n{\mix_pdflastann:}
17559 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
17560 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
17561     \hbox_to_wd:nn{\g_mix_wd_tl}{
17562         \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
17563     }
17564 }{%insert play button overlay
17565     \mix_insert_btnocg: %create OCG
17566     \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
17567     \group_begin:
17568     \cs_if_exist:NT\textdir{\textdir TLT}
17569     \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
17570     \box_move_down:nn{\g_mix_dp_tl}{
17571         \hbox_to_wd:nn{\g_mix_wd_tl}{
17572             \vbox_to_ht:nn{\g_mix_tt_tl}{
17573                 \vss
17574                 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
17575                 \box_use:N\l_mix_pbtn_box
17576                 \ocgbase_oc_emc:
17577             }
17578         }
17579     }
17580     \group_end:
17581 }

```



```

17582 \int_gincr:N\g_mix_rmcnt_int
17583 }
17584 \mix_endLTR:
17585 \group_end:
17586 }
17587 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
17588 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
17589
17590 \RenewDocumentCommand\mediabutton{0{ }m}{%#1 options, #2 normal button text
17591 \mix_urriend:
17592 \group_begin:
17593 \mix_beginLTR:
17594 \mode_leave_vertical:
17595 %reset various variables
17596 \tl_gclear:N\g_mix_overbtn_tl
17597 \tl_gclear:N\g_mix_downbtn_tl
17598 \tl_gclear:N\g_mix_btnactions_tl
17599 \tl_gclear:N\g_mix_tooltip_tl
17600 %process options
17601 \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
17602 \mix_uribegin: %treat URI characters correctly
17603 \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
17604 \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
17605 \mix_urriend:
17606 %normal button appearance
17607 %\hbox_set:Nn\l_mix_poster_box{#2}
17608 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17609 \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
17610 \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
17611 \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
17612 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
17613 \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{
17614 \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
17615 \mix_pdfxform:n{\l_mix_poster_box}
17616 \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
17617 %insert widget annotation
17618 \mix_pdfannot:nnnn{\width}{\height}{\depth}{
17619 /Subtype/Widget
17620 /T~(mbtn@int_use:N\g_mix_mbtncnt_int)
17621 \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
17622 /FT/Btn/Ff~65536
17623 \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
17624 /AP~<<
17625 /N~\g_mix_normalbtn_tl
17626 \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
17627 \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
17628 >>
17629 /MK~<<
17630 /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
17631 /I~\g_mix_normalbtn_tl
17632 \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
17633 \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
17634 >>
17635 /A~<<

```



```

17636      /S/JavaScript/JS~(app.focusRect=false;)
17637      %sequence of actions to perform
17638      \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
17639      >>
17640    }
17641    \mix_appendtofields:n{\mix_pdflastann:}
17642    \hbox_to_wd:nn{\width}{
17643      \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
17644    }
17645    \int_gincr:N\g_mix_mbtncnt_int
17646  }
17647  \mix_endLTR:
17648  \group_end:
17649 }
17650 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
17651 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
17652

```

117 File memoir-xetex-bidi.def

```

17653 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for Xe
17654 \renewcommand{\keepthetitle}{%
17655   \@bsmtitleempty
17656   \global\let\thanks\relax
17657   \global\let\LTRthanks\relax
17658   \global\let\RTLthanks\relax
17659   \global\let\and\relax
17660   \global\let\andnext\relax
17661   \global\let\@thanks\@empty
17662   \global\let\@title\@empty
17663   \global\let\@author\@empty
17664   \global\let\@date\@empty}
17665 \renewcommand{\maketitle}{\par
17666   \begingroup
17667     \@bsmarkseries
17668     \def\@makefnmark{\@textsuperscript{%
17669       \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}%
17670     \long\def\@makefntext##1{\makethanksmark ##1}
17671     \if@twocolumn
17672       \ifnum \col@number=\@ne
17673         \@maketitle
17674       \else
17675         \twocolumn[\@maketitle]%
17676       \fi
17677     \else
17678       \ifdim\pagetotal>\z@
17679         \newpage
17680       \fi
17681       \global\@topnum\z@
17682       \@maketitle
17683     \fi
17684     \thispagestyle{title}\@thanks
17685   \endgroup
17686   \@bscontmark % \setcounter{footnote}{0}%

```



```

17687 }
17688 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
17689 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
17690 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
17691 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
17692 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
17693 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
17694 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
17695 \renewcommand*{\thesubsection}{\%
17696 \thesection\@SepMark\@arabic\c@subsection}
17697 \renewcommand*{\thesubsubsection}{\%
17698 \thesubsection\@SepMark\@arabic\c@subsubsection}
17699 \renewcommand*{\theparagraph}{\%
17700 \thesubsubsection\@SepMark\@arabic\c@paragraph}
17701 \renewcommand*{\thesubparagraph}{\%
17702 \theparagraph\@SepMark\@arabic\c@subparagraph}
17703 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
17704 \renewcommand{\theequation}{\%
17705 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
17706 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
17707 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
17708 \ifartopt
17709 \chapterstyle{article}
17710 \counterwithout{figure}{chapter}
17711 \counterwithout{table}{chapter}
17712 \counterwithout{footnote}{chapter}
17713 \counterwithout{equation}{chapter}
17714 \renewcommand{\chaptername}{}
17715 \renewcommand{\maketitlehookb}{\%
17716 \vskip -1.5\topsep\vskip -1.5\partopsep}
17717 \renewcommand{\maketitlehookc}{\%
17718 \vskip -1.5\topsep\vskip -1.5\partopsep}
17719 \fi
17720 \long\def\@makecaption#1#2{\let\@memtempa\relax
17721 \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
17722 \else \def\@memtempa{\vbox to\topskip{}}\fi
17723 \let\@contfnote\footnote \renewcommand{\footnote}[2]{}{}
17724 \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1]{}{}
17725 \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
17726 \let\footnote\@contfnote
17727 \let\footnotemark\@contfmark
17728 \ifdim\wd\@tempboxa<\linewidth \centering \fi
17729 \if@contcw
17730 \centering
17731 \parbox{\@contcwidth}{\%
17732 \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
17733 \fi
17734 \ifdim\wd\@tempboxa<\linewidth
17735 \@contpre
17736 {\@contnfont #1\@contdelim}\@memtempa
17737 {\@contcshortstyle \@conttfont #2\@contfinal}\par}
17738 \else
17739 \if@conthang
17740 \sbox\@tempboxa{\@contnfont #1\@contdelim}

```



```

17741 \contpre%
17742 {\@contcstyle\hangindent=\wd\@tempboxa
17743 \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
17744 \else
17745 \if@contindent
17746 \contpre%
17747 {\@contnfont #1\@contdelim}\@memtempa
17748 {\@contcstyle\hangindent=\@contindw
17749 \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4
17750 \else
17751 \contpre%
17752 {\@contnfont #1\@contdelim}\@memtempa
17753 {\@contcstyle \@conttfont #2\@contfinal\par}
17754 \fi
17755 \fi
17756 \fi
17757 \@contpost
17758 \if@contcw
17759 \par
17760 } % end of the \parbox
17761 \fi
17762 \vskip\belowcaptionskip}
17763 \ApplyPatchCodeToPackage{caption}{%
17764 \AtBeginPackage{caption}{
17765 \ClassWarningNoLine{memoir}{%
17766 You are using the caption package with the memoir \MessageBreak
17767 class. This may cause unexpected or inconsistent \MessageBreak
17768 results if you use any of memoir's captioning facilities}
17769 }
17770 \long\def\@makecaption##1##2{%
17771 \vskip\abovecaptionskip
17772 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
17773 \ifdim \wd\@tempboxa >\hsize
17774 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
17775 \else
17776 \global \@minipagefalse
17777 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
17778 \fi
17779 \vskip\belowcaptionskip}
17780
17781 \def\caption{%
17782 \ifx\@cuptype\@undefined
17783 \@latex@error{\noexpand\caption outside float}\@ehd
17784 \expandafter\@gobble
17785 \else
17786 \refstepcounter\@cuptype
17787 \expandafter\@firstofone
17788 \fi
17789 {\@dblarg{\@caption\@cuptype}}}%
17790 }
17791
17792 \long\def\caption##1[##2]##3{%
17793 \par
17794 \addcontentsline{\csname ext@##1\endcsname}{##1}%

```



```

17795   {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
17796 \begingroup
17797   \@parboxrestore
17798   \if@minipage
17799     \@setminipage
17800   \fi
17801   \normalsize
17802   \@makecaption{\csname fnum##1\endcsname}{\ignorespaces ##3}\par
17803 \endgroup}
17804 }}
17805 \renewenvironment{thebibliography}[1]{%
17806 \bibsection
17807 \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17808 \bidi@thebibliography@font@hook%
17809 \begin{bibitemlist}{#1}}{\end{bibitemlist}}\postbibhook}

```

118 File midfloat-xetex-bidi.def

```

17810 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
17811 \def\RTL@outputdblcol{%
17812 \if@firstcolumn
17813   \global \@firstcolumnfalse
17814   \global\setbox\@leftcolumn\copy\@outputbox
17815   \splitmaxdepth\maxdimen
17816   \vbadness\maxdimen
17817   \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17818   \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17819   \toks@\expandafter{\topmark}%
17820   \xdef\@firstcoltopmark{\the\toks@}%
17821   \toks@\expandafter{\splitfirstmark}%
17822   \xdef\@firstcolfirstmark{\the\toks@}%
17823   \ifx\@firstcolfirstmark\@empty
17824     \global\let\@setmarks\relax
17825   \else
17826     \gdef\@setmarks{%
17827       \let\firstmark\@firstcolfirstmark
17828       \let\topmark\@firstcoltopmark}%
17829   \fi
17830   \global\c@colht\@colht\global\c@addvipersep\z@
17831   \ifnum\jua@sk>0
17832     \remove@strip\jua@sar
17833     \global\@colht\the\jua@pr
17834     \ifdim\right@cor>\z@
17835       \global\advance\@colht by\right@cor
17836     \fi
17837     \global\advance\@colht by\cor@height
17838     \global\cor@height=0pt
17839   \fi
17840   \global\setbox\@rightcolumn\vbox{%
17841 \else
17842   \ifdim\c@colht>\@colht
17843     \@tempdima\@colht
17844     \ifdim\@colht>\z@
17845       \global\setbox\@rightcolumn\vbox{%

```



```

17846         \unvbox\@rightcolumn
17847         \vbox to\@tempdima{%
17848             \vskip\c@addvipersep\unvbox\@outputbox}%
17849         \vskip\stripsep
17850         \vrule height\the\jua@ht width Opt depth Opt
17851         \vskip\stripsep
17852         }%
17853     \global\c@addvipersep\m@addvipersep
17854     \else
17855     \global\setbox\@rightcolumn \vbox{%
17856         \unvbox\@rightcolumn
17857         \vrule height\the\jua@ht width Opt depth Opt
17858         \vskip\stripsep
17859         }%
17860     \fi
17861     \ifnum\jua@sk>0
17862         \remove@strip\jua@sar
17863         \global\@colht\the\jua@pr
17864         \global\advance\@colht by -\ht\@rightcolumn
17865         \global\advance\@colht by\cor@height
17866         \global\cor@height=0pt
17867     \else
17868         \global\advance\c@colht by-\ht\@rightcolumn
17869         \global\@colht\c@colht
17870     \fi
17871 \else
17872 \global\@firstcolumntrue
17873 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17874     \unvbox\@rightcolumn
17875     \vskip\c@addvipersep
17876     \unvbox\@outputbox
17877     }%
17878 \setbox\@outputbox \vbox {%
17879     \hb@xt@\textwidth {%
17880         \hskip \columnwidth
17881         \hfil
17882         \vrule \@width\columnseprule
17883         \hfil
17884         \hb@xt@\columnwidth {%
17885             \bidi@firstcolumn@status@write%
17886             \box\@leftcolumn \hss}%
17887         \hskip-\textwidth
17888         \hb@xt@\columnwidth {%
17889             \bidi@lastcolumn@status@write%
17890             \box\@outputbox \hss}%
17891         \hskip\columnwidth
17892         \hskip\columnsep}%
17893     }%
17894 \@combinedblfloats
17895 \@setmarks
17896 \@outputpage
17897 \begingroup
17898     \@dblfloatplacement
17899     \@startdblcolumn

```



```

17900 \whilesw@if@fcolmade \fi
17901 {\@outputpage
17902 \startdblcolumn}%
17903 \endgroup
17904 \global\jua@sk=0\global\jua@sar={}
17905 \global\cor@height\z@\global\c@addvipersep\z@
17906 \fi
17907 \fi
17908 }
17909
17910
17911 \def\LTR@outputdblcol{%
17912 \if@firstcolumn
17913 \global \@firstcolumnfalse
17914 \global\setbox\@leftcolumn\copy\@outputbox
17915 \splitmaxdepth\maxdimen
17916 \vbadness\maxdimen
17917 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17918 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17919 \toks@\expandafter{\topmark}%
17920 \xdef\@firstcoltopmark{\the\toks@}%
17921 \toks@\expandafter{\splitfirstmark}%
17922 \xdef\@firstcolfirstmark{\the\toks@}%
17923 \ifx\@firstcolfirstmark\@empty
17924 \global\let\@setmarks\relax
17925 \else
17926 \gdef\@setmarks{%
17927 \let\firstmark\@firstcolfirstmark
17928 \let\topmark\@firstcoltopmark}%
17929 \fi
17930 \global\c@colht\@colht\global\c@addvipersep\z@
17931 \ifnum\jua@sk>0
17932 \remove@strip\jua@sar
17933 \global\@colht\the\jua@pr
17934 \ifdim\right@cor>\z@
17935 \global\advance\@colht by\right@cor
17936 \fi
17937 \global\advance\@colht by\cor@height
17938 \global\cor@height=0pt
17939 \fi
17940 \global\setbox\@rightcolumn\vbox{}%
17941 \else
17942 \ifdim\c@colht>\@colht
17943 \@tempdima\@colht
17944 \ifdim\@colht>\z@
17945 \global\setbox\@rightcolumn\vbox{%
17946 \unvbox\@rightcolumn
17947 \vbox to\@tempdima{%
17948 \vskip\c@addvipersep\unvbox\@outputbox}%
17949 \vskip\stripsep
17950 \vrule height\the\jua@ht width 0pt depth 0pt
17951 \vskip\stripsep
17952 }%
17953 \global\c@addvipersep\m@addvipersep

```




```

17954         \else
17955         \global\setbox\@rightcolumn \vbox{%
17956             \unvbox\@rightcolumn
17957             \vrule height\the\jua@ht width Opt depth Opt
17958             \vskip\stripsep
17959         }%
17960     \fi
17961     \ifnum\jua@sk>0
17962         \remove@strip\jua@sar
17963         \global\@colht\the\jua@pr
17964         \global\advance\@colht by -\ht\@rightcolumn
17965         \global\advance\@colht by\cor@height
17966         \global\cor@height=0pt
17967     \else
17968         \global\advance\c@colht by-\ht\@rightcolumn
17969         \global\@colht\c@colht
17970     \fi
17971 \else
17972     \global\@firstcolumntrue
17973     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17974         \unvbox\@rightcolumn
17975         \vskip\c@addvipersep
17976         \unvbox\@outputbox
17977     }%
17978     \setbox\@outputbox \vbox {%
17979         \hb@xt@\textwidth {%
17980             \hb@xt@\columnwidth {%
17981                 \bidi@firstcolumn@status@write%
17982                 \box\@leftcolumn \hss}%
17983             \hfil
17984             \vrule \@width\columnseprule
17985             \hfil
17986             \hb@xt@\columnwidth {%
17987                 \bidi@lastcolumn@status@write%
17988                 \box\@outputbox \hss}%
17989             }%
17990         }%
17991     \@combinedblfloats
17992     \@setmarks
17993     \@outputpage
17994     \begingroup
17995         \@dblfloatplacement
17996         \@startdblcolumn
17997         \@whiles\if@fcolmade \fi
17998         {\@outputpage
17999             \@startdblcolumn}%
18000     \endgroup
18001     \global\jua@sk=0\global\jua@sar={}
18002     \global\cor@height\z@\global\c@addvipersep\z@
18003     \fi
18004 \fi
18005 }
18006
18007

```



```

18008 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
18009 \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
18010 \hspace\textwidth
18011 \@parboxrestore
18012 \col@number \@ne
18013 \vrule height\topskip width0pt depth0pt
18014 }
18015
18016 \def\endstrip{%
18017 \egroup\egroup
18018 \if@firstcolumn
18019 \ifdim\pagetotal>\z@
18020 \vskip\stripsep
18021 \global\ht@strip\pagegoal
18022 \global\advance\ht@strip by-\pagetotal
18023 \global\advance\ht@strip by-\stripsep
18024 \global\advance\ht@strip by-\ht\@viper
18025 \global\advance\ht@strip by-\stripsep
18026 \global\jua@ht=\ht\@viper
18027 \else
18028 \global\ht@strip\z@
18029 \fi
18030 \ifdim\ht@strip>\z@
18031 \unvbox\@viper
18032 \vskip\stripsep
18033 \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
18034 \global\advance\jua@sk by1
18035 \else
18036 \@latex@error{Strip needs more place!}\@ehc
18037 \if@vihproof
18038 \framebox[\columnwidth]{??? Strip ???}%
18039 \fi
18040 \fi
18041 \else
18042 \@latex@error{Strip is used only on left column!}\@ehc
18043 \if@vihproof
18044 \framebox[\columnwidth]{??? Strip ???}%
18045 \fi
18046 \fi
18047 }

```

119 File minitoc-xetex-bidi.def

```

18048 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
18049 \def\@undottedtocline#1#2#3#4#5{%
18050 \ifnum #1>\c@tocdepth\relax \else
18051 \vskip \z@ plus.2\p@
18052 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocmarg
18053 \parindent #2\relax\@afterindenttrue
18054 \interlinepenalty\@M
18055 \leavevmode
18056 \@tempdima #3\relax \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \hbox{}%
18057 \hskip -\if@RTL\righskip\else\leftskip\fi
18058 #4\nobreak\hfill \nobreak

```



```

18059         \null\par}%
18060     \fi}
18061 \def\@Undottedtocline#1#2#3#4#5{%
18062     \ifnum #1>\c@tocdepth\relax \else
18063         \vskip \z@ \@plus.2\p@
18064         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
18065         \parindent #2\relax\@afterindenttrue
18066         \interlinepenalty\@M
18067         \leavevmode
18068         \@tempdima #3\relax
18069         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
18070         {\coffee font #4}\nobreak \nobreak\null
18071         \par}%
18072     \fi}
18073 \def\@Undottedtoclinep#1#2#3#4#5{%
18074     \ifnum #1>\c@tocdepth\relax \else
18075         \vskip \z@ \@plus.2\p@
18076         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
18077         \parindent #2\relax\@afterindenttrue
18078         \interlinepenalty\@M
18079         \leavevmode
18080         \@tempdima #3\relax
18081         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
18082         {#4}\nobreak \hfill \nobreak\null
18083         \hbext@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
18084         \par}%
18085     \fi}

```

120 File multicol-xetex-bidi.def

```

18086 \ProvidesFile{multicol-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for multicol package]
18087 \def\page@sofar{%
18088     \process@cols\mult@rightbox
18089     {\ifvoid\count@
18090         \setbox\count@\hbox to\hsize{}}%
18091     \else
18092         \wd\count@\hsize
18093     \fi}%
18094 \count@\col@number \advance\count@\m@ne
18095 \mult@info\z@
18096 {Column spec: \the\full@width\space = indent
18097     + columns + sep =\MessageBreak
18098     \the\multicol@leftmargin\space
18099     + \the\col@number\space
18100     x \the\hsize\space
18101     + \the\count@\space
18102     x \the\columnsep
18103 }%
18104 \ifvmode\else\errmessage{Multicol Error}\fi
18105 \nointerlineskip
18106 \setbox\z@\hbox{\global\dimen\tw@\dp\z@
18107 \moveright\multicol@leftmargin
18108 \hbox to\full@width{%
18109     \bidi@multicol@align@columns

```



```

18110      \rlap{\phantom p}%
18111    }%
18112    \prevdepth\z@
18113    \kern-\dimen\tw@
18114    \ifdim\dimen\tw@ > \mc@gridwarn
18115      \PackageWarning{multicol}%
18116        {Very deep columns!\MessageBreak
18117          Grid alignment might be broken}%
18118    \fi
18119  }
18120  \def\LTR@column@boxes{%
18121    \process@cols\mult@firstbox{%
18122      \ifdim\dp\count@>\dimen\tw@
18123        \global\dimen\tw@\dp\count@ \fi
18124      \mc@col@status@write
18125      \box\count@
18126      \hss{\columnseprulecolor\vrule
18127        \@width\columnseprule}\hss}%
18128    \ifdim\dp\mult@rightbox>\dimen\tw@
18129      \global\dimen\tw@\dp\mult@rightbox \fi
18130    \mc@lastcol@status@write
18131    \box\mult@rightbox
18132  }
18133
18134  \def\RTL@column@boxes{%
18135    \process@cols\mult@firstbox{%
18136      \hskip\hsize
18137      \hss{\columnseprulecolor\vrule
18138        \@width\columnseprule}\hss
18139    }%
18140    \hskip\hsize
18141    \process@cols\mult@firstbox{%
18142      \ifdim\dp\count@>\dimen\tw@
18143        \global\dimen\tw@\dp\count@ \fi
18144      \hskip-\hsize
18145      \mc@col@status@write
18146      \box\count@
18147      \hskip-\hsize
18148      \hskip-\columnsep
18149    }%
18150    \ifdim\dp\mult@rightbox>\dimen\tw@
18151      \global\dimen\tw@\dp\mult@rightbox \fi
18152    \hskip-\hsize
18153    \mc@lastcol@status@write
18154    \box\mult@rightbox
18155    \hskip-\hsize
18156    \hskip\full@width
18157  }
18158
18159  \newcommand\RTLmulticolcolumns
18160    {\let\bidimulticol@align@columns
18161     \RTL@column@boxes}
18162  \newcommand\LTRmulticolcolumns
18163    {\let\bidimulticol@align@columns

```



```

18164 \LTR@column@boxes}
18165 \newcommand\ bidi@multicol@align@columns
18166 {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
18167 \bidi@AtEndPreamble{%
18168 \if@bidi@csdef{footinsv@l}{%
18169 \def\footnoterule{\kern-3\p@
18170 \hrule \@width \textwidth \kern 2.6\p@}%
18171 }{}%
18172 }
18173 \def\multicols#1{\col@number#1\relax
18174 \ifnum\col@number<\tw@
18175 \PackageWarning{multicol}%
18176 {Using \number\col@number'
18177 columns doesn't seem a good idea.^~J
18178 I therefore use two columns instead}%
18179 \col@number\tw@ \fi
18180 \ifnum\col@number>20
18181 \PackageError{multicol}%
18182 {Too many columns}%
18183 {Current implementation doesn't
18184 support more than 20 columns.%
18185 \MessageBreak
18186 I therefore use 20 columns instead}%
18187 \col@number20 \fi
18188 \ifx\@footnotetext\mult@footnotetext
18189 \else
18190 \let\orig@footnotetext\@footnotetext
18191 \let\@footnotetext\mult@footnotetext
18192 \fi
18193 \ifx\@LTRfootnotetext\mult@LTRfootnotetext
18194 \else
18195 \let\orig@LTRfootnotetext\@LTRfootnotetext
18196 \let\@LTRfootnotetext\mult@LTRfootnotetext
18197 \fi
18198 \ifx\@RTLfootnotetext\mult@RTLfootnotetext
18199 \else
18200 \let\orig@RTLfootnotetext\@RTLfootnotetext
18201 \let\@RTLfootnotetext\mult@RTLfootnotetext
18202 \fi
18203 \@ifnextchar[\mult@cols{\mult@cols[]}]
18204 \long\def\mult@footnotetext#1{\begingroup
18205 \hsize\textwidth
18206 \columnwidth\textwidth
18207 \orig@footnotetext{#1}\endgroup}
18208 \long\def\mult@LTRfootnotetext#1{\begingroup
18209 \hsize\textwidth
18210 \columnwidth\textwidth
18211 \orig@LTRfootnotetext{#1}\endgroup}
18212 \long\def\mult@RTLfootnotetext#1{\begingroup
18213 \hsize\textwidth
18214 \columnwidth\textwidth
18215 \orig@RTLfootnotetext{#1}\endgroup}
18216 \def\right@footnoterule{%
18217 \kern-3\p@

```



```

18218 \nointerlineskip
18219 \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
18220 \kern2.6\p@}
18221 \def\textwidth@footnoterule{\kern-3\p@
18222 \hrule \@width \textwidth \kern 2.6\p@}
18223 \def\bidileave@mult@copyins{%
18224 \advance\dimen@-\skip\@bidi@copyins@
18225 \advance\dimen@-\ht\@bidi@copyins@
18226 }
18227
18228 \bidi@AtEndPreamble{%
18229 \if@bidi@csundef{footinsv@l}{%
18230 \bidi@patchcmd{\multi@column@out}{%
18231 \ifvbox \@kludgeins
18232 }{%
18233 \ifvoid\@bidi@copyins@ \else
18234 \bidileave@mult@copyins
18235 \fi
18236 \ifvbox \@kludgeins
18237 }{}{}%
18238 }{}%
18239 }
18240
18241

```

121 File multienum-xetex-bidi.def

```

18242 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
18243 \renewcommand{\itemx}[1]{\parbox[t]{%
18244 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18245 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
18246 \renewcommand{\itemxxx}[2]{\parbox[t]{%
18247 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18248 \parbox[t]{.5\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18249 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18250 \parbox[t]{0.5\remainxxx}{\bidi@raggedright #2}\smallskip}
18251 \renewcommand{\itemxxxx}[3]{\parbox[t]{%
18252 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18253 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18254 {\labelwidth}{\hfill {\labelname}}\hskip\labelsep%
18255 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]{%
18256 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18257 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
18258 \renewcommand{\itemxxxxx}[4]{\parbox[t]{%
18259 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18260 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18261 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18262 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18263 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18264 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
18265 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18266 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
18267 \renewcommand{\itemxxxxxx}[5]{\parbox[t]{%
18268 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep

```



```

18269 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #1}\hfill%
18270 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18271 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #2}\hfill%
18272 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18273 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #3}\hfill%
18274 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18275 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #4}\hfill%
18276 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18277 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #5}\smallskip}
18278 \renewcommand{\itemxox}[2]{\parbox[t]{%
18279 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18280 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18281 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18282 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
18283 \renewcommand{\itemxxo}[2]{\parbox[t]{%
18284 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18285 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
18286 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18287 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
18288 \renewcommand{\itemxox}[3]{\parbox[t]{%
18289 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18290 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18291 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18292 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18293 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18294 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18295 \renewcommand{\itemxxox}[3]{\parbox[t]{%
18296 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18297 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18298 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18299 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
18300 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18301 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18302 \renewcommand{\itemxxxo}[3]{\parbox[t]{%
18303 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18304 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18305 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18306 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18307 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18308 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

122 File natbib-xetex-bidi.def

```

18309 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
18310 \renewenvironment{thebibliography}[1]{%
18311 \bibsection
18312 \parindent\z@
18313 \bibpreamble
18314 \bibfont
18315 \if@RTL\if@LTR\bibitems\@RTLfalse\else\fi\else\if@RTL\bibitems\@RTLtrue\else\fi\fi
18316 \bidi@@thebibliography@font@hook%
18317 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
18318 \ifNAT@openbib
18319 \renewcommand\newblock{\par}%

```



```

18320 \else
18321 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
18322 \fi
18323 \sloppy\clubpenalty4000\widowpenalty4000
18324 \sfcode`.\@m
18325 \let\NAT@bibitem@first@sw\@firstoftwo
18326 \let\citeN\cite \let\shortcite\cite
18327 \let\citeasnoun\cite
18328 }{%
18329 \bibitem@fin
18330 \bibpostamble
18331 \def\@noitemerr{%
18332 \PackageWarning{natbib}{Empty `thebibliography' environment}%
18333 }%
18334 \endlist
18335 \bibcleanup
18336 }%

```

123 File newfloat-xetex-bidi.def

```

18337 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
18338 \renewcommand*\newfloat@setwithin[2]{%
18339 \ifcsname c@chapter\endcsname
18340 \@removefromreset{#1}{chapter}%
18341 \fi
18342 \@removefromreset{#1}{section}%
18343 \edef\@tempa{#2}%
18344 \ifx\@tempa\@empty
18345 \def\@tempa{none}%
18346 \fi
18347 \def\@tempb{none}%
18348 \ifx\@tempa\@tempb
18349 \ifcsname c@chapter\endcsname
18350 \chapterlistsgap@off{#1}%
18351 \fi
18352 \newfloat@@setwithin{#1}{-}{-}%
18353 \else
18354 \def\@tempb{chapter}%
18355 \ifx\@tempa\@tempb
18356 \@addtoreset{#1}{chapter}%
18357 \@chapterlistsgap@on{#1}%
18358 \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@S
18359 \else
18360 \def\@tempb{section}%
18361 \ifx\@tempa\@tempb
18362 \@addtoreset{#1}{section}%
18363 \ifcsname c@chapter\endcsname
18364 \@addtoreset{#1}{chapter}%
18365 \@chapterlistsgap@on{#1}%
18366 \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
18367 \else
18368 \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection
18369 \fi
18370 \else

```




```

18371      \newfloat@Error{Invalid value `#2' for option `within'}%
18372      \fi
18373    \fi
18374  \fi}

```

124 File `nicematrix-xetex-bidi.def`

```

18375 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix package]
18376 \ExplSyntaxOn
18377 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{%
18378   \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
18379   \@tabarray
18380 }{}{}
18381 \ExplSyntaxOff
18382

```

125 File `ntheorem-xetex-bidi.def`

```

18383 \ProvidesFile{ntheorem-xetex-bidi.def}[2025/10/28 v0.2 bidi adaptations for ntheorem package]
18384 \gdef\@thm#1#2#3{%
18385   \if@thmmarks
18386     \stepcounter{end\InTheoType ctr}%
18387   \fi
18388   \renewcommand{\InTheoType}{#1}%
18389   \if@thmmarks
18390     \stepcounter{curr#1ctr}%
18391     \setcounter{end#1ctr}{0}%
18392   \fi
18393   \refstepcounter{#2}%
18394   \theorem@prework
18395   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
18396   \ifvmode \advance\thm@topsepadd\partopsep\fi
18397   \trivlist
18398   \@topsep \theorempreskipamount
18399   \@topsepadd \thm@topsepadd % used by \@endparenv
18400   \advance\linewidth -\theorem@indent
18401   \advance\@totalleftmargin \theorem@indent
18402   \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18403   \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}
18404
18405 \gdef\@xnthm#1#2[#3]{%
18406   \ifthm@tempif
18407     \expandafter\@ifundefined{c@#1}%
18408     {\@definecounter{#1}}{}%
18409     \@newctr{#1}[#3]%
18410     \expandafter\xdef\csname the#1\endcsname{%
18411       \expandafter\noexpand\csname the#3\endcsname \@thmcountersep
18412       {\noexpand\csname\the\theoremnumbering\endcsname{#1}}}%
18413       \noexpand\csname\the\theoremnumbering\endcsname{#1}}%
18414   \expandafter\gdef\csname mkheader@#1\endcsname
18415     {\csname setparms@#1\endcsname
18416       \@thm{#1}{#1}{#2}}%
18417   \global\@namedef{end#1}{\@endtheorem}\fi}

```



126 File ntheorem-hyper-xetex-bidi.def

```

18418 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-h
18419 \gdef\@thm#1#2#3{%
18420   \if@thmmarks
18421     \stepcounter{end\InTheoType ctr}%
18422   \fi
18423   \renewcommand{\InTheoType}{#1}%
18424   \if@thmmarks
18425     \stepcounter{curr#1ctr}%
18426     \setcounter{end#1ctr}{0}%
18427   \fi
18428   \refstepcounter{#2}%
18429   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
18430   \ifvmode \advance\thm@topsepadd\partopsep\fi
18431   \trivlist
18432   \@topsep \theorempreskipamount
18433   \@topsepadd \thm@topsepadd % used by \@endparenv
18434   \advance\linewidth -\theorem@indent
18435   \advance\@totalleftmargin \theorem@indent
18436   \ifRTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18437   \ifnextchar [\@ythm{#1}{#2}{#3}]{\@xthm{#1}{#2}{#3}}

```

127 File overpic-xetex-bidi.def

```

18438 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
18439 \renewenvironment{overpic}[2][{}]{%
18440   \sbox{\z@}{\includegraphics[#1]{#2}}%
18441   \settodepth{\@tempcnta}{\usebox{\z@}}%
18442   \settoheight{\@tempcntb}{\usebox{\z@}}%
18443   \advance\@tempcntb\@tempcnta%
18444   \settowidth{\@tempcnta}{\usebox{\z@}}%
18445   \setlength{\@tempdima}{\unitlength}%
18446   \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
18447   %
18448   \OVP@calc%
18449   %
18450   \begin{picture}(\@tempcnta,\@tempcntb)%
18451     \ifRTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
18452     \ifGin@grid%
18453       \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18454         \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18455     \fi\fi%
18456     % reset the graphics parameter
18457     \let\Gin@outer@scalex\relax
18458     \let\Gin@outer@scaley\relax
18459     \let\Gin@angle\relax
18460     \let\Gin@ewidth\Gin@exclamation
18461     \let\Gin@eheight\Gin@ewidth
18462     \def\Gin@scalex{1}
18463     \let\Gin@scaley\Gin@exclamation
18464   }{%
18465     \ifRTL\ifGin@grid%
18466       \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%

```



```

18467         \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18468     \fi%
18469     \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
18470 \end{picture}%
18471 }%

```

128 File pdfbase-xetex-bidi.def

```

18472 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
18473 \ExplSyntaxOn
18474 \cs_set_eq:Nn\pbs_outputpage_orig:\@outputpage
18475 \cs_set_nopar:Npn\@outputpage{
18476   \int_gincr:N\g_pbs_page_int
18477   \box_if_vertical:cTF{\outputbox}{
18478     \bool_set_true:N\l_pbs_is_vertical_bool
18479   }{
18480     \bool_set_false:N\l_pbs_is_vertical_bool
18481   }
18482   \hbox_set:Nn\@outputbox{
18483     %begin of page
18484     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
18485     \box_use_drop:N\@outputbox
18486     %end of page
18487     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
18488   }
18489   \bool_if:NT\l_pbs_is_vertical_bool{
18490     \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
18491   }
18492   \pbs_outputpage_orig:
18493 }
18494 \ExplSyntaxOff

```

129 File pdfscape-xetex-bidi.def

```

18495 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape packa
18496 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
18497   \if@RTL
18498     \PLS@Rotate{-90}%
18499   \else
18500     \PLS@Rotate{90}%
18501   \fi
18502 }{}{}

```

130 File pgfcorescopes.code-xetex-bidi.def

```

18503 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
18504 \def\pgfpicture{%
18505   \begingroup%
18506     \ifmmode\else\@RTLfalse\beginL\fi%
18507     \pgfpicturetrue%
18508     \global\advance\pgf@picture@serial@count by1\relax%
18509     \edef\pgfpictureid{\pgfid\the\pgf@picture@serial@count}%
18510     \let\pgf@nodecallback=\pgfutil@gobble%
18511     \pgf@picmaxx=-16000pt\relax%

```



```

18512 \pgf@picminx=16000pt\relax%
18513 \pgf@picmaxy=-16000pt\relax%
18514 \pgf@picminy=16000pt\relax%
18515 \pgf@relevantforpicturesizetrue%
18516 \pgf@resetpathsizes%
18517 \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
18518 \def\endpgfpicture{%
18519     \ifpgfrememberpicturepositiononpage%
18520         \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
18521     \fi%
18522     % ok, now let's position the box
18523     \ifdim\pgf@picmaxx=-16000pt\relax%
18524         % empty picture. make size 0.
18525         \global\pgf@picmaxx=0pt\relax%
18526         \global\pgf@picminx=0pt\relax%
18527         \global\pgf@picmaxy=0pt\relax%
18528         \global\pgf@picminy=0pt\relax%
18529     \fi%
18530     % Shift baseline outside:
18531     \pgf@relevantforpicturesizefalse%
18532     \pgf@process{\pgf@baseline}%
18533     \xdef\pgf@shift@baseline{\the\pgf@y}%
18534     %
18535     \pgf@process{\pgf@trimleft}%
18536     \global\advance\pgf@x by-\pgf@picminx
18537     % prepare \hskip\pgf@trimleft@final.
18538     % note that \pgf@trimleft@final is also queried
18539     % by the pgf image externalization.
18540     \xdef\pgf@trimleft@final{-\the\pgf@x}%
18541     %
18542     \pgf@process{\pgf@trimright}%
18543     \global\advance\pgf@x by-\pgf@picmaxx
18544     % prepare \hskip\pgf@trimright@final.
18545     % note that \pgf@trimright@final is also queried
18546     % by the pgf image externalization.
18547     \xdef\pgf@trimright@final{\the\pgf@x}%
18548     %
18549     \pgf@remember@layerlist@globally
18550     \endgroup%
18551     \hss%
18552     \egroup%
18553     \pgf@restore@layerlist@from@global
18554     \pgf@insertlayers%
18555     \endgroup%
18556     \pgfsys@discardpath%
18557     \endgroup%
18558     \pgfsys@endscope%
18559     \pgfsys@endpicture%
18560     \endgroup%
18561     \hss
18562 \egroup%
18563 \pgfsys@typesetpicturebox\pgfpic%
18564 \ifmmode\else\endL\fi%
18565 \endgroup%

```



18566 }

131 File pgfsys-xetex-bidi.def

```
18567 \ProvidesFile{pgfsys-xetex-bidi.def}[2025/01/05 v0.1 bidi adaptations for pgfsys package for
18568 \def\pgfsys@shadingoutsidepgfpicture#1{%
18569   \beginL#1\endL%
18570 }
18571
18572
```

132 File picinpar-xetex-bidi.def

```
18573 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package
18574 \long\def\@makewincaption#1#2{%
18575   \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
18576   \ifdim\wd\@tempboxa>\picwd
18577     {\footnotesize{\bf #1:\enspace}{#2\par}}
18578   \else
18579     \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
18580   \fi}
18581 \def\endwindow{%
18582   \global\tcd=\tcdsav
18583   \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
18584   \vbadness=10000
18585   \splittopskip=0pt
18586 %
18587 % Typeset the lines above the window
18588 %
18589 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
18590 \tcn=\tcd
18591 \loop\advance\tcn -1
18592 \setbox\fslice=\vsplit\holder to\baselineskip
18593 \prune\fslice\linewidth
18594 \topheight=0pt
18595 \ifnum\dp\fslice>\dp\wstrutbox
18596   \advance\topheight-\dp\fslice
18597   \advance\topheight\dp\wstrutbox
18598   \advance\topheight\ilg\fi
18599 \hbox to\linewidth{\box\fslice}
18600 \vskip-\topheight
18601 \ifdim\ht\holder>0pt\repeat
18602 \fi
18603 %
18604 % Now we build the boxes beside the window
18605 %
18606 \global\topheight=\tcl\baselineskip
18607 \ifnum\cumpartcl>0\global\tcl=\cumtcl
18608   \global\topheight=\vpic
18609 \fi
18610 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
18611 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
18612 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
18613 \tcn=\tcl \na=0 \nb=0
```



```

18614 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
18615 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
18616 \ifnum\br>0\ nb=\tcn\ifnum\bl>0\divide\ nb by 2\fi\fi
18617 \ifnum\ na=0\ifnum\ nb=0
18618     \setbox\waslice=\vbox to\vpic{\vss}
18619     \setbox\wbslice=\vbox to\vpic{\vss}
18620     \bl=1\br=1
18621     \vskip\ilg
18622 \fi\fi
18623 %
18624 % both sides
18625 %
18626 \ifnum\ na>0 \ifnum\ nb>0
18627 \loop\advance\ nb -1
18628 \advance\ na -1
18629 \if@RTL%
18630 \setbox\bslice=\vsplit\holder to\baselineskip
18631 \prune\bslice\rtside
18632 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18633 to\rtside{\box\bslice\hfil}}
18634 \setbox\aslice=\vsplit\holder to\baselineskip
18635 \prune\aslice\lftside
18636 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18637 to\lftside{\box\aslice\hfil}}
18638 \else%
18639 \setbox\aslice=\vsplit\holder to\baselineskip
18640 \prune\aslice\lftside
18641 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18642 to\lftside{\box\aslice\hfil}}
18643 \setbox\bslice=\vsplit\holder to\baselineskip
18644 \prune\bslice\rtside
18645 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18646 to\rtside{\box\bslice\hfil}}
18647 \fi%
18648 \ifnum\ nb>0\repeat
18649 \fi\fi
18650 %
18651 % only text on the left side
18652 %
18653 \ifnum\ na>0
18654     \loop\advance\ na -1
18655     \setbox\aslice=\vsplit\holder to\baselineskip
18656     \prune\aslice\lftside
18657     \setbox\waslice=\vbox{\unvbox\waslice\hbox
18658 to\lftside{\box\aslice\hfil}}
18659     \ifdim\ht\holder>0pt\repeat
18660 \fi
18661 %
18662 % only text on the right side
18663 %
18664 \ifnum\ nb>0
18665     \loop\advance\ nb -1
18666     \setbox\bslice=\vsplit\holder to\baselineskip
18667     \prune\bslice\rtside

```



```

18668 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18669 to\rtside{\box\bslice\hfil}}
18670 \ifdim\ht\holder>0pt\repeat
18671 \fi
18672 %
18673 % fixing the dimensions of the window part
18674 %
18675 \ifnum\bl=0\topheight=\ht\wbslice
18676 \else\ifnum\br=0\topheight=\ht\waslice
18677 \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
18678 \else\topheight=\ht\wbslice\fi\fi\fi
18679 %
18680 % ship out the window material to the main vertical list
18681 %
18682 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
18683 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
18684 \fi\fi\fi
18685 \setbox>windowbox=\vbox{\hbox to\linewidth{%
18686 \ifnum\bl>0\box\waslice\hfil\fi%
18687 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
18688 \vfill\unvbox\picbox%
18689 \ifnum\picwd>0\vfill\fi%
18690 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
18691 \unvbox>windowbox%
18692 \loop
18693 \setbox\bslice=\vsplit\rawtext to\baselineskip
18694 \prune\bslice\linewidth
18695 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
18696 \unvbox\wbslice
18697 \ifdim\ht\rawtext>0pt
18698 \repeat
18699 }% FINITO

```

133 File plain-xetex-bidi.def

```

18700 \def\TeXeTOn{\TeXeTstate=1 }
18701 \def\TeXeTOff{\TeXeTstate=0 }
18702 \TeXeTOn
18703 \def\usebox#1{\leavevmode\copy #1\relax}
18704 \def\bidi@RTL@everypar{\setbox\z@ \lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@
18705 \let\bidi@o@everypar=\everypar
18706 \newtoks\bidi@n@everypar
18707 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
18708 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
18709 \let\everypar=\bidi@n@everypar
18710 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
18711 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
18712 \protected\def\hboxR{\hbox\bgroup
18713 \everyhbox{%
18714 \aftergroup\egroup
18715 \everyhbox}%
18716 \beginR
18717 \@hboxRconstructtrue
18718 \bgroup

```



```

18719 \aftergroup\endR
18720 \aftergroup\egroup
18721 }\hbox}
18722 \protected\def\hboxL{\hbox\bgroup
18723 \everyhbox{%
18724 \aftergroup\egroup
18725 \everyhbox{}}%
18726 \beginL
18727 \@hboxRconstructfalse
18728 \bgroup
18729 \aftergroup\endL
18730 \aftergroup\egroup
18731 }\hbox}
18732 \protected\def\vboxR{\vbox\bgroup
18733 \everyvbox{%
18734 \aftergroup\egroup
18735 \everyvbox{}}%
18736 \@RTLtrue
18737 \bgroup
18738 \aftergroup\egroup
18739 }\vbox}
18740 \protected\def\vboxL{\vbox\bgroup
18741 \everyvbox{%
18742 \aftergroup\egroup
18743 \everyvbox{}}%
18744 \@RTLfalse
18745 \bgroup
18746 \aftergroup\egroup
18747 }\vbox}
18748 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
18749 \def\endLTR{\par}
18750 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
18751 \def\endRTL{\par}
18752 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
18753 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
18754 \let\unsetRTL=\setLTR
18755 \let\unsetLTR=\setRTL
18756 \let\LR=\LRE
18757 \let\RL=\RLE
18758 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
18759 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
18760 \let\@ensure@RL=\@ensure@RTL
18761 \let\@ensure@LR=\@ensure@LTR
18762 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
18763 \let\@ensure@maindir=\@ensure@dir
18764 \def\@RTL{RTL}
18765 \def\@LTR{LTR}
18766 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
18767 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
18768 \let\@TeX\TeX
18769 \def\TeX{\@ensure@LTR{\@TeX}}
18770 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
18771 \dimen@=\dp\@cc1v \unvbox\@cc1v % open up \box255
18772 \ifvoid\footins\else % footnote info is present

```




```

18773 \vskip\skip\footins
18774 \footnoterule
18775 \unvbox\footins\fi
18776 \ifrggedbottom \kern-\dimen@ \vfil \fi
18777 \ifvoid\@bidi@copyins@
18778 \else
18779 \vskip\skip\@bidi@copyins@
18780 \unvbox\@bidi@copyins@
18781 \fi
18782 }
18783 \long\def\bidi@reflect@box#1{%
18784 \leavevmode
18785 \setbox\z@\hbox{{#1}}%
18786 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
18787 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
18788 }
18789 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
18790 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
18791 \let\setRL=\setRTL
18792 \let\setLR=\setLTR
18793 \let\unsetRL=\setLTR
18794 \let\bidi@samed@eqno=\eqno
18795 \let\bidi@samed@leqno=\leqno
18796 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@samed@leqno \else \bidi@samed@eqno \fi}
18797 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@samed@eqno \else \bidi@samed@leqno \fi}
18798 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18799 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18800 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

134 File pstricks-xetex-bidi.def

```

18801 \ProvidesFile{pstricks-xetex-bidi.def}[2025/01/08 v0.7 bidi adaptations for pstricks package]
18802 \bidi@patchcmd\pspicture\beginRgroup{%
18803 \beginRgroup
18804 \ifmmode
18805 \else
18806 \@RTLfalse
18807 \beginL
18808 \fi
18809 }{}{\bidi@warningnoline{0ops! patching `string\pspicture' failed}}
18810
18811 \bidi@patchcmd\endpspicture{%
18812 \endRgroup
18813 \psset[pstricks]{shift=0}% reset value
18814 }{}%
18815 \ifmmode
18816 \else
18817 \endL
18818 \fi
18819 \endRgroup
18820 \psset[pstricks]{shift=0}% reset value
18821 }{}{\bidi@warningnoline{0ops! patching `string\endpspicture' failed}}
18822
18823 \bidi@patchcmd\@scalebox{%

```



```

18824 \special{x: bscale \pst@tempc \pst@tempd}%
18825 \hbox to \z@\box\pst@hbox\hss}%
18826 \special{x: escale}%
18827 }{%
18828 \if@RTL
18829 \special{x: escale}%
18830 \else
18831 \special{x: bscale \pst@tempc \pst@tempd}%
18832 \fi
18833 \hbox to \z@\box\pst@hbox\hss}%
18834 \if@RTL
18835 \special{x: bscale \pst@tempc \pst@tempd}%
18836 \else
18837 \special{x: escale}%
18838 \fi
18839 }{\bidi@warningnoline{Oops! patching `string\@@scalebox' failed}}
18840 \let\ps@@scalebox\@@scalebox
18841

```

135 File quotchap-xetex-bidi.def

```

18842 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
18843 \renewcommand{\qauthor}[1]{%
18844 \par\smallskip
18845 {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\quad\hbox{}\par}\bigskip}
18846 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
18847 {\size@chapter\sectfont\if@RTL\raggedright\else\raggedleft\fi
18848 {\chapnumfont
18849 \ifnum \c@secnumdepth >\m@ne%
18850 \if@mainmatter\thechapter%
18851 \fi\fi
18852 \par\nobreak}%
18853 {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
18854 \nobreak\chapterheadendvskip}}
18855 \renewcommand*{\@iprintcites}{%
18856 \vbox to\z@{\leavevmode\copy\@quotebox\vss}
18857 \global\let\@printcites\relax}

```

136 File ragged2e-xetex-bidi.def

```

18858 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
18859 \renewcommand{\Centering}{%
18860 \ifx\\ \@raggedtwoe@savedcr
18861 \let\\ \@centercr
18862 \fi
18863 \let\@gnewline\@raggedtwoe@gnewline
18864 \if@RTL\rightright\else\leftskip\fi\CenteringLeftskip
18865 \@rightskip\CenteringRightskip
18866 \if@RTL\leftskip\else\rightskip\fi\@rightskip
18867 \parfillskip\CenteringParfillskip
18868 \parindent\CenteringParindent
18869 \@raggedtwoe@spaceskiptrue
18870 \@raggedtwoe@everyselectfont
18871 }

```



```

18872 \renewcommand{\RaggedLeft}{%
18873   \ifx\\ \@raggedtwo@savedcr
18874     \let\\ @centercr
18875   \fi
18876   \let@gnewline \@raggedtwo@gnewline
18877   \if@RTL\righskip\else\leftskip\fi\RaggedLeftLeftskip
18878   \@rightskip\RaggedLeftRightskip
18879   \if@RTL\leftskip\else\rightskip\fi\@rightskip
18880   \parfillskip\RaggedLeftParfillskip
18881   \parindent\RaggedLeftParindent
18882   \@raggedtwo@spaceskiptrue
18883   \@raggedtwo@everyselectfont
18884 }
18885 \renewcommand{\RaggedRight}{%
18886   \ifx\\ \@raggedtwo@savedcr
18887     \let\\ @centercr
18888   \fi
18889   \let@gnewline \@raggedtwo@gnewline
18890   \if@RTL\righskip\else\leftskip\fi\RaggedRightLeftskip
18891   \@rightskip\RaggedRightRightskip
18892   \if@RTL\leftskip\else\rightskip\fi\@rightskip
18893   \parfillskip\RaggedRightParfillskip
18894   \parindent\RaggedRightParindent
18895   \@raggedtwo@spaceskiptrue
18896   \@raggedtwo@everyselectfont
18897 }
18898 \renewcommand{\justifying}{%
18899   \let\\ \@raggedtwo@savedcr
18900   \let@gnewline \@raggedtwo@saved@gnewline
18901   \if@RTL\righskip\else\leftskip\fi\z@
18902   \@rightskip\z@
18903   \if@RTL\leftskip\else\rightskip\fi\@rightskip
18904   \parfillskip\JustifyingParfillskip
18905   \parindent\JustifyingParindent
18906   \@raggedtwo@spaceskipfalse
18907   \@raggedtwo@everyselectfont
18908 }
18909 \def\@raggedtwo@raggedrightboxes@opt{%
18910   \renewcommand{\@arrayparboxrestore}{%
18911     \let\if@nobreak\iffalse
18912     \let\if@noskipsec\iffalse
18913     \let\par\@par
18914     \let\-\@dischph
18915     \let'\@acci\let\` \@accii\let\=\@acciii
18916     \parskip\z@skip
18917     \everypar{}%
18918     \linewidth\hsize
18919     \@totalleftmargin\z@
18920     \if@RTL
18921       \RaggedLeft
18922     \else
18923       \RaggedRight
18924     \fi
18925     \lineskip\normallineskip

```



```

18926 \baselineskip\normalbaselineskip
18927 \sloppy}%
18928 \let\@raggedtwoe@raggedrightboxes@opt\relax
18929 }
18930 \def\@raggedtwoe@document@opt{%
18931 \AtBeginDocument{\@raggedtwoe@abdhook}%
18932 \@raggedtwoe@raggedrightboxes@opt
18933 \@raggedtwoe@footmisctrue
18934 \let\@raggedtwoe@document@opt\relax
18935 }
18936 \def\@raggedtwoe@abdhook{%
18937 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
18938 right to left documents and '\string\RaggedRight' for left
18939 to right documents}%
18940 \if@RTL
18941 \RaggedLeft
18942 \else
18943 \RaggedRight
18944 \fi
18945 \@ifundefined{@tocrmarg}{\edef\@tocrmarg{\@tocrmarg plus 2em}}%
18946 \let\@raggedtwoe@abdhook\relax
18947 }
18948 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
18949 \@raggedtwoe@raggedrightboxes@opt
18950 }{}
18951 \@ifpackagewith{ragged2e}{document}{%
18952 \@raggedtwoe@document@opt
18953 }{}
18954 \let\origin@RaggedLeft=\RaggedLeft
18955 \let\origin@RaggedRight=\RaggedRight
18956 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
18957 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

137 File rapport1-xetex-bidi.def

```

18958 \ProvidesFile{rapport1-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for rapport1 class f
18959 \renewenvironment{theindex}{%
18960 \if@twocolumn
18961 \@restonecolfalse
18962 \else
18963 \@restonecoltrue
18964 \fi
18965 \columnseprule \z@
18966 \columnsep 35\p@
18967 \twocolumn[\@makeschapterhead{\indexname}]%
18968 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
18969 \thispagestyle{plain}\parindent\z@
18970 \parskip\z@ \@plus .3\p@\relax
18971 \let\item\@idxitem
18972 }{%
18973 \if@restonecol\onecolumn\else\clearpage\fi}
18974 \renewcommand*\head@style{%
18975 \interlinepenalty \@M
18976 \hyphenpenalty=\@M \exhyphenpenalty=\@M

```



```

18977 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
18978 \if@titlepage
18979 \renewenvironment{abstract}{%
18980 \titlepage
18981 \null\vfil
18982 \section*{\SectFont\abstractname}%
18983 \noindent\ignorespaces}
18984 {\par\vfil\null\endtitlepage}
18985 \else
18986 \renewenvironment{abstract}{%
18987 \if@twocolumn
18988 \section*{\abstractname}%
18989 \else
18990 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
18991 \section*{\small\SectFont\abstractname}%
18992 \noindent\ignorespaces
18993 \fi}
18994 {\if@twocolumn\else\par\egroup\fi}
18995 \fi
18996 \renewcommand*{\@regtocline[3]}{%
18997 \ifnum #1>\c@tocdepth
18998 \else
18999 \vskip\z@\@plus.2\p@
19000 {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
19001 \if@RTL\rightskip\else\leftskip\fi\unitindent
19002 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
19003 \parfillskip\z@
19004 \@tempdima\unitindent
19005 \parindent\z@
19006 \leavevmode
19007 \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
19008 \hskip 1em \nobreak{\slshape #3}\par
19009 }%
19010 \fi}
19011 \if@oldtoc
19012 \renewcommand*{\l@part[2]}{%
19013 \ifnum \c@tocdepth >-2\relax
19014 \addpenalty{-\@highpenalty}%
19015 \addvspace{2.25em \@plus\p@}%
19016 \begingroup
19017 \setlength{\@tempdima}{3em}%
19018 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19019 \parfillskip -\@pnumwidth
19020 {\leavevmode
19021 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19022 \nobreak
19023 \global\@nobreaktrue
19024 \everypar{\global\@nobreakfalse\everypar{}}%
19025 \endgroup
19026 \fi}
19027 \else
19028 \renewcommand*{\l@part}{%
19029 \ifnum \c@tocdepth >-2\relax
19030 \addpenalty{-\@highpenalty}%

```



```

19031 \addvspace{2.25em \@plus \p@}%
19032 \@regtocline{0}%
19033 \fi}
19034 \fi
19035 \if@oldtoc
19036 \renewcommand*{\l@chapter[2]{%
19037 \addpenalty{-\@highpenalty}%
19038 \vskip 1.0em \@plus\p@
19039 \setlength{\tempdima}{1.5em}%
19040 \begingroup
19041 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19042 \parfillskip -\@pnumwidth
19043 \leavevmode \bfseries
19044 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19045 \hskip -\if@RTL\rightskip\else\leftskip\fi
19046 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19047 \penalty\@highpenalty
19048 \endgroup}
19049 \else
19050 \renewcommand*{\l@chapter{\@regtocline{0}}}
19051 \fi
19052 \renewcommand*{\left@footnoterule{%
19053 \kern-3\p@
19054 \kern.5\baselineskip
19055 \hrule\@width\unitindent
19056 \kern.4\baselineskip
19057 }
19058 \renewcommand*{\right@footnoterule{%
19059 \kern-3\p@
19060 \kern.5\baselineskip
19061 \nointerlineskip
19062 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19063 \kern.4\baselineskip}
19064 \renewenvironment{thebibliography}[1]
19065 {\chapter*{\bibname}%
19066 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19067 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19068 \bidi@thebibliography@font@hook%
19069 \list{\@biblabel{\@arabic\c@enumiv}}%
19070 {\settowidth\labelwidth{\@biblabel{#1}}%
19071 \leftmargin\labelwidth
19072 \advance\leftmargin\labelsep
19073 \openbib@code
19074 \usecounter{enumiv}%
19075 \let\p@enumiv\@empty
19076 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
19077 \sloppy\clubpenalty4000\widowpenalty4000%
19078 \sfcode\.\@m}
19079 {\def\@noitemerr
19080 {\@latex@warning{Empty `thebibliography' environment}}}%
19081 \endlist}
19082 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19083 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19084 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}

```



```

19085 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19086 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19087 \renewcommand*\theequation{%
19088   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
19089 \renewcommand*\thefigure{%
19090   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
19091 \renewcommand*\thetable{%
19092   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
19093 \if@titlepage
19094 \renewcommand*\TitleFont{\rmfamily}
19095 \renewcommand*\maketitle{%
19096   \begin{titlepage}%
19097     \let\footnotesize\small
19098     \let\right@footnoterule\relax
19099     \let\left@footnoterule\relax
19100     \let\textwidth\footnoterule\relax
19101     \let \footnote \thanks
19102     \long\def\@makefntext##1{\parindent\z@
19103       \def\labelitemi{\textendash}\@revlabeltrue
19104       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19105     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19106     \if@compatibility\setcounter{page}{0}\fi
19107     \null\vfil
19108     \vskip 60\p@
19109     \begin{center}%
19110       \TitleFont
19111       {\LARGE \def\\{\penalty -\@M}
19112         \if@allcaps
19113           \expandafter\uc@nothanks\@title\thanks\relax
19114         \else
19115           \@title
19116         \fi\par}%
19117       \vskip 3em%
19118       {\large
19119         \lineskip .75em \parindent\z@
19120         \begin{tabular}[t]{c}%
19121           \if@allcaps
19122             \expandafter\uc@authornothanks\@author\and\relax
19123           \else
19124             \@author
19125           \fi
19126         \end{tabular}\par}%
19127       \vskip 1.5em%
19128       {\large
19129         \if@allcaps
19130           \uppercase\expandafter{\@date}%
19131         \else
19132           \@date
19133         \fi\par}%
19134       \end{center}\par
19135       \@thanks
19136       \vfil\null
19137     \end{titlepage}%
19138     \setcounter{footnote}{0}%

```



```

19139 \global\let\thanks\relax
19140 \global\let\maketitle\relax
19141 \global\let\@thanks\@empty
19142 \global\let\@author\@empty
19143 \global\let\@title\@empty
19144 \global\let\@date\@empty
19145 \global\let\title\relax
19146 \global\let\author\relax
19147 \global\let\date\relax
19148 \global\let\and\relax
19149 }
19150 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19151 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19152 \futurelet\@tempa\uc@ax}
19153 \def\uc@ax{%
19154 \ifx\@tempa\relax
19155 \else
19156 \ \andname \ \expandafter\uc@authornothanks
19157 \fi}
19158 \def\uc@tx{\ifx\@tempa\relax
19159 \else \expandafter\uc@ty \fi}
19160 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19161 \else
19162 \renewcommand*\maketitle{\par
19163 \begingroup
19164 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19165 \def\@makefnmark{\rlap{%
19166 \@textsuperscript{\normalfont\@thefnmark}}}%
19167 \long\def\@makefntext{\@xmakefntext{%
19168 \@textsuperscript{\normalfont\@thefnmark}}}%
19169 \if@twocolumn
19170 \ifnum \col@number=\@one
19171 \@maketitle
19172 \else
19173 \twocolumn[\@maketitle]%
19174 \fi
19175 \else
19176 \newpage
19177 \global\@topnum\z@
19178 \@maketitle
19179 \fi
19180 \thispagestyle{plain}\@thanks
19181 \endgroup
19182 \setcounter{footnote}{0}%
19183 \global\let\thanks\relax
19184 \global\let\maketitle\relax
19185 \global\let\@maketitle\relax
19186 \global\let\@thanks\@empty
19187 \global\let\@author\@empty
19188 \global\let\@title\@empty
19189 \global\let\@date\@empty
19190 \global\let\title\relax
19191 \global\let\author\relax
19192 \global\let\date\relax

```




```

19193 \global\let\and\relax
19194 }
19195 \def\@maketitle{%
19196 \newpage
19197 \null
19198 \vskip 2em%
19199 \begin{center}%
19200 \let \footnote \thanks
19201 {\LARGE \TitleFont \@title \par}%
19202 \vskip 1.5em%
19203 {\large \TitleFont
19204 \lineskip .5em%
19205 \begin{tabular}[t]{c}%
19206 \@author
19207 \end{tabular}\par}%
19208 \vskip 1em%
19209 {\large \TitleFont \@date}%
19210 \end{center}%
19211 \par
19212 \vskip 1.5em}
19213 \fi

```

138 File rapport3-xetex-bidi.def

```

19214 \ProvidesFile{rapport3-xetex-bidi.def}[2025/09/30 v0.7 bidi adaptations for rapport3 class f
19215 \renewenvironment{theindex}{%
19216 \if@twocolumn
19217 \@restonecolfalse
19218 \else
19219 \@restonecoltrue
19220 \fi
19221 \columnseprule \z@
19222 \columnsep 35\p@
19223 \twocolumn[\@makeschapterhead{\indexname}]%
19224 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
19225 \thispagestyle{plain}\parindent\z@
19226 \parskip\z@ \@plus .3\p@\relax
19227 \let\item\@idxitem
19228 }{%
19229 \if@restonecol\onecolumn\else\clearpage\fi}
19230 \if@titlepage
19231 \renewcommand*\TitleFont{\rmfamily}
19232 \renewcommand*\maketitle{%
19233 \begin{titlepage}%
19234 \let\footnotesize\small
19235 \let\right@footnoterule\relax
19236 \let\left@footnoterule\relax
19237 \let\textwidth\footnoterule\relax
19238 \let \footnote \thanks
19239 \let \LTRfootnote \LTRthanks
19240 \let \RTLfootnote \RTLthanks
19241 \long\def\@makefntext##1{\parindent\z@
19242 \def\labelitemi{\textendash}\@revlabeltrue
19243 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}

```



```

19244 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19245 \ifcompatibility\setcounter{page}{0}\fi
19246 \null\vfil
19247 \vskip 60\p@
19248 \begin{center}%
19249 \TitleFont
19250 {\LARGE \def\{\{\penalty -\@M}
19251 \if@allcaps
19252 \expandafter\uc@nothanks\@title\thanks\relax
19253 \else
19254 \@title
19255 \fi\par}%
19256 \vskip 3em%
19257 {\large
19258 \lineskip .75em \parindent\z@
19259 \begin{tabular}[t]{c}%
19260 \if@allcaps
19261 \expandafter\uc@authornothanks\@author\and\relax
19262 \else
19263 \@author
19264 \fi
19265 \end{tabular}\par}%
19266 \vskip 1.5em%
19267 {\large
19268 \if@allcaps
19269 \uppercase\expandafter{\@date}%
19270 \else
19271 \@date
19272 \fi\par}%
19273 \end{center}\par
19274 \@thanks
19275 \vfil\null
19276 \end{titlepage}%
19277 \setcounter{footnote}{0}%
19278 \global\let\thanks\relax
19279 \global\let\LTRthanks\relax
19280 \global\let\RTLthanks\relax
19281 \global\let\maketitle\relax
19282 \global\let\@thanks\@empty
19283 \global\let\@author\@empty
19284 \global\let\@title\@empty
19285 \global\let\@date\@empty
19286 \global\let\title\relax
19287 \global\let\author\relax
19288 \global\let\date\relax
19289 \global\let\and\relax
19290 }
19291 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19292 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19293 \futurelet\@tempa\uc@ax}
19294 \def\uc@ax{%
19295 \ifx\@tempa\relax
19296 \else
19297 \\\andname \\\expandafter\uc@authornothanks

```



```

19298 \fi}
19299 \def\uc@tx{\ifx\@tempa\relax
19300 \else \expandafter\uc@ty \fi}
19301 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19302 \else
19303 \renewcommand*\maketitle{\par
19304 \begin{group}
19305 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19306 \def\@makefnmark{\rlap{%
19307 \@textsuperscript{\normalfont\@thefnmark}}}%
19308 \long\def\@makefntext{\@xmakefntext{%
19309 \@textsuperscript{\normalfont\@thefnmark}}}%
19310 \if@twocolumn
19311 \ifnum \col@number=\@one
19312 \@maketitle
19313 \else
19314 \twocolumn[\@maketitle]%
19315 \fi
19316 \else
19317 \newpage
19318 \global\@topnum\z@
19319 \@maketitle
19320 \fi
19321 \thispagestyle{plain}\@thanks
19322 \end{group}
19323 \setcounter{footnote}{0}%
19324 \global\let\thanks\relax
19325 \global\let\LTRthanks\relax
19326 \global\let\RTLthanks\relax
19327 \global\let\maketitle\relax
19328 \global\let\@maketitle\relax
19329 \global\let\@thanks\@empty
19330 \global\let\@author\@empty
19331 \global\let\@title\@empty
19332 \global\let\@date\@empty
19333 \global\let\title\relax
19334 \global\let\author\relax
19335 \global\let\date\relax
19336 \global\let\and\relax
19337 }
19338 \def\@maketitle{%
19339 \newpage
19340 \null
19341 \vskip 2em%
19342 \if@titlecentered
19343 \begin{center}%
19344 \let \footnote \thanks
19345 \let \LTRfootnote \LTRthanks
19346 \let \RTLfootnote \RTLthanks
19347 {\LARGE \TitleFont \@title \par}%
19348 \vskip 1.5em%
19349 {\large \TitleFont
19350 \lineskip .5em%
19351 \begin{tabular}[t]{c}%

```



```

19352         \@author
19353         \end{tabular}\par}%
19354         \vskip 1em%
19355         {\large \TitleFont \@date}%
19356     \end{center}%
19357 \else
19358     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
19359     {\large \TitleFont \lineskip .5em \tabcolsep\z@
19360         \def\and{%% \begin{tabular} has already started
19361             \end{tabular}\hskip 1em plus .17fil
19362             \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
19363             \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}%
19364         \vskip 1em {\large \TitleFont \@date}
19365     \fi
19366     \par
19367     \vskip 1.5em}
19368 \fi
19369 \renewcommand*\@regtocline[3]{%
19370     \ifnum #1>\c@tocdepth
19371     \else
19372         \vskip\z@\@plus.2\p@
19373         {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
19374             \if@RTL\righskip\else\leftskip\fi\unitindent
19375             \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
19376             \parfillskip\z@
19377             \@tempdima\unitindent
19378             \parindent\z@
19379             \leavevmode
19380             \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
19381             \hskip 1em \nobreak{\slshape #3}\par
19382         }%
19383     \fi}
19384 \if@oldtoc
19385 \renewcommand*\l@part[2]{%
19386     \ifnum \c@tocdepth >-2\relax
19387         \addpenalty{-\@highpenalty}%
19388         \addvspace{2.25em \@plus\p@}%
19389         \begingroup
19390             \setlength\@tempdima{3em}%
19391             \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
19392             \parfillskip -\@pnumwidth
19393             {\leavevmode
19394                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19395             \nobreak
19396             \global\@nobreaktrue
19397             \everypar{\global\@nobreakfalse\everypar{}}%
19398         \endgroup
19399     \fi}
19400 \else
19401     \renewcommand*\l@part{%
19402         \ifnum \c@tocdepth >-2\relax
19403             \addpenalty{-\@highpenalty}%
19404             \addvspace{2.25em \@plus \p@}%
19405             \@regtocline{0}%

```



```

19406 \fi}
19407 \fi
19408 \if@oldtoc
19409 \renewcommand*\l@chapter[2]{%
19410 \addpenalty{-\@highpenalty}%
19411 \vskip 1.0em \@plus\p@
19412 \setlength\@tempdima{1.5em}%
19413 \begingroup
19414 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19415 \parfillskip -\@pnumwidth
19416 \leavevmode \bfseries
19417 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19418 \hskip -\if@RTL\rightskip\else\leftskip\fi
19419 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19420 \penalty\@highpenalty
19421 \endgroup}
19422 \else
19423 \renewcommand*\l@chapter{\@regtocline{0}}
19424 \fi
19425 \renewcommand*\head@style{%
19426 \interlinepenalty \@M
19427 \hyphenpenalty=\@M \exhyphenpenalty=\@M
19428 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
19429 \if@titlepage
19430 \renewenvironment{abstract}{%
19431 \titlepage
19432 \null\vfil
19433 \section*\SectFont\abstractname}%
19434 \noindent\ignorespaces}
19435 {\par\vfil\null\endtitlepage}
19436 \else
19437 \renewenvironment{abstract}{%
19438 \if@twocolumn
19439 \section*\abstractname}%
19440 \else
19441 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
19442 \section*\small\SectFont\abstractname}%
19443 \noindent\ignorespaces
19444 \fi}
19445 {\if@twocolumn\else\par\egroup\fi}
19446 \fi
19447 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19448 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19449 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
19450 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19451 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19452 \renewcommand*\thefigure{%
19453 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
19454 \renewcommand*\thetable{%
19455 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
19456 \renewcommand*\theequation{%
19457 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@equation}
19458 \renewenvironment{thebibliography}[1]
19459 {\chapter*\bibname}%

```



```

19460      \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19461      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19462      \bidi@thebibliography@font@hook%
19463      \list{\@biblabel{\@arabic\c@enumiv}}%
19464          {\settowidth\labelwidth{\@biblabel{#1}}%
19465           \leftmargin\labelwidth
19466           \advance\leftmargin\labelsep
19467           \@openbib@code
19468           \usecounter{enumiv}%
19469           \let\p@enumiv\@empty
19470           \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
19471      \sloppy\clubpenalty4000\widowpenalty4000%
19472      \sfcode`. \m}
19473      {\def\@noitemerr
19474       {\@latex@warning{Empty `thebibliography' environment}}}%
19475      \endlist}
19476 \renewcommand*\left@footnoterule{%
19477   \kern-3\p@
19478   \kern.5\baselineskip
19479   \hrule\@width\unitindent
19480   \kern.4\baselineskip
19481 }
19482 \renewcommand*\right@footnoterule{%
19483   \kern-3\p@
19484   \kern.5\baselineskip
19485   \nointerlineskip
19486   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19487   \kern.4\baselineskip}
19488 \renewcommand*\head@style{%
19489   \interlinepenalty \@M
19490   \hyphenpenalty=\@M \exhyphenpenalty=\@M
19491   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

139 File refrep-xetex-bidi.def

```

19492 \ProvidesFile{refrep-xetex-bidi.def}[2025/09/30 v0.6 bidi adaptations for refrep class for X
19493 \if@titlepage
19494   \renewcommand\maketitle{\begin{titlepage}%
19495     \let\footnotesize\small
19496     \let\right@footnoterule\relax
19497     \let\left@footnoterule\relax
19498     \let\textwidth@footnoterule\relax
19499     \let\footnote\thanks
19500     \let\LTRfootnote\LTRthanks
19501     \let\RTLfootnote\RTLthanks
19502     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19503     \def\@makefnmark%
19504       {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19505     \long\def\@makefntext##1{%
19506       \@setpar{\@par
19507         \@tempdima = \hsize
19508         \advance\@tempdima -1em
19509         \parshape \@ne 1em \@tempdima}%
19510       \par\parindent 1em \noindent

```



```

19511      \hb@xt@z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19512 \null\vfil
19513 \vskip 60\p@
19514 \begin{center}%
19515   {\LARGE \@title \par}%
19516   \vskip 3em%
19517   {\large
19518    \lineskip .75em%
19519    \begin{tabular}[t]{c}%
19520     \@author
19521     \end{tabular}\par}%
19522   \vskip 1.5em%
19523   {\large \@date \par}%           % Set date in \large size.
19524 \end{center}\par
19525 \@thanks
19526 \vfil\null
19527 \end{titlepage}%
19528 \setcounter{footnote}{0}%
19529 \global\let\thanks\relax
19530 \global\let\LTRthanks\relax
19531 \global\let\RTLthanks\relax
19532 \global\let\maketitle\relax
19533 \global\let\@thanks\@empty
19534 \global\let\@author\@empty
19535 \global\let\@date\@empty
19536 \global\let\@title\@empty
19537 \global\let\title\relax
19538 \global\let\author\relax
19539 \global\let\date\relax
19540 \global\let\and\relax
19541 }
19542 \else
19543 \renewcommand\maketitle{\par
19544   \begingroup
19545     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19546     \def\@makefnmark%
19547       {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19548     \long\def\@makefntext##1{%
19549       \@setpar{\@par
19550         \@tempdima = \hsize
19551         \advance\@tempdima -1em
19552         \parshape \@ne 1em \@tempdima}%
19553       \par\parindent 1em \noindent
19554       \hb@xt@z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19555     \if@twocolumn
19556       \ifnum \col@number=\@ne
19557         \@maketitle
19558       \else
19559         \twocolumn[\@maketitle]%
19560       \fi
19561     \else
19562       \newpage
19563       \global\@topnum\z@   % Prevents figures from going at top of page.
19564       \@maketitle

```



```

19565 \fi
19566 \thispagestyle{empty}\@thanks
19567 \endgroup
19568 \setcounter{footnote}{0}%
19569 \global\let\thanks\relax
19570 \global\let\LTRthanks\relax
19571 \global\let\RTLthanks\relax
19572 \global\let\maketitle\relax
19573 \global\let\@maketitle\relax
19574 \global\let\@thanks\@empty
19575 \global\let\@author\@empty
19576 \global\let\@date\@empty
19577 \global\let\@title\@empty
19578 \global\let\title\relax
19579 \global\let\author\relax
19580 \global\let\date\relax
19581 \global\let\and\relax
19582 }
19583 \def\@maketitle{%
19584 \newpage
19585 \null
19586 \longthickrule\vskip1.5em%
19587 \let \footnote \thanks
19588 \let \LTRfootnote \LTRthanks
19589 \let \RTLfootnote \RTLthanks
19590 {\secshape \parskip\z@ \parindent\z@
19591 \Large\bfseries \@title \par}%
19592 \vskip1.5em\longthickrule\vskip1.5em%
19593 {\normalsize
19594 \lineskip .5em%
19595 \begin{flushright}%
19596 {\slshape\@author\par}
19597 \vskip 1em%
19598 {\@date}%
19599 \end{flushright}\par}%
19600 \vskip 1.5em}
19601 \fi
19602 \renewcommand*\l@part[2]{%
19603 \ifnum \c@tocdepth >-2\relax
19604 \addpenalty{-\@highpenalty}%
19605 \addvspace{2.25em \@plus\p@}%
19606 \begingroup
19607 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19608 \parfillskip -\@pnumwidth
19609 {\leavevmode
19610 \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
19611 \nobreak
19612 \global\@nobreaktrue
19613 \everypar{\global\@nobreakfalse\everypar{}}%
19614 \endgroup
19615 \fi}
19616 \renewcommand*\l@chapter[2]{%
19617 \ifnum \c@tocdepth >\m@ne
19618 \addpenalty{-\@highpenalty}%

```




```

19619 \vskip 1.0em \@plus\p@
19620 \setlength\@tempdima{1.5em}%
19621 \begingroup
19622 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19623 \parfillskip -\@pnumwidth
19624 \leavevmode \bfseries
19625 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19626 \hskip -\if@RTL\rightskip\else\leftskip\fi
19627 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19628 \penalty\@highpenalty
19629 \endgroup
19630 \fi}
19631 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
19632 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
19633 \hyphenpenalty=2000}
19634 \renewcommand\left@footnoterule{%
19635 \kern-3\p@
19636 \hrule\@width.4\columnwidth
19637 \kern 2.6\p@}
19638 \renewcommand\right@footnoterule{%
19639 \kern-3\p@
19640 \nointerlineskip
19641 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19642 \kern2.6\p@}
19643 \renewcommand\theequation
19644 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19645 \renewcommand\thefigure
19646 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19647 \renewcommand\thetable%
19648 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19649 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
19650 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19651 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
19652 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19653 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19654 \renewenvironment{thebibliography}[1]
19655 {\chapter*{\bibname
19656 \mkboth{\bibname}{\bibname}}%
19657 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19658 \bidi@thebibliography@font@hook%
19659 \list{\@biblabel{\@arabic\c@enumiv}}%
19660 {\settowidth\labelwidth{\@biblabel{#1}}%
19661 \leftmargin\labelwidth
19662 \advance\leftmargin\labelsep
19663 \@openbib@code
19664 \usecounter{enumiv}%
19665 \let\p@enumiv\@empty
19666 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19667 \sloppy
19668 \clubpenalty4000
19669 \@clubpenalty \clubpenalty
19670 \widowpenalty4000%
19671 \sfcode`\.=\@m}
19672 {\def\@noitemerr

```



```

19673      {\@latex@warning{Empty `thebibliography' environment}}}%
19674      \endlist}

```

140 File report-xetex-bidi.def

```

19675 \ProvidesFile{report-xetex-bidi.def}[2025/12/06 v1.2 bidi adaptations for standard report cl
19676 \renewenvironment{theindex}
19677     {\if@twocolumn
19678       \@restonecolfalse
19679       \else
19680       \@restonecoltrue
19681       \fi
19682       \columnseprule \z@
19683       \columnsep 35\p@
19684       \twocolumn[\@makeschapterhead{\indexname}]%
19685       \@mkboth{\MakeUppercase\indexname}%
19686               {\MakeUppercase\indexname}%
19687       \thispagestyle{plain}\parindent\z@
19688       \parskip\z@ \@plus .3\p@\relax
19689       \let\item\@idxitem}
19690     {\if@restonecol\onecolumn\else\clearpage\fi}
19691 \if@titlepage
19692 \renewcommand\maketitle{\begin{titlepage}%
19693 \let\footnotesize\small
19694 \let\right@footnoterule\relax
19695 \let\left@footnoterule\relax
19696 \let\textwidth\footnoterule\relax
19697 \let \footnote \thanks
19698 \let \LTRfootnote \LTRthanks
19699 \let \RTLfootnote \RTLthanks
19700 \null\vfil
19701 \vskip 60\p@
19702 \begin{center}%
19703   {\LARGE \@title \par}%
19704   \vskip 3em%
19705   {\large
19706     \lineskip .75em%
19707     \begin{tabular}[t]{c}%
19708       \@author
19709     \end{tabular}\par}%
19710     \vskip 1.5em%
19711     {\large \@date \par}%           % Set date in \large size.
19712 \end{center}\par
19713 \@thanks
19714 \vfil\null
19715 \end{titlepage}%
19716 \setcounter{footnote}{0}%
19717 \global\let\thanks\relax
19718 \global\let\LTRthanks\relax
19719 \global\let\RTLthanks\relax
19720 \global\let\maketitle\relax
19721 \global\let\@thanks\@empty
19722 \global\let\@author\@empty
19723 \global\let\@date\@empty

```



```

19724 \global\let\@title\@empty
19725 \global\let\title\relax
19726 \global\let\author\relax
19727 \global\let\date\relax
19728 \global\let\and\relax
19729 }
19730 \else
19731 \renewcommand\maketitle{\par
19732 \begingroup
19733 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19734 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19735 \long\def\@makefntext##1{\parindent 1em\noindent
19736 \hb@xt@1.8em{%
19737 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
19738 \if@twocolumn
19739 \ifnum \col@number=\@ne
19740 \@maketitle
19741 \else
19742 \twocolumn[\@maketitle]%
19743 \fi
19744 \else
19745 \newpage
19746 \global\@topnum\z@ % Prevents figures from going at top of page.
19747 \@maketitle
19748 \fi
19749 \thispagestyle{plain}\@thanks
19750 \endgroup
19751 \setcounter{footnote}{0}%
19752 \global\let\thanks\relax
19753 \global\let\LTRthanks\relax
19754 \global\let\RTLthanks\relax
19755 \global\let\maketitle\relax
19756 \global\let\@maketitle\relax
19757 \global\let\@thanks\@empty
19758 \global\let\@author\@empty
19759 \global\let\@date\@empty
19760 \global\let\@title\@empty
19761 \global\let\title\relax
19762 \global\let\author\relax
19763 \global\let\date\relax
19764 \global\let\and\relax
19765 }
19766 \def\@maketitle{%
19767 \newpage
19768 \null
19769 \vskip 2em%
19770 \begin{center}%
19771 \let \footnote \thanks
19772 \let \LTRfootnote \LTRthanks
19773 \let \RTLfootnote \RTLthanks
19774 {\LARGE \@title \par}%
19775 \vskip 1.5em%
19776 {\large
19777 \lineskip .5em%

```



```

19778 \begin{tabular}[t]{c}%
19779 \author
19780 \end{tabular}\par}%
19781 \vskip 1em%
19782 {\large \@date}%
19783 \end{center}%
19784 \par
19785 \vskip 1.5em}
19786 \fi
19787 \let\HyOrg@maketitle\maketitle
19788 \IfPackageLoadedF{tocloft}{%
19789 \renewcommand*\l@part[2]{%
19790 \ifnum \c@tocdepth >-2\relax
19791 \addpenalty{-\@highpenalty}%
19792 \addvspace{2.25em \@plus\p@}%
19793 \setlength\@tempdima{3em}%
19794 \begingroup
19795 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19796 \parfillskip -\@pnumwidth
19797 {\leavevmode
19798 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19799 \nobreak
19800 \global\@nobreaktrue
19801 \everypar{\global\@nobreakfalse\everypar{}}}%
19802 \endgroup
19803 \fi}
19804 \renewcommand*\l@chapter[2]{%
19805 \ifnum \c@tocdepth >\m@ne
19806 \addpenalty{-\@highpenalty}%
19807 \vskip 1.0em \@plus\p@
19808 \setlength\@tempdima{1.5em}%
19809 \begingroup
19810 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19811 \parfillskip -\@pnumwidth
19812 \leavevmode \bfseries
19813 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19814 \hskip -\if@RTL\rightskip\else\leftskip\fi
19815 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19816 \penalty\@highpenalty
19817 \endgroup
19818 \fi}
19819 }
19820 \renewcommand\left@footnoterule{%
19821 \kern-3\p@
19822 \hrule\@width.4\columnwidth
19823 \kern2.6\p@}
19824 \renewcommand\right@footnoterule{%
19825 \kern-3\p@
19826 \nointerlineskip
19827 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19828 \kern2.6\p@}
19829 \renewcommand\theequation
19830 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19831 \renewcommand \thefigure

```



```

19832     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19833 \renewcommand \thetable
19834     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19835 \renewcommand \thechapter {\@arabic\c@chapter}
19836 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
19837 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19838 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
19839 \renewcommand \theparagraph {\thesubsubsection \@SepMark\@arabic\c@paragraph}
19840 \renewcommand \thesubparagraph {\theparagraph \@SepMark\@arabic\c@subparagraph}
19841 \def\@makechapterhead#1{%
19842     \vspace*{50\p@}%
19843     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
19844         \ifnum \c@secnumdepth >\m@ne
19845             \huge\bfseries \@chapapp\space \thechapter
19846             \par\nobreak
19847             \vskip 20\p@
19848         \fi
19849         \interlinepenalty\@M
19850         \Huge \bfseries #1\par\nobreak
19851         \vskip 40\p@
19852     }}
19853 \def\@makeschapterhead#1{%
19854     \vspace*{50\p@}%
19855     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
19856         \normalfont
19857         \interlinepenalty\@M
19858         \Huge \bfseries #1\par\nobreak
19859         \vskip 40\p@
19860     }}
19861 \IfPackageLoadedF{natbib}{%
19862 \renewenvironment{thebibliography}[1]
19863     {\chapter*{\bibname}%
19864         \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19865         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19866         \bidi@thebibliography@font@hook%
19867         \list{\@biblabel{\@arabic\c@enumiv}}{%
19868             {\settowidth\labelwidth{\@biblabel{#1}}%
19869             \leftmargin\labelwidth
19870             \advance\leftmargin\labelsep
19871             \@openbib@code
19872             \usecounter{enumiv}%
19873             \let\p@enumiv\@empty
19874             \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19875         \sloppy
19876         \clubpenalty4000
19877         \@clubpenalty \clubpenalty
19878         \widowpenalty4000%
19879         \sfcode`. \m}
19880 \def\@noitemerr
19881     {\@latex@warning{Empty `thebibliography' environment}}%
19882     \endlist}
19883 }

```



141 File rotating-xetex-bidi.def

```

19884 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
19885 \def\end@rotfloat{%
19886   \end{minipage}\end{lrbox}%
19887   \stepcounter{r@tfl@t}%
19888   \rot@label{RF\ther@tfl@t}%
19889   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19890   \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
19891   \rot@mess@toks\expandafter{\@tempa}
19892   \wd\rot@float@box\z@
19893   \ht\rot@float@box\z@
19894   \dp\rot@float@box\z@
19895   \vboxL to \textheight{%
19896     \setkeys{Grot}{units=360}%
19897     \if@rot@twoside
19898     \else
19899       \let\R@@page\rot@LR
19900     \fi
19901     \ifthenelse{\isodd{\R@@page}}{%
19902       \if@rot@twoside
19903         \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19904       \fi
19905       \vfill
19906       @@line{%
19907         \hskip\rotFPtop
19908         \rotatebox{90}{\box\rot@float@box}%
19909         \hskip\rotFPbot
19910       }%
19911     }{%
19912       \if@rot@twoside
19913         \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19914       \fi
19915       @@line{%
19916         \hskip\rotFPbot
19917         \rotatebox{-90}{\box\rot@float@box}%
19918         \hskip\rotFPtop
19919       }%
19920       \vfill
19921     }%
19922     \rot@message{\the\rot@mess@toks}
19923   }%
19924   \end@float
19925 }
19926 \let\endsidewaysfigure\end@rotfloat
19927 \let\endsidewaysstable\end@rotfloat
19928 \def\end@rotdblfloat{%
19929   \end{minipage}\end{lrbox}%
19930   \stepcounter{r@tfl@t}%
19931   \rot@label{RF\ther@tfl@t}%
19932   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19933   \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
19934   \rot@mess@toks\expandafter{\@tempa}
19935   \@tempdima\ht\rot@float@box

```



```

19936 \advance\@tempdima by \dp\rot@float@box
19937 \wd\rot@float@box\z@
19938 \ht\rot@float@box\z@
19939 \dp\rot@float@box\z@
19940 \vboxL to \textheight{%
19941   \setkeys{Grot}{units=360}%
19942   \if@rot@twoside
19943   \else
19944     \let\R@@page\rot@LR
19945   \fi
19946   \ifthenelse{\isodd{\R@@page}}{%
19947     \ifrot@messages
19948     \if@rot@twoside
19949     \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19950 \fi
19951     \fi
19952     \vfill
19953     \@@line{%
19954       \hskip\rotFPtop
19955       \rotatebox{90}{\box\rot@float@box}%
19956       \hskip\rotFPbot
19957     }%
19958   }{%
19959     \ifrot@messages
19960     \if@rot@twoside
19961     \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19962 \fi
19963     \fi%
19964     \@@line{%
19965       \hskip\rotFPbot
19966       \rotatebox{-90}{\box\rot@float@box}%
19967       \hskip\rotFPtop
19968     }%
19969     \vfill
19970   }%
19971   \rot@message{\the\rot@mess@toks}%
19972 }%
19973 \end@dblfloat
19974 }
19975 \def\turn#1{%
19976   \Grot@setangle{#1}%
19977   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19978 \def\endturn{%
19979   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19980   \unskip\color@endbox
19981   \Grot@x\z@
19982   \Grot@y\z@
19983   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19984 }
19985 \def\rotate#1{%
19986   \Grot@setangle{#1}%
19987   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19988 \def\endrotate{%
19989   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi

```



```

19990 \unskip\color@endbox
19991 \Grot@x\z@
19992 \Grot@y\z@
19993 \wd0\z@\dp0\z@\ht0\z@
19994 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19995 }
19996 \def\turnbox#1#2{%
19997 \Grot@setangle{#1}%
19998 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
19999 \Grot@x\z@\Grot@y\z@
20000 \wd0\z@\dp0\z@\ht0\z@
20001 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
20002 }
20003 \def\sideways{%
20004 \Grot@setangle{90}%
20005 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
20006 \def\endsideways{%
20007 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
20008 \unskip\color@endbox
20009 \Grot@x\z@
20010 \Grot@y\z@
20011 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
20012 }

```

142 File scrartcl-xetex-bidi.def

```

20013 \ProvidesFile{scrartcl-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for scrartcl class f
20014 \newcommand{\scr@saved@LTRfootnotetext}{}
20015 \newcommand{\scr@saved@RTLfootnotetext}{}
20016 \let\scr@saved@footnotetext\@footnotetext
20017 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
20018 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
20019 \renewcommand{\@footnotetext}[1]{%
20020 \scr@saved@footnotetext{#1}%
20021 \csname FN@mf@prepare\endcsname
20022 }
20023 \renewcommand{\@LTRfootnotetext}[1]{%
20024 \scr@saved@LTRfootnotetext{#1}%
20025 \csname FN@mf@prepare\endcsname
20026 }
20027 \renewcommand{\@RTLfootnotetext}[1]{%
20028 \scr@saved@RTLfootnotetext{#1}%
20029 \csname FN@mf@prepare\endcsname
20030 }
20031 \renewcommand\deffootnote[4][1]{%
20032 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20033 \long\def\@makefntext#1{%
20034 \ExecuteDoHook{footnote/text/begin}%
20035 \raggedfootnote
20036 \if@RTL
20037 \rightskip
20038 \else
20039 \leftskip
20040 \fi

```




```

20041      #2
20042      \l@addto@macro\@trivlist{%
20043        \ifnum\@listdepth=\@one
20044          \if@RTL
20045            \advance\rightmargin #2\relax
20046          \else
20047            \advance\leftmargin #2\relax
20048          \fi
20049        \fi
20050      }%
20051      \parindent #3\noindent
20052      \IfArgIsEmpty{#1}{\}%
20053        \hskip \dimexpr #1-#2\relax
20054      }%
20055      \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20056      \ExecuteDoHook{footnote/text/end}%
20057    }%
20058  \else
20059    \ClassInfo{\KOMAClassName}{%
20060      Using old \string\@makefnmark\space due to compatibility
20061      level\MessageBreak
20062      less than 3.22}%
20063    \long\def\@makefnmark##1{%
20064      \setlength{\@tempdimc}{#3}%
20065      \def\@tempa{#1}\ifx\@tempa\@empty
20066        \setpar{\@par
20067          \@tempdima = \hspace
20068          \addtolength{\@tempdima}{-#2}%
20069          \if@RTL
20070            \parshape \@one \z@ \@tempdima
20071          \else
20072            \parshape \@one #2 \@tempdima
20073          \fi}%
20074        \else
20075          \addtolength{\@tempdimc}{#2}%
20076          \addtolength{\@tempdimc}{-#1}%
20077          \setpar{\@par
20078            \@tempdima = \hspace
20079            \addtolength{\@tempdima}{-#1}%
20080            \@tempdimb = \hspace
20081            \addtolength{\@tempdimb}{-#2}%
20082            \if@RTL
20083              \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20084            \else
20085              \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20086            \fi
20087          }%
20088        \fi
20089      \par
20090      \parindent\@tempdimc\noindent
20091      \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20092    }%
20093  \fi
20094  \def\@makefnmark{\hbox{\ftn@font{#4}}}%

```



```

20095 }
20096 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20097 \renewcommand*\left@footnoterule{%
20098   \normalsize\ftn@rule@test@values
20099   \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
20100   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20101   {\usekomafont{footnoterule}{%
20102     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}}%
20103   \kern 2.6\p}
20104 \renewcommand*\right@footnoterule{%
20105   \normalsize\ftn@rule@test@values
20106   \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
20107   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20108   \nointerlineskip
20109   {\usekomafont{footnoterule}{%
20110     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
20111     \kern 2.6\p}
20112 \renewcommand*\maketitle[1][1]{%
20113   \expandafter\ifnum \cscname scr@v@3.12\endcsname>\scr@compatibility\relax
20114   \else
20115     \def\and{%
20116       \end{tabular}%
20117       \hskip 1em \@plus.17fil%
20118       \begin{tabular}[t]{c}%
20119     }%
20120   \fi
20121   \if@titlepage
20122     \begin{titlepage}
20123       \setcounter{page}{%
20124         #1%
20125       }%
20126     \if@titlepageiscoverpage
20127       \edef\titlename@restore{%
20128         \noexpand\endgroup
20129         \noexpand\global\noexpand\@colht\the\@colht
20130         \noexpand\global\noexpand\@colroom\the\@colroom
20131         \noexpand\global\vsizethe\vsizethe
20132         \noexpand\global\noexpand\@titlepageiscoverpagefalse
20133         \noexpand\let\noexpand\titlename@restore\noexpand\relax
20134       }%
20135       \begin{group}
20136         \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20137         \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20138         \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20139         \textwidth=\dimexpr
20140         \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20141         \textheight=\dimexpr
20142         \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20143         \headheight=0pt
20144         \headsep=0pt
20145         \footskip=\baselineskip
20146         \@colht=\textheight
20147         \@colroom=\textheight
20148         \vsizethe\textheight

```



```

20149         \columnwidth=\textwidth
20150         \hsize=\columnwidth
20151         \linewidth=\hsize
20152     \else
20153         \let\titlepage@restore\relax
20154     \fi
20155     \let\footnotesize\small
20156     \let\right@footnoterule\relax
20157     \let\left@footnoterule\relax
20158     \let\textwidth@footnoterule\relax
20159     \let\footnote\thanks
20160     \let\LTRfootnote\LTRthanks
20161     \let\RTLfootnote\RTLthanks
20162     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20163     \let\@oldmakefnmark\@makefnmark
20164     \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
20165     \ifx\@extratitle\@empty
20166         \ifx\@frontispiece\@empty
20167             \else
20168                 \if@twoside\mbox{}\next@tpage\fi
20169                 \noindent\@frontispiece\next@tdpage
20170             \fi
20171         \else
20172             \noindent\@extratitle
20173             \ifx\@frontispiece\@empty
20174                 \else
20175                     \next@tpage
20176                     \noindent\@frontispiece
20177                 \fi
20178                 \next@tdpage
20179             \fi
20180         \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20181         \ifx\@titlehead\@empty \else
20182             \begin{minipage}[t]{\textwidth}%
20183                 \usekomafont{titlehead}{\@titlehead\par}%
20184             \end{minipage}\par
20185         \fi
20186         \null\vfill
20187         \begin{center}
20188             \ifx\@subject\@empty \else
20189                 {\usekomafont{subject}{\@subject\par}}%
20190                 \vskip 3em
20191             \fi
20192             {\usekomafont{title}{\huge \@title\par}}%
20193             \vskip 1em
20194             {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20195             \vskip 2em
20196             {%
20197                 \usekomafont{author}{%
20198                     \lineskip 0.75em
20199                     \begin{tabular}[t]{c}
20200                         \@author
20201                     \end{tabular}\par
20202                 }%

```



```

20203      }%
20204      \vskip 1.5em
20205      {\usekomafont{date}{\@date \par}}%
20206      \vskip \z@ \@plus3fill
20207      {\usekomafont{publishers}{\@publishers \par}}%
20208      \vskip 3em
20209      \end{center}\par
20210      \@thanks\global\let\@thanks\@empty
20211      \vfill\null
20212      \if@twoside
20213        \@tempswatrue
20214        \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20215        \else
20216          \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20217            \@tempswafalse
20218          \fi\fi
20219        \fi
20220        \if@tempswa
20221          \next@tpage
20222          \begin{minipage}[t]{\textwidth}
20223            \@uppertitleback
20224          \end{minipage}\par
20225          \vfill
20226          \begin{minipage}[b]{\textwidth}
20227            \@lowertitleback
20228          \end{minipage}\par
20229          \@thanks\global\let\@thanks\@empty
20230        \fi
20231      \else
20232        \ifx\@uppertitleback\@empty\else
20233          \ClassWarning{\KOMAClassName}{%
20234            non empty \string\uppertitleback\space ignored
20235            by \string\maketitle\MessageBreak
20236            in `twoside=false' mode%
20237          }%
20238        \fi
20239        \ifx\@lowertitleback\@empty\else
20240          \ClassWarning{\KOMAClassName}{%
20241            non empty \string\lowertitleback\space ignored
20242            by \string\maketitle\MessageBreak
20243            in `twoside=false' mode%
20244          }%
20245        \fi
20246      \fi
20247      \ifx\@dedication\@empty
20248      \else
20249        \next@tdpage\null\vfill
20250        {\centering\usekomafont{dedication}{\@dedication \par}}%
20251        \vskip \z@ \@plus3fill
20252        \@thanks\global\let\@thanks\@empty
20253        \cleardoubleemptypage
20254      \fi
20255      \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20256    \end{titlepage}

```



```

20257 \else
20258   \par
20259   \@tempcnta=%
20260   #1%
20261   \relax\ifnum\@tempcnta=1\else
20262     \ClassWarning{\KOMAClassName}{%
20263       Optional argument of \string\maketitle\space ignored\MessageBreak
20264       in `titlepage=false' mode%
20265     }%
20266   \fi
20267   \ifx\@uppertitleback\@empty\else
20268     \ClassWarning{\KOMAClassName}{%
20269       non empty \string\uppertitleback\space ignored
20270       by \string\maketitle\MessageBreak
20271       in `titlepage=false' mode%
20272     }%
20273   \fi
20274   \ifx\@lowertitleback\@empty\else
20275     \ClassWarning{\KOMAClassName}{%
20276       non empty \string\lowertitleback\space ignored
20277       by \string\maketitle\MessageBreak
20278       in `titlepage=false' mode%
20279     }%
20280   \fi
20281   \begingroup
20282     \let\titlepage@restore\relax
20283     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20284     \let\@oldmakefnmark\@makefnmark
20285     \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
20286     \next@tdpage
20287     \if@twocolumn
20288       \ifnum \col@number=\@ne
20289         \ifx\@extratitle\@empty
20290           \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20291         \else
20292           \@makeextratitle
20293         \fi
20294         \ifx\@frontispiece\@empty
20295           \ifx\@extratitle\@empty\else\next@tdpage\fi
20296         \else
20297           \next@tpage
20298           \@makefrontispiece
20299           \next@tdpage
20300         \fi
20301         \@maketitle
20302       \else
20303         \ifx\@extratitle\@empty
20304           \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20305         \else
20306           \twocolumn[\@makeextratitle]%
20307         \fi
20308         \ifx\@frontispiece\@empty
20309           \ifx\@extratitle\@empty\else\next@tdpage\fi
20310         \else

```



```

20311         \next@tpage
20312         \twocolumn[\@makefrontispiece]%
20313         \next@tdpage
20314     \fi
20315     \twocolumn[\@maketitle]%
20316 \fi
20317 \else
20318     \ifx\@extratitle\@empty
20319     \ifx\@frontispiece\@empty\else \mbox{}\fi
20320 \else
20321     \@makeextratitle
20322 \fi
20323 \ifx\@frontispiece\@empty
20324     \ifx\@extratitle\@empty\else\next@tdpage\fi
20325 \else
20326     \next@tpage
20327     \@makefrontispiece
20328     \next@tdpage
20329 \fi
20330 \@maketitle
20331 \fi
20332 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
20333 \@thanks\global\let\@thanks\@empty
20334 \endgroup
20335 \fi
20336 \setcounter{footnote}{0}%
20337 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20338     \let\thanks\relax
20339     \let\LTRthanks\relax
20340     \let\RTLthanks\relax
20341     \let\maketitle\relax
20342     \let\@maketitle\relax
20343     \global\let\@thanks\@empty
20344     \global\let\@author\@empty
20345     \global\let\@date\@empty
20346     \global\let\@title\@empty
20347     \global\let\@subtitle\@empty
20348     \global\let\@extratitle\@empty
20349     \global\let\@frontispiece\@empty
20350     \global\let\@titlehead\@empty
20351     \global\let\@subject\@empty
20352     \global\let\@publishers\@empty
20353     \global\let\@uppertitleback\@empty
20354     \global\let\@lowertitleback\@empty
20355     \global\let\@dedication\@empty
20356     \global\let\author\relax
20357     \global\let\title\relax
20358     \global\let\extratitle\relax
20359     \global\let\titlehead\relax
20360     \global\let\subject\relax
20361     \global\let\publishers\relax
20362     \global\let\uppertitleback\relax
20363     \global\let\lowertitleback\relax
20364     \global\let\dedication\relax

```



```

20365 \global\let\date\relax
20366 \fi
20367 \global\let\and\relax
20368 }%
20369 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
20370 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
20371 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
20372 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
20373 \renewcommand*{\thesubsubsection}{%
20374 \thesubsection\@SepMark\@arabic\c@subsubsection
20375 }
20376 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20377 \renewcommand*{\thesubparagraph}{%
20378 \theparagraph\@SepMark\@arabic\c@subparagraph
20379 }
20380 \renewenvironment{thebibliography}[1]{%
20381 \if@bib@break@
20382 \bib@beginhook
20383 \else
20384 \bib@heading
20385 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
20386 \noindent\bibpreamble\par\nobreak
20387 \fi\fi
20388 \bib@beginhook
20389 \bib@before@hook
20390 \fi
20391 \renewcommand{\BreakBibliography}[1]{%
20392 \@bib@break
20393 \end{thebibliography}%
20394 \begingroup ##1\endgroup
20395 \begin{thebibliography}#{1}
20396 }%
20397 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20398 \bidi@thebibliography@font@hook%
20399 \list{%
20400 \@biblabel{\@arabic\c@enumiv}%
20401 }{%
20402 \settowidth\labelwidth{\@biblabel{#1}}%
20403 \leftmargin\labelwidth
20404 \advance\leftmargin\labelsep
20405 \@openbib@code
20406 \if@bib@break@
20407 \edef\@tempa{%
20408 \noexpand\usecounter{enumiv}%
20409 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
20410 }\@tempa
20411 \no@bib@break
20412 \else
20413 \usecounter{enumiv}%
20414 \fi
20415 \let\p@enumiv\@empty
20416 \renewcommand*{theenumiv}{\@arabic\c@enumiv}%
20417 }%
20418 \sloppy\clubpenalty4000 \widowpenalty4000

```



```

20419 \sfcode`\.=\@m
20420 }{%
20421 \if@bib@break@
20422 \def\@noitemerr{%
20423 \latex@warning{%
20424 \string\BreakBibliography\space at begin of `thebibliography'
20425 environment\MessageBreak
20426 or following \string\BreakBibliography}%
20427 }%
20428 \else
20429 \def\@noitemerr{%
20430 \latex@warning{%
20431 Empty `thebibliography' environment or
20432 \string\BreakBibliography\MessageBreak
20433 before end of `thebibliography' environment}%
20434 }%
20435 \fi
20436 \endlist
20437 \if@bib@break@
20438 \else
20439 \bib@after@hook
20440 \let\bib@before@hook\@empty
20441 \let\bib@after@hook\@empty
20442 \fi
20443 \bib@endhook
20444 }
20445 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
20446 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
20447 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
20448 \renewcommand\marginline[1]{%
20449 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
20450 }
20451 \renewcommand{\@makecaption}[3]{%
20452 \cap@margin
20453 \begingroup
20454 \ifonelinecaptions
20455 \def\stepcounter##1{\advance\value{##1}\@ne}%
20456 \let\refstepcounter\stepcounter
20457 \let\label\@gobble
20458 \let\@footnotetext=\@gobble
20459 \let\@LTRfootnotetext=\@gobble
20460 \let\@RTLfootnotetext=\@gobble
20461 \let\hypertarget\@gobbletwo
20462 \edef\@xnewline{%
20463 \unexpanded{\ClassInfo{\KOMAClassName}}{%
20464 Workaround for not recommended usage of \string\\ or\MessageBreak
20465 \string\newline in caption text
20466 }%
20467 \hspace*{\linewidth}\hspace{1sp}%
20468 }%
20469 \unexpanded\expandafter{\@xnewline}%
20470 }%
20471 \edef\@xcentercr{%
20472 \unexpanded{\ClassInfo{\KOMAClassName}}{%

```




```

20473         Workaround for not recommended usage of \string\\ or\MessageBreak
20474         \string\newline in caption text
20475     }%
20476     \hspace*{\linewidth}\hspace{1sp}%
20477 }%
20478 \unexpanded\expandafter{\@xcentercr}%
20479 }%
20480 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
20481 \ifdim\@tempdima>\cap@width
20482     \aftergroup\scr@makemultilinecaption
20483 \else
20484     \aftergroup\scr@makesinglelinecaption
20485 \fi
20486 \else
20487     \aftergroup\scr@makemultilinecaption
20488 \fi
20489 \endgroup
20490 {#1}{#2}{#3}%
20491 }
20492 \renewcommand{\scr@makesinglelinecaption}[3]{%
20493     {%
20494         \usefontofkomafont{caption}{%
20495             \hb@xt@{\hspace{0pt}}{\hsize{%
20496                 \cap@left
20497                 \if@RTL
20498                     \beginR
20499                     \fi
20500                 \scr@makesinglelinecaption{#1}{#2}{#3}%
20501                 \if@RTL
20502                     \endR
20503                 \fi
20504                 \cap@right
20505             }}\par\kern\dp\strutbox%
20506         }%
20507     }\kern-\dp\strutbox
20508 }
20509 \renewcommand{\@makecaption}[2]{%
20510     \if@captionabove
20511         \vskip\belowcaptionskip
20512     \else
20513         \vskip\abovecaptionskip
20514     \fi
20515     \@makecaption\@firstofone{#1}{#2}%
20516     \if@captionabove
20517         \vskip\abovecaptionskip
20518     \else
20519         \vskip\belowcaptionskip
20520     \fi
20521 }
20522
20523 \renewcommand{\scr@makesinglelinecaption}[3]{%
20524     {\usekomafont{caption}{\strut\ignorespaces
20525         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
20526         \ignorespaces #3\unskip}}%

```



```

20527 }
20528
20529 \renewcommand{\scr@makemultilinecaption}[3]{%
20530   {%
20531     \usefontofkomafont{caption}{%
20532       \hb@xt@{hsize}{%
20533         \cap@left
20534         \vbox{
20535           \hsize\cap@width\linewidth\hsize
20536           \scr@ifundefinedorrelax{@captype}{%
20537             \ClassWarning{\KOMAClassName}{%
20538               `string\caption' outside float.\MessageBreak
20539               Seems you are using `string\caption' outside a
20540               float.\MessageBreak
20541               Maybe you are using a package that uses
20542               `string\@makecaption'\MessageBreak
20543               without setting `string\@captype' before.\MessageBreak
20544               Because I cannot detect the caption type, I'm using\MessageBreak
20545               the empty one.%
20546             }%
20547             \let\@captype\@empty
20548           }%
20549           \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
20550             \@nameuse{ragged\@captype caption}%
20551           }%
20552           \ifdofullc@p
20553             \@hangfrom{%
20554               \strut
20555               \scr@smashdp{%
20556                 #1{%
20557                   \usekomafont{caption}{%
20558                     \usekomafont{captionlabel}{#2\captionformat}%
20559                   }%
20560                 }%
20561               }%
20562               {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20563             \else
20564               \ifdim\cap@indent<\z@
20565                 \strut
20566                 #1{%
20567                   {\usekomafont{caption}{%
20568                     \usekomafont{captionlabel}{#2\captionformat}%
20569                   }%
20570                 }\par}%
20571               \noindent{{\usekomafont{caption}{%
20572                 \hspace*{-\cap@indent}#3\scr@endstrut
20573               }}\par}%
20574             \else
20575               \if@capbreak
20576                 \strut
20577                 #1{%
20578                   {\usekomafont{caption}{%
20579                     \usekomafont{captionlabel}{#2\captionformat}%
20580                   }%

```



```

20581         }\par}%
20582         \noindent\@hangfrom{\hspace*{\cap@indent}}%
20583         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
20584     \else
20585         \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
20586         {%
20587             \hspace{-\cap@indent}%
20588             \scr@smashdp{%
20589                 #1{\usekomafont{caption}{%
20590                     \usekomafont{captionlabel}{#2\captionformat}%
20591                 }}%
20592             }%
20593         }%
20594         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
20595     }%
20596 \fi
20597 \fi
20598 \fi
20599 }%
20600 \cap@right
20601 }\par\kern\dp\strutbox
20602 }%
20603 }\kern-\dp\strutbox
20604 }
20605
20606 \bidi@AfterFile{longtable-xetex-bidi.def}{%
20607   \if@komalongtable
20608     \renewcommand{\LT@makecaption}[3]{%
20609       \LT@mc\LT@cols c{%
20610         \hbox to\z@{\hss\parbox[t]{\linewidth{%
20611           \if@captionabove\else\vskip\belowcaptionskip\fi
20612           \@makecaption{#1}{#2}{#3}%
20613           \endgraf
20614           \if@captionabove\vskip\abovecaptionskip\fi
20615         }}%
20616         \hss
20617       }%
20618     }%
20619   }%
20620   \renewcommand*{\scr@LT@array}{}%
20621   \let\scr@LT@array=\LT@array
20622   \renewcommand*{\LT@array}{%
20623     \def\@capttype{table}%
20624     \@ifundefined{LTcapttype}{}{%
20625       \Ifstr{\LTcapttype}{}{}{\let\@capttype\LTcapttype}%
20626     }%
20627     \csname tocbasic_if_caption_above:TF\endcsname
20628     {\@captionabovetrue}{\@captionabovetrue}%
20629     \def\captionabove{\noalign{\global\@captionabovetrue}%
20630       \LT@caption}%
20631     \def\captionbelow{\noalign{\global\@captionabovetrue}%
20632       \LT@caption}%
20633     \scr@LT@array
20634   }%

```



```

20635 \ClassInfo{\KOMAClassName}{%
20636     longtable captions redefined%
20637 }%
20638 \fi
20639 }
20640
20641 \CloneTOCEntryStyle{tocline}{part}
20642 \TOCEntryStyleStartInitCode{part}{%
20643     \expandafter\renewcommand%
20644     \csname scr@tso@#1@linefill\endcsname{\hfill}%
20645     \expandafter\renewcommand%
20646     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
20647     \expandafter\renewcommand%
20648     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20649         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
20650     \expandafter\renewcommand\expandafter*%
20651     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
20652 }
20653
20654 \CloneTOCEntryStyle{tocline}{section}
20655 \TOCEntryStyleStartInitCode{section}{%
20656     \expandafter\renewcommand%
20657     \csname scr@tso@#1@linefill\endcsname{%
20658         \if@sectionentrywithdots
20659             {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
20660         \else
20661             \hfill
20662         \fi
20663     }%
20664     \expandafter\renewcommand%
20665     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
20666     \expandafter\renewcommand%
20667     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
20668     \expandafter\renewcommand\expandafter*%
20669     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
20670 }
20671
20672 \CloneTOCEntryStyle{tocline}{subsection}
20673 \TOCEntryStyleStartInitCode{subsection}{%
20674     \expandafter\renewcommand%
20675     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
20676     \expandafter\renewcommand%
20677     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20678         {\normalfont\normalcolor ##1}}%
20679 }
20680
20681 \CloneTOCEntryStyle{subsection}{default}
20682
20683 \DeclareSectionCommand[%
20684     style=section,%
20685     level=1,%
20686     indent=\z@,%
20687     beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
20688     afterskip=2.3ex \@plus.2ex,%

```



```

20689   tocstyle=section,%
20690   tocindent=0pt,%
20691   tocnumwidth=1.5em%
20692 ]{section}
20693 \DeclareSectionCommand[%
20694   style=part,%
20695   level=\z@,%
20696   tocstyle=part,%
20697   toplevel=\m@ne,%
20698   tocindent=\z@,%
20699   tocnumwidth=2em%
20700 ]{part}
20701 \DeclareSectionCommand[%
20702   style=section,%
20703   level=2,%
20704   indent=\z@,%
20705   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
20706   afterskip=1.5ex \@plus .2ex,%
20707   tocstyle=subsection,%
20708   tocindent=1.5em,%
20709   tocnumwidth=2.3em%
20710 ]{subsection}
20711 \DeclareSectionCommand[%
20712   style=section,%
20713   level=3,%
20714   indent=\z@,%
20715   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
20716   afterskip=1.5ex \@plus .2ex,%
20717   tocstyle=subsection,%
20718   tocindent=3.8em,%
20719   tocnumwidth=3.2em%
20720 ]{subsubsection}
20721 \DeclareSectionCommand[%
20722   style=section,%
20723   level=4,%
20724   indent=\z@,%
20725   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
20726   afterskip=-1em,%
20727   tocstyle=subsection,%
20728   tocindentfollows=subsubsection,%
20729   tocindent=7.0em,%
20730   tocnumwidth=4.1em%
20731 ]{paragraph}
20732 \DeclareSectionCommand[%
20733   style=section,%
20734   level=5,%
20735   indent=\scr@parindent,%
20736   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
20737   afterskip=-1em,%
20738   tocstyle=subsection,%
20739   tocindent=10em,%
20740   tocnumwidth=5em%
20741 ]{subparagraph}

```



143 File scrbook-xetex-bidi.def

```

20742 \ProvidesFile{scrbook-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for scrbook class for
20743 \newcommand{\scr@saved@LTRfootnotetext}{}
20744 \newcommand{\scr@saved@RTLfootnotetext}{}
20745 \let\scr@saved@footnotetext\@footnotetext
20746 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
20747 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
20748 \renewcommand{\@footnotetext}[1]{%
20749   \scr@saved@footnotetext{#1}%
20750   \csname FN@mfb@prepare\endcsname
20751 }
20752 \renewcommand{\@LTRfootnotetext}[1]{%
20753   \scr@saved@LTRfootnotetext{#1}%
20754   \csname FN@mfb@prepare\endcsname
20755 }
20756 \renewcommand{\@RTLfootnotetext}[1]{%
20757   \scr@saved@RTLfootnotetext{#1}%
20758   \csname FN@mfb@prepare\endcsname
20759 }
20760 \renewcommand\deffootnote[4][]{%
20761   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20762     \long\def\@makefnmark##1{%
20763       \ExecuteDoHook{footnote/text/begin}%
20764       \raggedfootnote
20765       \if@RTL
20766         \rightskip
20767       \else
20768         \leftskip
20769       \fi
20770       #2
20771       \l@addto@macro\@trivlist{%
20772         \ifnum\@listdepth=\@ne\advance
20773           \if@RTL
20774             \rightmargin #2\relax
20775           \else
20776             \leftmargin #2\relax
20777           \fi
20778         \fi
20779       }%
20780       \parindent #3\noindent
20781       \IfArgIsEmpty{#1}{}{%
20782         \hskip \dimexpr #1-#2\relax
20783       }%
20784       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20785       \ExecuteDoHook{footnote/text/end}%
20786     }%
20787   \else
20788     \ClassInfo{\KOMAClassName}{%
20789       Using old \string\@makefnmark\space due to compatibility
20790       level\MessageBreak
20791       less than 3.22}%
20792     \long\def\@makefnmark##1{%
20793       \setlength{\@tempdimc}{#3}%

```



```

20794 \def\@tempa{#1}\ifx\@tempa\@empty
20795 \setpar{\@par
20796 \@tempdima = \hsize
20797 \addtolength{\@tempdima}{-#2}%
20798 \if@RTL
20799 \parshape \@ne \z@ \@tempdima
20800 \else
20801 \parshape \@ne #2 \@tempdima
20802 \fi
20803 }%
20804 \else
20805 \addtolength{\@tempdimc}{#2}%
20806 \addtolength{\@tempdimc}{-#1}%
20807 \setpar{\@par
20808 \@tempdima = \hsize
20809 \addtolength{\@tempdima}{-#1}%
20810 \@tempdimb = \hsize
20811 \addtolength{\@tempdimb}{-#2}%
20812 \if@RTL
20813 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20814 \else
20815 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20816 \fi
20817 }%
20818 \fi
20819 \par
20820 \parindent\@tempdimc\noindent
20821 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20822 }%
20823 \fi
20824 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
20825 }
20826 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20827 \renewcommand*\left@footnoterule{%
20828 \normalsize\ftn@rule@test@values
20829 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20830 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20831 {\usekomafont{footnoterule}}%
20832 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20833 \kern 2.6\p@}
20834 \renewcommand*\right@footnoterule{%
20835 \normalsize\ftn@rule@test@values
20836 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20837 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20838 \nointerlineskip
20839 {\usekomafont{footnoterule}}%
20840 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
20841 \kern 2.6\p@}
20842 \renewcommand*\maketitle[1][1]{%
20843 \expandafter\ifnum \curname scr@v@3.12\endcurname>\scr@compatibility\relax
20844 \else
20845 \def\and{%
20846 \end{tabular}%
20847 \hskip 1em \@plus.17fil%

```



```

20848     \begin{tabular}[t]{c}%
20849   }%
20850 \fi
20851 \if@titlepage
20852   \begin{titlepage}
20853     \setcounter{page}{%
20854       #1%
20855     }%
20856   \if@titlepageiscoverpage
20857     \edef\titlepage@restore{%
20858       \noexpand\endgroup
20859       \noexpand\global\noexpand\@colht\the\@colht
20860       \noexpand\global\noexpand\@colroom\the\@colroom
20861       \noexpand\global\vsizethe\vsizethe
20862       \noexpand\global\noexpand\@titlepageiscoverpagefalse
20863       \noexpand\let\noexpand\titlepage@restore\noexpand\relax
20864     }%
20865     \begingroup
20866     \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20867     \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20868     \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20869     \textwidth=\dimexpr
20870     \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20871     \textheight=\dimexpr
20872     \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20873     \headheight=0pt
20874     \headsep=0pt
20875     \footskip=\baselineskip
20876     \@colht=\textheight
20877     \@colroom=\textheight
20878     \vsizethe=\textheight
20879     \columnwidth=\textwidth
20880     \hsize=\columnwidth
20881     \linewidth=\hsize
20882   \else
20883     \let\titlepage@restore\relax
20884 \fi
20885 \let\footnotesize\small
20886 \let\right@footnoterule\relax
20887 \let\left@footnoterule\relax
20888 \let\textwidth@footnoterule\relax
20889 \let\footnote\thanks
20890 \let\LTRfootnote\LTRthanks
20891 \let\RTLfootnote\RTLthanks
20892 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20893 \let\@oldmakefnmark\@makefnmark
20894 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
20895 \ifx\@extratitle\@empty
20896   \ifx\@frontispiece\@empty
20897   \else
20898     \if@twoside\mbox{}\next@tpage\fi
20899     \noindent\@frontispiece\next@tdpage
20900   \fi
20901 \else

```




```

20902      \noindent\@extratitle
20903      \ifx\@frontispiece\@empty
20904      \else
20905        \next@tpage
20906        \noindent\@frontispiece
20907      \fi
20908      \next@tdpage
20909    \fi
20910    \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updateerelative
20911    \ifx\@titlehead\@empty \else
20912      \begin{minipage}[t]{\textwidth}%
20913        \usekomafont{titlehead}{\@titlehead\par}%
20914      \end{minipage}\par
20915    \fi
20916    \null\vfill
20917    \begin{center}
20918      \ifx\@subject\@empty \else
20919        {\usekomafont{subject}{\@subject\par}}%
20920        \vskip 3em
20921      \fi
20922      {\usekomafont{title}{\huge \@title\par}}%
20923      \vskip 1em
20924      {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20925      \vskip 2em
20926      {%
20927        \usekomafont{author}{%
20928          \lineskip 0.75em
20929          \begin{tabular}[t]{c}
20930            \@author
20931          \end{tabular}\par
20932        }%
20933      }%
20934      \vskip 1.5em
20935      {\usekomafont{date}{\@date \par}}%
20936      \vskip \z@ \@plus3fill
20937      {\usekomafont{publishers}{\@publishers \par}}%
20938      \vskip 3em
20939    \end{center}\par
20940    \@thanks\global\let\@thanks\@empty
20941    \vfill\null
20942    \if@twoside
20943      \@tempwattrue
20944      \expandafter\ifnum \@nameuse{scr@v03.12}>\scr@compatibility\relax
20945      \else
20946        \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20947          \@tempwafalse
20948        \fi\fi
20949      \fi
20950      \if@tempswa
20951        \next@tpage
20952        \begin{minipage}[t]{\textwidth}
20953          \@uppertitleback
20954        \end{minipage}\par
20955        \vfill

```



```

20956         \begin{minipage}[b]{\textwidth}
20957             \@lowertitleback
20958         \end{minipage}\par
20959         \@thanks\global\let\@thanks\@empty
20960     \fi
20961 \else
20962     \ifx\@uppertitleback\@empty\else
20963         \ClassWarning{\KOMAClassName}{%
20964             non empty \string\uppertitleback\space ignored
20965             by \string\maketitle\MessageBreak
20966             in `twoside=false' mode%
20967         }%
20968     \fi
20969     \ifx\@lowertitleback\@empty\else
20970         \ClassWarning{\KOMAClassName}{%
20971             non empty \string\lowertitleback\space ignored
20972             by \string\maketitle\MessageBreak
20973             in `twoside=false' mode%
20974         }%
20975     \fi
20976 \fi
20977 \ifx\@dedication\@empty
20978 \else
20979     \next@tdpage\null\vfill
20980     {\centering\usekomafont{dedication}{\@dedication \par}}%
20981     \vskip \z@ \@plus3fill
20982     \@thanks\global\let\@thanks\@empty
20983     \cleardoubleemptypage
20984 \fi
20985 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20986 \end{titlepage}
20987 \else
20988     \par
20989     \@tempcnta=%
20990     #1%
20991     \relax\ifnum\@tempcnta=1\else
20992         \ClassWarning{\KOMAClassName}{%
20993             Optional argument of \string\maketitle\space ignored\MessageBreak
20994             in `titlepage=false' mode%
20995         }%
20996     \fi
20997     \ifx\@uppertitleback\@empty\else
20998         \ClassWarning{\KOMAClassName}{%
20999             non empty \string\uppertitleback\space ignored
21000             by \string\maketitle\MessageBreak
21001             in `titlepage=false' mode%
21002         }%
21003     \fi
21004     \ifx\@lowertitleback\@empty\else
21005         \ClassWarning{\KOMAClassName}{%
21006             non empty \string\lowertitleback\space ignored
21007             by \string\maketitle\MessageBreak
21008             in `titlepage=false' mode%
21009         }%

```



```

21010 \fi
21011 \begingroup
21012 \let\titlepage@restore\relax
21013 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21014 \let\@oldmakefnmark\@makefnmark
21015 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21016 \next@tdpage
21017 \if@twocolumn
21018 \ifnum \col@number=\@ne
21019 \ifx\@extratitle\@empty
21020 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21021 \else
21022 \@makeextratitle
21023 \fi
21024 \ifx\@frontispiece\@empty
21025 \ifx\@extratitle\@empty\else\next@tdpage\fi
21026 \else
21027 \next@tpage
21028 \@makefrontispiece
21029 \next@tdpage
21030 \fi
21031 \@maketitle
21032 \else
21033 \ifx\@extratitle\@empty
21034 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21035 \else
21036 \twocolumn[\@makeextratitle]%
21037 \fi
21038 \ifx\@frontispiece\@empty
21039 \ifx\@extratitle\@empty\else\next@tdpage\fi
21040 \else
21041 \next@tpage
21042 \twocolumn[\@makefrontispiece]%
21043 \next@tdpage
21044 \fi
21045 \twocolumn[\@maketitle]%
21046 \fi
21047 \else
21048 \ifx\@extratitle\@empty
21049 \ifx\@frontispiece\@empty\else \mbox{}\fi
21050 \else
21051 \@makeextratitle
21052 \fi
21053 \ifx\@frontispiece\@empty
21054 \ifx\@extratitle\@empty\else\next@tdpage\fi
21055 \else
21056 \next@tpage
21057 \@makefrontispiece
21058 \next@tdpage
21059 \fi
21060 \@maketitle
21061 \fi
21062 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21063 \@thanks\global\let\@thanks\@empty

```



```

21064 \endgroup
21065 \fi
21066 \setcounter{footnote}{0}%
21067 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21068 \let\thanks\relax
21069 \let\LTRthanks\relax
21070 \let\RTLthanks\relax
21071 \let\maketitle\relax
21072 \let\@maketitle\relax
21073 \global\let\@thanks\@empty
21074 \global\let\@author\@empty
21075 \global\let\@date\@empty
21076 \global\let\@title\@empty
21077 \global\let\@subtitle\@empty
21078 \global\let\@extratitle\@empty
21079 \global\let\@frontispiece\@empty
21080 \global\let\@titlehead\@empty
21081 \global\let\@subject\@empty
21082 \global\let\@publishers\@empty
21083 \global\let\@uppertitleback\@empty
21084 \global\let\@lowertitleback\@empty
21085 \global\let\@dedication\@empty
21086 \global\let\author\relax
21087 \global\let\title\relax
21088 \global\let\extratitle\relax
21089 \global\let\titlehead\relax
21090 \global\let\subject\relax
21091 \global\let\publishers\relax
21092 \global\let\uppertitleback\relax
21093 \global\let\lowertitleback\relax
21094 \global\let\dedication\relax
21095 \global\let\date\relax
21096 \fi
21097 \global\let\and\relax
21098 }%
21099 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21100 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21101 \renewcommand*\thesection{%
21102 \expandafter\ifnum\scr@v@is@gt{2.97d}%
21103 \if@mainmatter\thechapter\@SepMark\fi
21104 \else
21105 \thechapter\@SepMark%
21106 \fi
21107 \@arabic\c@section
21108 }
21109 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
21110 \renewcommand*{\thesubsubsection}{%
21111 \thesubsection\@SepMark\@arabic\c@subsubsection
21112 }
21113 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21114 \renewcommand*{\thesubparagraph}{%
21115 \theparagraph\@SepMark\@arabic\c@subparagraph
21116 }
21117 \expandafter\ifnum\scr@v@is@le{2.97d}%

```



```

21118 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21119 \fi
21120 \expandafter\ifnum\scr@v@is@le{2.97d}%
21121 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21122 \fi
21123 \renewcommand*\theequation{%
21124 \expandafter\ifnum\scr@v@is@gt{2.97d}%
21125 \if@mainmatter\thechapter\@SepMark\fi
21126 \else
21127 \thechapter\@SepMark%
21128 \fi
21129 \@arabic\c@equation
21130 }
21131 \renewenvironment{thebibliography}[1]{%
21132 \if@bib@break@
21133 \bib@beginhook
21134 \else
21135 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21136 \setchapterpreamble{\bibpreamble}%
21137 \fi\fi
21138 \bib@heading
21139 \bib@beginhook
21140 \bib@before@hook
21141 \fi
21142 \renewcommand{\BreakBibliography}[1]{%
21143 \@bib@break
21144 \end{thebibliography}%
21145 \begingroup ##1\endgroup
21146 \begin{thebibliography}{#1}
21147 }%
21148 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21149 \bidi@thebibliography@font@hook%
21150 \list{%
21151 \@biblabel{\@arabic\c@enumiv}%
21152 }{%
21153 \settowidth\labelwidth{\@biblabel{#1}}%
21154 \leftmargin\labelwidth
21155 \advance\leftmargin\labelsep
21156 \@openbib@code
21157 \if@bib@break@
21158 \edef\@tempa{%
21159 \noexpand\usecounter{enumiv}%
21160 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21161 }\@tempa
21162 \no@bib@break
21163 \else
21164 \usecounter{enumiv}%
21165 \fi
21166 \let\p@enumiv\@empty
21167 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21168 }%
21169 \sloppy\clubpenalty4000 \widowpenalty4000
21170 \sfcode`\.=\@m
21171 }{%

```



```

21172 \if@bib@break@
21173   \def\@noitemerr{%
21174     \@latex@warning{%
21175       \string\BreakBibliography\space at begin of `thebibliography'
21176       environment\MessageBreak
21177       or following \string\BreakBibliography}%
21178   }%
21179 \else
21180   \def\@noitemerr{%
21181     \@latex@warning{%
21182       Empty `thebibliography' environment or
21183       \string\BreakBibliography\MessageBreak
21184       before end of `thebibliography' environment}%
21185   }%
21186 \fi
21187 \endlist
21188 \if@bib@break@
21189 \else
21190   \bib@after@hook
21191   \let\bib@before@hook\@empty
21192   \let\bib@after@hook\@empty
21193 \fi
21194 \bib@endhook
21195 }
21196 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
21197 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
21198 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
21199 \renewcommand\marginline[1]{%
21200   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21201 }
21202 \renewcommand{\@makecaption}[3]{%
21203   \cap@margin
21204   \begingroup
21205     \ifonelinecaptions
21206       \def\stepcounter##1{\advance\value{##1}\@one}%
21207       \let\refstepcounter\stepcounter
21208       \let\label\@gobble
21209       \let\@footnotetext=\@gobble
21210       \let\@LTRfootnotetext=\@gobble
21211       \let\@RTLfootnotetext=\@gobble
21212       \let\hypertarget\@gobbletwo
21213       \edef\@xnewline{%
21214         \unexpanded{\ClassInfo{\KOMAClassName}}{%
21215           Workaround for not recommended usage of \string\\ or\MessageBreak
21216           \string\newline in caption text
21217         }%
21218         \hspace*{\linewidth}\hspace{1sp}%
21219       }%
21220       \unexpanded\expandafter{\@xnewline}%
21221     }%
21222     \edef\@xcentercr{%
21223       \unexpanded{\ClassInfo{\KOMAClassName}}{%
21224         Workaround for not recommended usage of \string\\ or\MessageBreak
21225         \string\newline in caption text

```



```

21226         }%
21227         \hspace*{\linewidth}\hspace{1sp}%
21228     }%
21229     \unexpanded\expandafter{\@xcentercr}%
21230 }%
21231 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21232 \ifdim\@tempdima>\cap@width
21233     \aftergroup\scr@makemultilinecaption
21234 \else
21235     \aftergroup\scr@makesinglelinecaption
21236 \fi
21237 \else
21238     \aftergroup\scr@makemultilinecaption
21239 \fi
21240 \endgroup
21241 {#1}{#2}{#3}%
21242 }
21243 \renewcommand{\scr@makesinglelinecaption}[3]{%
21244     {%
21245         \usefontofkomafont{caption}{%
21246             \hb@xt@{\hspace{0pt}}{\hsize{%
21247                 \cap@left
21248                 \if@RTL
21249                 \beginR
21250                 \fi
21251                 \scr@makesinglelinecaption{#1}{#2}{#3}%
21252                 \if@RTL
21253                 \endR
21254                 \fi
21255                 \cap@right
21256             }}\par\kern\dp\strutbox%
21257         }%
21258     }\kern-\dp\strutbox
21259 }
21260 \renewcommand{\@makecaption}[2]{%
21261     \if@captionabove
21262         \vskip\belowcaptionskip
21263     \else
21264         \vskip\abovecaptionskip
21265     \fi
21266     \@makecaption\@firstofone{#1}{#2}%
21267     \if@captionabove
21268         \vskip\abovecaptionskip
21269     \else
21270         \vskip\belowcaptionskip
21271     \fi
21272 }
21273
21274 \renewcommand{\scr@makesinglelinecaption}[3]{%
21275     {\usekomafont{caption}{\strut\ignorespaces
21276         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21277     \ignorespaces #3\unskip}}%
21278 }
21279

```



```

21280 \renewcommand{\scr@makemultilinecaption}[3]{%
21281   {%
21282     \usefontofkomafont{caption}{%
21283       \hb@xt@{\hsize{%
21284         \cap@left
21285         \vbox{\hsize\cap@width\linewidth\hsize
21286           \scr@ifundefinedorrelax{@captype}{%
21287             \ClassWarning{\KOMAClassName}{%
21288               `string\caption' outside float.\MessageBreak
21289               Seems you are using `string\caption' outside a
21290               float.\MessageBreak
21291               Maybe you are using a package that uses
21292               `string\@makecaption'\MessageBreak
21293               without setting `string\@captype' before.\MessageBreak
21294               Because I cannot detect the caption type, I'm using\MessageBreak
21295               the empty one.%
21296             }%
21297             \let\@captype\@empty
21298           }{}%
21299           \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
21300             \@nameuse{ragged\@captype caption}%
21301           }%
21302           \ifdofullc@p
21303             \@hangfrom{%
21304               \strut
21305               \scr@smashdp{%
21306                 #1{%
21307                   \usekomafont{caption}{%
21308                     \usekomafont{captionlabel}{#2\captionformat}%
21309                   }%
21310                 }%
21311               }%
21312             }%
21313             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21314           \else
21315             \ifdim\cap@indent<\z@
21316               \strut
21317               #1{%
21318                 {\usekomafont{caption}{%
21319                   \usekomafont{captionlabel}{#2\captionformat}%
21320                 }%
21321               }\par}%
21322             \noindent{{\usekomafont{caption}{%
21323               \hspace*{-\cap@indent}#3\scr@endstrut
21324             }}\par}%
21325           \else
21326             \ifcapbreak
21327               \strut
21328               #1{%
21329                 {\usekomafont{caption}{%
21330                   \usekomafont{captionlabel}{#2\captionformat}%
21331                 }
21332               }\par}%
21333             \noindent\@hangfrom{\hspace*{\cap@indent}}%

```




```

21334         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21335     \else
21336         \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21337         {%
21338             \hspace{-\cap@indent}%
21339             \scr@smashdp{%
21340                 #1{\usekomafont{caption}{%
21341                     \usekomafont{captionlabel}{#2\captionformat}%
21342                 }}%
21343             }%
21344         }%
21345         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21346     }%
21347     \fi
21348 \fi
21349 \fi
21350 }%
21351 \cap@right
21352 }\par\kern\dp\strutbox
21353 }%
21354 }\kern-\dp\strutbox
21355 }
21356
21357
21358 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21359     \if@komalongtable
21360         \renewcommand{\LT@makecaption}[3]{%
21361             \LT@mc\LT@cols c{%
21362                 \hbox to\z@{\hss\parbox[t]{\linewidth}{%
21363                     \if@captionabove\else\vskip\belowcaptionskip\fi
21364                     \@makecaption{#1}{#2}{#3}%
21365                     \endgraf
21366                     \if@captionabove\vskip\abovecaptionskip\fi
21367                 }}%
21368                 \hss
21369             }%
21370         }%
21371     }%
21372     \renewcommand*{\scr@LT@array}{}%
21373     \let\scr@LT@array=\LT@array
21374     \renewcommand*{\LT@array}{%
21375         \def\@capytype{table}%
21376         \@ifundefined{LTcapytype}{}{%
21377             \Ifstr{\LTcapytype}{}{}{\let\@capytype\LTcapytype}%
21378         }%
21379         \csname tocbasic_if_caption_above:TF\endcsname
21380         {\@captionabovetrue}{\@captionabovetrue}%
21381         \def\captionabove{\noalign{\global\@captionabovetrue}%
21382             \LT@caption}%
21383         \def\captionbelow{\noalign{\global\@captionabovetrue}%
21384             \LT@caption}%
21385         \scr@LT@array
21386     }%
21387     \ClassInfo{\KOMAClassName}{%

```



```

21388     longtable captions redefined%
21389 }%
21390 \fi
21391 }
21392
21393 \CloneTOCEntryStyle{tocline}{part}
21394 \TOCEntryStyleStartInitCode{part}{%
21395   \expandafter\renewcommand%
21396   \csname scr@tso@#1@linefill\endcsname{\hfill}%
21397   \expandafter\renewcommand%
21398   \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
21399   \expandafter\renewcommand%
21400   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21401     {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
21402   \expandafter\renewcommand\expandafter*%
21403   \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
21404 }
21405
21406 \CloneTOCEntryStyle{tocline}{chapter}
21407 \TOCEntryStyleStartInitCode{chapter}{%
21408   \expandafter\renewcommand%
21409   \csname scr@tso@#1@linefill\endcsname{%
21410     \if@chapterentrywithdots
21411       {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
21412     \else
21413       \hfill
21414     \fi
21415   }%
21416   \expandafter\renewcommand%
21417   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
21418   \expandafter\renewcommand%
21419   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21420     {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
21421   \expandafter\renewcommand\expandafter*%
21422   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
21423 }
21424
21425 \CloneTOCEntryStyle{tocline}{section}
21426 \TOCEntryStyleStartInitCode{section}{%
21427   \expandafter\renewcommand%
21428   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
21429   \expandafter\renewcommand%
21430   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21431     {\normalfont\normalcolor ##1}}%
21432 }
21433
21434 \CloneTOCEntryStyle{section}{default}
21435
21436 \DeclareSectionCommand[%
21437   style=chapter,%
21438   level=\z@,%
21439   pagestyle=plain,%
21440   tocstyle=chapter,%
21441   tocindent=\z@,%

```



```

21442   tocnumwidth=1.5em%
21443 ]{chapter}
21444 \DeclareSectionCommand[%
21445   style=section,%
21446   level=1,%
21447   indent=\z@,%
21448   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
21449   afterskip=2.3ex \@plus .2ex,%
21450   tocstyle=section,%
21451   tocindentfollows=chapter,%
21452   tocindent=1.5em,%
21453   tocnumwidth=2.3em%
21454 ]{section}
21455 \DeclareSectionCommand[%
21456   style=part,%
21457   level=\m@ne,%
21458   pagestyle=plain,%
21459   tocstyle=part,%
21460   toplevel=\m@ne,%
21461   tocindent=\z@,%
21462   tocnumwidth=2em%
21463 ]{part}
21464 \DeclareSectionCommand[%
21465   style=section,%
21466   level=2,%
21467   indent=\z@,%
21468   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
21469   afterskip=1.5ex \@plus .2ex,%
21470   tocstyle=section,%
21471   tocindent=3.8em,%
21472   tocnumwidth=3.2em%
21473 ]{subsection}
21474 \DeclareSectionCommand[%
21475   style=section,%
21476   level=3,%
21477   indent=\z@,%
21478   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
21479   afterskip=1.5ex \@plus .2ex,%
21480   tocstyle=section,%
21481   tocindent=7.0em,%
21482   tocnumwidth=4.1em%
21483 ]{subsubsection}
21484 \DeclareSectionCommand[%
21485   style=section,%
21486   level=4,%
21487   indent=\z@,%
21488   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
21489   afterskip=-1em,%
21490   tocindentfollows=subsubsection,%
21491   tocstyle=section,%
21492   tocindent=10em,%
21493   tocnumwidth=5em%
21494 ]{paragraph}
21495 \DeclareSectionCommand[%

```



```

21496 style=section,%
21497 level=5,%
21498 indent=\scr@parindent,%
21499 beforeskip=3.25ex \@plus1ex \@minus .2ex,%
21500 afterskip=-1em,%
21501 tocstyle=section,%
21502 tocindent=12em,%
21503 tocnumwidth=6em%
21504 ]{subparagraph}

```

144 File scrreprt-xetex-bidi.def

```

21505 \ProvidesFile{scrreprt-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for scrreprt class f
21506 \newcommand{\scr@saved@LTRfootnotetext}{}
21507 \newcommand{\scr@saved@RTLfootnotetext}{}
21508 \let\scr@saved@footnotetext\@footnotetext
21509 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21510 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21511 \renewcommand{\@footnotetext}[1]{%
21512   \scr@saved@footnotetext{#1}%
21513   \csname FN@mfb@prepare\endcsname
21514 }
21515 \renewcommand{\@LTRfootnotetext}[1]{%
21516   \scr@saved@LTRfootnotetext{#1}%
21517   \csname FN@mfb@prepare\endcsname
21518 }
21519 \renewcommand{\@RTLfootnotetext}[1]{%
21520   \scr@saved@RTLfootnotetext{#1}%
21521   \csname FN@mfb@prepare\endcsname
21522 }
21523 \renewcommand\deffootnote[4][1]{%
21524   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21525     \long\def\@makefntext##1{%
21526       \ExecuteDoHook{footnote/text/begin}%
21527       \raggedfootnote
21528       \ifRTL
21529         \rightskip
21530       \else
21531         \leftskip
21532       \fi
21533       #2
21534       \l@addto@macro\@trivlist{%
21535         \ifnum\@listdepth=\@one
21536           \ifRTL
21537             \advance\rightmargin #2\relax
21538           \else
21539             \advance\leftmargin #2\relax
21540           \fi
21541         \fi
21542       }%
21543       \parindent #3\noindent
21544       \IfArgIsEmpty{#1}{}{%
21545         \hskip \dimexpr #1-#2\relax
21546       }%

```



```

21547 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21548 \ExecuteDoHook{footnote/text/end}%
21549 }%
21550 \else
21551 \ClassInfo{\KOMAClassName}{%
21552 Using old \string\@makefnmark\space due to compatibility
21553 level\MessageBreak
21554 less than 3.22}%
21555 \long\def\@makefnmark##1{%
21556 \setlength{\@tempdimc}{#3}%
21557 \def\@tempa{#1}\ifx\@tempa\@empty
21558 \setpar{\@par
21559 \@tempdima = \hsize
21560 \addtolength{\@tempdima}{-#2}%
21561 \if@RTL
21562 \parshape \@ne \z@ \@tempdima
21563 \else
21564 \parshape \@ne #2 \@tempdima
21565 \fi
21566 }%
21567 \else
21568 \addtolength{\@tempdimc}{#2}%
21569 \addtolength{\@tempdimc}{-#1}%
21570 \setpar{\@par
21571 \@tempdima = \hsize
21572 \addtolength{\@tempdima}{-#1}%
21573 \@tempdimb = \hsize
21574 \addtolength{\@tempdimb}{-#2}%
21575 \if@RTL
21576 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21577 \else
21578 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21579 \fi
21580 }%
21581 \fi
21582 \par
21583 \parindent\@tempdimc\noindent
21584 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21585 }%
21586 \fi
21587 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21588 }
21589 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21590 \renewcommand*\left@footnoterule{%
21591 \normalsize\ftn@rule@test@values
21592 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21593 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21594 {\usekomafont{footnoterule}{%
21595 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21596 \kern 2.6\p@}
21597 \renewcommand*\right@footnoterule{%
21598 \normalsize\ftn@rule@test@values
21599 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21600 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi

```



```

21601 \nointerlineskip
21602 {\usekomafont{footnoterule}{%
21603     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
21604     \kern 2.6\p@}}
21605 \renewcommand*\maketitle[1][1]{%
21606 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21607 \else
21608     \def\and{%
21609         \end{tabular}%
21610         \hskip 1em \@plus.17fil%
21611         \begin{tabular}[t]{c}%
21612     }%
21613 \fi
21614 \if@titlepage
21615     \begin{titlepage}
21616         \setcounter{page}{%
21617             #1%
21618         }%
21619         \if@titlepageiscoverpage
21620             \edef\titlename@restore{%
21621                 \noexpand\endgroup
21622                 \noexpand\global\noexpand\@colht\the\@colht
21623                 \noexpand\global\noexpand\@colroom\the\@colroom
21624                 \noexpand\global\vsizethe\vsizethe
21625                 \noexpand\global\noexpand\@titlepageiscoverpagefalse
21626                 \noexpand\let\noexpand\titlename@restore\noexpand\relax
21627             }%
21628             \begingroup
21629             \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21630             \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21631             \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21632             \textwidth=\dimexpr
21633             \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21634             \textheight=\dimexpr
21635             \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21636             \headheight=0pt
21637             \headsep=0pt
21638             \footskip=\baselineskip
21639             \@colht=\textheight
21640             \@colroom=\textheight
21641             \vsizethe\textheight
21642             \columnwidth=\textwidth
21643             \hsizethe\columnwidth
21644             \linewidth=\hsizethe
21645         \else
21646             \let\titlename@restore\relax
21647         \fi
21648         \let\footnotesize\small
21649         \let\right@footnoterule\relax
21650         \let\left@footnoterule\relax
21651         \let\textwidth@footnoterule\relax
21652         \let\footnote\thanks
21653         \let\LTRfootnote\LTRthanks
21654         \let\RTLfootnote\RTLthanks

```



```

21655 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21656 \let\@oldmakefnmark\@makefnmark
21657 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21658 \ifx\@extratitle\@empty
21659   \ifx\@frontispiece\@empty
21660   \else
21661     \if@twoside\mbox{}\next@tpage\fi
21662     \noindent\@frontispiece\next@tdpage
21663   \fi
21664 \else
21665   \noindent\@extratitle
21666   \ifx\@frontispiece\@empty
21667   \else
21668     \next@tpage
21669     \noindent\@frontispiece
21670   \fi
21671   \next@tdpage
21672 \fi
21673 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updateerelative
21674 \ifx\@titlehead\@empty \else
21675   \begin{minipage}[t]{\textwidth}%
21676   \usekomafont{titlehead}{\@titlehead\par}%
21677   \end{minipage}\par
21678 \fi
21679 \null\vfill
21680 \begin{center}
21681   \ifx\@subject\@empty \else
21682     {\usekomafont{subject}{\@subject\par}}%
21683     \vskip 3em
21684   \fi
21685   {\usekomafont{title}{\huge \@title\par}}%
21686   \vskip 1em
21687   {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21688   \vskip 2em
21689   {%
21690     \usekomafont{author}{%
21691       \lineskip 0.75em
21692       \begin{tabular}[t]{c}
21693         \@author
21694       \end{tabular}\par
21695     }%
21696   }%
21697   \vskip 1.5em
21698   {\usekomafont{date}{\@date \par}}%
21699   \vskip \z@ \@plus3fill
21700   {\usekomafont{publishers}{\@publishers \par}}%
21701   \vskip 3em
21702 \end{center}\par
21703 \@thanks\global\let\@thanks\@empty
21704 \vfill\null
21705 \if@twoside
21706   \@tempwattrue
21707   \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21708   \else

```



```

21709         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21710             \@tempswafalse
21711         \fi\fi
21712     \fi
21713     \if@tempswa
21714         \next@tpage
21715         \begin{minipage}[t]{\textwidth}
21716             \@uppertitleback
21717         \end{minipage}\par
21718         \vfill
21719         \begin{minipage}[b]{\textwidth}
21720             \@lowertitleback
21721         \end{minipage}\par
21722         \@thanks\global\let\@thanks\@empty
21723     \fi
21724 \else
21725     \ifx\@uppertitleback\@empty\else
21726         \ClassWarning{\KOMAClassName}{%
21727             non empty \string\uppertitleback\space ignored
21728             by \string\maketitle\MessageBreak
21729             in `twoside=false' mode%
21730         }%
21731     \fi
21732     \ifx\@lowertitleback\@empty\else
21733         \ClassWarning{\KOMAClassName}{%
21734             non empty \string\lowertitleback\space ignored
21735             by \string\maketitle\MessageBreak
21736             in `twoside=false' mode%
21737         }%
21738     \fi
21739 \fi
21740 \ifx\@dedication\@empty
21741 \else
21742     \next@tdpage\null\vfill
21743     {\centering\usekomafont{dedication}{\@dedication \par}}%
21744     \vskip \z@ \@plus3fill
21745     \@thanks\global\let\@thanks\@empty
21746     \cleardoubleemptypage
21747 \fi
21748 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21749 \end{titlepage}
21750 \else
21751     \par
21752     \@tempcnta=%
21753     #1%
21754     \relax\ifnum\@tempcnta=1\else
21755         \ClassWarning{\KOMAClassName}{%
21756             Optional argument of \string\maketitle\space ignored\MessageBreak
21757             in `titlepage=false' mode%
21758         }%
21759     \fi
21760     \ifx\@uppertitleback\@empty\else
21761         \ClassWarning{\KOMAClassName}{%
21762             non empty \string\uppertitleback\space ignored

```




```

21763         by \string\maketitle\MessageBreak
21764         in `titlepage=false' mode%
21765     }%
21766 \fi
21767 \ifx\@lowertitleback\@empty\else
21768     \ClassWarning{\KOMAClassName}{%
21769         non empty \string\lowertitleback\space ignored
21770         by \string\maketitle\MessageBreak
21771         in `titlepage=false' mode%
21772     }%
21773 \fi
21774 \begingroup
21775     \let\titlepage@restore\relax
21776     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21777     \let\@oldmakefnmark\@makefnmark
21778     \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
21779     \next@tdpage
21780     \if@twocolumn
21781         \ifnum \col@number=\@one
21782             \ifx\@extratitle\@empty
21783                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21784             \else
21785                 \@makeextratitle
21786             \fi
21787             \ifx\@frontispiece\@empty
21788                 \ifx\@extratitle\@empty\else\next@tdpage\fi
21789             \else
21790                 \next@tpage
21791                 \@makefrontispiece
21792                 \next@tdpage
21793             \fi
21794             \@maketitle
21795         \else
21796             \ifx\@extratitle\@empty
21797                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21798             \else
21799                 \twocolumn[\@makeextratitle]%
21800             \fi
21801             \ifx\@frontispiece\@empty
21802                 \ifx\@extratitle\@empty\else\next@tdpage\fi
21803             \else
21804                 \next@tpage
21805                 \twocolumn[\@makefrontispiece]%
21806                 \next@tdpage
21807             \fi
21808             \twocolumn[\@maketitle]%
21809         \fi
21810     \else
21811         \ifx\@extratitle\@empty
21812             \ifx\@frontispiece\@empty\else \mbox{}\fi
21813         \else
21814             \@makeextratitle
21815         \fi
21816         \ifx\@frontispiece\@empty

```



```

21817         \ifx\@extratitle\@empty\else\next@tdpage\fi
21818     \else
21819         \next@tpage
21820         \@makefrontispiece
21821         \next@tdpage
21822     \fi
21823     \@maketitle
21824 \fi
21825     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21826     \@thanks\global\let\@thanks\@empty
21827 \endgroup
21828 \fi
21829 \setcounter{footnote}{0}%
21830 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21831     \let\thanks\relax
21832     \let\LTRthanks\relax
21833     \let\RTLthanks\relax
21834     \let\maketitle\relax
21835     \let\@maketitle\relax
21836     \global\let\@thanks\@empty
21837     \global\let\@author\@empty
21838     \global\let\@date\@empty
21839     \global\let\@title\@empty
21840     \global\let\@subtitle\@empty
21841     \global\let\@extratitle\@empty
21842     \global\let\@frontispiece\@empty
21843     \global\let\@titlehead\@empty
21844     \global\let\@subject\@empty
21845     \global\let\@publishers\@empty
21846     \global\let\@uppertitleback\@empty
21847     \global\let\@lowertitleback\@empty
21848     \global\let\@dedication\@empty
21849     \global\let\author\relax
21850     \global\let\title\relax
21851     \global\let\extratitle\relax
21852     \global\let\titlehead\relax
21853     \global\let\subject\relax
21854     \global\let\publishers\relax
21855     \global\let\uppertitleback\relax
21856     \global\let\lowertitleback\relax
21857     \global\let\dedication\relax
21858     \global\let\date\relax
21859 \fi
21860 \global\let\and\relax
21861 }%
21862 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21863 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21864 \renewcommand*\thesection{%
21865     \thechapter\@SepMark%
21866     \@arabic\c@section
21867 }
21868 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
21869 \renewcommand*{\thesubsubsection}{%
21870     \thesubsection\@SepMark\@arabic\c@subsubsection

```



```

21871 }
21872 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21873 \renewcommand*{\thesubparagraph}{\%
21874 \theparagraph\@SepMark\@arabic\c@subparagraph
21875 }
21876 \expandafter\ifnum\scr@v@is@le{2.97d}%
21877 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21878 \fi
21879 \expandafter\ifnum\scr@v@is@le{2.97d}%
21880 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21881 \fi
21882 \renewcommand*\theequation{%
21883 \thechapter\@SepMark%
21884 \@arabic\c@equation
21885 }
21886 \renewenvironment{thebibliography}[1]{%
21887 \if@bib@break@
21888 \bib@beginhook
21889 \else
21890 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21891 \setchapterpreamble{\bibpreamble}%
21892 \fi\fi
21893 \bib@heading
21894 \bib@beginhook
21895 \bib@before@hook
21896 \fi
21897 \renewcommand{\BreakBibliography}[1]{%
21898 \@bib@break
21899 \end{thebibliography}%
21900 \begingroup ##1\endgroup
21901 \begin{thebibliography}#{#1}
21902 }%
21903 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21904 \bidi@thebibliography@font@hook%
21905 \list{%
21906 \@biblabel{\@arabic\c@enumiv}%
21907 }{%
21908 \settowidth\labelwidth{\@biblabel{#1}}%
21909 \leftmargin\labelwidth
21910 \advance\leftmargin\labelsep
21911 \@openbib@code
21912 \if@bib@break@
21913 \edef\@tempa{%
21914 \noexpand\usecounter{enumiv}%
21915 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21916 }\@tempa
21917 \no@bib@break
21918 \else
21919 \usecounter{enumiv}%
21920 \fi
21921 \let\p@enumiv\@empty
21922 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21923 }%
21924 \sloppy\clubpenalty4000 \widowpenalty4000

```



```

21925 \sfcode`\.=\@m
21926 }{%
21927 \if@bib@break@
21928 \def\@noitemerr{%
21929 \latex@warning{%
21930 \string\BreakBibliography\space at begin of `thebibliography'
21931 environment\MessageBreak
21932 or following \string\BreakBibliography}%
21933 }%
21934 \else
21935 \def\@noitemerr{%
21936 \latex@warning{%
21937 Empty `thebibliography' environment or
21938 \string\BreakBibliography\MessageBreak
21939 before end of `thebibliography' environment}%
21940 }%
21941 \fi
21942 \endlist
21943 \if@bib@break@
21944 \else
21945 \bib@after@hook
21946 \let\bib@before@hook\@empty
21947 \let\bib@after@hook\@empty
21948 \fi
21949 \bib@endhook
21950 }
21951 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
21952 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
21953 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
21954 \renewcommand\marginline[1]{%
21955 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21956 }
21957 \renewcommand{\@makecaption}[3]{%
21958 \cap@margin
21959 \begingroup
21960 \ifonelinecaptions
21961 \def\stepcounter##1{\advance\value{##1}\@ne}%
21962 \let\refstepcounter\stepcounter
21963 \let\label\@gobble
21964 \let\@footnotetext=\@gobble
21965 \let\@LTRfootnotetext=\@gobble
21966 \let\@RTLfootnotetext=\@gobble
21967 \let\hypertarget\@gobbletwo
21968 \edef\xnewline{%
21969 \unexpanded{\ClassInfo{\KOMAClassName}}{%
21970 Workaround for not recommended usage of \string\\ or\MessageBreak
21971 \string\newline in caption text
21972 }%
21973 \hspace*{\linewidth}\hspace{1sp}%
21974 }%
21975 \unexpanded\expandafter{\xnewline}%
21976 }%
21977 \edef\xcentercr{%
21978 \unexpanded{\ClassInfo{\KOMAClassName}}{%

```



```

21979         Workaround for not recommended usage of \string\\ or\MessageBreak
21980         \string\newline in caption text
21981     }%
21982     \hspace*{\linewidth}\hspace{1sp}%
21983 }%
21984 \unexpanded\expandafter{\@xcentercr}%
21985 }%
21986 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21987 \ifdim\@tempdima>\cap@width
21988     \aftergroup\scr@makemultilinecaption
21989 \else
21990     \aftergroup\scr@makesinglelinecaption
21991 \fi
21992 \else
21993     \aftergroup\scr@makemultilinecaption
21994 \fi
21995 \endgroup
21996 {#1}{#2}{#3}%
21997 }
21998 \renewcommand{\scr@makesinglelinecaption}[3]{%
21999     {%
22000         \usefontofkomafont{caption}{%
22001             \hb@xt@{\hsize{%
22002                 \cap@left
22003                 \if@RTL
22004                     \beginR
22005                     \fi
22006                 \scr@makesinglelinecaption{#1}{#2}{#3}%
22007                 \if@RTL
22008                     \endR
22009                 \fi
22010                 \cap@right
22011             }\par\kern\dp\strutbox%
22012             }%
22013         }\kern-\dp\strutbox
22014     }
22015 \renewcommand{\@makecaption}[2]{%
22016     \if@captionabove
22017         \vskip\belowcaptionskip
22018     \else
22019         \vskip\abovecaptionskip
22020     \fi
22021     \@makecaption\@firstofone{#1}{#2}%
22022     \if@captionabove
22023         \vskip\abovecaptionskip
22024     \else
22025         \vskip\belowcaptionskip
22026     \fi
22027 }
22028
22029 \renewcommand{\scr@makesinglelinecaption}[3]{%
22030     {\usekomafont{caption}{\strut\ignorespaces
22031         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22032         \ignorespaces #3\unskip}}%

```



```

22033 }
22034
22035 \renewcommand{\scr@makemultilinecaption}[3]{%
22036   {%
22037     \usefontofkomafont{caption}{%
22038       \hb@xt@{hsize}{%
22039         \cap@left
22040         \vbox{
22041           \hsize\cap@width\linewidth\hsize
22042           \scr@ifundefinedorrelax{@captive}{%
22043             \ClassWarning{\KOMAClassName}{%
22044               `string\caption' outside float.\MessageBreak
22045               Seems you are using `string\caption' outside a
22046               float.\MessageBreak
22047               Maybe you are using a package that uses
22048               `string\@makecaption'\MessageBreak
22049               without setting `string\@captive' before.\MessageBreak
22050               Because I cannot detect the caption type, I'm using\MessageBreak
22051               the empty one.%
22052             }%
22053             \let\@captive\@empty
22054           }{}%
22055           \scr@ifundefinedorrelax{ragged\@captive caption}{\raggedcaption}{%
22056             \@nameuse{ragged\@captive caption}%
22057           }%
22058           \ifdofullc@p
22059             \@hangfrom{%
22060               \strut
22061               \scr@smashdp{%
22062                 #1{%
22063                   \usekomafont{caption}{%
22064                     \usekomafont{captionlabel}{#2\captionformat}%
22065                   }%
22066                 }%
22067               }%
22068               {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22069             \else
22070               \ifdim\cap@indent<\z@
22071                 \strut
22072                 #1{%
22073                   {\usekomafont{caption}{%
22074                     \usekomafont{captionlabel}{#2\captionformat}%
22075                   }%
22076                 }\par}%
22077               \noindent{{\usekomafont{caption}{%
22078                 \hspace*{-\cap@indent}#3\scr@endstrut
22079               }}\par}%
22080             \else
22081               \if@capbreak
22082                 \strut
22083                 #1{%
22084                   {\usekomafont{caption}{%
22085                     \usekomafont{captionlabel}{#2\captionformat}%
22086                   }%

```



```

22087         }\par}%
22088         \noindent\@hangfrom{\hspace*{\cap@indent}}%
22089         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22090     \else
22091         \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22092         {%
22093             \hspace{-\cap@indent}%
22094             \scr@smashdp{%
22095                 #1{\usekomafont{caption}{%
22096                     \usekomafont{captionlabel}{#2\captionformat}%
22097                     }%
22098                 }%
22099             }%
22100             {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22101         }%
22102     \fi
22103 \fi
22104 \fi
22105 }%
22106 \cap@right
22107 }\par\kern\dp\strutbox
22108 }%
22109 }\kern-\dp\strutbox
22110 }
22111
22112
22113 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22114     \if@komalongtable
22115         \renewcommand{\LT@makecaption}[3]{%
22116             \LT@mc\LT@cols c{%
22117                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
22118                     \if@captionabove\else\vskip\belowcaptionskip\fi
22119                     \@makecaption{#1}{#2}{#3}%
22120                     \endgraf
22121                     \if@captionabove\vskip\abovecaptionskip\fi
22122                     }%
22123                     \hss
22124                     }%
22125                 }%
22126             }%
22127         \renewcommand*{\scr@LT@array}{}%
22128         \let\scr@LT@array=\LT@array
22129         \renewcommand*{\LT@array}{%
22130             \def\@capytype{table}%
22131             \@ifundefined{LTcapytype}{}%{
22132                 \Ifstr{\LTcapytype}{-}{\let\@capytype\LTcapytype}%
22133             }%
22134             \csname tocbasic_if_caption_above:TF\endcsname
22135             {\@captionabovetrue}{\@captionabovefalse}%
22136             \def\captionabove{\noalign{\global\@captionabovetrue}%
22137                 \LT@caption}%
22138             \def\captionbelow{\noalign{\global\@captionabovefalse}%
22139                 \LT@caption}%
22140             \scr@LT@array

```



```

22141 }%
22142 \ClassInfo{\KOMAClassName}{%
22143     longtable captions redefined%
22144 }%
22145 \fi
22146 }
22147
22148 \CloneTOCEntryStyle{tocline}{part}
22149 \TOCEntryStyleStartInitCode{part}{%
22150     \expandafter\renewcommand%
22151     \csname scr@tso@#1@linefill\endcsname{\hfill}%
22152     \expandafter\renewcommand%
22153     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22154     \expandafter\renewcommand%
22155     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22156         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22157     \expandafter\renewcommand\expandafter*%
22158     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22159 }
22160
22161 \CloneTOCEntryStyle{tocline}{chapter}
22162 \TOCEntryStyleStartInitCode{chapter}{%
22163     \expandafter\renewcommand%
22164     \csname scr@tso@#1@linefill\endcsname{%
22165         \ifchapterentrywithdots
22166             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22167         \else
22168             \hfill
22169         \fi
22170     }%
22171     \expandafter\renewcommand%
22172     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22173     \expandafter\renewcommand%
22174     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22175         {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22176     \expandafter\renewcommand\expandafter*%
22177     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
22178 }
22179
22180 \CloneTOCEntryStyle{tocline}{section}
22181 \TOCEntryStyleStartInitCode{section}{%
22182     \expandafter\renewcommand%
22183     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22184     \expandafter\renewcommand%
22185     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22186         {\normalfont\normalcolor ##1}}%
22187 }
22188
22189 \CloneTOCEntryStyle{section}{default}
22190
22191 \DeclareSectionCommand[%
22192     style=chapter,%
22193     level=\z@,%
22194     pagestyle=plain,%

```




```

22195   tocstyle=chapter,%
22196   tocindent=\z@,%
22197   tocnumwidth=1.5em%
22198 ]{chapter}
22199 \DeclareSectionCommand[%
22200   style=section,%
22201   level=1,%
22202   indent=\z@,%
22203   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
22204   afterskip=2.3ex \@plus .2ex,%
22205   tocstyle=section,%
22206   tocindentfollows=chapter,%
22207   tocindent=1.5em,%
22208   tocnumwidth=2.3em%
22209 ]{section}
22210 \DeclareSectionCommand[%
22211   style=part,%
22212   level=\m@ne,%
22213   pagestyle=plain,%
22214   tocstyle=part,%
22215   toplevel=\m@ne,%
22216   tocindent=\z@,%
22217   tocnumwidth=2em%
22218 ]{part}
22219 \DeclareSectionCommand[%
22220   style=section,%
22221   level=2,%
22222   indent=\z@,%
22223   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22224   afterskip=1.5ex \@plus .2ex,%
22225   tocstyle=section,%
22226   tocindent=3.8em,%
22227   tocnumwidth=3.2em%
22228 ]{subsection}
22229 \DeclareSectionCommand[%
22230   style=section,%
22231   level=3,%
22232   indent=\z@,%
22233   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22234   afterskip=1.5ex \@plus .2ex,%
22235   tocstyle=section,%
22236   tocindent=7.0em,%
22237   tocnumwidth=4.1em%
22238 ]{subsubsection}
22239 \DeclareSectionCommand[%
22240   style=section,%
22241   level=4,%
22242   indent=\z@,%
22243   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22244   afterskip=-1em,%
22245   tocindentfollows=subsubsection,%
22246   tocstyle=section,%
22247   tocindent=10em,%
22248   tocnumwidth=5em%

```



```

22249 ]{paragraph}
22250 \DeclareSectionCommand[%
22251   style=section,%
22252   level=5,%
22253   indent=\scr@parindent,%
22254   beforekip=3.25ex \@plus1ex \@minus .2ex,%
22255   afterskip=-1em,%
22256   tocstyle=section,%
22257   tocindent=12em,%
22258   tocnumwidth=6em%
22259 ]{subparagraph}

```

145 File `sidecap-xetex-bidi.def`

```

22260 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package f
22261 \RequirePackage{ragged2e}
22262 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
22263   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
22264 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi
22265 \renewcommand*{\SC@justify@caption}{\if@RTL%
22266 \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
22267   \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}
22268
22269 \@ifpackagewith{sidecap}{innercaption}{%
22270 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
22271   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}
22272 \renewcommand*{\SC@justify@caption}{%
22273   \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
22274 \renewcommand*{\SC@FLOAT}[2]{%
22275   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}
22276 \renewcommand*{\SC@justify@caption}{%
22277   \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
22278 }{}
22279
22280 \@ifpackagewith{sidecap}{rightcaption}{%
22281 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
22282 \def\SC@justify@caption{\RaggedLeft}\else%
22283 \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
22284 \def\SC@justify@caption{\RaggedRight}\fi%
22285 }{}
22286
22287 \@ifpackagewith{sidecap}{leftcaption}{%
22288 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
22289 \def\SC@justify@caption{\RaggedRight}\else%
22290 \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
22291 \def\SC@justify@caption{\RaggedLeft}\fi%
22292 }{}

```

146 File `soul-xetex-bidi.def`

```

22293 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
22294 \long\def\SOUL@start#1{%
22295   \let\bidi@RTL@everypar\@empty
22296   \let\<\SOUL@lowerthan

```



```

22297 \let\>\empty
22298 \def\soulomit{\noexpand\soulomit}%
22299 \gdef\SOUL@eventuallyexhyphen##1{%
22300 \let\SOUL@soeventuallyskip\relax
22301 \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@@\font
22302 \@minus\fontdimen4\font
22303 \SOUL@ignorespacesfalse
22304 \leavevmode
22305 \SOUL@preamble
22306 \SOUL@lasttoken={}%
22307 \SOUL@word={}%
22308 \SOUL@minus\z@
22309 \SOUL@comma\z@
22310 \SOUL@apo\z@
22311 \SOUL@grave\z@
22312 \SOUL@do{#1}%
22313 \SOUL@postamble
22314 }}
22315 \def\SOUL@ulunderline#1{%
22316 \setbox\z@\hbox{#1}%
22317 \dimen@=\wd\z@
22318 \dimen@i=\SOUL@uloverlap
22319 \advance\dimen@2\dimen@i
22320 \if@RTL
22321 \unhcopy\z@
22322 \llap{%
22323 \null
22324 \kern-\dimen@i
22325 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22326 }%
22327 \else
22328 \rlap{%
22329 \null
22330 \kern-\dimen@i
22331 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22332 }%
22333 \unhcopy\z@
22334 \fi
22335 }}
22336 \def\bid@SOUL@ulleaders{%
22337 \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\r
22338 }
22339 \def\SOUL@uleverySPACE#1{%
22340 \if@RTL
22341 #1%
22342 \bid@SOUL@ulleaders
22343 \hskip\spaceskip
22344 \else
22345 \SOUL@ulcolor{%
22346 #1%
22347 \SOUL@ulleaders
22348 \hskip\spaceskip
22349 }%
22350 \fi

```



```

22351 \null
22352 }

```

147 File stabular-xetex-bidi.def

```

22353 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
22354 \def\@stabular{%
22355   \leavevmode \bgroup \if@RTLtab\beginR \fi
22356   \let\@acol\@tabacol
22357   \let\@classz\@tabclassz
22358   \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
22359 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
22360   \egroup \if@RTLtab\endR\fi\egroup}
22361 \expandafter \let \csname endstabular*\endcsname = \endstabular
22362 \def\@sarray[#1]#2{%
22363   \bgroup
22364   \setbox\@arstrutbox\hbox{%
22365     \vrule \@height\arraystretch\ht\strutbox
22366     \@depth\arraystretch \dp\strutbox
22367     \@width\z@}%
22368   \mkpream{#2}%
22369   \edef\@preamble{%
22370     \ialign \noexpand\@halignto
22371       \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
22372   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22373   \let\@tabularnewline\%
22374   \let\@sharp##%
22375   \set@typeset@protect
22376   \lineskip\z@skip\baselineskip\z@skip
22377   \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
22378   \@preamble}

```

148 File subfigure-xetex-bidi.def

```

22379 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure package]
22380 \AtBeginDocument{%
22381   \let\p@subfigure=\thefigure
22382   \let\p@subtable=\thetable%
22383 }

```

149 File tabs-xetex-bidi.def

```

22384 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for XeTeX]
22385 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
22386
22387 \expandafter\let\csname endtabular*\endcsname=\endtabular
22388
22389 \def\endarray{\ifvmode\csname crr\endcsname % just do \crr if \ given
22390   \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
22391   \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
22392
22393 \def\@array[#1]#2{% remember global variables to allow recursion:
22394   \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
22395     \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%

```



```

22396 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
22397 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
22398 \else \let\@tarlinesep\tablinesep \fi
22399 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
22400 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
22401 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
22402 \ifdim\@tarlinesep>z@ % (need \protect for \multicolumn)
22403   \def\@rememsize{\protect\@r@m@size}\let\@seesize\@s@size
22404   \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
22405 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
22406   \vrule \@height\@tempdima \@depth\@tempdimb \@widthz@}%
22407 \let\protect\noexpand
22408 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
22409 \unhcopy\@arstrutbox \@preamble \tabskipz@skip &\@sharp \cr}%
22410 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22411 \if#1t\top \else \if#1b\box \else \vcenter \fi\fi
22412 \bgroup \let\par\@empty
22413 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
22414 \advance\extrarulesep.5\arrayrulewidth
22415 \let\@sharp#\let\protect\relax \lineskipz@skip \baselineskipz@skip
22416 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\top \else \box \fi\bgroup\fi
22417 \@preamble}

```

150 File tabularx-xetex-bidi.def

```

22418 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package]
22419 \def\TX@endtabularx{%
22420   \expandafter\expandafter\expandafter
22421     \TX@find@endtabularxa\csname end\TX@\endcsname
22422     \endtabularx\TX@\endtabularx\TX@find@endtabularxa
22423   \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}}%
22424   \let\verb\TX@verb
22425   \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
22426   \edef\TX@ckpt{\cl@ckpt}%
22427   \let\@elt\relax
22428   \TX@old@table\maxdimen
22429   \TX@col@width\TX@target
22430   \global\TX@cols\@ne
22431   \TX@typeout@
22432     {\spaces Table Width\@spaces Column Width\@spaces X Columns}%
22433   \TX@trial{\def\NC@rewrite@X{%
22434     \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
22435   \loop
22436     \TX@arith
22437     \ifTX@
22438     \TX@trial{%
22439   \repeat
22440   {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
22441   \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
22442   \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
22443   \csname tabular*\expandafter\endcsname\expandafter\TX@target
22444     \the\toks@
22445   \csname endtabular*\endcsname}%
22446   \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn

```



```

22447 \ifnum0=`{\fi}%
22448 \expandafter\expandafter\expandafter
22449 \TX@find@endtabularxbb
22450 \expandafter\end\expandafter{\TX@}%
22451 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
22452 }
22453
22454 \def\TX@trial#1{%
22455 \setbox\@tempboxa\hbox{%
22456 #1\relax
22457 \let\@footnotetext\TX@trial@ftn
22458 \let\@LTRfootnotetext\TX@trial@ftn
22459 \let\@RTLfootnotetext\TX@trial@ftn
22460 \let\TX@vwarn\@empty
22461 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
22462 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
22463 \def\write{\begingroup
22464 \def\let{\afterassignment\endgroup\toks@}%
22465 \afterassignment\let\count@}%
22466 \hbadness\@M
22467 \hfuzz\maxdimen
22468 \let\hbadness\@tempcnta
22469 \let\hfuzz\@tempdima
22470 \expandafter\tabular\the\toks@
22471 \endtabular}%
22472 \TX@ckpt
22473 \TX@typeout@{\@spaces
22474 \expandafter\TX@align
22475 \the\wd\@tempboxa\space\space\space\space\space\@@
22476 \expandafter\TX@align
22477 \the\TX@col@width\space\space\space\space\space\@@
22478 \@spaces\the\TX@cols}}
22479
22480 \long\def\TX@LTRftntext#1{%
22481 \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
22482 [\the\csname c@\@mpfn\endcsname]}%
22483 \global\TX@ftn\expandafter{\@tempa{#1}}}%
22484 \long\def\TX@xLTRftntext[#1]#2{%
22485 \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
22486
22487 \long\def\TX@RTLftntext#1{%
22488 \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
22489 [\the\csname c@\@mpfn\endcsname]}%
22490 \global\TX@ftn\expandafter{\@tempa{#1}}}%
22491 \long\def\TX@xRTLftntext[#1]#2{%
22492 \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

151 File tabulary-xetex-bidi.def

```

22493 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
22494 \def\@testpach{\@chclass
22495 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
22496 \ifnum \@lastchclass=7 5 \else
22497 \ifnum \@lastchclass=8 \tw@ \else

```



```

22498 \ifnum \@lastchclass=9 \thr@@
22499 \else \z@
22500 \ifnum \@lastchclass = 10 \else
22501 \edef\@nextchar{\expandafter\string\@nextchar}%
22502 \@chnum
22503 \if \@nextchar c\z@ \else
22504 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
22505 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
22506 \if \@nextchar C7 \else
22507 \if \@nextchar L8 \else
22508 \if \@nextchar R9 \else
22509 \if \@nextchar J10 \else
22510 \z@ \@chclass
22511 \if\@nextchar |\@ne \else
22512 \if \@nextchar !6 \else
22513 \if \@nextchar @7 \else
22514 \if \@nextchar <8 \else
22515 \if \@nextchar >9 \else
22516 10
22517 \@chnum
22518 \if \@nextchar m\thr@@\else
22519 \if \@nextchar p4 \else
22520 \if \@nextchar b5 \else
22521 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
22522 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi

```

```

22523 \ProvidesFile{tc-xetex-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver
22524 \def\@cliptoboxdim#1{%
22525     \setbox#1=\hbox{%
22526         \Gin@defaultbp\WIDTH{\wd#1}%
22527         \Gin@defaultbp\DEPTH{\dp#1}%
22528         \@tempdima\ht#1%
22529         \advance\@tempdima\dp#1%
22530         \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
22531         \beginL\special{pdf:bcontent }%
22532         \special{%
22533             pdf:literal direct
22534             0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
22535         }%
22536         \special{pdf:literal direct W }%
22537         \special{pdf:literal direct n }%
22538         \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
22539         \special{pdf:econtent }\endL%
22540     }%
22541 }

```

```

22542 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox packa
22543 \let\endtcbl@rbox=\endminipage
22544 \let\endtcbl@savebox=\endtcbl@rbox
22545

```

```

22546 \bidi@patchcmd{\tcb@vbox}{%
22547   \let\@footnotetext\@mpfootnotetext%
22548 }{%
22549   \let\@footnotetext\@mpfootnotetext%
22550   \let\@LTRfootnotetext\@mpLTRfootnotetext%
22551   \let\@RTLfootnotetext\@mpRTLfootnotetext%
22552 }{}{}
22553
22554 \bidi@patchcmd{\end tcb@vbox}{%
22555   \footnoterule%
22556 }{%
22557   \bidi@mpfootnoterule%
22558 }{}{}
22559 \bidi@apptocmd\tcb@@icolorbox{%
22560   \@bidi@list@minipage@parboxfalse
22561 }{}{}

```

154 File thmbox-xetex-bidi.def

```

22562 \ProvidesFile{thmbox-xetex-bidi.def}[2025/09/04 v0.1 bidi adaptations for thmbox package for
22563 \renewenvironment{thmbox}[2][]{%
22564   \parskip\z@%
22565   \setkeys{thmbox}{#1}%
22566   \ifx\thmbox@style S\else\ifx\thmbox@style M\else\ifx\thmbox@style L\else%
22567     \PackageWarning{thmbox}{\thmbox@style\ is not a valid style for
22568       \string\thmbox, using M}%
22569     \let\thmbox@style=M%
22570   \fi\fi\fi%
22571   \thmbox@head{#2}\nobreak\relax%
22572   \thmbox@dim=\hspace%
22573   \advance\thmbox@dim-\leftskip%
22574   \advance\thmbox@dim-\rightskip%
22575   \setbox\thmbox@box=\vbox\bgroup%
22576     \if@RTL
22577       \@hboxRconstructtrue
22578     \fi
22579     \hspace=\thmbox@dim%
22580     \advance\hspace -\thmbox@leftmargin%
22581     \advance\hspace -\thmbox@rightmargin%
22582     \textwidth=\hspace%
22583     \linewidth=\hspace%
22584     \vskip\thmbox@vskip%
22585     \begingroup\endgroup%
22586     \vskip\thmbox@vskip%
22587   \egroup%
22588   \thmbox@start%
22589   \ifx\thmbox@style S\else\thmbox@tail\fi%
22590   \@endparenv}

```

155 File titlesec-xetex-bidi.def

```

22591 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package
22592 \renewcommand\filright{%
22593   \gdef\ttl@filleft##1{\hspace##1}%

```




```

22594 \gdef\ttl@filright##1{\hfill}%
22595 \let\\\@centercr
22596 \advance\rightskip\z@ \@plus 1fil
22597 \parfillskip\z@}
22598 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
22599 \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
22600 \setlength\leftskip{#6}%
22601 \setlength\rightskip{#7}%
22602 \interlinepenalty\@M
22603 \ttl@change@centercr
22604 \ttl@beginlongest
22605 #1{\ifhmode\ttl@hmode@error\fi
22606 \ttl@glcmds
22607 \parindent\z@
22608 \leavevmode
22609 \begin@group
22610 \ifttl@label
22611 \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
22612 \ifRTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
22613 \llap{\box\z@}%
22614 \fi
22615 #4{#8}%
22616 \kern\z@\strut\@par
22617 \end@group
22618 \nobreak\ttl@midlongest#5\@par}%
22619 \ttl@endlongest}

```

156 File titletoc-xetex-bidi.def

```

22620 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
22621 \renewcommand\filright{%
22622 \gdef\ttl@filleft##1{\hskip##1}%
22623 \gdef\ttl@filright##1{\hfill}%
22624 \let\\\@centercr
22625 \advance\rightskip\z@ \@plus 1fil
22626 \parfillskip\z@}
22627 \renewcommand\contentspush[1]{%
22628 \sbox\z@{#1}%
22629 \xdef\ttl@b{\advance\ifRTL\rightskip\else\leftskip\fi\the\wd\z@}%
22630 \aftergroup\ttl@b
22631 \leavevmode\llap{\box\z@}}
22632 \def\ttl@outnoblock#1#2#3{%
22633 \begin@group
22634 \ifnum\ttl@b>\ttl@a
22635 \nobreak
22636 \else\ifnum\ttl@b<\ttl@a
22637 \addpenalty{\@secpenalty}%
22638 \else
22639 \addpenalty{\z@}%
22640 \fi\fi
22641 \ttl@contentsstretch
22642 \nobreak
22643 \ifcase#1\relax\else\interlinepenalty\@M\fi
22644 \parindent\z@}

```



```

22645 \ifx\@nil#2%
22646   \PackageError{titletoc}{Unimplemented}%
22647   {The optional argument is currently mandatory}%
22648 \else
22649   \if@RTL\setlength\rightskip{#2}\else
22650   \setlength\leftskip{#2}\fi%
22651 \fi
22652 \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
22653 \let\contentsmargin\ttl@margin
22654 \def\ttl@makeline##1{##1}%
22655 #3%
22656 \addtolength{\parfillskip}{-\ttl@corr}%
22657 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
22658 \let\ttl@leaders\leaders}
22659 \renewcommand\ttl@margin[2][\z@]{%
22660   \def\ttl@corr{#1}%
22661   \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
22662   \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
22663   \def\@pnumwidth{#2}}
22664 \let\ttl@savel@part\l@part
22665 \def\l@part{\ttl@lselect{part}}
22666
22667 \let\ttl@savel@chapter\l@chapter
22668 \def\l@chapter{\ttl@lselect{chapter}}

```

157 File tocbibind-xetex-bidi.def

```

22669 \ProvidesFile{tocbibind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind packa
22670 \IfClassLoadedT{memoir}{\endinput}
22671 \if@dotocbib
22672   \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
22673     \renewcommand{\bibsection}{\tcb@bchapsec}
22674     \renewenvironment{thebibliography}[1]{%
22675       \bibsection
22676       \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}}
22677 \renewenvironment{thebibitemlist}[1]{
22678   \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
22679   \bidi@thebibliography@font@hook%
22680   \list{\@biblabel{\@arabic{c@enumiv}}}%
22681     {\settowidth\labelwidth{\@biblabel{#1}}%
22682     \leftmargin\labelwidth
22683     \advance\leftmargin\labelsep
22684     \@openbib@code
22685     \usecounter{enumiv}%
22686     \let\p@enumiv\empty
22687     \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
22688   \sloppy
22689   \clubpenalty4000
22690   \@clubpenalty \clubpenalty
22691   \widowpenalty4000%
22692   \sfcode`\.\@m}
22693 {\def\@noitemerr
22694   {\@latex@warning{Empty `thebibliography' environment}}}%
22695 \endlist}

```



```

22696
22697 \ApplyPatchCodeToPackage{chapterbib}{%
22698   \@ifpackagewith{chapterbib}{sectionbib}%
22699     {\renewcommand{\sectionbib}[2]{}}%
22700   }%
22701 }
22702
22703 \fi
22704 \if@inltxdoc\else
22705   \renewenvironment{theindex}%
22706     {\if@twocolumn
22707       \@restonecolfalse
22708     \else
22709       \@restonecoltrue
22710     \fi
22711     \if@bibchapter
22712       \if@donumindex
22713         \refstepcounter{chapter}
22714         \twocolumn[\vspace*{2\topskip}%
22715           \@makechapterhead{\indexname}}%
22716         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
22717         \chaptermark{\indexname}
22718       \else
22719         \if@dotocind
22720           \twocolumn[\vspace*{2\topskip}%
22721             \@makeschapterhead{\indexname}}%
22722           \prw@mkboth{\indexname}
22723           \addcontentsline{toc}{chapter}{\indexname}
22724         \else
22725           \twocolumn[\vspace*{2\topskip}%
22726             \@makeschapterhead{\indexname}}%
22727           \prw@mkboth{\indexname}
22728         \fi
22729       \fi
22730     \else
22731       \if@donumindex
22732         \twocolumn[\vspace*{-1.5\topskip}%
22733           \@nameuse{\@tocextra}{\indexname}}%
22734         \csname \@tocextra mark\endcsname{\indexname}
22735       \else
22736         \if@dotocind
22737           \twocolumn[\vspace*{-1.5\topskip}%
22738             \toc@headstar{\@tocextra}{\indexname}}%
22739           \prw@mkboth{\indexname}
22740           \addcontentsline{toc}{\@tocextra}{\indexname}
22741         \else
22742           \twocolumn[\vspace*{-1.5\topskip}%
22743             \toc@headstar{\@tocextra}{\indexname}}%
22744           \prw@mkboth{\indexname}
22745         \fi
22746       \fi
22747     \fi
22748   \thispagestyle{plain}\parindent\z@
22749   \parskip\z@ \@plus .3\p@\relax

```



```

22750 \let\item\@idxitem}
22751 {\if@restonecol\onecolumn\else\clearpage\fi}
22752 \fi

```

158 File tocloft-xetex-bidi.def

```

22753 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package f
22754 \IfClassLoadedT{memoir}{\endinput}
22755 \renewcommand{\cftpnumalign}{\if@RTL l\else r\fi}
22756 \let\cftdot\@SepMark
22757 \if@cfthaspart
22758 \renewcommand*{\l@part}[2]{
22759 \@cftdopartfalse
22760 \ifnum \c@tocdepth >-2\relax
22761 \if@cfthaschapter
22762 \@cftdoparttrue
22763 \fi
22764 \ifnum \c@tocdepth >\m@ne
22765 \if@cfthaschapter\else
22766 \@cftdoparttrue
22767 \fi
22768 \fi
22769 \fi
22770 \if@cftdopart
22771 \if@cfthaschapter
22772 \addpenalty{-\@highpenalty}
22773 \else
22774 \addpenalty\@secpenalty
22775 \fi
22776 \addvspace{\cftbeforepartskip}
22777 \begingroup
22778 {\if@RTL\rightskip\else\leftskip\fi \cftpartincent\relax
22779 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22780 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22781 \parindent \cftpartincent\relax\@afterindenttrue
22782 \interlinepenalty\@M
22783 \leavevmode
22784 \@tempdima \cftpnumwidth\relax
22785 \let\@cftbsnum \cftpnumwidth
22786 \let\@cftasnum \cftpnumwidth
22787 \let\@cftasnumb \cftpnumwidth
22788 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
22789 {\cftpnumfont \cftpnumwidth #1}
22790 \cftpnumfillnum{#2}}
22791 \nobreak
22792 \if@cfthaschapter
22793 \global\@nobreaktrue
22794 \everypar{\global\@nobreakfalse\everypar{}}
22795 \else
22796 \if@compatibility
22797 \global\@nobreaktrue
22798 \everypar{\global\@nobreakfalse\everypar{}}
22799 \fi
22800 \fi

```



```

22801 \endgroup
22802 \fi}
22803 \fi
22804 \if@cfthaschapter
22805 \renewcommand*{\l@chapter}[2]{
22806 \ifnum \c@tocdepth >\m@ne
22807 \addpenalty{-\@highpenalty}
22808 \vskip \cftbeforechapskip
22809 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
22810 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22811 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22812 \parindent \cftchapindent\relax\@afterindenttrue
22813 \interlinepenalty\@M
22814 \leavevmode
22815 \@tempdima \cftchapnumwidth\relax
22816 \let\@cftbsnum \cftchappresnum
22817 \let\@cftasnum \cftchapaftersnum
22818 \let\@cftasnumb \cftchapaftersnumb
22819 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22820 {\cftchapfont #1}\nobreak
22821 \cftchapfillnum{#2}}
22822 \fi}
22823 \fi
22824 \renewcommand*{\l@section}[2]{%
22825 \ifnum \c@tocdepth >\z@
22826 \if@cfthaschapter
22827 \vskip \cftbeforesecskip
22828 \else
22829 \addpenalty\@secpenalty
22830 \addvspace{\cftbeforesecskip}
22831 \fi
22832 {\if@RTL\righskip\else\leftskip\fi \cftsecindent\relax
22833 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22834 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22835 \parindent \cftsecindent\relax\@afterindenttrue
22836 \interlinepenalty\@M
22837 \leavevmode
22838 \@tempdima \cftsecnumwidth\relax
22839 \let\@cftbsnum \cftsecpresnum
22840 \let\@cftasnum \cftsecaftersnum
22841 \let\@cftasnumb \cftsecaftersnumb
22842 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22843 {\cftsecfont #1}\nobreak
22844 \cftsecfillnum{#2}}
22845 \fi}
22846 \renewcommand*{\l@subsection}[2]{%
22847 \ifnum \c@tocdepth >\@ne
22848 \vskip \cftbeforesubsecskip
22849 {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax
22850 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22851 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22852 \parindent \cftsubsecindent\relax\@afterindenttrue
22853 \interlinepenalty\@M
22854 \leavevmode

```



```

22855 \@tempdima \cftsubsecnumwidth\relax
22856 \let\@cftbsnum \cftsubsecpresnum
22857 \let\@cftasnum \cftsubsecaftersnum
22858 \let\@cftasnumb \cftsubsecaftersnumb
22859 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22860 {\cftsubsecfont #1}\nobreak
22861 \cftsubsecfillnum{#2}}
22862 \fi}
22863 \renewcommand*{\l@subsubsection}[2]{%
22864 \ifnum \c@tocdepth >\tw@
22865 \vskip \cftbeforesubsubsecskip
22866 {\if@RTL\rightskip\else\leftskip\fi \cftsubsubsecindent\relax
22867 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22868 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22869 \parindent \cftsubsubsecindent\relax\@afterindenttrue
22870 \interlinepenalty\@M
22871 \leavevmode
22872 \@tempdima \cftsubsubsecnumwidth\relax
22873 \let\@cftbsnum \cftsubsubsecpresnum
22874 \let\@cftasnum \cftsubsubsecaftersnum
22875 \let\@cftasnumb \cftsubsubsecaftersnumb
22876 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22877 {\cftsubsubsecfont #1}\nobreak
22878 \cftsubsubsecfillnum{#2}}
22879 \fi}
22880 \renewcommand*{\l@paragraph}[2]{%
22881 \ifnum \c@tocdepth >3\relax
22882 \vskip \cftbeforeparaskip
22883 {\if@RTL\rightskip\else\leftskip\fi \cftparaindent\relax
22884 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22885 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22886 \parindent \cftparaindent\relax\@afterindenttrue
22887 \interlinepenalty\@M
22888 \leavevmode
22889 \@tempdima \cftparanumwidth\relax
22890 \let\@cftbsnum \cftparapresnum
22891 \let\@cftasnum \cftparaaftersnum
22892 \let\@cftasnumb \cftparaaftersnumb
22893 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22894 {\cftparafont #1}\nobreak
22895 \cftparafillnum{#2}}
22896 \fi}
22897 \renewcommand*{\l@subparagraph}[2]{%
22898 \ifnum \c@tocdepth >4\relax
22899 \vskip \cftbeforesubparaskip
22900 {\if@RTL\rightskip\else\leftskip\fi \cftsubparaindent\relax
22901 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22902 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22903 \parindent \cftsubparaindent\relax\@afterindenttrue
22904 \interlinepenalty\@M
22905 \leavevmode
22906 \@tempdima \cftsubparanumwidth\relax
22907 \let\@cftbsnum \cftsubparapresnum
22908 \let\@cftasnum \cftsubparaaftersnum

```



```

22909 \let\@cftasnumb \cftsubparaaftersnumb
22910 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22911 {\cftsubparafont #1}\nobreak
22912 \cftsubparafillnum{#2}}
22913 \fi}
22914 \renewcommand*{\l@figure}[2]{%
22915 \ifnum \c@lofdepth >\z@
22916 \vskip \cftbeforefigskip
22917 {\if@RTL\rightskip\else\leftskip\fi \cftfigindent\relax
22918 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22919 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22920 \parindent \cftfigindent\relax\@afterindenttrue
22921 \interlinepenalty\@M
22922 \leavevmode
22923 \@tempdima \cftfignumwidth\relax
22924 \let\@cftbsnum \cftfigpresnum
22925 \let\@cftasnum \cftfigaftersnum
22926 \let\@cftasnumb \cftfigaftersnumb
22927 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22928 {\cftfigfont #1}\nobreak
22929 \cftfigfillnum{#2}}
22930 \fi
22931 }
22932 \renewcommand*{\l@table}[2]{%
22933 \ifnum\c@lotdepth >\z@
22934 \vskip \cftbeforetabskip
22935 {\if@RTL\rightskip\else\leftskip\fi \cfttabindent\relax
22936 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22937 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22938 \parindent \cfttabindent\relax\@afterindenttrue
22939 \interlinepenalty\@M
22940 \leavevmode
22941 \@tempdima \cfttabnumwidth\relax
22942 \let\@cftbsnum \cfttabpresnum
22943 \let\@cftasnum \cfttabaftersnum
22944 \let\@cftasnumb \cfttabaftersnumb
22945 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22946 {\cfttabfont #1}\nobreak
22947 \cfttabfillnum{#2}}
22948 \fi
22949 }
22950 \renewcommand{\@cftl@subfig}{
22951 \renewcommand*{\l@subfigure}[2]{%
22952 \ifnum \c@lofdepth > \toclevel@subfigure
22953 \vskip \cftbeforesubfigskip
22954 {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
22955 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22956 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22957 \parindent \cftsubfigindent\relax\@afterindenttrue
22958 \interlinepenalty\@M
22959 \leavevmode
22960 \@tempdima \cftsubfignumwidth\relax
22961 \let\@cftbsnum \cftsubfigpresnum
22962 \let\@cftasnum \cftsubfigaftersnum

```



```

22963 \let\@cftasnumb \cftsubfigaftersnumb
22964 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22965 {\cftsubfigfont ##1}\nobreak
22966 \cftsubfigfillnum{##2}}
22967 \fi
22968 }
22969 }
22970 \renewcommand{\@cftl@subtab}{
22971 \renewcommand*\@l@subtable}[2]{%
22972 \ifnum \c@lotdepth > \toclevel@subtable
22973 \vskip \cftbeforesubtabskip
22974 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
22975 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22976 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22977 \parindent \cftsubtabindent\relax\@afterindenttrue
22978 \interlinepenalty\@M
22979 \leavevmode
22980 \@tempdima \cftsubtabnumwidth\relax
22981 \let\@cftbsnum \cftsubtabpresnum
22982 \let\@cftasnum \cftsubtabaftersnum
22983 \let\@cftasnumb \cftsubtabaftersnumb
22984 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22985 {\cftsubtabfont ##1}\nobreak
22986 \cftsubtabfillnum{##2}}
22987 \fi
22988 }
22989 }
22990 \renewcommand{\newlistentry}[4][\@empty]{%
22991 \@ifundefined{c@#2}{% check & set the counter
22992 \ifx \@empty#1\relax
22993 \newcounter{#2}
22994 \else
22995 \@ifundefined{c@#1}{\PackageWarning{tocloft}%
22996 {#1 has no counter for use as a `within'}
22997 \newcounter{#2}}%
22998 {\newcounter{#2}[#1]%
22999 \expandafter\edef\csname the#2\endcsname{%
23000 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
23001 \fi
23002 \setcounter{#2}{0}
23003 }
23004 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
23005
23006 \@namedef{l@#2}##1##2{%
23007 \ifnum \@nameuse{c@#3depth} > #4\relax
23008 \vskip \@nameuse{cftbefore#2skip}
23009 {\if@RTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
23010 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
23011 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
23012 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
23013 \interlinepenalty\@M
23014 \leavevmode
23015 \@tempdima \@nameuse{cft#2numwidth}\relax
23016 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname

```




```

23017 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
23018 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
23019 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\righ
23020 {\@nameuse{cft#2font}##1}\nobreak
23021 \@nameuse{cft#2fillnum}{##2}}
23022 \fi
23023 } % end of \l@#2
23024
23025 \expandafter\newlength\csname cftbefore#2skip\endcsname
23026 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
23027 \expandafter\newlength\csname cft#2indent\endcsname
23028 \expandafter\newlength\csname cft#2numwidth\endcsname
23029 \ifcase #4\relax % 0
23030 \setlength{\@nameuse{cft#2indent}}{0em}
23031 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
23032 \or % 1
23033 \setlength{\@nameuse{cft#2indent}}{1.5em}
23034 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
23035 \or % 2
23036 \setlength{\@nameuse{cft#2indent}}{3.8em}
23037 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
23038 \or % 3
23039 \setlength{\@nameuse{cft#2indent}}{7.0em}
23040 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
23041 \else % anything else
23042 \setlength{\@nameuse{cft#2indent}}{10.0em}
23043 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
23044 \fi
23045 \@namedef{cft#2font}{\normalfont}
23046 \@namedef{cft#2presnum}{\}
23047 \@namedef{cft#2aftersnum}{\}
23048 \@namedef{cft#2aftersnumb}{\}
23049 \@namedef{cft#2dotsep}{\cftdotsep}
23050 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
23051 \@namedef{cft#2pagefont}{\normalfont}
23052 \@namedef{cft#2afterpnum}{\}
23053 \@namedef{toclevel@#2}{#4}
23054 \@namedef{cft#2fillnum}##1{%
23055 {\@nameuse{cft#2leader}}\nobreak
23056 \hb@xt@\@pnumwidth{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
23057 } % end \newlistentry
23058 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
23059 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
23060 \advance\if@RTL\righskip\else\leftskip\fi \cftchapnumwidth\relax
23061 \if@RTL\leftskip\else\righskip\fi \tocrmarg\relax
23062 \textit{#1}\protect\par}}}

```

159 File tocbasic-xetex-bidi.def

```

23063 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
23064 \bidi@undef\scr@dte@def@l@undottedtocline
23065 \bidi@undef\scr@dte@undottedtocline@init
23066 \DeclareTOCEntryStyle{undottedtocline}[{%
23067 \DefineTOCEntryLengthOption{indent}%

```



```

23068 {scr@tso@}{@indent}{entry indent}%
23069 \DefineTOCEntryLengthOption{numwidth}%
23070 {scr@tso@}{@numwidth}{entry number width}%
23071 \@ifundefined{#1tocdepth}{%
23072 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23073 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23074 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23075 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23076 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23077 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23078 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23079 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23080 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23081 \expandafter\let\csname #1tocdepth\expandafter\endcsname
23082 \csname #1numdepth\endcsname
23083 }%
23084 }%
23085 }%
23086 }%
23087 }%
23088 }%
23089 }%
23090 }%
23091 }%
23092 }{}%
23093 \@ifundefined{scr@tso@#1@indent}{%
23094 \ifundefined{scr@#1@tocindent}{%
23095 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23096 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23097 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23098 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23099 \scr@ifundefinedorrelax{l@chapter}{%
23100 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{Opt}}{%
23101 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23102 \Ifstr{#1}{subsubsection}{%
23103 \@namedef{scr@tso@#1@indent}{3.8em}%
23104 }{%
23105 \Ifstr{#1}{paragraph}{%
23106 \@namedef{scr@tso@#1@indent}{7em}%
23107 }{%
23108 \Ifstr{#1}{subparagraph}{%
23109 \@namedef{scr@tso@#1@indent}{10em}%
23110 }{%
23111 }%
23112 }%
23113 }%
23114 }%
23115 }%
23116 }{}%
23117 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23118 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23119 \Ifstr{#1}{subsubsection}{%
23120 \@namedef{scr@tso@#1@indent}{7.0em}%
23121 }{}%

```



```

23122         \Ifstr{#1}{paragraph}{%
23123             \@namedef{scr@tso@#1@indent}{10em}%
23124         }{%
23125             \Ifstr{#1}{subparagraph}{%
23126                 \@namedef{scr@tso@#1@indent}{12em}%
23127             }{%
23128                 }%
23129             }%
23130         }%
23131     }%
23132 }%
23133 }%
23134 }%
23135 }%
23136 }%
23137 }%
23138 }{%
23139     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23140 }%
23141 }{%
23142 \@ifundefined{scr@tso@#1@numwidth}{%
23143     \@ifundefined{scr@#1@tocnumwidth}{%
23144         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23145             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23146                 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23147                     \scr@ifundefinedorrelax{chapter}{%
23148                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23149                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23150                                 \Ifstr{#1}{subsubsection}{%
23151                                     \@namedef{scr@tso@#1@numwidth}{3.2em}%
23152                                 }{%
23153                                     \Ifstr{#1}{paragraph}{%
23154                                         \@namedef{scr@tso@#1@numwidth}{4.1em}%
23155                                     }{%
23156                                         \Ifstr{#1}{subparagraph}{%
23157                                             \@namedef{scr@tso@#1@numwidth}{5em}%
23158                                         }{%
23159                                             }%
23160                                         }%
23161                                     }%
23162                                 }%
23163                             }%
23164                         }{%
23165                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23166                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23167                                     \Ifstr{#1}{subsubsection}{%
23168                                         \@namedef{scr@tso@#1@numwidth}{3.1em}%
23169                                     }{%
23170                                         \Ifstr{#1}{paragraph}{%
23171                                             \@namedef{scr@tso@#1@numwidth}{5em}%
23172                                         }{%
23173                                             \Ifstr{#1}{subparagraph}{%
23174                                                 \@namedef{scr@tso@#1@numwidth}{6em}%
23175                                             }{%

```



```

23176         }%
23177     }%
23178 }%
23179 }%
23180 }%
23181 }%
23182 }%
23183 }%
23184 }%
23185 }{%
23186 \namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23187 }%
23188 }{%}%
23189 }]{%
23190 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
23191 \ifnum \@nameuse{#1tocdepth}<\@ne
23192 \scr@ifundefinedorrelax{chapter}{%
23193 \addpenalty\@secpenalty
23194 \addvspace{1.0em \@plus\p@}%
23195 }{%
23196 \addpenalty{-\@highpenalty}%
23197 \vskip 1.0em \@plus\p@
23198 }%
23199 \else
23200 \addpenalty\@secpenalty
23201 \addvspace{1.0em \@plus\p@}%
23202 \fi
23203 \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
23204 \begingroup
23205 \parindent \z@ \bidi@rightskip \@pnumwidth
23206 \parfillskip -\@pnumwidth
23207 \leavevmode
23208 \bfseries
23209 \advance\bidi@leftskip\@tempdima
23210 \IfTocFeature{\@currentx}{noindent}{%
23211 \hskip -\bidi@leftskip
23212 }{%
23213 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23214 \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
23215 }%
23216 ##1%
23217 \nobreak
23218 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23219 \par
23220 \penalty\@highpenalty
23221 \endgroup
23222 \fi
23223 }
23224
23225 \bidi@undef\scr@dte@def@l@largetocline
23226 \bidi@undef\scr@dte@largetocline@init
23227 \DeclareTOCEntryStyle{largetocline}[{%
23228 \DefineTOCEntryLengthOption{indent}%
23229 {scr@tso@}{@indent}{entry indent}%

```



```

23230 \@ifundefined{#1tocdepth}{%
23231   \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23232     \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23233       \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23234         \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23235           \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23236             \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23237               \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23238                 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23239                   \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23240                     \expandafter\let\csname #1tocdepth\expandafter\endcsname
23241                     \csname #1numdepth\endcsname
23242                   }%
23243                 }%
23244               }%
23245             }%
23246           }%
23247         }%
23248       }%
23249     }%
23250   }%
23251 }{}%
23252 \@ifundefined{scr@tso@#1@indent}{%
23253   \@ifundefined{scr@#1@tocindent}{%
23254     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23255       \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23256         \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23257           \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23258             \scr@ifundefinedorrelax{1@chapter}{%
23259               \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23260                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23261                   \Ifstr{#1}{subsubsection}{%
23262                     \@namedef{scr@tso@#1@indent}{3.8em}%
23263                   }{%
23264                     \Ifstr{#1}{paragraph}{%
23265                       \@namedef{scr@tso@#1@indent}{7em}%
23266                     }{%
23267                       \Ifstr{#1}{subparagraph}{%
23268                         \@namedef{scr@tso@#1@indent}{10em}%
23269                       }{%
23270                         }%
23271                       }%
23272                     }%
23273                   }%
23274                 }%
23275               }{%
23276                 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23277                   \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23278                     \Ifstr{#1}{subsubsection}{%
23279                       \@namedef{scr@tso@#1@indent}{7.0em}%
23280                     }{%
23281                       \Ifstr{#1}{paragraph}{%
23282                         \@namedef{scr@tso@#1@indent}{10em}%
23283                       }{%

```



```

23284 \Ifstr{#1}{subparagraph}{%
23285 \@namedef{scr@tso@#1@indent}{12em}%
23286 }{%
23287 }%
23288 }%
23289 }%
23290 }%
23291 }%
23292 }%
23293 }%
23294 }%
23295 }%
23296 }%
23297 }{%
23298 \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23299 }%
23300 }{%}%
23301 }]{%
23302 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
23303 \ifnum \@nameuse{#1tocdepth}<\@ne
23304 \scr@ifundefinedorrelax{chapter}{%
23305 \addpenalty\@secpenalty
23306 \addvspace{2.25em \@plus\p@}%
23307 }{%
23308 \addpenalty{-\@highpenalty}%
23309 \addvspace{2.25em \@plus\p@}%
23310 }%
23311 \else
23312 \addpenalty\@secpenalty
23313 \addvspace{2.25em \@plus\p@}%
23314 \fi
23315 \setlength\@tempdima{3em}%
23316 \begingroup
23317 \parindent \z@ \bidi@rightskip \@pnumwidth
23318 \parfillskip -\@pnumwidth
23319 \leavevmode
23320 \large
23321 \bfseries
23322 \Iftocfeature{\@currentt}{noindent}{%
23323 }{%
23324 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23325 }%
23326 ##1%
23327 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23328 \par
23329 \nobreak
23330 \ifnum 0=
23331 \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
23332 \global\@nobreaktrue
23333 \everypar{\global\@nobreakfalse\everypar{}}%
23334 \fi
23335 \endgroup
23336 \fi
23337 }

```



```

23338
23339 \renewcommand*{\scr@dte@tocline}[3]{%
23340   \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
23341     \else
23342       \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
23343       \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
23344       \@nameuse{Ifscr@tso@#1@dynindent}{%
23345         \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
23346         \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
23347       \else
23348         \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
23349         \@for \reserved@a:=\reserved@a\do {%
23350           \scr@trim@spaces\reserved@a
23351           \ifx\reserved@a\@empty\else
23352             \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
23353               }{%
23354                 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
23355                   \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
23356                   \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
23357                     \scr@ifundefinedorrelax
23358                     {scr@dte@\reserved@a @lastmaxnumwidth}{%
23359                       \advance\@tempdima
23360                       \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23361                     }{%
23362                       \advance\@tempdima
23363                       \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
23364                     }%
23365                   }{%
23366                     \advance\@tempdima
23367                     \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23368                   }%
23369                   \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
23370                   \expandafter\edef\csname scr@tso@#1@indent\endcsname
23371                   {\the\@tempdima}%
23372                 \fi
23373               \fi
23374             }%
23375           \fi
23376         }%
23377       \fi
23378     }{}%
23379   {%
23380     \Iftocfeature{\@currentx}{noindent}{%
23381       \bidi@leftskip \z@
23382     }{%
23383       \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
23384     }%
23385     \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
23386     \parfillskip -\bidi@rightskip
23387     \@nameuse{Ifscr@tso@#1@raggedpage}{%
23388       \addtolength{\parfillskip}{\z@ \@plus 1fil}%
23389     }{}%
23390     \Iftocfeature{\@currentx}{noindent}{%
23391       \parindent \z@

```



```

23392 }{%
23393   \parindent \@nameuse{scr@tso@#1@indent}\relax
23394 }%
23395 \@afterindenttrue
23396 \interlinepenalty\@M
23397 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
23398   \addtolength\@bidi@rightskip\@flushglue
23399 \else
23400   \def\reserved@a{\raggedright}%
23401   \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23402     \addtolength\@bidi@rightskip\@flushglue
23403   \else
23404     \renewcommand\reserved@a{\raggedright}%
23405     \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23406       \addtolength\@bidi@rightskip\@flushglue
23407     \fi
23408   \fi
23409 \fi
23410 \leavevmode
23411 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
23412 \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
23413   \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{-%
23414     \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
23415       \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
23416     \fi
23417   }%
23418 }-%
23419 \advance\@bidi@leftskip \@tempdima
23420 \null\nobreak\hskip -\@bidi@leftskip
23421 {%
23422   \usetocbasicnumberline
23423   \let\scr@dte@numberline@box\numberline@box
23424   \def\numberline@box##1{%
23425     \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}}{##1}}%
23426     \global\scr@dte@tocline@numberwidth
23427     \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
23428     \relax
23429     \ifdim \scr@dte@tocline@numberwidth
23430       >\@nameuse{scr@dte@#1@maxnumwidth}\relax
23431       \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
23432     \fi
23433     \@nameuse{Ifscr@tso@#1@dynnumwidth}{-%
23434       \ifdim \scr@dte@tocline@numberwidth
23435         >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
23436         +\@nameuse{scr@tso@#1@numsep}\relax\relax
23437       \PackageWarning{tocbasic}{%
23438         number width of #1 toc entries should be
23439         increased!\MessageBreak
23440         Currently used number width =
23441         \the\wd\scr@dte@tocline@numbox,\MessageBreak
23442         Wanted number separation
23443         \space\space\space =
23444         \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
23445         Reserved number width \space\space\space\space\space\space =

```




```

23446         \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
23447     }%
23448     \fi
23449 }%
23450 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
23451 \@nameuse{Ifscr@tso@#1@breakafternumber}{%
23452     {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
23453 }{}%
23454 }%
23455 {\@nameuse{scr@tso@#1@entryformat}{%
23456     #2%
23457     \nobreak
23458     {%
23459         \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}%
23460         \nobreak
23461         \expandafter\let\expandafter\scr@dte@pagenumberwidth
23462         \csname scr@tso@#1@pagenumberwidth\endcsname
23463         \@nameuse{scr@tso@#1@pagenumberbox}{%
23464             \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
23465         }%
23466     }%
23467 }}\@par
23468 }%
23469 }%
23470 \tocbasic@SetPenaltyByTOCLevel{#1}%
23471 \fi
23472 }
23473
23474
23475 \bidi@undef\scr@dte@def@l@tocline
23476 \bidi@undef\scr@dte@tocline@init
23477 \DeclareTOCEntryStyle{tocline}[{%
23478     \DefineTOCEntryLengthOption{beforeskip}%
23479     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
23480     \DefineTOCEntryIfOption{breakafternumber}%
23481     {scr@tso@}{@breakafternumber}{line break after number flag}%
23482     \DefineTOCEntryIfOption{dynnumwidth}%
23483     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
23484     \DefineTOCEntryListOption{indentfollows}%
23485     {scr@tso@}{@indentfollows}{list of levels that define the indent}%
23486     \DefineTOCEntryIfOption{dynindent}%
23487     {scr@tso@}{@dynindent}{dynamic indent width flag}%
23488     \DefineTOCEntryCommandOption{entryformat}%
23489     {scr@tso@}{@entryformat}[1]{entry format}%
23490     \DefineTOCEntryCommandOption{entrynumberformat}%
23491     {scr@tso@}{@numberformat}[1]{entry number format}%
23492     \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
23493     {scr@tso@}{@linefill}{filling between text and page number}%
23494     \DefineTOCEntryLengthOption{numsep}%
23495     {scr@tso@}{@numsep}{entry number separation}%
23496     \DefineTOCEntryCommandOption{onstarthigherlevel}%
23497     {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
23498     \DefineTOCEntryCommandOption{onstartlowerlevel}%
23499     {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%

```



```

23500 \DefineTOCEntryCommandOption{onstartsamelevel}%
23501 {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
23502 \DefineTOCEntryCommandOption{pagenumberbox}%
23503 {scr@tso@}{@pagenumberbox}[1]{page number box}%
23504 \DefineTOCEntryCommandOption{pagenumberformat}%
23505 {scr@tso@}{@pagenumberformat}[1]{page number format}%
23506 \DefineTOCEntryLengthOption{pagenumberwidth}%
23507 {scr@tso@}{@pagenumberwidth}{width of page number box}%
23508 \DefineTOCEntryLengthOption{rightindent}%
23509 {scr@tso@}{@rightindent}{entry's text right indent}%
23510 \DefineTOCEntryOption{raggedentrytext}[true]{%
23511 \FamilySetBool{KOMAarg}{raggedentrytext}{@tempswa}{##1}%
23512 \ifx\FamilyKeyState\FamilyKeyStateProcessed
23513 \if@tempswa
23514 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23515 \raggedright
23516 \else
23517 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23518 \relax
23519 \fi
23520 \fi
23521 }%
23522 \DefineTOCEntryIfOption{raggedpagenumber}%
23523 {scr@tso@}{@raggedpage}{page number ragged flag}%
23524 \DefineTOCEntryLengthOption{indent}%
23525 {scr@tso@}{@indent}{entry indent}%
23526 \DefineTOCEntryLengthOption{numwidth}%
23527 {scr@tso@}{@numwidth}{entry number width}%
23528 \scr@ifundefinedorrelax{#1tocdepth}{%
23529 \Ifstrstart{#1}{sub}{%
23530 \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
23531 \expandafter\edef\csname #1tocdepth\endcsname{%
23532 \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
23533 }%
23534 }%
23535 }{}%
23536 }{}%
23537 \@ifundefined{#1tocdepth}{%
23538 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23539 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23540 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23541 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23542 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23543 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23544 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23545 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23546 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23547 \expandafter\let\csname #1tocdepth\expandafter\endcsname
23548 \csname #1numdepth\endcsname
23549 }%
23550 }%
23551 }%
23552 }%
23553 }%

```



```

23554         }%
23555     }%
23556 }%
23557     }%
23558 }{}%
23559 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
23560     \@ifundefined{scr@#1@tocindent}{%
23561         \Ifstrstart{#1}{sub}{%
23562             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
23563                 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
23564                 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23565                     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
23566                 \relax
23567             }%
23568         }%
23569     }{%
23570         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
23571             \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23572                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
23573             \relax
23574         }%
23575     }{%
23576         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23577             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
23578             +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
23579         \relax
23580     }%
23581 }%
23582     }%
23583 }{}%
23584 }{%
23585     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23586 }%
23587 }{}%
23588 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
23589     \Ifstrstart{#1}{sub}{%
23590         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
23591             \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
23592         }{%
23593             \expandafter\let
23594             \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
23595             \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
23596         }%
23597     }{%
23598         \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
23599     }%
23600 }{}%
23601 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
23602     \Ifstrstart{#1}{sub}{%
23603         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
23604             \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}}%
23605         }{%
23606             \expandafter\let
23607             \csname scr@tso@#1@rightindent\expandafter\endcsname

```



```

23608      \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
23609    }%
23610  }{%
23611    \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23612  }%
23613 }{%
23614 \ifundefined{scr@tso@#1@indent}{%
23615   \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23616     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23617       \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23618         \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23619           \scr@ifundefinedorrelax{1@chapter}{%
23620             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23621               \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23622                 \Ifstr{#1}{subsubsection}{%
23623                   \@namedef{scr@tso@#1@indent}{3.8em}%
23624                 }{%
23625                   \Ifstr{#1}{paragraph}{%
23626                     \@namedef{scr@tso@#1@indent}{7em}%
23627                   }{%
23628                     \Ifstr{#1}{subparagraph}{%
23629                       \@namedef{scr@tso@#1@indent}{10em}%
23630                     }{%
23631                       }%
23632                     }%
23633                   }%
23634                 }%
23635               }%
23636             }{%
23637               \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23638                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23639                   \Ifstr{#1}{subsubsection}{%
23640                     \@namedef{scr@tso@#1@indent}{7.0em}%
23641                   }{%
23642                     \Ifstr{#1}{paragraph}{%
23643                       \@namedef{scr@tso@#1@indent}{10em}%
23644                     }{%
23645                       \Ifstr{#1}{subparagraph}{%
23646                         \@namedef{scr@tso@#1@indent}{12em}%
23647                       }{%
23648                         }%
23649                       }%
23650                     }%
23651                   }%
23652                 }%
23653               }%
23654             }%
23655           }%
23656         }%
23657       }%
23658     }{%
23659       \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
23660         \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
23661           \Ifstrstart{#1}{sub}{%

```



```

23662     \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
23663     \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
23664     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23665     +.9em%
23666     \relax
23667     }%
23668     }%
23669     }{}%
23670     }{%
23671     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23672     }%
23673     }{}%
23674     \@ifundefined{scr@tso@#1@numwidth}{%
23675     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23676     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23677     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23678     \scr@ifundefinedorrelax{chapter}{%
23679     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23680     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23681     \Ifstr{#1}{subsubsection}{%
23682     \@namedef{scr@tso@#1@numwidth}{3.2em}%
23683     }{%
23684     \Ifstr{#1}{paragraph}{%
23685     \@namedef{scr@tso@#1@numwidth}{4.1em}%
23686     }{%
23687     \Ifstr{#1}{subparagraph}{%
23688     \@namedef{scr@tso@#1@numwidth}{5m}%
23689     }{%
23690     }%
23691     }%
23692     }%
23693     }%
23694     }%
23695     }{%
23696     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23697     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23698     \Ifstr{#1}{subsubsection}{%
23699     \@namedef{scr@tso@#1@numwidth}{3.1em}%
23700     }{%
23701     \Ifstr{#1}{paragraph}{%
23702     \@namedef{scr@tso@#1@numwidth}{5em}%
23703     }{%
23704     \Ifstr{#1}{subparagraph}{%
23705     \@namedef{scr@tso@#1@numwidth}{6em}%
23706     }{%
23707     }%
23708     }%
23709     }%
23710     }%
23711     }%
23712     }%
23713     }%
23714     }%
23715     }%

```



```

23716 }{}%
23717 \expandafter\renewcommand%
23718 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
23719 \expandafter\renewcommand%
23720 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
23721 \expandafter\renewcommand%
23722 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
23723 \@ifundefined{scr@tso@#1@beforeskip}{%
23724   \Ifstr{#1}{part}{%
23725     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
23726   }{%
23727     \Ifstr{#1}{chapter}{%
23728       \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23729     }{%
23730       \Ifstr{#1}{section}{%
23731         \scr@ifundefinedorrelax{l@chapter}{%
23732           \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23733         }{}%
23734       }{}%
23735     }%
23736   }%
23737   \expandafter\renewcommand\expandafter*%
23738   \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
23739 }{}%
23740 \@ifundefined{scr@dte@#1@maxnumwidth}{%
23741   \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
23742   \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
23743 }{}%
23744 \renewcommand*{\scr@dte@donumwidth}{}%
23745 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
23746 \expandafter\renewcommand\expandafter*%
23747 \csname scr@tso@#1@numsep\endcsname{.4em}%
23748 \expandafter\renewcommand%
23749 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
23750 \Ifstr{#1}{part}{%
23751   \expandafter\providecommand%
23752   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
23753 }{%
23754   \Ifstr{#1}{chapter}{%
23755     \expandafter\providecommand%
23756     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23757   }{%
23758     \scr@ifundefinedorrelax{l@chapter}{%
23759       \Ifstr{#1}{section}{%
23760         \expandafter\providecommand%
23761         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23762       }{}%
23763     }{}%
23764     \expandafter\providecommand%
23765     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
23766   }%
23767 }%
23768 \expandafter\renewcommand
23769 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%

```



```

23770 \@ifundefined{scr@tso@#1@linefill}{%
23771   \Ifstr{#1}{part}{%
23772     \@namedef{scr@tso@#1@linefill}{\hfill}%
23773   }{%
23774     \Ifstr{#1}{chapter}{%
23775       \@namedef{scr@tso@#1@linefill}{\hfill}%
23776     }{%
23777       \scr@ifundefinedorrelax{1@chapter}{%
23778         \Ifstr{#1}{section}{%
23779           \@namedef{scr@tso@#1@linefill}{\hfill}%
23780         }{}%
23781       }{}%
23782       \expandafter\renewcommand%
23783       \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23784     }%
23785   }%
23786 }{}%
23787 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
23788 \Ifstr{#1}{part}{%
23789   \expandafter\providecommand%
23790   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
23791 }{%
23792   \Ifstr{#1}{chapter}{%
23793     \expandafter\providecommand%
23794     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23795   }{%
23796     \scr@ifundefinedorrelax{1@chapter}{%
23797       \Ifstr{#1}{section}{%
23798         \expandafter\providecommand%
23799         \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23800       }{}%
23801     }{}%
23802     \expandafter\providecommand%
23803     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23804       {\normalfont\normalcolor ##1}}%
23805   }%
23806 }%
23807 \expandafter\renewcommand%
23808 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
23809   \hb@xt@{\@nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}%
23810 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
23811 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
23812 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
23813   \Ifstrstart{#1}{sub}{%
23814     \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
23815       \scr@dte@nosub{#1}%
23816     }%
23817   }{%
23818     \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
23819   }%
23820 }{}%
23821 }}{%
23822   \scr@dte@tocline{#1}{##1}{##2}%
23823 }

```



```

23824
23825 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
23826   \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
23827     {\normalfont\normalcolor #1}%
23828   }%
23829 }{}
23830
23831 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
23832   \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
23833     {\normalfont\normalcolor #1}%
23834   }%
23835 }{}
23836

```

160 File `tocstyle-xetex-bidi.def`

```

23837 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
23838 \renewcommand*{\tocstyle@dottedtocline}[5]{%
23839   \let\numberline\tocstyle@numberline
23840   \ifnum #1>\c@tocdepth \else
23841     \if@tocstyle@penalties
23842       \begingroup
23843         \@tempcnta 20010
23844         \advance \@tempcnta by -#1
23845         \ifnum \@tempcnta>\lastpenalty
23846           \aftergroup\penalty\aftergroup\@lowpenalty
23847         \fi
23848       \endgroup
23849     \fi
23850     \edef\tocstyledepth{#1}%
23851     \tocstyle@activate@features
23852     \ifx\tocstyle@feature@entryvskip\relax
23853       \vskip \z@ \@plus.2\p@
23854     \else
23855       \addvspace{\tocstyle@feature@entryvskip}%
23856     \fi
23857     {%
23858       \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
23859       \tocstyle@feature@raggedhook
23860       \@tempdima #3\relax
23861       \@tempdimb #2\relax
23862       \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23863       \ifnum #1>\z@\relax
23864         \@tempcnta #1\relax \advance\@tempcnta \m@ne
23865         \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23866           \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23867             \@tempdimb
23868             \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23869             \advance\@tempdimb
23870             \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23871           \fi
23872         \fi
23873       \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23874     }%

```




```

23875 \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
23876 \ifdim \@tempdimb>
23877 \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
23878 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23879 @#1\endcsname{\the\@tempdimb}%
23880 \fi
23881 \else
23882 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23883 @#1\endcsname{\the\@tempdimb}%
23884 \fi
23885 \iftocstyle@autolength
23886 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23887 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23888 \relax
23889 \fi
23890 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23891 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23892 \relax
23893 \fi
23894 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23895 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23896 \else
23897 \@tempdimb #2\relax
23898 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23899 \fi
23900 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
23901 \ifdim \@tempdima>
23902 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
23903 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23904 @\endcsname{\the\@tempdima}%
23905 \fi
23906 \else
23907 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23908 @\endcsname{\the\@tempdima}%
23909 \fi
23910 \ifcase\tocstyle@indentstyle\relax\else
23911 \@tempdimb \z@
23912 \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23913 \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23914 \relax
23915 \fi
23916 \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23917 \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23918 \fi
23919 \advance\parindent \@tempdimb\@afterindenttrue
23920 \advance\if@RTL\righskip\else\leftskip\fi \parindent
23921 \advance\if@RTL\leftskip\else\righskip\fi \@tocrmarg
23922 \parfillskip -\if@RTL\leftskip\else\righskip\fi
23923 \ifx\tocstyle@feature@parfillskip\relax\else
23924 \advance\parfillskip \tocstyle@feature@parfillskip\relax
23925 \fi
23926 \interlinepenalty\@M
23927 \leavevmode
23928 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima

```



```

23929 \null\nobreak
23930 \iftocstyle@indentnotnumbered\else
23931 \hskip -\if@RTL\rightskip\else\leftskip\fi
23932 \fi
23933 \tocstyle@feature@entryhook
23934 {#4}\nobreak
23935 \ifx\tocstyle@feature@leaders\relax
23936 \leaders\hbox{$\m@th
23937 \mkern \dotsep mu\hbox{\tocstyle@feature@dotohook .}%
23938 \mkern \dotsep mu$}\hfill
23939 \else
23940 \tocstyle@feature@leaders
23941 \fi
23942 \nobreak
23943 \ifx\tocstyle@feature@pagenumberbox\relax
23944 \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
23945 \else
23946 \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
23947 \fi
23948 \par
23949 }%
23950 \if@tocstyle@penalties
23951 \bgroup
23952 \@tempcnta 20009
23953 \advance\@tempcnta by -#1
23954 \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
23955 \reserved@a
23956 \fi
23957 \fi}
23958 \renewcommand*{\tocstyle@numberline}[1]{%
23959 \beginngroup
23960 \ifx\tocstyle@feature@spaceafternumber\relax
23961 \settowidth\@tempdima{\tocstyle@@numberline{#1}\enskip}%
23962 \else
23963 \settowidth\@tempdima{\tocstyle@@numberline{#1}}%
23964 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
23965 \fi
23966 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
23967 \ifdim \@tempdima >
23968 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
23969 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23970 @\tocstyledepth\endcsname{\the\@tempdima}%
23971 \fi
23972 \else
23973 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23974 @\tocstyledepth\endcsname{\the\@tempdima}%
23975 \fi
23976 \endgroup
23977 \iftocstyle@indentnotnumbered
23978 \hskip -\if@RTL\rightskip\else\leftskip\fi
23979 \fi
23980 \ifcase \tocstyle@indentstyle
23981 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
23982 \or

```



```

23983 \hb@xt@{\tempdima{\tocstyle@numberline{#1}\hfil}%
23984 \else
23985 \ifx\tocstyle@feature@spaceafternumber\relax
23986 \hbox{\tocstyle@numberline{#1}\enskip}%
23987 \else
23988 \hbox{\tocstyle@numberline{#1}\hskip
23989 \tocstyle@feature@spaceafternumber\relax}%
23990 \fi
23991 \fi
23992 }
23993 \AtBeginDocument{%
23994 \ifcsname l@part\endcsname
23995 \ifcsname l@chapter\endcsname
23996 \setbox\@tempboxa\vbox{\hsize\maxdimen
23997 \l@part{\tocstyle@l@define{part}{-1}}{}}%
23998 \else
23999 \setbox\@tempboxa\vbox{\hsize\maxdimen
24000 \l@part{\tocstyle@l@define{part}{0}}{}}%
24001 \fi
24002 \fi
24003 \ifcsname l@chapter\endcsname
24004 \setbox\@tempboxa\vbox{\hsize\maxdimen
24005 \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
24006 \fi
24007 \ifcsname l@section\endcsname
24008 \setbox\@tempboxa\vbox{\hsize\maxdimen
24009 \l@section{\tocstyle@l@define{section}{1}}{}}%
24010 \fi
24011 \ifcsname l@subsection\endcsname
24012 \setbox\@tempboxa\vbox{\hsize\maxdimen
24013 \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
24014 \fi
24015 \ifcsname l@subsubsection\endcsname
24016 \setbox\@tempboxa\vbox{\hsize\maxdimen
24017 \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
24018 \fi
24019 \ifcsname l@paragraph\endcsname
24020 \setbox\@tempboxa\vbox{\hsize\maxdimen
24021 \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
24022 \fi
24023 \ifcsname l@subparagraph\endcsname
24024 \setbox\@tempboxa\vbox{\hsize\maxdimen
24025 \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
24026 \fi
24027 \ifcsname l@table\endcsname
24028 \setbox\@tempboxa\vbox{\hsize\maxdimen
24029 \l@table{\tocstyle@l@define{table}{1}}{}}%
24030 \fi
24031 \ifcsname l@figure\endcsname
24032 \setbox\@tempboxa\vbox{\hsize\maxdimen
24033 \l@figure{\tocstyle@l@define{figure}{1}}{}}%
24034 \fi
24035 \def\@tempa#1#2#3#4#5{%
24036 \ifnum #1>\c@tocdepth \else

```



```

24037 \vskip \z@ \@plus.2\p@
24038 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@toc
24039 \parindent #2\relax\@afterindenttrue
24040 \interlinepenalty\@M
24041 \leavevmode
24042 \@tempdima #3\relax
24043 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
24044 {#4}\nobreak
24045 \leaders\hbox{$\m@th
24046 \mkern \dotsep mu\hbox{.}\mkern \dotsep
24047 mu$}\hfill
24048 \nobreak
24049 \hb@xt@\@pnumwidth{{\hfil \normalfont \normalcolor #5}}%
24050 \par}%
24051 \fi}%
24052 \ifx\@dottedtocline\@tempa\else
24053 \tocstyle@macrochangewarning\@dottedtocline
24054 \fi
24055 \let\tocstyle@saved@dottedtocline\@dottedtocline
24056 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
24057 \ifx\numberline\@tempa\else
24058 \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
24059 \ifx\numberline\@tempa\else
24060 \tocstyle@macrochangewarning\numberline
24061 \fi
24062 \fi
24063 \let\tocstyle@saved@numberline\numberline
24064 }
24065 \renewcommand*{\tocstyle@l@define}[2]{%
24066 \advance\if@RTL\righskip\else\leftskip\fi-\@tempdima
24067 \edef\@tempa{%
24068 \noexpand\global\noexpand\let
24069 \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
24070 \expandafter\noexpand\csname l@#1\endcsname
24071 \noexpand\gdef
24072 \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
24073 \noexpand\@dottedtocline{#2}{\the\if@RTL\righskip\else\leftskip\fi}{\the\@tempdima}}%
24074 \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
24075 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
24076 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
24077 }%
24078 }%
24079 \PackageInfo{tocstyle}{prepare \expandafter\string
24080 \csname l@#1\endcsname\space for redefinition}%
24081 \@tempa
24082 }

```

161 File todonotes-xetex-bidi.def

```

24083 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
24084 \newif\if@bidi@todonotes@textdirection@RTL
24085 \newif\if@bidi@todonotes@figposition@right
24086 \newcommand{\@bidi@todonotes@align}{}%
24087 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%

```



```

24088 \newcommand{\@bidi@todonotes@textdirection}{}%
24089 \define@choicekey{todonotes}{textdirection}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right,
24090 \ifcase\bidi@todonotes@tempb\relax
24091 \@bidi@todonotes@textdirection@RTLtrue
24092 \let\bidi@todonotes@textdirection\RLE
24093 \or
24094 \@bidi@todonotes@textdirection@RTLfalse
24095 \let\bidi@todonotes@textdirection\LRE
24096 \fi}
24097 \define@choicekey{todonotes}{figposition}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right,
24098 \ifcase\bidi@todonotes@tempb\relax
24099 \@bidi@todonotes@figposition@righttrue
24100 \or
24101 \@bidi@todonotes@figposition@rightfalse
24102 \fi}
24103 \if@todonotes@disabled%
24104 \else % \if@todonotes@disabled
24105 \renewcommand{\@todonotes@drawInlineNote}{%
24106 \if@todonotes@dviStyle%
24107 {\par\noindent\begin{tikzpicture}[remember picture]%
24108 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24109 \if@todonotes@authorgiven%
24110 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
24111 \else%
24112 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24113 \fi
24114 {\par\noindent\begin{tikzpicture}[remember picture]%
24115 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24116 \else%
24117 {\par\noindent\begin{tikzpicture}[remember picture]%
24118 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24119 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@
24120 \if@todonotes@authorgiven%
24121 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text
24122 \else%
24123 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24124 \fi};%
24125 \end{tikzpicture}\par}%
24126 \fi}%
24127 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
24128 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
24129 \node [coordinate] (inText) {};%
24130 \end{tikzpicture}%
24131 \marginpar[{} Draw note in left margin
24132 \@todonotes@drawMarginNote%
24133 \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
24134 }]{% Draw note in right margin
24135 \@todonotes@drawMarginNote%
24136 \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
24137 }%
24138 }%
24139 \renewcommand{\@todonotes@drawMarginNote}{%
24140 \if@todonotes@dviStyle%
24141 \begin{tikzpicture}[remember picture]%

```



```

24142      \draw node[notestyle] {};%
24143    \end{tikzpicture}}\%
24144    \begin{minipage}{\@todonotes@textwidth}%
24145      \if@todonotes@authorgiven%
24146        \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
24147      \else%
24148        \@todonotes@sizecommand \@todonotes@text%
24149      \fi%
24150    \end{minipage}}\%
24151    \begin{tikzpicture}[remember picture]%
24152      \draw node[notestyle] (inNote) {};%
24153    \end{tikzpicture}%
24154  \else%
24155    \let\originalHbadness\hbadness%
24156    \hbadness 100000%
24157    \begin{tikzpicture}[remember picture,baseline=(X.base)]%
24158      \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24159      \node(X){\vphantom{X}};%
24160      \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
24161      \if@todonotes@authorgiven%
24162        \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@sizecommand \@todonotes@author};%
24163        \node(Y)[below=of X]{};%
24164        \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
24165      \else%
24166        \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
24167      \fi%
24168    \end{tikzpicture}%
24169    \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
24170  \fi%
24171  \end{tikzpicture}%
24172  \hbadness \originalHbadness%
24173 \fi}%
24174 \renewcommand{\missingfigure}[2][]{%
24175 \setkeys{todonotes}{#1}%
24176 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
24177 \par
24178 \noindent
24179 \begin{tikzpicture}
24180 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
24181   (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
24182 \if@bidi@todonotes@figposition@right%
24183 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24184 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
24185   (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
24186 \if@bidi@todonotes@figposition@right%
24187 \end{scope}
24188 \begin{scope}[xshift=-3.8cm]
24189 \draw (2, -0.3) node[right, text
24190   width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
24191 \end{scope}
24192 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24193 \draw (2, -0.3) node[right, text
24194   width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
24195 \if@bidi@todonotes@figposition@right%

```



```

24196 \end{scope}
24197 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24198 \fi%
24199 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}}
24200 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}}
24201 \if@bidi@todonotes@figposition@right%
24202 \end{scope}
24203 \fi%
24204 \end{tikzpicture}\hfill
24205 }% Ending \missingfigure command
24206 \fi % Ending \@todonotes@ifdisabled
24207 \presetkeys%
24208     {todonotes}%
24209     {align=left,%
24210      textdirection=lefttoright,%
24211      figposition=left}{}%

```

162 File wrapfig-xetex-bidi.def

```

24212 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package]
24213 \let\WF@@everypar\@everypar
24214 \def\WF@putfigmaybe{%
24215 \ifinner
24216   \vskip-\parskip \global\WF@floatfalse
24217   \let\pagetotal\maxdimen % kludge flag for "not top of page"
24218 \else % outer page
24219   \@tempdima\pagedepth % save page depth
24220   {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
24221   \penalty\interlinepenalty % update pg. parameters
24222   \@tempdima\pagegoal \advance\@tempdima-\pagetotal % room left on page
24223   \ifdim\@tempdima<\z@ % \WF@info{Page overfull already;}%
24224     \global\WF@floatfalse
24225     \ifdim-\@tempdima>\pageshrink \else \pagebreak \fi
24226   \else
24227     \ifdim\WF@size>\@tempdima
24228       \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
24229       \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
24230       \ifdim\pagefilstretch>\z@ \dimen@\@tempdima \fi
24231       \ifdim\pagefillstretch>\z@ \dimen@\@tempdima \fi
24232       \advance\dimen@.5\baselineskip
24233       \ifdim\dimen@>\@tempdima % \WF@info{Page nearly full; can stretch;}%
24234         \global\WF@floatfalse \pagebreak
24235       \fi
24236     \else % \WF@info{Fits in \the\@tempdima;}%
24237       \global\WF@floatfalse
24238     \fi\fi
24239   \vskip\@tempdima\relax % (return erased page depth)
24240 \fi
24241 \noindent
24242 \ifWF@float
24243   \WF@floatmes
24244 \else % putting here;
24245   \WF@info{Put \WF@wfname here;}%
24246   {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement

```



```

24247 \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
24248 \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
24249 \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
24250 \@tempdima\wd\WF@box \@tempdimb\WF@ovh
24251 \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
24252 \@tempdimb\hsize \advance\@tempdimb-\@tempdima
24253 \xdef\WF@adjlw{\the\@tempdima}%
24254 \ifnum `l=\WF@place % fig on left
24255 \if@RTL%
24256 \kern\@tempdimb \kern\columnsep
24257 \def\@tempa{\hss}% position to left of the gap
24258 \else%
24259 \hss % figure overlaps space to the left
24260 \def\@tempa{\kern\columnsep}% position to left of the gap
24261 \fi%
24262 \else % fig on right
24263 \if@RTL%
24264 \hss
24265 \@tempdima\z@
24266 \def\@tempa{\kern\columnsep}
24267 \else%
24268 \@tempdima\z@ % no left indentation
24269 \kern\@tempdimb \kern\columnsep
24270 \def\@tempa{\hss}% figure overlaps space to the right
24271 \fi%
24272 \fi
24273 \ifdim\@tempdimb<\hsize
24274 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
24275 \xdef\WF@adjtlm{\the\@tempdima}%
24276 \else
24277 \xdef\WF@wrapil{\z@ \the\hsize}%
24278 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
24279 \fi
24280 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
24281 \global\advance\WF@size-\intextsep
24282 \else % \WF@info{Putting \WF@wfname in middle of page}%
24283 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
24284 \fi \dp\WF@box\z@ \box\WF@box \@tempa
24285 }% end \hbox to 0pt
24286 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
24287 \fi}

```

163 File xcolor-xetex-bidi.def

```

24288 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
24289 \long\def\color@b@x#1#2#3%
24290 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
24291 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
24292 \dimen@ht\z@\advance\dimen@\fbboxsepht\z@\dimen@
24293 \dimen@dp\z@\advance\dimen@\fbboxsepdp\z@\dimen@
24294 {\#1{\#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
24295 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
24296 \DeclareRobustCommand\color
24297 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]}

```




```

24298 \def\@undeclaredcolor[#1]#2%
24299 {\begingroup
24300 \let\@cls\@empty
24301 \XC@getmodclr12{#1}{#2}{}}%
24302 {\ifblendcolors
24303 \ifx\colorblend\@empty\else
24304 \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
24305 \XC@coremodel\@mod\@clr\xcolor@{}{}\@mod\@clr
24306 \fi
24307 \fi
24308 \ifconvertcolorsU
24309 \edef\@tmp{\XC@tgt@mod{\@mod}}%
24310 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24311 \fi
24312 \ifmaskcolors
24313 \convertcolorspec\@mod\@clr\XC@mmod\@clr
24314 \let\@mod\XC@mmod
24315 \XC@inflate\@mod\XC@mclr\@clr\@tmp
24316 \expandafter\XC@mul\@tmp,\@clr
24317 \fi
24318 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
24319 \expandafter\endgroup\@tmp}}
24320 \def\@declaredcolor#1%
24321 {\XC@edef\XC@tmp{#1}\XC@tstfalse
24322 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24323 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24324 \ifconvertcolorsU\XC@tsttrue\fi
24325 \fi
24326 \ifXC@tst
24327 \expandafter\XC@declaredcolor\else
24328 \expandafter\XC@declaredc@lor\fi}
24329 \def\XC@undeclaredcolor#1#2%
24330 {\@ifundefinedmodel{#1}%
24331 {\c@lor@error{model `#1'}}%
24332 {\@nameuse{color@#1}\current@color{#2}}%
24333 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
24334 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24335 \def\XC@declaredc@lor
24336 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
24337 \edef\current@color{\XC@current@color}%
24338 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24339 \DeclareRobustCommand\bidicolor
24340 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
24341 \def\@bidiundeclaredcolor[#1]#2%
24342 {\begingroup
24343 \let\@cls\@empty
24344 \XC@getmodclr12{#1}{#2}{}}%
24345 {\ifblendcolors
24346 \ifx\colorblend\@empty\else
24347 \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
24348 \XC@coremodel\@mod\@clr\xcolor@{}{}\@mod\@clr
24349 \fi
24350 \fi
24351 \ifconvertcolorsU

```



```

24352 \edef\@tmp{\XC@tgt@mod{\@mod}}%
24353 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24354 \fi
24355 \ifmaskcolors
24356 \convertcolorspec\@mod\@clr\XC@mmod\@clr
24357 \let\@mod\XC@mmod
24358 \XC@inflate\@mod\XC@mclr\@clr\@tmp
24359 \expandafter\XC@mul\@tmp,\@clr
24360 \fi
24361 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
24362 \expandafter\endgroup\@tmp}}
24363 \def\XC@bidiundeclaredcolor#1#2%
24364 {\@ifundefinedmodel{#1}%
24365 {\c@lor@error{model `#1'}}%
24366 {\@nameuse{color@#1}\current@color{#2}}%
24367 \edef\XC@current@color{\noexpand\xcolor@{\current@color}{#1}{#2}}%
24368 \XC@display}}
24369 \def\@bidideclaredcolor#1%
24370 {\XC@edef\XC@tmp{#1}\XC@tstfalse
24371 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24372 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24373 \ifconvertcolorsU\XC@tsttrue\fi
24374 \fi
24375 \ifXC@tst
24376 \expandafter\XC@bidideclaredcolor\else
24377 \expandafter\XC@bidideclaredc@lor\fi}
24378 \def\XC@bidideclaredcolor
24379 {\XC@split\XC@tmp
24380 \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
24381 \expandafter\endgroup\@tmp}
24382 \def\XC@bidideclaredc@lor
24383 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
24384 \edef\current@color{\XC@current@color}%
24385 \XC@display}
24386 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
24387 \def\color@fbox#1#2#3{\protect\color@fb@x{#1}{#2}{#3}}
24388 \def\color@fb@x#1#2#3#4%
24389 {\color@b@x{\fboxsep\z@\bidicolor#1{#2}\XC@fbox}%
24390 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
24391 \def\color@setgroup{\begingroup\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

164 File latex-xetex-bidi.def

```

24392 \ProvidesFile{latex-xetex-bidi.def}[2025/12/06 v1.5.5 bidi adaptations for `latex.ltx' for
24393 \newcommand{\TeXXeTOn}{\TeXXeTstate@ne}
24394 \newcommand{\TeXXeTOff}{\TeXXeTstate@z@}
24395 \TeXXeTOn
24396 \def\bidi@RTL@everypar{\setbox\z@lastbox\ifRTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
24397 \let\bidi@o@everypar=\everypar
24398 \newtoks\bidi@n@everypar
24399 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
24400 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
24401 \let\everypar=\bidi@n@everypar
24402 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}

```



```

24403 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
24404 \protected\def\hboxR{\hbox\bgroup
24405   \everyhbox{%
24406     \aftergroup\egroup
24407     \everyhbox{}%
24408     \beginR
24409     \@hboxRconstructtrue
24410     \bgroup
24411     \aftergroup\endR
24412     \aftergroup\egroup
24413   }\hbox}
24414 \protected\def\hboxL{\hbox\bgroup
24415   \everyhbox{%
24416     \aftergroup\egroup
24417     \everyhbox{}%
24418     \beginL
24419     \@hboxRconstructfalse
24420     \bgroup
24421     \aftergroup\endL
24422     \aftergroup\egroup
24423   }\hbox}
24424 \protected\def\vboxR{\vbox\bgroup
24425   \everyvbox{%
24426     \aftergroup\egroup
24427     \everyvbox{}%
24428     \@RTLtrue
24429     \@RTLtabtrue
24430     \bgroup
24431     \aftergroup\egroup
24432   }\vbox}
24433 \protected\def\vboxL{\vbox\bgroup
24434   \everyvbox{%
24435     \aftergroup\egroup
24436     \everyvbox{}%
24437     \@RTLfalse
24438     \@RTLtabfalse
24439     \bgroup
24440     \aftergroup\egroup
24441   }\vbox}
24442 \newcommand*{\bidi@leftskip}{\if@RTL\righskip\else\leftskip\fi}
24443 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\righskip\fi}
24444 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@beamer}
24445 \def\endLTR{\par}
24446 \newenvironment{LTR*}{\LTR
24447   \everypar{%
24448     {\setbox\z@\lastbox
24449       \ifvoid\z@
24450         \kern-\parindent
24451       \fi}%
24452   }%
24453 }{\endLTR\@endpetrue}
24454 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer}
24455 \def\endRTL{\par}
24456 \newenvironment{RTL*}{\RTL

```



```

24457 \everypar{%
24458   {\setbox\z@\lastbox
24459     \ifvoid\z@
24460       \kern-\parindent
24461     \fi}%
24462 }%
24463 }{\endRTL\@endpetrue}
24464 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTL@tabtrue\@bidi@beamer@ragged}
24465 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTL@tabfalse\@bidi@beamer@ragged}
24466 \let\unsetRTL=\setRTL
24467 \let\unsetLTR=\setLTR
24468 \let\LR=\LRE
24469 \let\RL=\RLE
24470 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
24471 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
24472 \let\@ensure@RL=\@ensure@RTL
24473 \let\@ensure@LR=\@ensure@LTR
24474 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
24475 \let\@ensure@maindir=\@ensure@dir
24476 \def\@RTL{RTL}
24477 \def\@LTR{LTR}
24478 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
24479 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
24480 \let\@TeX\TeX
24481 \def\TeX{\@ensure@LTR{\@TeX}}
24482 \let\@LaTeX\LaTeX
24483 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
24484 \let\@LaTeXe\LaTeXe
24485 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
24486 \long\def\bidi@reflect@box#1{%
24487   \leavevmode
24488   \setbox\z@\hbox{#1}%
24489   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
24490   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
24491 }
24492 \if@bidi@csundef{XeTeX}{%
24493   \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
24494     \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}%
24495 }%
24496 \let\@bidi@orig@XeTeX\XeTeX
24497 \bidi@renewrobustcmd*{\XeTeX}{\LR{\@bidi@orig@XeTeX}}%
24498 }
24499 \if@bidi@csundef{XeLaTeX}{%
24500   \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
24501     \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}%
24502 }%
24503 \let\@bidi@orig@XeLaTeX\XeLaTeX
24504 \bidi@renewrobustcmd*{\XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
24505 }
24506 \let\setRL=\setRTL
24507 \let\setLR=\setLTR
24508 \let\unsetRL=\setLTR
24509 \def\bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
24510 \ApplyPatchIfPackageLoaded{array}{%

```



```

24511 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24512 \leavevmode
24513 \hbox \bgroup $\left.\col@sep\tabcolsep \let\dollarbegin\begin\group
24514 \let\dollarend\endgroup
24515 \@tabarray}
24516 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
24517 }{%
24518 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24519 \leavevmode \hbox \bgroup
24520 $\left.\let\@acol\@tabacol
24521 \let\@classz\@tabclassz
24522 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24523
24524 \def\endbidi@tabular@RTLcases{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
24525 \egroup\right\rbrace $\egroup}}
24526 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
24527 \ialign{##\hfil$\&\quad{##}\hfil\crr#1\crr}}\,\right\}}
24528 \renewenvironment{RTLcases}{%
24529 \bidi@matrix@check\RTLcases\env@RTLcases
24530 }{%
24531 \endbidi@tabular@RTLcases%
24532 }
24533 \def\env@RTLcases{%
24534 \let\@ifnextchar\bidi@new@ifnextchar
24535 \def\arraystretch{1.2}%
24536 \bidi@tabular@RTLcases{@{}r@{\quad}r@{}}%
24537 }
24538 \def\SepMark#1{\gdef\@SepMark{#1}}
24539 \SepMark{.}
24540 \def\@thmcountersep{\@SepMark}
24541 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
24542 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
24543 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
24544 \newcommand*{\bidi@thebibliography@font@hook}{ }
24545 \def\list#1#2{%
24546 \ifnum \@listdepth >5\relax
24547 \toodeep
24548 \else
24549 \global\advance\@listdepth\@ne
24550 \fi
24551 \rightmargin\z@
24552 \listparindent\z@
24553 \itemindent\z@
24554 \csname @list\romannumeral\the\@listdepth\endcsname
24555 \def\@itemlabel{#1}%
24556 \let\makelabel\@mklab
24557 \@nmbrlistfalse
24558 #2\relax
24559 \@trivlist
24560 \parskip\parsep
24561 \parindent\listparindent
24562 \advance\linewidth -\rightmargin
24563 \advance\linewidth -\leftmargin
24564 \if@bidi@list@minipage@parbox

```



```

24565 \if@RTL
24566 \advance\@totalleftmargin \leftmargin
24567 \else
24568 \advance\@totalleftmargin \rightmargin
24569 \fi
24570 \else
24571 \if@hboxRconstruct
24572 \if@bidi@list@minipage@parbox@not@nob
24573 \if@RTL
24574 \advance\@totalleftmargin \rightmargin
24575 \else
24576 \advance\@totalleftmargin \leftmargin
24577 \fi
24578 \else
24579 \if@RTL
24580 \advance\@totalleftmargin \leftmargin
24581 \else
24582 \advance\@totalleftmargin \rightmargin
24583 \fi\fi
24584 \else
24585 \if@RTL
24586 \advance\@totalleftmargin \rightmargin
24587 \else
24588 \advance\@totalleftmargin \leftmargin
24589 \fi\fi\fi
24590 \parshape \@one \@totalleftmargin \linewidth
24591 \ignorespaces}
24592 \long\def\@iiiiparbox#1#2[#3]#4#5{%
24593 \leavevmode
24594 \@pboxswfalse
24595 \if@hboxRconstruct
24596 \@bidi@list@minipage@parbox@not@nobtrue
24597 \fi
24598 \if@RTL
24599 \ifx#1t%
24600 \@bidi@list@minipage@parboxtrue
24601 \else
24602 \ifx#1b%
24603 \@bidi@list@minipage@parboxtrue
24604 \fi
24605 \fi
24606 \fi
24607 \setlength\@tempdima{#4}%
24608 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
24609 \ifx\relax#2\else
24610 \setlength\@tempdimb{#2}%
24611 \edef\@parboxto{to\the\@tempdimb}%
24612 \fi
24613 \if#1b\vbox
24614 \else\if #1t\top
24615 \else\ifmmode\center
24616 \else\@pboxswtrue $\center
24617 \fi\fi\fi
24618 \@parboxto{\let\hss\vss\let\unhbox\unvbox

```



```

24619      \csname bm@#3\endcsname}%
24620      \if@pboxsw \m@th$\fi
24621      \@end@tempboxa}
24622 \newenvironment{LTRitems}
24623     {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
24624      \if@bidi@list@minipage@parbox
24625      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24626      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24627      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24628      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24629      \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24630      \ignorespaces}{\vskip\z@}
24631 \newenvironment{RTLitems}
24632     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
24633      \if@bidi@list@minipage@parbox
24634      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24635      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24636      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24637      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24638      \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24639      \ignorespaces}{\vskip\z@}
24640 \newenvironment{LTRbibitems}
24641     {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
24642      \if@bidi@list@minipage@parbox
24643      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24644      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24645      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24646      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24647      \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24648      \ignorespaces}{\vskip\z@}
24649 \newenvironment{RTLbibitems}
24650     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
24651      \if@bidi@list@minipage@parbox
24652      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24653      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24654      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24655      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24656      \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24657      \ignorespaces}{\vskip\z@}
24658 \def\raggedright{%
24659   \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
24660   \leftskip\z@skip
24661   \parindent\z@\parfillskip\z@skip}
24662 \let\@bidi@orig@raggedleft\raggedleft
24663 \let\@bidi@orig@raggedright\raggedright
24664 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRco
24665 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRco
24666 \newcommand{\@bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
24667 \newcommand{\@bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
24668 \DeclareRobustCommand\centerline[1]{%
24669 \if@RTL\@@line{\hss\beginR#1\endR\hss}
24670 \else\@@line{\hss#1\hss}\fi}
24671 \def\@bidi@orig@leftline#1{%
24672 \if@RTL\@@line{\beginR#1\endR\hss}

```



```

24673 \else\@@line{#1\hss}\fi}
24674 \def\ bidi@orig@rightline#1{%
24675 \if@RTL\@@line{\hss\beginR#1\endR}
24676 \else\@@line{\hss#1}\fi}
24677 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\ bidi@orig@rightline{#1}\else\ bidi@orig@lef
24678 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\ bidi@orig@leftline{#1}\else\ bidi@orig@rig
24679 \DeclareRobustCommand\bidirlap[1]{\hb@xt@{z@}{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
24680 \DeclareRobustCommand\bidillap[1]{\hb@xt@{z@}{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
24681 \def\@hangfrom#1{\setbox\@tempboxa\hbox{#1}}%
24682 \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
24683 \def\narrower{%
24684 \advance\if@RTL\rightskip\else\leftskip\fi\parindent
24685 \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
24686 \DeclareRobustCommand\underline[1]{%
24687 \relax
24688 \ifmmode\@@underline{#1}%
24689 \else
24690 \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
24691 \else
24692 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
24693 \if@compatibility
24694 \let\underline=\underline
24695 \fi
24696 \def\@tabular{%
24697 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
24698 $\let\@acol\@tabacol
24699 \let\@classz\@tabclassz
24700 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24701 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
24702 \egroup $\if@RTLtab\endR\fi\egroup}
24703 \expandafter \let \csname endtabular*\endcsname = \endtabular
24704 \def\@array[#1]#2{%
24705 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
24706 \bgroup
24707 \setbox\@arstrutbox\hbox{%
24708 \vrule \@height\arraystretch\ht\strutbox
24709 \@depth\arraystretch \dp\strutbox
24710 \@width{z@}%
24711 \mkpream{#2}%
24712 \edef\@preamble{%
24713 \ialign \noexpand\@halignto
24714 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
24715 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
24716 \let\@tabularnewline\%
24717 \let\par\empty
24718 \let\sharp##%
24719 \set@typeset@protect
24720 \lineskip\z@skip\baselineskip\z@skip
24721 \ifhmode \@preamerr\z@ \@@par\fi
24722 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
24723 \@preamble}
24724 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
24725 \let\@classiv\@arrayclassiv
24726 \let\\\@arraycr\let\@halignto\empty\@RTLtabfalse\@tabarray}

```




```

24727 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
24728   \ifnum \@lastchclass=3 5 \else
24729   \z@ \if #1c\@chnum \z@ \else
24730   \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
24731   \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
24732   \@chclass \if #1|\@ne \else
24733   \if #1@\tw@ \else
24734   \if #1p3 \else \z@ \@preamerr 0\fi
24735 \fi \fi \fi \fi \fi \fi
24736 \fi}
24737 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
24738 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
24739 \def\bm@t{\unhbox\@tempboxa\hss}
24740 \def\bm@b{\hss\unhbox\@tempboxa}
24741 \def\@dottedtocline#1#2#3#4#5{%
24742   \ifnum #1>\c@tocdepth \else
24743   \vskip \z@ \@plus.2\p@
24744   {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrm
24745   \parindent #2\relax\@afterindenttrue
24746   \interlinepenalty\@M
24747   \leavevmode
24748   \@tempdima #3\relax
24749   \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24750   {#4}\nobreak
24751   \leaders\hbox{$\m@th
24752     \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
24753     mu$}\hfill
24754   \nobreak
24755   \hb@xt@\@pnumwidth{{\hfil\normalfont \normalcolor #5}}%
24756   \par}%
24757 \fi}
24758
24759 \newcount\@bidi@column@check@number
24760
24761 \def\@bidi@column@status#1{\gdef\@bidi@current@column@status{#1}}
24762
24763 \def\@bidi@set@column@status#1#2{%
24764   \global\expandafter\let\csname #1\endcsname\@bidi@current@column@status}
24765
24766 \if@twocolumn
24767 \newcommand\DetectColumn[3][1]{%
24768   \ifx\@bidi@firstcolumn@status@write\relax
24769     \PackageError{bidi}%
24770     {Option 'DetectColumn' not selected}%
24771     {\string\DetectColumn\space
24772     requires the use of the 'DetectColumn'
24773     option on the package}%
24774   \fi
24775   \global\advance\@bidi@column@check@number\@ne
24776   \edef\@bidi@column@type{\expandafter\ifx
24777     \csname bidi@column-\the\@bidi@column@check@number\endcsname\relax
24778     0\else
24779     \csname bidi@column-\the\@bidi@column@check@number\endcsname
24780     \fi}%

```



```

24781 \ifcase \bidi@column@type\relax
24782     \ifcase #1\or #2\or#3\fi % 0 not known use first column as default
24783 \or
24784     #2% % 1 First column
24785 \or
24786     #3% % 2 Second (Last column)
24787 \else
24788     \ERROR
24789 \fi
24790 \edef\next{\write\@auxout
24791     {\string\bidi@set@column@status{\bidi@column-\the\bidi@column@check@number}}%
24792     {\bidi@column@type}}}%
24793 \next
24794 }
24795
24796 \AtEndDocument{\def\bidi@set@column@status#1#2{%
24797     \ifnum #2=\bidi@current@column@status\else
24798         \@tempswattrue
24799     \fi}%
24800 }
24801 \fi
24802
24803 \def\RTL@outputdblcol{%
24804     \if@firstcolumn
24805         \global\@firstcolumnfalse
24806         \global\setbox\@leftcolumn\copy\@outputbox
24807         \splitmaxdepth\maxdimen
24808         \vbadness\maxdimen
24809         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24810         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24811         \toks@\expandafter{\topmark}%
24812         \xdef\@firstcoltopmark{\the\toks@}%
24813         \toks@\expandafter{\splitfirstmark}%
24814         \xdef\@firstcolfirstmark{\the\toks@}%
24815         \ifx\@firstcolfirstmark\@empty
24816             \global\let\@setmarks\relax
24817         \else
24818             \gdef\@setmarks{%
24819                 \let\firstmark\@firstcolfirstmark
24820                 \let\topmark\@firstcoltopmark}%
24821         \fi
24822     \else
24823         \global\@firstcolumntrue
24824         \setbox\@outputbox\vbox{%
24825             \hb@xt@\textwidth{%
24826                 \hskip \columnwidth
24827                 \hfil
24828                 {\normalcolor\vrule \@width\columnseprule}%
24829                 \hfil
24830                 \hb@xt@\columnwidth{%
24831                     \bidi@firstcolumn@status@write%
24832                     \box\@leftcolumn \hss}%
24833                 \hskip -\textwidth
24834                 \hb@xt@\columnwidth{%

```



```

24835     \bidi@lastcolumn@status@write%
24836     \box\@outputbox \hss}%
24837     \hskip \columnsep
24838     \hskip \columnwidth }}%
24839 \@combinedblfloats
24840     \@setmarks
24841     \@outputpage
24842     \begingroup
24843     \@dblfloatplacement
24844     \@startdblcolumn
24845     \@whilesw\if@fcolmade \fi{\@outputpage
24846     \@startdblcolumn}%
24847     \endgroup
24848 \fi}%
24849
24850 \def\LTR@outputdblcol{%
24851 \if@firstcolumn
24852     \global\@firstcolumnfalse
24853     \global\setbox\@leftcolumn\copy\@outputbox
24854     \splitmaxdepth\maxdimen
24855     \vbadness\maxdimen
24856     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24857     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24858     \toks@\expandafter{\topmark}%
24859     \xdef\@firstcoltopmark{\the\toks@}%
24860     \toks@\expandafter{\splitfirstmark}%
24861     \xdef\@firstcolfirstmark{\the\toks@}%
24862     \ifx\@firstcolfirstmark\@empty
24863         \global\let\@setmarks\relax
24864     \else
24865         \gdef\@setmarks{%
24866             \let\firstmark\@firstcolfirstmark
24867             \let\topmark\@firstcoltopmark}%
24868     \fi
24869 \else
24870     \global\@firstcolumntrue
24871     \setbox\@outputbox\vbox{%
24872         \hb@xt@\textwidth{%
24873             \hb@xt@\columnwidth{%
24874                 \bidi@firstcolumn@status@write%
24875                 \box\@leftcolumn \hss}%
24876                 \hfil
24877                 {\normalcolor\vrule \@width\columnseprule}%
24878                 \hfil
24879                 \hb@xt@\columnwidth{%
24880                     \bidi@lastcolumn@status@write%
24881                     \box\@outputbox \hss}}}%
24882     \@combinedblfloats
24883     \@setmarks
24884     \@outputpage
24885     \begingroup
24886     \@dblfloatplacement
24887     \@startdblcolumn
24888     \@whilesw\if@fcolmade \fi{\@outputpage

```



```

24889 \startdblcolumn}%
24890 \endgroup
24891 \fi}%
24892
24893
24894 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
24895 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
24896 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
24897
24898 \bidi@appto\@outputbox@appendfootnotes{%
24899 \ifvoid\@bidi@copyins@
24900 \else
24901 \@outputbox@append{%
24902 \vskip \skip\@bidi@copyins@
24903 \color@begingroup
24904 \normalcolor
24905 \unvbox \@bidi@copyins@
24906 \color@endgroup
24907 }%
24908 \fi
24909 }
24910
24911 \def\LTRmarginpar{%
24912 \ifhmode
24913 \@bsphack
24914 \@floatpenalty -\@Mii
24915 \else
24916 \@floatpenalty -\@Miii
24917 \fi
24918 \ifinner
24919 \@parmoderr
24920 \@floatpenalty\z@
24921 \else
24922 \@next\@currbox\@freelist{}\}%
24923 \@next\@marbox\@freelist{global\count\@marbox\m@ne}%
24924 {\@floatpenalty\z@
24925 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
24926 \fi
24927 \@ifnextchar [\@LTRxmpar\@LTRympar}
24928 \long\def\@LTRxmpar[#1]#2{%
24929 \@LTRsavemarbox\@marbox{#1}%
24930 \@LTRsavemarbox\@currbox{#2}%
24931 \@xympar}
24932 \long\def\@LTRympar#1{%
24933 \@LTRsavemarbox\@marbox{#1}%
24934 \global\setbox\@currbox\copy\@marbox
24935 \@xympar}
24936 \long\def \@LTRsavemarbox #1#2{%
24937 \global\setbox #1%
24938 \color@vbox
24939 \vtop{%
24940 \hsize\marginparwidth
24941 \@parboxrestore
24942 \@LTRmarginparreset

```



```

24943         #2%
24944         \@minipagefalse
24945         \outer@nobreak
24946     }%
24947     \color@endbox
24948 }
24949 \def \@LTRmarginparreset {%
24950     \reset@font
24951     \normalsize
24952     \@minipagetrue
24953     \everypar{\@minipagefalse\everypar{}\beginL}%
24954 }
24955 \def\RTLmarginpar{%
24956     \ifhmode
24957         \@bsphack
24958         \@floatpenalty -\@Mii
24959     \else
24960         \@floatpenalty-\@Miii
24961     \fi
24962     \ifinner
24963         \@parmoderr
24964         \@floatpenalty\z@
24965     \else
24966         \@next\@currbox\@freelist{}\{}%
24967         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24968         {\@floatpenalty\z@
24969         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
24970     \fi
24971     \ifnextchar [\@RTLxmpar\@RTLympar}
24972 \long\def\@RTLxmpar[#1]#2{%
24973     \@RTLSavemarbox\@marbox{#1}%
24974     \@RTLSavemarbox\@currbox{#2}%
24975     \@xympar}
24976 \long\def\@RTLympar#1{%
24977     \@RTLSavemarbox\@marbox{#1}%
24978     \global\setbox\@currbox\copy\@marbox
24979     \@xympar}
24980 \long\def \@RTLSavemarbox #1#2{%
24981     \global\setbox #1%
24982         \color@vbox
24983         \vtop{%
24984             \hsize\marginparwidth
24985             \@parboxrestore
24986             \@RTLmarginparreset
24987             #2%
24988             \@minipagefalse
24989             \outer@nobreak
24990         }%
24991     \color@endbox
24992 }
24993 \def \@RTLmarginparreset {%
24994     \reset@font
24995     \normalsize
24996     \@minipagetrue

```



```

24997         \everypar{\@minipagefalse\everypar{}\beginR}%
24998 }
24999 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
25000   \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@one
25001   \if@twocolumn
25002     \if@firstcolumn \@tempcnta\m@ne \fi
25003   \else
25004     \if@mparswitch
25005       \ifodd\c@page \else\@tempcnta\m@ne \fi
25006     \fi
25007     \if@reversemargin \@tempcnta -\@tempcnta \fi
25008   \fi
25009   \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
25010   \@tempdima\@mparbottom
25011   \advance\@tempdima -\@pageht
25012   \advance\@tempdima\ht\@marbox
25013   \ifdim\@tempdima >\z@
25014     \@latexwarning@no@line {Marginpar on page \thepage\space moved}%
25015   \else
25016     \@tempdima\z@
25017   \fi
25018   \global\@mparbottom\@pageht
25019   \global\advance\@mparbottom\@tempdima
25020   \global\advance\@mparbottom\dp\@marbox
25021   \global\advance\@mparbottom\marginparpush
25022   \advance\@tempdima -\ht\@marbox
25023   \global\setbox \@marbox
25024     \vbox {\vskip \@tempdima
25025       \box \@marbox}%
25026   \global \ht\@marbox \z@
25027   \global \dp\@marbox \z@
25028   \kern -\@pagedp
25029   \nointerlineskip
25030   \hb@xt@\columnwidth
25031     {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
25032       \hskip\columnwidth \hskip\marginparsep
25033     \else
25034       \hskip -\marginparsep \hskip -\marginparwidth
25035     \fi
25036     \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
25037     \nointerlineskip
25038     \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
25039 \long\def\@ympar#1{%
25040   \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
25041     \global\setbox\@currbox\copy\@marbox
25042     \@xympar}
25043 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
25044 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
25045 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
25046 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
25047   \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
25048 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
25049   \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
25050   \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge

```



```

25051 \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
25052 \fi}
25053
25054 \newcommand*{\bidi@font@@outputpage}{%
25055
25056 \def\@outputpage{%
25057 \begingroup % the \endgroup is put in by \aftergroup
25058 \let \protect \noexpand
25059 \@resetactivechars
25060 \global\let\@if@newlist\if@newlist
25061 \global\@newlistfalse
25062 \@parboxrestore
25063 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
25064 \bidi@beforeoutputpageshipouthook
25065 \shipout \vbox{%
25066 \set@typeset@protect
25067 \aftergroup \endgroup
25068 \aftergroup \set@typeset@protect
25069 % correct? or just restore by ending
25070 % the group?
25071 \if@specialpage
25072 \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
25073 \fi
25074 \if@twoside
25075 \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
25076 \if@RTLmain
25077 \let\@themargin\evensidemargin
25078 \else
25079 \let\@themargin\oddsidemargin
25080 \fi
25081 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
25082 \if@RTLmain
25083 \let\@themargin\oddsidemargin
25084 \else
25085 \let\@themargin\evensidemargin
25086 \fi
25087 \fi
25088 \ifx\@thehead\@empty \let\@thehead\hfil \fi
25089 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
25090 \else %% not @twoside
25091 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
25092 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
25093 \fi
25094 \reset@font
25095 \normalsize
25096 \bidi@font@@outputpage
25097 \normalsfcodes
25098 \let\label\@gobble
25099 \let\index\@gobble
25100 \let\glossary\@gobble
25101 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
25102 \@begindvi
25103 \vskip \topmargin
25104 \moveright\@themargin \vbox {%

```



```

25105 \global\let\bidibeforeheader\@firstofone
25106 \bidibeforeheaderhook
25107 \setbox\@tempboxa \vbox to\headheight{%
25108 \vfil
25109 \color@hbox
25110 \normalcolor
25111 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if@
25112 \color@endbox
25113 }% %% 22 Feb 87
25114 \dp\@tempboxa \z@
25115 \box\@tempboxa
25116 \vskip \headsep
25117 \global\let\bidibeforeoutputbox\@firstofone
25118 \bidibeforeoutputboxoutputpagehook
25119 \box\@outputbox
25120 \global\let\bidiafteroutputbox\@firstofone
25121 \bidiafteroutputboxoutputpagehook
25122 \global\let\bidibeforefooter\@firstofone
25123 \bidibeforefooterhook
25124 \baselineskip \footskip
25125 \color@hbox
25126 \normalcolor
25127 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@
25128 \color@endbox
25129 \global\let\bidiafterfooter\@firstofone
25130 \bidiafterfooterhook
25131 }%
25132 }%
25133 \global\let\bidiafteroutputpageshipout\@firstofone
25134 \bidiafteroutputpageshipouthook
25135 \global\let\if@newlist\@if@newlist
25136 \global \colht \textheight
25137 \stepcounter{page}%
25138 \let\firstmark\botmark
25139 \global\let\bidiatendoutputpage\@firstofone
25140 \bidiatendoutputpagehook
25141 }
25142 \long\def\@makecaption#1#2{%
25143 \vskip\abovecaptionskip
25144 \sbox\@tempboxa{#1: #2}%
25145 \ifdim \wd\@tempboxa >\hsize
25146 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
25147 \else
25148 \global \minipagefalse
25149 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
25150 \fi
25151 \vskip\belowcaptionskip}
25152 \let\bidisaved@eqno=\eqno
25153 \let\bidisaved@leqno=\leqno
25154 \def\eqno{\ifnum\predisplaydirection<\z@ \bidisaved@leqno \else \bidisaved@eqno \fi}
25155 \def\leqno{\ifnum\predisplaydirection<\z@ \bidisaved@eqno \else \bidisaved@leqno \fi}
25156 \ApplyPatchIfPackageLoadedF{amsmath}{
25157 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
25158 }

```




```

25159 \input{footnote-xetex-bidi.def}
25160 \if@twocolumn
25161   \let\autofooterule\relax
25162   \let\leftfootnoterule\relax
25163   \let\rightfootnoterule\relax
25164   \textwidthfootnoterule
25165 \fi
25166 \if@bidi@csundef{@idxitem}{-}{%
25167 \renewcommand{@idxitem}{\par\hangindent \if@RTL-\fi40\p@}%
25168 }
25169
25170 \ApplyPatchToClassesIfPackageLoadedF{%
25171   book, %
25172   report %
25173 }{flowfram}
25174
25175 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
25176
25177 \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
25178   fleqn, %
25179   leqno%
25180 }[clo]
25181
25182 \ApplyPatchToClasses{%
25183   amsart, %
25184   amsbook, %
25185   article, %
25186   artikel1, %
25187   artikel2, %
25188   artikel3, %
25189   beamer, %
25190   boek, %
25191   boek3, %
25192   bookest, %
25193   combine, %
25194   extbook, %
25195   extletter, %
25196   extarticle, %
25197   extreport, %
25198   imspdoc, %
25199   letter, %
25200   memoir, %
25201   rapport1, %
25202   rapport3, %
25203   refrep, %
25204   scrartcl, %
25205   scrbook, %
25206   scrreprt %
25207 }
25208
25209 \ApplyPatchCodeBeforePackage{hyperref}{%
25210   \let\HyOrg@maketitle\maketitle
25211 }
25212

```



```

25213 \ApplyPatchToPackages{%
25214   algorithm2e, %
25215   amsmath, %
25216   amstext, %
25217   amsthm, %
25218   array, %
25219   arydshln, %
25220   beamerbaseauxtemplates, %
25221   beamerbaseboxes, %
25222   beamerbasecolor, %
25223   beamerbasecompatibility, %
25224   beamerbaseframecomponents, %
25225   beamerbaseframesize, %
25226   beamerbaselocalstructure, %
25227   beamerbasemisc, %
25228   beamerbasenavigation, %
25229   beamerbaseoverlay, %
25230   beamerinnerthemecircles, %
25231   beamerinnerthemedefault, %
25232   beamerinnerthemefocus, %
25233   beamerinnerthemeinmargin, %
25234   beamerinnerthememetropolis, %
25235   beamerinnerthemerectangles, %
25236   beamerinnerthemerounded, %
25237   beamerouterthemedefault, %
25238   beamerouterthemefocus, %
25239   beamerouterthemeinfolines, %
25240   beamerouterthememetropolis, %
25241   beamerouterthememiniframes, %
25242   beamerouterthemesidebar, %
25243   beamerouterthemesplit, %
25244   beamerouterthemesshadow, %
25245   beamerouterthemessmoothbars, %
25246   beamerouterthemessmoothtree, %
25247   beamerouterthemetree, %
25248   beamerthemeHannover, %
25249   beamerthemeSingapore, %
25250   breqn, %
25251   cals, %
25252   caption, %
25253   caption3, %
25254   color, %
25255   colortbl, %
25256   crop, %
25257   cuted, %
25258   cutwin, %
25259   dblfnote, %
25260   diagbox, %
25261   draftwatermark, %
25262   eso-pic, %
25263   empheq, %
25264   fancybox, %
25265   fancyhdr, %
25266   fix2col, %

```



```

25267 float, %
25268 floatrow, %
25269 flowfram, %
25270 fnpct, %
25271 footnotebackref, %
25272 framed, %
25273 ftnright, %
25274 geometry, %
25275 graphicx, %
25276 hvfloat, %
25277 hyperref, %
25278 lettrine, %
25279 lineno, %
25280 listings, %
25281 longtable, %
25282 lscape, %
25283 mathtools, %
25284 mdframed, %
25285 media9, %
25286 midfloat, %
25287 minitoc, %
25288 multicol, %
25289 adjmulticol, %
25290 multienum, %
25291 natbib, %
25292 newfloat, %
25293 nicematrix, %
25294 ntheorem, %
25295 ntheorem-hyper, %
25296 overpic, %
25297 pdfbase, %
25298 pdfscape, %
25299 pgfsys, %
25300 picinpar, %
25301 quotchap, %
25302 ragged2e, %
25303 rotating, %
25304 sidecap, %
25305 soul, %
25306 stabular, %
25307 subfigure, %
25308 tabs, %
25309 tabularx, %
25310 tabulary, %
25311 tcolorbox, %
25312 thmbox, %
25313 titlesec, %
25314 titletoc, %
25315 tocbasic, %
25316 tocbibind, %
25317 tocloft, %
25318 tocstyle, %
25319 todonotes, %
25320 wrapfig, %

```



```

25321 xcolor, %
25322 xltextra %
25323 }
25324
25325 \ApplyPatchToFiles{%
25326 pgfcorescopes.code, %
25327 pstricks %
25328 }[tex]
25329
25330 \ApplyPatchToFiles{%
25331 hgeneric-testphase, %
25332 tc-xetex %
25333 }
25334

```

165 File xltextra-xetex-bidi.def

```

25335 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
25336 \let\@XeTeX\XeTeX
25337 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
25338 \let\@XeLaTeX\XeLaTeX
25339 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

```

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