

# JuliaMono – a monospaced font for scientific and technical writing

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\*Thanks to: Uwe Siart

## 1 Introduction

The typeface was introduced at the 2020 Julia Programming Language conference, JuliaCon as my contribution to the festivities. [1]

## 2 The font files

The font files are copyright by the »JuliaMono Project Authors« (<https://github.com/cormullion/juliamono>) with an OFL license »This Font Software is licensed under the SIL Open Font License, Version 1.1. This license is available with a FAQ at <https://scripts.sil.org/OFL>.



```
voss>juliamono:$ luafindfont juliamono
```

No.	Filename	Symbolic	Path
1.	JuliaMono-Black.ttf	juliamono	/Users/voss/Library/Fonts/JuliaMono/
2.	JuliaMono-BlackItalic.ttf	juliamono	/Users/voss/Library/Fonts/JuliaMono/
3.	JuliaMono-Bold.ttf	juliamono	/Users/voss/Library/Fonts/JuliaMono/
4.	JuliaMono-BoldItalic.ttf	juliamono	/Users/voss/Library/Fonts/JuliaMono/
5.	JuliaMono-ExtraBold.ttf	juliamono	/Users/voss/Library/Fonts/JuliaMono/
6.	JuliaMono-ExtraBoldItalic.ttf	juliamono	/Users/voss/Library/Fonts/JuliaMono/
7.	JuliaMono-Light.ttf	juliamono	/Users/voss/Library/Fonts/JuliaMono/
8.	JuliaMono-LightItalic.ttf	juliamono	/Users/voss/Library/Fonts/JuliaMono/
9.	JuliaMono-Medium.ttf	juliamono	/Users/voss/Library/Fonts/JuliaMono/
10.	JuliaMono-MediumItalic.ttf	juliamono	/Users/voss/Library/Fonts/JuliaMono/
11.	JuliaMono-Regular.ttf	juliamono	/Users/voss/Library/Fonts/JuliaMono/
12.	JuliaMono-RegularItalic.ttf	juliamono	/Users/voss/Library/Fonts/JuliaMono/
13.	JuliaMono-SemiBold.ttf	juliamono	/Users/voss/Library/Fonts/JuliaMono/
14.	JuliaMono-SemiBoldItalic.ttf	juliamono	/Users/voss/Library/Fonts/JuliaMono/

The package `juliamono` supports only the typewriter family with specific optional arguments:

<i>name</i>	<i>value</i>	<i>meaning</i>
DefaultFeatures	code	for all font styles
Light	false	
Medium	false	
Semi	false	
Black	false	
ExtraBold	false	
calt	true	Ligatures
zero	true	Slashed zero
Scale	MatchLowercase	
FakeStretch	1	

```
\usepackage[Light]{juliamono}% Regular and Italic
```

```
\ttfamily
```

```
Default text, \textbf{Bold text}, \textit{Italic text}, \textbf{\textit{Bold Italic text}}
```

```
Default text, Bold text, Italic text, Bold Italic text
```

```
\usepackage[Medium]{juliamono}% Regular and Italic
```

```
\ttfamily
```

```
Default text, \textbf{Bold text}, \textit{Italic text}, \textbf{\textit{Bold Italic text}}
```

```
Default text, Bold text, Italic text, Bold Italic text
```

```
\usepackage[Semi]{juliamono}% Bold and BoldItalic
```

```
\ttfamily
```

```
Default text, \textbf{Bold text}, \textit{Italic text}, \textbf{\textit{Bold Italic text}}
```

```
Default text, Bold text, Italic text, Bold Italic text
```

```
\usepackage[ExtraBold]{juliamono}% Bold and BoldItalic
```

```
\ttfamily
```

```
Default text, \textbf{Bold text}, \textit{Italic text}, \textbf{\textit{Bold Italic text}}
```

```
Default text, Bold text, Italic text, Bold Italic text
```

```
\usepackage[Black]{juliamono}% Bold and BoldItalic
```

```
\ttfamily
```

```
Default text, \textbf{Bold text}, \textit{Italic text}, \textbf{\textit{Bold Italic text}}
```

```
Default text, Bold text, Italic text, Bold Italic text
```

The fonts are preset with `Scale=MatchLowercase` and `FakeStretch=0.92`. For this documentation we use instead:

```
\usepackage[Scale=MatchUppercase,FakeStretch=0.85]{juliamono}
```

```
\usepackage[Scale=MatchUppercase]{juliainono}% Default is MatchLowercase
```

```
Default Roman \ttfamily
```

```
Default Typewriter, \addfontfeature{Scale=0.88} Scale=0.88,
```

```
\addfontfeature{Scale=0.5} Scale=0.5, \addfontfeature{Scale=0.2} Scale=0.2,
```

```
\addfontfeature{Scale=1} Scale=1, \addfontfeature{Scale=MatchLowercase} Scale=MatchLowercase,
```

```
\addfontfeature{Scale=MatchUppercase} Scale=MatchUppercase
```

```
Default Roman Default Typewriter, Scale=0.88, Scale=0.5, Scale=0.2 Scale=1,  
Scale=MatchLowercase, Scale=MatchUppercase
```

### 3 Font examples

#### 3.1 JuliaMono Light

abcdefghijklmnopqrstuvwxyzáéóúàèòùçå 12345  
 ABCDEFGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÅ 67890

```
{ } [ ] ( ) < > $ * - + = / _ % ^ @ & | ~ ? ' " " " , . ; : !
,,i "¶¶[]|≠¿' «Σ€⊙†Ω"/øπ •±â,∂f⊙âΔ@ææç√/μ
“-”£fi.~°»,,%,~`ÁÛØΠ°•'Ææfl 10ÏÏ™ÍÁ≥#ÛÇϙ( ) ~, ÷-
```

**(Bold)**

abcdefghijklmnopqrstuvwxyzáéóúàèòùçå 12345  
 ABCDEFGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÅ 67890

```
{ } [ ] ( ) < > $ * - + = / _ % ^ @ & | ~ ? ' " " " , . ; : !
,,i "¶¶[]|≠¿' «Σ€⊙†Ω"/øπ •±â,∂f⊙âΔ@ææç√/μ
“-”£fi.~°»,,%,~`ÁÛØΠ°•'Ææfl 10ÏÏ™ÍÁ≥#ÛÇϙ( ) ~, ÷-
```

*(Italic)*

abcdefghijklmnopqrstuvwxyzáéóúàèòùçå 12345  
 ABCDEFGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÅ 67890

```
{ } [ ] ( ) < > $ * - + = / _ % ^ @ & | ~ ? ' " " " , . ; : !
,,i "¶¶[]|≠¿' «Σ€⊙†Ω"/øπ •±â,∂f⊙âΔ@ææç√/μ
“-”£fi.~°»,,%,~`ÁÛØΠ°•'Ææfl 10ÏÏ™ÍÁ≥#ÛÇϙ( ) ~, ÷-
```

**(BoldItalic)**

abcdefghijklmnopqrstuvwxyzáéóúàèòùçå 12345  
 ABCDEFGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÅ 67890

```
{ } [ ] ( ) < > $ * - + = / _ % ^ @ & | ~ ? ' " " " , . ; : !
,,i "¶¶[]|≠¿' «Σ€⊙†Ω"/øπ •±â,∂f⊙âΔ@ææç√/μ
“-”£fi.~°»,,%,~`ÁÛØΠ°•'Ææfl 10ÏÏ™ÍÁ≥#ÛÇϙ( ) ~, ÷-
```

#### 3.2 JuliaMono Regular

abcdefghijklmnopqrstuvwxyzáéóúàèòùçå 12345  
 ABCDEFGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÅ 67890

```
{ } [ ] ( ) < > $ * - + = / _ % ^ @ & | ~ ? ' " " " , . ; : !
,,i "¶¶[]|≠¿' «Σ€⊙†Ω"/øπ •±â,∂f⊙âΔ@ææç√/μ
“-”£fi.~°»,,%,~`ÁÛØΠ°•'Ææfl 10ÏÏ™ÍÁ≥#ÛÇϙ( ) ~, ÷-
```

**(Bold)**

abcdefghijklmnopqrstuvwxyzáéóúàèòùçå 12345  
 ABCDEFGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÅ 67890

```
{ } [ ] ( ) < > $ * - + = / _ % ^ @ & | ~ ? ' " " " , . ; : !
,,i "¶¶[]|≠¿' «Σ€⊙†Ω"/øπ •±â,∂f⊙âΔ@ææç√/μ
“-”£fi.~°»,,%,~`ÁÛØΠ°•'Ææfl 10ÏÏ™ÍÁ≥#ÛÇϙ( ) ~, ÷-
```

*(Italic)*

abcdefghijklmnopqrstuvwxyzáéóúàèòùçå 12345  
 ABCDEFGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÅ 67890

```
{ } [ ] ( ) < > $ * - + = / _ % ^ @ & | ~ ? ' " " " , . ; : !
,,i "¶¶[]|≠¿' «Σ€⊙†Ω"/øπ •±â,∂f⊙âΔ@ææç√/μ
“-”£fi.~°»,,%,~`ÁÛØΠ°•'Ææfl 10ÏÏ™ÍÁ≥#ÛÇϙ( ) ~, ÷-
```

**(BoldItalic)**

abcdefghijklmnopqrstuvwxyzáéóúàèòùçå 12345  
 ABCDEFGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÅ 67890

```
{ } [ ] ( ) < > $ * - + = / _ % ^ @ & | ~ ? ' " " " , . ; : !
,,i "¶¶[]|≠¿' «Σ€⊙†Ω"/øπ •±â,∂f⊙âΔ@ææç√/μ
“-”£fi.~°»,,%,~`ÁÛØΠ°•'Ææfl 10ÏÏ™ÍÁ≥#ÛÇϙ( ) ~, ÷-
```

#### 3.3 JuliaMono Medium

abcdefghijklmnopqrstuvwxyzáéóúàèòùçå 12345  
 ABCDEFGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÅ 67890

```
{ } [ ] ( ) < > $ * - + = / _ % ^ @ & | ~ ? ' " " " , . ; : !
,,i "¶¶[]|≠¿' «Σ€⊙†Ω"/øπ •±â,∂f⊙âΔ@ææç√/μ
“-”£fi.~°»,,%,~`ÁÛØΠ°•'Ææfl 10ÏÏ™ÍÁ≥#ÛÇϙ( ) ~, ÷-
```

**(Bold)**

abcdefghijklmnopqrstuvwxyzáéóúàèòùçå 12345  
 ABCDEFGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÅ 67890

```
{ } [ ] ( ) < > $ * - + = / _ % ^ @ & | ~ ? ' " " " , . ; : !
,,i "¶¶[]|≠¿' «Σ€⊙†Ω"/øπ •±â,∂f⊙âΔ@ææç√/μ
“-”£fi.~°»,,%,~`ÁÛØΠ°•'Ææfl 10ÏÏ™ÍÁ≥#ÛÇϙ( ) ~, ÷-
```

*(Italic)*

abcdefghijklmnopqrstuvwxyzáéóúàèòùçå 12345  
 ABCDEFGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÅ 67890

```
{ } [ ] ( ) < > $ * - + = / _ % ^ @ & | ~ ? ' " " " , . ; : !
,,i "¶¶[]|≠¿' «Σ€⊙†Ω"/øπ •±â,∂f⊙âΔ@ææç√/μ
“-”£fi.~°»,,%,~`ÁÛØΠ°•'Ææfl 10ÏÏ™ÍÁ≥#ÛÇϙ( ) ~, ÷-
```

(BoldItalic)

abcdefghijklmnopqrstuvxyzáéóúàèòùçâ 12345
ABCDEFHGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÂ 67890
{}[]()<>\$\*-+/\_%^@&|~?'",.~:;!
,,i“ŋç[]|≠ì'«Σ€ø†Ω”∕øπ •±â,∂f⊙ª∆@æçç∕∫μ
“~”£fi.~°»,,%,”~ÁÛØΠ°•’Æefl 1ÓÌÏ™ÍÁ≥#ÙÇϕ( ) ~ ÷-

(ExtraBold)

abcdefghijklmnopqrstuvxyzáéóúàèòùçâ 12345
ABCDEFHGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÂ 67890
{}[]()<>\$\*-+/\_%^@&|~?'",.~:;!
,,i“ŋç[]|≠ì'«Σ€ø†Ω”∕øπ •±â,∂f⊙ª∆@æçç∕∫μ
“~”£fi.~°»,,%,”~ÁÛØΠ°•’Æefl 1ÓÌÏ™ÍÁ≥#ÙÇϕ( ) ~ ÷-

3.4 JuliaMono SemiBold

abcdefghijklmnopqrstuvxyzáéóúàèòùçâ 12345
ABCDEFHGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÂ 67890
{}[]()<>\$\*-+/\_%^@&|~?'",.~:;!
,,i“ŋç[]|≠ì'«Σ€ø†Ω”∕øπ •±â,∂f⊙ª∆@æçç∕∫μ
“~”£fi.~°»,,%,”~ÁÛØΠ°•’Æefl 1ÓÌÏ™ÍÁ≥#ÙÇϕ( ) ~ ÷-

(Italic)

abcdefghijklmnopqrstuvxyzáéóúàèòùçâ 12345
ABCDEFHGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÂ 67890
{}[]()<>\$\*-+/\_%^@&|~?'",.~:;!
,,i“ŋç[]|≠ì'«Σ€ø†Ω”∕øπ •±â,∂f⊙ª∆@æçç∕∫μ
“~”£fi.~°»,,%,”~ÁÛØΠ°•’Æefl 1ÓÌÏ™ÍÁ≥#ÙÇϕ( ) ~ ÷-

(Bold)

abcdefghijklmnopqrstuvxyzáéóúàèòùçâ 12345
ABCDEFHGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÂ 67890
{}[]()<>\$\*-+/\_%^@&|~?'",.~:;!
,,i“ŋç[]|≠ì'«Σ€ø†Ω”∕øπ •±â,∂f⊙ª∆@æçç∕∫μ
“~”£fi.~°»,,%,”~ÁÛØΠ°•’Æefl 1ÓÌÏ™ÍÁ≥#ÙÇϕ( ) ~ ÷-

(BoldItalic)

abcdefghijklmnopqrstuvxyzáéóúàèòùçâ 12345
ABCDEFHGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÂ 67890
{}[]()<>\$\*-+/\_%^@&|~?'",.~:;!
,,i“ŋç[]|≠ì'«Σ€ø†Ω”∕øπ •±â,∂f⊙ª∆@æçç∕∫μ
“~”£fi.~°»,,%,”~ÁÛØΠ°•’Æefl 1ÓÌÏ™ÍÁ≥#ÙÇϕ( ) ~ ÷-

(Italic)

abcdefghijklmnopqrstuvxyzáéóúàèòùçâ 12345
ABCDEFHGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÂ 67890
{}[]()<>\$\*-+/\_%^@&|~?'",.~:;!
,,i“ŋç[]|≠ì'«Σ€ø†Ω”∕øπ •±â,∂f⊙ª∆@æçç∕∫μ
“~”£fi.~°»,,%,”~ÁÛØΠ°•’Æefl 1ÓÌÏ™ÍÁ≥#ÙÇϕ( ) ~ ÷-

3.6 JuliaMono Black

abcdefghijklmnopqrstuvxyzáéóúàèòùçâ 12345
ABCDEFHGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÂ 67890
{}[]()<>\$\*-+/\_%^@&|~?'",.~:;!
,,i“ŋç[]|≠ì'«Σ€ø†Ω”∕øπ •±â,∂f⊙ª∆@æçç∕∫μ
“~”£fi.~°»,,%,”~ÁÛØΠ°•’Æefl 1ÓÌÏ™ÍÁ≥#ÙÇϕ( ) ~ ÷-

(BoldItalic)

abcdefghijklmnopqrstuvxyzáéóúàèòùçâ 12345
ABCDEFHGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÂ 67890
{}[]()<>\$\*-+/\_%^@&|~?'",.~:;!
,,i“ŋç[]|≠ì'«Σ€ø†Ω”∕øπ •±â,∂f⊙ª∆@æçç∕∫μ
“~”£fi.~°»,,%,”~ÁÛØΠ°•’Æefl 1ÓÌÏ™ÍÁ≥#ÙÇϕ( ) ~ ÷-

(Bold)

abcdefghijklmnopqrstuvxyzáéóúàèòùçâ 12345
ABCDEFHGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÂ 67890
{}[]()<>\$\*-+/\_%^@&|~?'",.~:;!
,,i“ŋç[]|≠ì'«Σ€ø†Ω”∕øπ •±â,∂f⊙ª∆@æçç∕∫μ
“~”£fi.~°»,,%,”~ÁÛØΠ°•’Æefl 1ÓÌÏ™ÍÁ≥#ÙÇϕ( ) ~ ÷-

3.5 JuliaMono ExtraBold

abcdefghijklmnopqrstuvxyzáéóúàèòùçâ 12345
ABCDEFHGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÂ 67890
{}[]()<>\$\*-+/\_%^@&|~?'",.~:;!
,,i“ŋç[]|≠ì'«Σ€ø†Ω”∕øπ •±â,∂f⊙ª∆@æçç∕∫μ
“~”£fi.~°»,,%,”~ÁÛØΠ°•’Æefl 1ÓÌÏ™ÍÁ≥#ÙÇϕ( ) ~ ÷-

(Italic)

abcdefghijklmnopqrstuvxyzáéóúàèòùçâ 12345
ABCDEFHGHIJKLMNOPQRSTUVWXYZÁÉÓÚÀÈÒÙÇÂ 67890
{}[]()<>\$\*-+/\_%^@&|~?'",.~:;!
,,i“ŋç[]|≠ì'«Σ€ø†Ω”∕øπ •±â,∂f⊙ª∆@æçç∕∫μ
“~”£fi.~°»,,%,”~ÁÛØΠ°•’Æefl 1ÓÌÏ™ÍÁ≥#ÙÇϕ( ) ~ ÷-

**(BoldItalic)**

**abcdefghijklmnopqrstuvwxyzáéóúàèòùçà 12345**

**ABCDEFGHIJKLMNPOQRSTUVWXYZÁÉÓÚÀÈÒÚÇÀ 67890**

**{}[ ] (<>\$\*-+=/\_% ^@&|~?' "' ,. ; : !**

**„ i “ŋç [ ] | ≠ ÷ ' « Σ € ⊕ † Ω ′ ′ / ø π • ± á , ∂ f ⊙ ∂ ∂ Δ @ œ æ ç √ ∫ μ**

**“ - ” £ f i . - ° » , % „ ~ Á Ú Ø Π ° † ‡ £ € f l ι ó ï ï ′ ′ Á ≥ † Ú ç ϕ ( ) ˇ ¸ † -**



The vertical rule shows that the complete tabular is set in the typewriter font.

Ancient Greek	Ἄδμηθ', ὁρᾶς γὰρ τὰμὰ πράγμαθ' ὡς ἔχει, λέξαι θέλω σοι πρὶν θανεῖν ἃ βούλομαι.
Armenian	ԻՄ օղաթիռը լի է օձաձկերով
Bulgarian	Я, пазачът Вальо уж бди, а скришом хапва кюфтенца зад щайгите.
Catalan	«Dóna amor que seràs feliç!». Això, il·lús company geniüt, ja és un lluït rètol blavís d'onze kWh.
Czech	Zvlášť zákeřný učeň s ěolíčky běží podél zóny úľ
Danish	Quizdeltagerne spiste jordbær med fløde, mens cirkusklovnen Walther spillede på xylofon.
English	Sphinx of black quartz, judge my vow.
Estonian	Põdur Zagrebi tšellomängija-fõljetonist Ciqo küľmetas kehvas garaažis
Finnish	Charles Darwin jammaili Åken hevixylofonilla Qatarin yöpüb Zeligissä.
French	Voix ambiguë d'un cœur qui au zéphyr préfère les jattes de kiwi.
Georgian	ბნწაფი ყავიხვერნი მელა ახტება ზაწმაც ძაღლს.
German	Victor jagt zwölf Boxkämpfer quer über den großen Sylter Deich.
Greek	Ταχίστη αλώπηξ βαφής ψημένη γη, δρασκελίζει υπέρ νωθρού κυνός.
Guarani	Hĩlandiagua kuñanguéra oho peteĩ sa'yju ypa'ũme Gavõme ombo'e hağ ua ingyleñe'ẽ mitanguérare ne'ëndy'ỹ.
Hungarian	Jó foxim és don Quijote húszwattos lámpánál űlve egy pár búvõs cipõt készít.
IPA	[ɣʷʌʔ.nas.do:ŋ.kʰl̥ja] [ŋan.n̥ʒi wo.ç̥i uẽn.ɣwa]
Icelandic	Kæmi ný öxi hér, ykist þjófum nú bæði víl og ádrepa.
Irish	Ćuaig bé mórsác le dlútspád fíorfinn trí hata mo dea-þorcáin bíg.
Latvian	Muļķa hipiji mēģina brīvi nogaršot celofāna žņaudzēģjūsku.
Lithuanian	Įlinkdama fechtuotojo špaga sublykčiojusi pragręžė arvalų arbūžą.
Macedonian	Сидарски пејзаж: шугав билмез со чудење мвака кофте и кел на туѓ цех.
Norwegian	Jeg begynte å fortære en sandwich mens jeg kjørte taxi på vei til quiz
Polish	Pchnąc w tę łódź jeża lub ośm skrzyń fig.
Portuguese	Luís argüia à Júlia que «brações, fé, chá, óxido, pôr, zângão» eram palavras do português.
Romanian	Înjurând pițigăiat, zoofobul comandă vexat whisky și tequila.
Russian	Широкая электрификация южных губерний даст мощный толчок подъёму сельского хозяйства.
Scottish	Mus d'fhàg Cèit-Ùna ròp Ì le ob.
Serbian	Aјшо, лепото и чењо, за љубав срца мога дођи у Хаџиће на кафу.
Spanish	Benjamín pidió una bebida de kiwi y fresa; Noé, sin vergüenza, la más champaña del menú.
Swedish	Flygande bäckasiner söka hwila på mjuka tuvor.

Turkish Pijamalı hasta yağız şoföre çabucak güvendi.  
 Ukrainian Чуеш їх, доцю, га? Кумедна ж ти, прощайся без гольфів!

## 4 Contextual and stylistic alternates (»ligatures«)

### 4.1 Ligatures

The ligatures with a double dash are only possible, if the  $\TeX$  ligatures are disabled, which is done by the package by default.

<i>In</i>	<i>Out</i>
->	→
=>	⇒
>	▷
<	◁
::	∴
<-	←
->	→
<->	↔

There are two commands to set and unset this behaviour. With `\JuliaUnsetCalt` the ligatures are reset to the ones from  $\TeX$ :

-> → => - ( $\TeX$ -active)	1 <code>\ttfamily \JuliaUnsetCalt</code>
→ → ⇒ --- ( $\TeX$ -inactive)	2 <code>-&gt; --&gt; =&gt; --- (\TeX-active)</code>
	3
	4 <code>\JuliaSetCalt</code>
	5 <code>-&gt; --&gt; =&gt; --- (\TeX-inactive)</code>

### 4.2 Stylistic Alternatives

#### 4.2.1 Slashed Zero

By default the zero has a slash instead of a dot:

0 0

It can be reset to the dot with the package option `zero=false` or inside the document with

```
\addfontfeature{RawFeature=-zero}
```

#### 4.2.2 Stylistic Sets

It can be set by the two macros `\Lss{number}{text}` and `\LSS<number>`. The first one has an argument which will be set locally with the given number and the second one works like a switch. It is global to the current group.

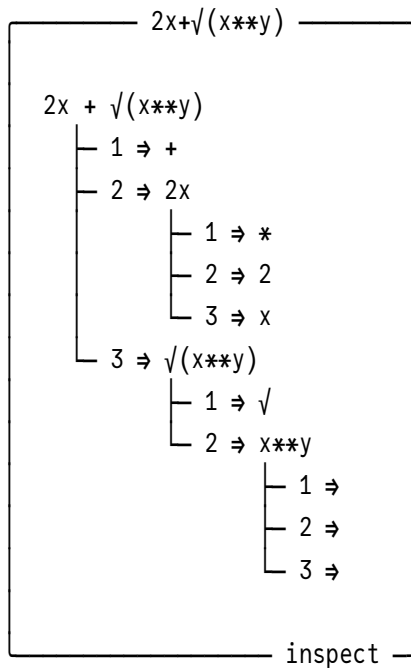
<i>no</i>	<i>Default</i>	<i>Alt</i>	
01	g	g	not for italic
02	@	@	
03	Jj	Jj	
04	0	0	
05	*	*	lighter asterisk
06	a	a	not for italic
07	`	`	smaller grave
08	->	→	distinct ligatures
09	f	f	
10	r	r	
11	`	`	thinner grave
12	====	====	joining equals
13	<!--	<!--	HTML comment
14	==	==	double equals
15	<i>ABC...</i>	<i>ABC...</i>	Math Script Roundhand
16	()[]{}	()[]{}	smaller parentheses etc.
17	⋮	⋮	quadrants replace Braille dots
18	<i>ABC...</i>	<i>ABC...</i>	Ball-point pen math script
20	(-)	(-)	splashtidy

### 4.2.3 Character Variations

It can be set by the two macros `\Lcv{number}{text}` and `\LCV<number>`. The first one has an argument which will be set locally with the given number and the second one works like a switch. It is global to the current group.

<i>no</i>	<i>Default</i>	<i>Var</i>	
01	3	3	
02	7	7	
03	~	~	alternate ASCII tilde
04	l	l	alternate l

# 5 Examples



$\frac{1}{4} \frac{1}{2} \frac{3}{4} \frac{1}{7} \frac{1}{9} \frac{1}{10} \frac{1}{3} \frac{2}{3} \frac{1}{5} \frac{2}{5} \frac{3}{5} \frac{4}{5} \frac{1}{6} \frac{5}{6} \frac{1}{8} \frac{3}{8} \frac{5}{8} \frac{7}{8} \frac{1}{\cdot} \frac{0}{3}$

A B D E F G I J K L M O S T U V W X Y C H N P Q R Z

$\pi \Upsilon \Gamma \Pi \Sigma$  D d e i j a b c d e f g h i j k l m n o p

q r s t u v w x y z 0 1 2 3 4 5 6 7 8 9

↳ ◂ ◃ ◅ ◆ ◇ ◈ ◉ ◊ ◌ ◍ ◎ ● ◐ ◑ ◒ ◓ ◔ ◕ ◖ ◗ ◘ ◙ ◚ ◛ ◜ ◝ ◞ ◟ ◠ ◡ ◢ ◣ ◤ ◥ ◦ ◧ ◨ ◩ ◪ ◫ ◬ ◭ ◮ ◯ ◰ ◱ ◲ ◳ ◴ ◵ ◶ ◷ ◸ ◹ ◺ ◻ ◼ ◽ ◾ ◿ ◰ ◱ ◲ ◳ ◴ ◵ ◶ ◷ ◸ ◹ ◺ ◻ ◼ ◽ ◾ ◿

⊠ ⊡ ⊢ ⊣ ⊤ ⊥ ⊦ ⊧ ⊨ ⊩ ⊪ ⊫ ⊬ ⊭ ⊮ ⊯ ⊰ ⊱ ⊲ ⊳ ⊴ ⊵ ⊶ ⊷ ⊸ ⊹ ⊺ ⊻ ⊼ ⊽ ⊾ ⊿

X Y Z

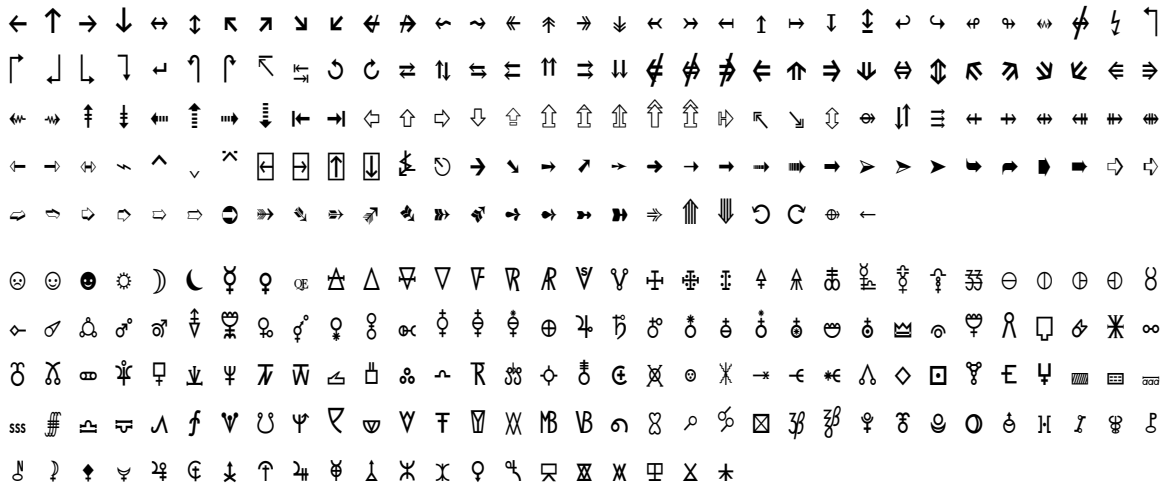
a b c d f h i j k l m n p q r s t u v w x y z A B C D E F G H I J K L M N O P Q R S T U V W

X y Z

Braille

⠠ ⠡ ⠢ ⠣ ⠤ ⠥ ⠦ ⠧ ⠨ ⠩ ⠪ ⠫ ⠬ ⠭ ⠮ ⠯ ⠰ ⠱ ⠲ ⠳ ⠴ ⠵ ⠶ ⠷ ⠸ ⠹ ⠺ ⠻ ⠼ ⠽ ⠾ ⠿ ⠁ ⠂ ⠃ ⠄ ⠅ ⠆ ⠇ ⠈ ⠉ ⠊ ⠋ ⠌ ⠍ ⠎ ⠏ ⠑ ⠒ ⠓ ⠔ ⠕ ⠖ ⠗ ⠘ ⠙ ⠚ ⠛ ⠜ ⠝ ⠞ ⠟ ⠠ ⠡ ⠢ ⠣ ⠤ ⠥ ⠦ ⠧ ⠨ ⠩ ⠪ ⠫ ⠬ ⠭ ⠮ ⠯ ⠰ ⠱ ⠲ ⠳ ⠴ ⠵ ⠶ ⠷ ⠸ ⠹ ⠺ ⠻ ⠼ ⠽ ⠾ ⠿ ⠁ ⠂ ⠃ ⠄ ⠅ ⠆ ⠇ ⠈ ⠉ ⠊ ⠋ ⠌ ⠍ ⠎ ⠏ ⠑ ⠒ ⠓ ⠔ ⠕ ⠖ ⠗ ⠘ ⠙ ⠚ ⠛ ⠜ ⠝ ⠞ ⠟ ⠠ ⠡ ⠢ ⠣ ⠤ ⠥ ⠦ ⠧ ⠨ ⠩ ⠪ ⠫ ⠬ ⠭ ⠮ ⠯ ⠰ ⠱ ⠲ ⠳ ⠴ ⠵ ⠶ ⠷ ⠸ ⠹ ⠺ ⠻ ⠼ ⠽ ⠾ ⠿ ⠁ ⠂ ⠃ ⠄ ⠅ ⠆ ⠇ ⠈ ⠉ ⠊ ⠋ ⠌ ⠍ ⠎ ⠏ ⠑ ⠒ ⠓ ⠔ ⠕ ⠖ ⠗ ⠘ ⠙ ⠚ ⠛ ⠜ ⠝ ⠞ ⠟

⠠ ⠡ ⠢ ⠣ ⠤ ⠥ ⠦ ⠧ ⠨ ⠩ ⠪ ⠫ ⠬ ⠭ ⠮ ⠯ ⠰ ⠱ ⠲ ⠳ ⠴ ⠵ ⠶ ⠷ ⠸ ⠹ ⠺ ⠻ ⠼ ⠽ ⠾ ⠿ ⠁ ⠂ ⠃ ⠄ ⠅ ⠆ ⠇ ⠈ ⠉ ⠊ ⠋ ⠌ ⠍ ⠎ ⠏ ⠑ ⠒ ⠓ ⠔ ⠕ ⠖ ⠗ ⠘ ⠙ ⠚ ⠛ ⠜ ⠝ ⠞ ⠟ ⠠ ⠡ ⠢ ⠣ ⠤ ⠥ ⠦ ⠧ ⠨ ⠩ ⠪ ⠫ ⠬ ⠭ ⠮ ⠯ ⠰ ⠱ ⠲ ⠳ ⠴ ⠵ ⠶ ⠷ ⠸ ⠹ ⠺ ⠻ ⠼ ⠽ ⠾ ⠿ ⠁ ⠂ ⠃ ⠄ ⠅ ⠆ ⠇ ⠈ ⠉ ⠊ ⠋ ⠌ ⠍ ⠎ ⠏ ⠑ ⠒ ⠓ ⠔ ⠕ ⠖ ⠗ ⠘ ⠙ ⠚ ⠛ ⠜ ⠝ ⠞ ⠟



## References

- [1] Cormullion. *JuliaMono – a monospaced font for scientific and technical computing*. Sept. 17, 2025. URL: <https://juliamono.netlify.app> (visited on 10/29/2025).

## 6 The font list of JuliaMono

Table 4: JuliaMono-Regular

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
<b>Basic Latin</b>																
U+0000-000F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U+0020-002F		!	"	#	\$	%	&	'	(	)	*	+	,	-	.	/
U+0030-003F	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
U+0040-004F	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
U+0050-005F	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_
U+0060-006F	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
U+0070-007F	p	q	r	s	t	u	v	w	x	y	z	{		}	~	





Table 4: JuliaMono-Regular *cont.*

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
U+0360-036F	~	˘		˘												
				a	e	i	o	u	c	d	h	m	x	t	v	x
			—													
<b>Greek and Coptic</b>																
U+0370-037F	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ
U+0380-038F	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ
U+0390-039F	Ɔ	A	B	Г	Δ	E	Z	H	Θ	I	K	Λ	M	N	Ξ	O
U+03A0-03AF	Π	Ρ	—	Σ	Τ	Υ	Φ	Χ	Ψ	Ω	Ϊ	Ϋ	ά	έ	ή	ί
U+03B0-03BF	Ϝ	α	β	γ	δ	ε	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο
U+03C0-03CF	π	ρ	ς	σ	τ	υ	φ	χ	ψ	ω	ϊ	ϋ	ό	ύ	ώ	ϙ
U+03D0-03DF	Ϡ	ϡ	Ϣ	ϣ	Ϥ	ϥ	Ϧ	ϧ	Ϩ	ϩ	Ϫ	ϫ	Ϭ	ϭ	Ϯ	ϯ
U+03E0-03EF	ϰ	ϱ	ϲ	ϳ	ϴ	ϵ	϶	Ϸ	ϸ	Ϲ	Ϻ	ϻ	ϼ	Ͻ	Ͼ	Ͽ
U+03F0-03FF	Ϡ	ϡ	Ϣ	ϣ	Ϥ	ϥ	Ϧ	ϧ	Ϩ	ϩ	Ϫ	ϫ	Ϭ	ϭ	Ϯ	ϯ
<b>Cyrillic</b>																
U+0400-040F	È	Ë	Ĥ	Í	Є	Ѕ	І	Ї	Ј	Љ	Њ	Ћ	Ќ	Ў	Ѕ	Ї
U+0410-041F	А	Б	В	Г	Д	Е	Ж	З	И	Й	К	Л	М	Н	О	П
U+0420-042F	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я
U+0430-043F	а	б	в	г	д	е	ж	з	и	й	к	л	м	н	о	п
U+0440-044F	р	с	т	у	ф	х	ц	ч	ш	щ	ъ	ы	ь	э	ю	я
U+0450-045F	è	ë	ĥ	í	є	ѕ	і	ї	ј	љ	њ	ќ	ќ	ў	ѕ	ї
U+0460-046F	ω	ω	Ѡ	ѡ	Ѣ	ѣ	Ѥ	ѥ	Ѧ	ѧ	Ѩ	ѩ	Ѫ	ѫ	Ѭ	ѭ
U+0470-047F	Ψ	ψ	Ϡ	ϡ	Ϣ	ϣ	Ϥ	ϥ	Ϧ	ϧ	Ϩ	ϩ	Ϫ	ϫ	Ϭ	ϭ
U+0480-048F	Ϯ	ϯ	ϰ	ϱ	ϲ	ϳ	ϴ	ϵ	϶	Ϸ	ϸ	Ϲ	Ϻ	ϻ	ϼ	Ͻ
U+0490-049F	Г	г	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ
U+04A0-04AF	К	к	Н	н	П	п	Q	q	С	с	Т	т	У	у		
U+04B0-04BF	У	у	Х	х	Ц	ц	Ч	ч	Ч	ч	h	h	ё	е	ё	е
U+04C0-04CF	І	Ж	ж	К	к	Л	л	Н	н	Н	н	Ч	ч	М	м	І
U+04D0-04DF	Ă	ă	Ä	ä	Æ	æ	Ë	ë	Ə	ə	Ë	ë	Ë	ë	Ë	ë





Table 4: JuliaMono-Regular *cont.*

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
U+0650-065F	˘	˙	˚	˛	˜	˝	˝	˝	˝	˝	˝	˝	˝	˝	˝	˝
U+0660-066F	•		ʀ	ʁ	ε	ō	l	v	λ	q	%	,	'	*	u	ϣ
U+0670-067F	'	ı	-	-	-	-	-	-	-	ˆ	-	-	-	-	ϥ	-
U+0680-068F	-	-	-	-	-	ç	-	ʒ	-	-	-	-	-	-	-	-
U+0690-069F	ṛ	ṛ	-	-	-	-	-	ṛ	-	-	-	-	-	-	-	-
U+06A0-06AF	-	ϣ	-	-	ṛ	-	-	-	-	ϣ	-	-	-	-	-	ϣ
U+06B0-06BF	-	-	-	-	-	-	-	-	-	ϣ	ϣ	-	-	-	ϣ	-
U+06C0-06CF	-	o	ó	ö	-	ǧ	-	-	-	-	-	-	ϣ	-	ϣ	-
U+06D0-06DF	-	-	ē	ē	.	o	-	-	-	-	-	-	-	⊞	⊞	-
U+06F0-06FF	•		ʀ	ʁ	ʀ	ϥ	ϥ	v	λ	q	-	-	-	-	-	-
<b>Syriac</b>																
U+0700-070F	⌘	-	-	-	-	-	-	-	-	-	-	-	-	⌘	-	-
<b>NKo</b>																
U+07F0-07FF	-	-	-	-	-	-	-	⌘	-	-	-	-	-	-	-	-
<b>Devanagari</b>																
U+0960-096F	-	-	-	-	-	o	q	ṛ	ṛ	ṛ	ṛ	ṛ	ṛ	ṛ	ṛ	ṛ
<b>Bengali</b>																
U+09E0-09EF	-	-	-	-	-	o	ṛ	ṛ	ṛ	ṛ	ṛ	ṛ	ṛ	ṛ	ṛ	ṛ
<b>Tamil</b>																
U+0B80-0B8F	-	-	-	◌	-	-	-	-	-	-	-	-	-	-	-	-
<b>Thai</b>																
U+0E30-0E3F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	฿
<b>Tibetan</b>																
U+0FC0-0FCF	-	-	-	-	-	-	-	-	-	-	།	།	།	-	-	-





Table 4: JuliaMono-Regular *cont.*

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
U+16B0-16BF	†	℞	<	ℓ	Ƴ	Ƴ	Ƴ	Ƴ	Ƴ	Ƴ	Ƴ	Ƴ	Ƴ	†	†	†
U+16C0-16CF	†		†	ϳ	ϳ	†	†	†	†	†	†	†	†	†	†	†
U+16D0-16DF	†	†	ℬ	ℱ	ℬ	ℰ	ℰ	†	†	†	†	†	†	†	†	†
U+16E0-16EF	†	†	†	†	†	†	†	†	†	†	†	†	†	†	†	†
U+16F0-16FF	ϕ	ℎ	ℎ	ϕ	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ

**Mongolian**

U+18B0-18BF	▷	◁	◁	◁	▷	◁	◁	◁	◁	◁	◁	◁	◁	◁	◁	◁
U+18C0-18CF	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ
U+18D0-18DF	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ
U+18E0-18EF	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ
U+18F0-18FF	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ	ᠰ

**Buginese**

U+1AB0-1ABF	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘
-------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**Balinese**

U+1C80-1C8F	ᬀ	ᬁ	ᬂ	ᬃ	ᬄ	ᬅ	ᬆ	ᬇ	ᬈ	ᬉ	ᬊ	ᬋ	ᬌ	ᬍ	ᬎ	ᬏ
U+1C90-1C9F	ᬐ	ᬑ	ᬒ	ᬓ	ᬔ	ᬕ	ᬖ	ᬗ	ᬘ	ᬙ	ᬚ	ᬛ	ᬜ	ᬝ	ᬞ	ᬟ
U+1CA0-1CAF	ᬠ	ᬡ	ᬢ	ᬣ	ᬤ	ᬥ	ᬦ	ᬧ	ᬨ	ᬩ	ᬪ	ᬫ	ᬬ	ᬭ	ᬮ	ᬯ
U+1CB0-1CBF	ᬰ	ᬱ	ᬲ	ᬳ	᬴	ᬵ	ᬶ	ᬷ	ᬸ	ᬹ	ᬺ	ᬻ	ᬼ	ᬽ	ᬾ	ᬿ

**Phonetic Extensions**

U+1D00-1D0F	À	Æ	Ǽ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ
U+1D10-1D1F	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ
U+1D20-1D2F	V	W	Z	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ
U+1D30-1D3F	D	E	Ɔ	G	H	I	J	K	L	M	N	O	Ɔ	P	R	
U+1D40-1D4F	T	U	W	a	e	a	æ	b	d	e	ə	ε	z	g	!	k
U+1D50-1D5F	m	η	o	ɔ	˘	˘	p	t	u	ɔ	ɯ	v	ɛ	β	γ	δ
U+1D60-1D6F	φ	χ	i	r	u	v	β	γ	ρ	φ	χ	œ	ʔ	ɖ	ɗ	ɸ

Table 4: JuliaMono-Regular *cont.*

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
U+1D70-1D7F	Ɔ	ɀ	Ɂ	ɂ	Ƀ	Ʉ	Ʌ	Ɇ	ɇ	Ɉ	ɉ	Ɋ	ɋ	Ɍ	ɍ	Ɏ

**Phonetic Extensions Supplement**

U+1D80-1D8F	ɏ	ɐ	ɑ	ɓ	ɔ	ɕ	ɖ	ɗ	ɘ	ə	ɚ	ɛ	ɜ	ɝ	ɞ	ɟ
U+1D90-1D9F	ɠ	ɡ	ɢ	ɣ	ɤ	ɥ	ɦ	ɧ	ɨ	ɩ	ɪ	ɫ	ɬ	ɭ	ɮ	ɯ
U+1DA0-1DAF	ɰ	ɱ	ɲ	ɳ	ɴ	ɵ	ɶ	ɷ	ɸ	ɹ	ɺ	ɻ	ɼ	ɽ	ɾ	ɿ
U+1DB0-1DBF	ɿ	ʀ	ʁ	ʂ	ʃ	ʄ	ʅ	ʆ	ʇ	ʈ	ʉ	ʊ	ʋ	ʌ	ʍ	ʎ

**Combining Diacritical Marks Supplement**

U+1DC0-1DCF	◌̆	◌̇	◌̈	◌̉	◌̊	◌̋	◌̌	◌̍	◌̎	◌̏	◌̐	◌̑	◌̒	◌̓	◌̔	◌̕
U+1DD0-1DDF	◌̖	◌̗	◌̘	◌̙	◌̚	◌̛	◌̜	◌̝	◌̞	◌̟	◌̠	◌̡	◌̢	◌̣	◌̤	◌̥
U+1DE0-1DEF	◌̦	◌̧	◌̨	◌̩	◌̪	◌̫	◌̬	◌̭	◌̮	◌̯	◌̰	◌̱	◌̲	◌̳	◌̴	◌̵
U+1DF0-1DFF	◌̶	◌̷	◌̸	◌̹	◌̺	◌̻	◌̼	◌̽	◌̾	◌̿	◌̿	◌̿	◌̿	◌̿	◌̿	◌̿

**Latin Extended Additional**

U+1E00-1E0F	À	á	Â	â	Ã	ã	Ä	ä	Å	å	Ç	ç	Ð	ð	Ď	ď
U+1E10-1E1F	Ď	ď	Ě	ě	Ë	ë	Ě	ě	Ě	ě	Ě	ě	Ë	ë	Ě	ě
U+1E20-1E2F	Ĝ	ĝ	Ĥ	ĥ	Ħ	ħ	Ĩ	h̄	Ĥ	ĥ	Ĥ	ĥ	Ĭ	ĭ	Í	í
U+1E30-1E3F	Ķ	ķ	Ķ	ķ	Ķ	ķ	Ķ	ķ	Ķ	ķ	Ķ	ķ	Ķ	ķ	Ķ	ķ
U+1E40-1E4F	Ĭ	ĭ	Ĭ	ĭ	Ĭ	ĭ	Ĭ	ĭ	Ĭ	ĭ	Ĭ	ĭ	Ĭ	ĭ	Ĭ	ĭ
U+1E50-1E5F	Ï	ï	Ï	ï	Ĵ	ĵ	Ĵ	ĵ	Ŕ	ŕ	Ŕ	ŕ	Ŕ	ŕ	Ŕ	ŕ
U+1E60-1E6F	Š	š	Š	š	Š	š	Š	š	Š	š	Š	š	Š	š	Š	š
U+1E70-1E7F	Ť	ť	Ů	ů	Ů	ů	Ů	ů	Ů	ů	Ů	ů	Ů	ů	Ů	ů
U+1E80-1E8F	Ű	ű	Ű	ű	Ű	ű	Ű	ű	Ű	ű	Ű	ű	Ű	ű	Ű	ű
U+1E90-1E9F	Ž	ž	Ž	ž	Ž	ž	Ž	ž	Ž	ž	Ž	ž	Ž	ž	Ž	ž
U+1EA0-1EAF	À	á	Â	â	Á	á	À	à	À	à	Ã	ã	Â	â	Á	á
U+1EB0-1EBF	À	à	À	à	À	à	À	à	È	è	È	è	È	è	È	è



Table 4: JuliaMono-Regular *cont.*

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
U+2040-204F	^	^	^	^	^	[	]	??	?!	!?	⌈	⌋	◻	◻	*	;
U+2050-205F	˘	*	/	~	˘	*	:	'''	⋄	⋄	:	⋄	#	:	:	:
U+2060-206F						-							-	-		

### Superscripts and Subscripts

U+2070-207F	0	i	-	-	4	5	6	7	8	9	+	-	=	(	)	n
U+2080-208F	0	1	2	3	4	5	6	7	8	9	+	-	=	(	)	-
U+2090-209F	a	e	o	x	e	h	k	l	m	n	p	s	t	-	-	-

### Currency Symbols

U+20A0-20AF	₣	₧	₡	₢	₣	₤	₥	₦	₧	₨	₩	₪	₫	€	₭	₮
U+20B0-20BF	₯	₰	₱	₲	₳	₴	₵	₶	₷	₸	₹	₺	₻	₼	₽	₾

### Combining Diacritical Marks for Symbols

U+20D0-20DF	◀	▶			↔	↔	↔	↔	○	◊	◊	⋯	⋯	○	◻	◊
U+20E0-20EF	⊙	↔	◻	◻	△	\		∟	...	↔	←	//	↔	↔	←	→
U+20F0-20FF	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

### Letterlike Symbols

U+2100-210F	‰	‱	℄	℅	℆	ℇ	℈	℉	ℊ	ℋ	ℌ	ℍ	ℎ	ℏ		
U+2110-211F	ℐ	ℑ	ℒ	ℓ	℔	ℕ	ℕ°	ℙ	ℚ	ℒ	ℝ	ℝ	ℝ	ℝ		
U+2120-212F	SM	TEL	TM	℥	ℷ	ℸ	ℹ	℺	℻	ℼ	ℽ	ℾ	ℿ	Ⓢ	Ⓣ	Ⓤ
U+2130-213F	ℰ	ℱ	ℱ	ℳ	ℴ	ℵ	ℶ	ℷ	ℸ	ℹ	℺	℻	ℼ	ℽ	ℿ	ℿ
U+2140-214F	∑	∂	∇	∏	∏	∏	∏	∏	∏	∏	∏	∏	∏	∏	∏	∏

### Number Forms

U+2150-215F	1/7	1/9	1/10	1/3	2/3	1/5	2/5	3/5	4/5	1/6	5/6	1/8	3/8	5/8	7/8	1/
U+2160-216F	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	L	C	D	M
U+2170-217F	i	ii	iii	iv	v	vi	vii	viii	ix	x	xi	xii	L	C	D	M





Table 4: JuliaMono-Regular *cont.*

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
<b>Miscellaneous Technical</b>																
U+2300 - 230F	∅	↵	⏏	^	∨	↗	↖	}	⌈	⌋	⌌	⌍	⌎	⌏	⌐	⌑
U+2310 - 231F	⌒	⌓	⌔	⌕	⌖	⌗	⌘	⌙	⌚	⌛	⌜	⌝	⌞	⌟	⌠	⌡
U+2320 - 232F	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫
U+2330 - 233F	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫
U+2340 - 234F	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫
U+2350 - 235F	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫
U+2360 - 236F	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫
U+2370 - 237F	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫
U+2380 - 238F	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫
U+2390 - 239F	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫
U+23A0 - 23AF	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫
U+23B0 - 23BF	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫
U+23C0 - 23CF	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫
U+23D0 - 23DF	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫
U+23E0 - 23EF	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫
U+23F0 - 23FF	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫
<b>Control Pictures</b>																
U+2400 - 240F	N <sub>UL</sub>	S <sub>OH</sub>	S <sub>TX</sub>	E <sub>TX</sub>	E <sub>OT</sub>	E <sub>NO</sub>	A <sub>CK</sub>	B <sub>EL</sub>	B <sub>S</sub>	H <sub>T</sub>	L <sub>F</sub>	V <sub>T</sub>	F <sub>F</sub>	C <sub>R</sub>	S <sub>O</sub>	S <sub>I</sub>
U+2410 - 241F	D <sub>LE</sub>	D <sub>C1</sub>	D <sub>C2</sub>	D <sub>C3</sub>	D <sub>C4</sub>	N <sub>AK</sub>	S <sub>YN</sub>	E <sub>TB</sub>	C <sub>AN</sub>	E <sub>M</sub>	S <sub>UB</sub>	E <sub>SC</sub>	F <sub>S</sub>	G <sub>S</sub>	R <sub>S</sub>	U <sub>S</sub>
U+2420 - 242F	S <sub>P</sub>	D <sub>EL</sub>	b	⏏	N <sub>L</sub>	≡	?	⊞	⊞	⊞	-	-	-	-	-	-
<b>Optical Character Recognition</b>																
U+2440 - 244F	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏
<b>Enclosed Alphanumerics</b>																
U+2460 - 246F	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯

Table 4: JuliaMono-Regular *cont.*

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
U+2470 - 247F	Ⓐ	Ⓑ	Ⓒ	Ⓓ	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
U+2480 - 248F	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	1.	2.	3.	4.	5.	6.	7.	8.
U+2490 - 249F	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	(a)	(b)	(c)	(d)
U+24A0 - 24AF	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)
U+24B0 - 24BF	(u)	(v)	(w)	(x)	(y)	(z)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	Ⓖ	Ⓗ	Ⓘ	Ⓢ
U+24C0 - 24CF	Ⓚ	Ⓛ	Ⓜ	Ⓝ	Ⓞ	Ⓟ	Ⓠ	Ⓡ	Ⓢ	Ⓣ	Ⓤ	Ⓥ	Ⓦ	Ⓧ	Ⓨ	Ⓩ
U+24D0 - 24DF	ⓐ	ⓑ	ⓒ	ⓓ	ⓔ	ⓕ	ⓖ	ⓗ	ⓘ	ⓙ	ⓚ	ⓛ	ⓜ	ⓝ	ⓞ	ⓟ
U+24E0 - 24EF	ⓠ	ⓡ	ⓢ	ⓣ	ⓤ	ⓥ	ⓦ	ⓧ	ⓨ	ⓩ	⓪	⓫	⓬	⓭	⓮	⓯
U+24F0 - 24FF	⓰	⓱	⓲	⓳	⓴	⓵	⓶	⓷	⓸	⓹	⓺	⓻	⓼	⓽	⓿	⓫

**Box Drawing**

U+2500 - 250F	┌	┐	└	┘	├	┤	┼	┴	┵	┶	┷	┸	┹	┺	┻	┼
U+2510 - 251F	┌	┐	└	┘	├	┤	┼	┴	┵	┶	┷	┸	┹	┺	┻	┼
U+2520 - 252F	┌	┐	└	┘	├	┤	┼	┴	┵	┶	┷	┸	┹	┺	┻	┼
U+2530 - 253F	┌	┐	└	┘	├	┤	┼	┴	┵	┶	┷	┸	┹	┺	┻	┼
U+2540 - 254F	┌	┐	└	┘	├	┤	┼	┴	┵	┶	┷	┸	┹	┺	┻	┼
U+2550 - 255F	┌	┐	└	┘	├	┤	┼	┴	┵	┶	┷	┸	┹	┺	┻	┼
U+2560 - 256F	┌	┐	└	┘	├	┤	┼	┴	┵	┶	┷	┸	┹	┺	┻	┼
U+2570 - 257F	┌	┐	└	┘	├	┤	┼	┴	┵	┶	┷	┸	┹	┺	┻	┼

**Block Elements**

U+2580 - 258F	■	▬	▭	▮	▯	▰	▱	▲	△	▴	▵	▶	▷	▸	▹	►
U+2590 - 259F	▻	▼	▽	▾	▿	◀	◁	◂	◃	◄	◅	◆	◇	◈	◉	◊

**Geometric Shapes**

U+25A0 - 25AF	■	□	◻	◼	▧	▨	▩	▪	▫	▬	▭	▮	▯	▰	▱	▲
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Table 4: JuliaMono-Regular *cont.*

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
U+2740-274F	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
U+2750-275F	☼	☼	☼	?	?	!	❖	!				◌	◌	“	”	,
U+2760-276F	“	”	!	!	♥	♣	♣	(	)	(	)	(	)	<	>	
U+2770-277F	(	)	{	}	{	}	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
U+2780-278F	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	①	②	③	④	⑤	⑥
U+2790-279F	⑦	⑧	⑨	⑩	➔	+	-	÷	↘	➔	↗	➔	➔	➔	➔	➔
U+27A0-27AF	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔
U+27B0-27BF	↻	↻	↻	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔	➔

### Miscellaneous Mathematical Symbols-A

U+27C0-27CF	∠	△	⊥	⊙	⊚	∫	∫	∇	∞	∞	†	/	)	\	∇	∇
U+27D0-27DF	◇	△	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
U+27E0-27EF	◇	◇	◇	◇	□	□	⌈	⌋	<	>	《	》	⌈	⌋	[	]

### Supplemental Arrows-A

U+27F0-27FF	↕	↕	↻	↻	⊕	←	→	↔	⇐	⇒	⇔	⇐	⇒	⇔	⇐	⇒
-------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

### Braille Patterns

U+2800-280F	⠠	⠡	⠢	⠣	⠤	⠥	⠦	⠧	⠨	⠩	⠪	⠫	⠬	⠭	⠮	⠯
U+2810-281F	⠰	⠱	⠲	⠳	⠴	⠵	⠶	⠷	⠸	⠹	⠺	⠻	⠼	⠽	⠾	⠿
U+2820-282F	⠠	⠡	⠢	⠣	⠤	⠥	⠦	⠧	⠨	⠩	⠪	⠫	⠬	⠭	⠮	⠯
U+2830-283F	⠰	⠱	⠲	⠳	⠴	⠵	⠶	⠷	⠸	⠹	⠺	⠻	⠼	⠽	⠾	⠿
U+2840-284F	⠠	⠡	⠢	⠣	⠤	⠥	⠦	⠧	⠨	⠩	⠪	⠫	⠬	⠭	⠮	⠯
U+2850-285F	⠰	⠱	⠲	⠳	⠴	⠵	⠶	⠷	⠸	⠹	⠺	⠻	⠼	⠽	⠾	⠿
U+2860-286F	⠠	⠡	⠢	⠣	⠤	⠥	⠦	⠧	⠨	⠩	⠪	⠫	⠬	⠭	⠮	⠯
U+2870-287F	⠰	⠱	⠲	⠳	⠴	⠵	⠶	⠷	⠸	⠹	⠺	⠻	⠼	⠽	⠾	⠿
U+2880-288F	⠠	⠡	⠢	⠣	⠤	⠥	⠦	⠧	⠨	⠩	⠪	⠫	⠬	⠭	⠮	⠯
U+2890-289F	⠰	⠱	⠲	⠳	⠴	⠵	⠶	⠷	⠸	⠹	⠺	⠻	⠼	⠽	⠾	⠿
U+28A0-28AF	⠠	⠡	⠢	⠣	⠤	⠥	⠦	⠧	⠨	⠩	⠪	⠫	⠬	⠭	⠮	⠯









Table 4: JuliaMono-Regular *cont.*

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
<b>Supplemental Punctuation</b>																
U+2E00 - 2E0F	␣	␤	␥	␦	␧	␨	␩	␪	␫	␬	␭	␮	␯	␰	␱	␲
U+2E10 - 2E1F	␳	␴	␵	␶	␷	␸	␹	␺	␻	␼	␽	␾	␿	Ⓚ	Ⓛ	Ⓜ
U+2E20 - 2E2F	Ⓝ	Ⓞ	Ⓟ	Ⓠ	Ⓡ	Ⓢ	Ⓣ	Ⓤ	Ⓥ	Ⓦ	Ⓧ	Ⓨ	Ⓩ	ⓐ	ⓑ	ⓓ
U+2E30 - 2E3F	ⓔ	ⓕ	ⓖ	ⓗ	ⓘ	ⓙ	ⓚ	ⓛ	ⓜ	ⓝ	ⓞ	ⓟ	ⓠ	ⓡ	ⓢ	ⓣ
U+2E40 - 2E4F	ⓤ	ⓥ	ⓦ	ⓧ	ⓨ	ⓩ	⓪	⓫	⓬	⓭	⓮	⓯	⓰	⓱	⓲	⓳
U+2E50 - 2E5F	⓴	⓵	⓶	⓷	⓸	⓹	⓺	⓻	⓼	⓽	⓾	⓿	Ⓚ	Ⓛ	Ⓜ	Ⓨ
<b>Enclosed CJK Letters and Months</b>																
U+3240 - 324F	-	-	-	-	-	-	-	-	㊀	㊁	㊂	㊃	㊄	㊅	㊆	㊇
U+3250 - 325F	㊈	㊉	㊊	㊋	㊌	㊍	㊎	㊏	㊑	㊒	㊓	㊔	㊕	㊖	㊗	㊘
U+32B0 - 32BF	-	㊙	㊚	㊛	㊜	㊝	㊞	㊟	㊠	㊡	㊢	㊣	㊤	㊥	㊦	㊧
<b>CJK Compatibility</b>																
U+3370 - 337F	-	hPa	da	AU	bar	oV	pc	dm	dm <sup>2</sup>	dm <sup>3</sup>	-	-	-	-	-	-
U+3380 - 338F	pA	nA	μA	mA	KA	KB	MB	GB	cal	kcal	pF	nF	μF	μg	mg	kg
U+3390 - 339F	Hz	KHz	MHz	GHz	THz	μl	ml	dl	kl	fm	nm	μm	mm	cm	km	m <sup>2</sup>
U+33A0 - 33AF	cm <sup>2</sup>	m <sup>2</sup>	km <sup>2</sup>	mm <sup>3</sup>	cm <sup>3</sup>	m <sup>3</sup>	km <sup>3</sup>	my	m <sup>2</sup> /s	Pa	kPa	MPa	GPa	rad	rad/s	rad/s <sup>2</sup>
U+33B0 - 33BF	ps	ns	μs	ms	pV	nV	μV	mV	kV	MV	pW	nW	μW	mW	kW	MW
U+33C0 - 33CF	kΩ	MΩ	am	Bq	cc	cd	C <sub>Kg</sub>	CO	dB	Gy	ha	HP	ln	KK	KM	kt
U+33D0 - 33DF	lm	ln	log	LX	mb	ml	mol	pH	pm	ppm	PR	sr	Sv	Wb	-	-
<b>Yijing Hexagram Symbols</b>																
U+4DC0 - 4DCF	☰	☷	☱	☲	☵	☶	☳	☴	☱	☲	☵	☶	☳	☱	☲	☵
U+4DD0 - 4DDF	☰	☷	☱	☲	☵	☶	☳	☴	☱	☲	☵	☶	☳	☱	☲	☵
U+4DE0 - 4DEF	☰	☷	☱	☲	☵	☶	☳	☴	☱	☲	☵	☶	☳	☱	☲	☵
U+4DF0 - 4DFE	☰	☷	☱	☲	☵	☶	☳	☴	☱	☲	☵	☶	☳	☱	☲	☵



Table 4: JuliaMono-Regular *cont.*

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
U+A7D0-A7DF	Ɔ	ɔ	Ɔ	ɔ	Ɔ	ɔ	Ɔ	ɔ	Ɔ	ɔ	Ɔ	ɔ	Ɔ	ɔ	-	-
U+A7F0-A7FF	-	s	c	F	Q	Ɔ	ɔ	H	#	œ	W	Ɔ	ɔ	W	I	W

### Rejang

U+A950-A95F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ꞗ
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### Cham

U+AA50-AA5F	-	-	-	-	-	-	-	-	-	-	-	-	Ⓢ	-	-	-
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### LatinExtended-E

U+AB30-AB3F	Ɔ	æ	r	e	e	f	g	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ
U+AB40-AB4F	œ	æ	œ	ω	ϕ	ʀ	ʀ	ʀ	ʀ	ʀ	ʀ	ʀ	ʀ	ʀ	ʀ	ʀ
U+AB50-AB5F	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ
U+AB60-AB6F	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ



### Private Use Area

U+E0A0-E0AF	Ɔ	Ɔ	Ɔ	Ɔ	-	-	-	-	-	-	-	-	-	-	-	-
U+E0B0-E0BF	▶	>	◀	<	◐	)	◑	(	◓	\	◔	/	◕	/	◖	\
U+E230-E23F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	🏠
U+E250-E25F	-	-	-	-	-	-	🔥	-	-	-	-	-	-	-	-	-
U+E270-E27F	-	-	-	-	-	💧	-	-	-	-	-	-	-	-	-	-
U+E600-E60F	-	-	-	-	-	-	🔗	-	🏠	📺	-	js	-	<	-	-
U+E610-E61F	-	🍏	☰	■	#	*	-	-	-	-	-	-	©	©	-	-
U+E620-E62F	-	-	-	-	⋯	-	👤	-	🏠	📺	✉	-	-	-	-	-
U+E700-E70F	-	-	-	-	-	-	-	-	🔄	-	-	-	-	-	-	-
U+E710-E71F	-	🍏	🐧	-	-	-	-	-	-	-	-	-	-	-	-	-
U+E720-E72F	-	-	-	-	-	🔗	🔗	🔗	🔗	🔗	-	-	-	-	-	-





Table 4: JuliaMono-Regular *cont.*

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
<b>Specials ...</b>																
U+FFF0-FFFF	-	-	-	-	-	-	-	-	-	-					-	-

Total number of glyphs shown from JuliaMono-Regular: 7469