

Package ‘easylabel’

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Type Package

Title Interactive Scatter Plot and Volcano Plot Labels

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BugReports <https://github.com/myles-lewis/easylabel/issues>

URL <https://github.com/myles-lewis/easylabel>

Description Interactive labelling of scatter plots, volcano plots and Manhattan plots using a 'shiny' and 'plotly' interface. Users can hover over points to see where specific points are located and click points on/off to easily label them. Labels can be dragged around the plot to place them optimally. Plots can be exported directly to PDF for publication. For plots with large numbers of points, points can optionally be rasterized as a bitmap, while all other elements (axes, text, labels & lines) are preserved as vector objects. This can dramatically reduce file size for plots with millions of points such as Manhattan plots, and is ideal for publication.

Language en-gb

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Encoding UTF-8

LazyData true

Imports DT, ggplot2, gtools, memoise, plotly (>= 4.10.0), RColorBrewer, rlang, shiny, shinycssloaders, shinybusy

Suggests AnnotationDbi, knitr, magick, org.Hs.eg.db, qvalue, rmarkdown

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NeedsCompilation no

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add_labels	<i>Add labels to a plotly scatter plot</i>
------------	--

Description

Adds labels to a plotly 2d or 3d scatter plot. The labels can be dragged.

Usage

```
add_labels(p, labs, plotGIPixelRatio = 8)
```

Arguments

p	A plotly scatter plot object
labs	Character vector of labels to match
plotGIPixelRatio	Integer passed to plotly.js config which controls pixel resolution of webGl rendering. Larger values increase resolution of points as well as file size.

Details

Labels are identified by searching the rownames of the embedded marker data within the plotly object. The plotly mode bar camera icon is set to export to svg by default.

Value

A plotly plot with added labels

Examples

```
library(plotly)
data(mtcars)

p <- plot_ly(mtcars, x = ~mpg, y = ~wt, color = ~cyl,
             type = 'scatter', mode = 'markers')
p %>% add_labels(c("Mazda RX4", "Fiat 128"))
```

arial

Change plotly font to Arial

Description

Change plotly font to Arial

Usage

```
arial(p, size = 14)
```

Arguments

p	A plotly object
size	Font size

Value

A plotly object

Examples

```
library(plotly)
data(mtcars)

p <- plot_ly(mtcars, x = ~mpg, y = ~wt, color = ~cyl,
             type = 'scatter', mode = 'markers')
p %>% arial
p %>% arial(18)
```

easylabel

Interactive scatter plot labels

Description

Interactive labelling of scatter plots using shiny/plotly interface.

Usage

```
easylabel(  
  data,  
  x,  
  y,  
  labs = NULL,  
  startLabels = NULL,  
  start_xy = NULL,  
  cex.text = 0.72,  
  col = NULL,  
  colScheme = NULL,  
  alpha = 1,  
  shape = NULL,  
  shapeScheme = 21,  
  size = 8,  
  sizeRange = c(4, 80),  
  xlab = x,  
  ylab = y,  
  xlim = NULL,  
  ylim = NULL,  
  xticks = NULL,  
  yticks = NULL,  
  showOutliers = TRUE,  
  outlier_shape = 5,  
  outline_col = "white",  
  outline_lwd = 0.5,  
  plotly_filter = NULL,  
  width = 800,  
  height = 600,  
  showgrid = FALSE,  
  zeroline = TRUE,  
  hline = NULL,  
  vline = NULL,  
  mgp = c(1.8, 0.5, 0),  
  Ltitle = "",  
  Rtitle = "",  
  LRtitle_side = 1,  
  labelDir = "radial",  
  labCentre = NULL,
```

```

    lineLength = 75,
    text_col = "black",
    line_col = "black",
    rectangles = FALSE,
    rect_col = "white",
    border_col = "black",
    padding = 3,
    border_radius = 5,
    showLegend = TRUE,
    legendxy = c(1.02, 1),
    filename = NULL,
    panel.last = NULL,
    fullGeneNames = FALSE,
    AnnotationDb = NULL,
    custom_annotation = NULL,
    output_shiny = TRUE,
    ...
)

```

Arguments

<code>data</code>	Dataset (data.frame or data.table) to use for plot.
<code>x</code>	Specifies column of x coordinates in data.
<code>y</code>	Specifies column of y coordinates in data.
<code>labs</code>	Specifies the column in data with label names for points. Label names do not have to be unique. If NULL defaults to <code>rownames(data)</code> .
<code>startLabels</code>	Vector of initial labels. With a character vector, labels are identified in the column specified by <code>labs</code> . With a numeric vector, points to be labelled are referred to by row number.
<code>start_xy</code>	List containing label annotation starting coordinates. Invoked by <code>loadlabel()</code> .
<code>cex.text</code>	Font size for labels. Default 0.72 to match plotly font size. See <code>text()</code> .
<code>col</code>	Specifies which column in data affects point colour. Must be categorical. If it is not a factor, it will be coerced to a factor.
<code>colScheme</code>	A single colour or a vector of colours for points.
<code>alpha</code>	Alpha value for transparency of points.
<code>shape</code>	Specifies which column in data controls point shapes. If not a factor, will be coerced to a factor.
<code>shapeScheme</code>	A single symbol for points or a vector of symbols. See <code>pch</code> in <code>points()</code> .
<code>size</code>	Either a single value for size of points (default 8), or specifies which column in data affects point size for bubble charts.
<code>sizeRange</code>	Range of size of points for bubble charts.
<code>xlab</code>	x axis title. Accepts expressions when exporting base graphics. Set <code>cex.lab</code> to alter the font size of the axis titles (default 1). Set <code>cex.axis</code> to alter the font size of the axis numbering (default 1).

<code>ylab</code>	y axis title. Accepts expressions when exporting base graphics.
<code>xlim</code>	The x limits (x1, x2) of the plot.
<code>ylim</code>	The y limits of the plot.
<code>xticks</code>	List of custom x axis ticks and labels specified as a list of two named vectors at <code>= ...</code> and <code>labels = ...</code> . Another method is to use <code>xaxp</code> as a vector of the form <code>c(x1, x2, n)</code> giving the coordinates of the extreme tick marks and the number of intervals between tick-marks.
<code>yticks</code>	List of custom y axis ticks and labels specified as a list of two named vectors at <code>= ...</code> and <code>labels = ...</code> . Another method is to use <code>yaxp</code> as a vector of the form <code>c(y1, y2, n)</code> giving the coordinates of the extreme tick marks and the number of intervals between tick-marks.
<code>showOutliers</code>	Logical whether to show outliers on the margins of the plot.
<code>outlier_shape</code>	Symbol for outliers.
<code>outline_col</code>	Colour of symbol outlines. Set to NA for no outlines.
<code>outline_lwd</code>	Line width of symbol outlines.
<code>plotly_filter</code>	Refers to a column of logical values in data used to filter rows to reduce the number of points shown by plotly. We recommend using this for datasets with >100,000 rows. When saving to pdf, the full original dataset is still plotted. This is useful for plots with millions of points such as Manhattan plots where a subset of points to be labelled is already known.
<code>width</code>	Width of the plot in pixels. Saving to pdf scales 100 pixels to 1 inch.
<code>height</code>	Height of the plot in pixels.
<code>showgrid</code>	Either logical whether to show gridlines, or a character value where "x" means showing x axis gridlines and "y" means showing y axis gridlines.
<code>zeroline</code>	Logical whether to show lines at $x = 0$ and $y = 0$.
<code>hline</code>	Adds horizontal lines at values of y.
<code>vline</code>	Adds vertical lines at values of x.
<code>mgp</code>	The margin line for the axis title, axis labels and axis line. See <code>par()</code> .
<code>Ltitle</code>	A character or expression (see <code>plotmath</code>) value specifying text for left side title. Size of font can be changed using <code>cex.lab</code> .
<code>Rtitle</code>	A character or expression value specifying text for right side title. Size of font can be changed using <code>cex.lab</code> .
<code>LRtitle_side</code>	On which side of the plot for <code>Ltitle</code> and <code>Rtitle</code> (1 = bottom, 3 = top). See <code>mtext()</code> .
<code>labelDir</code>	Initial label line directions. Options include 'radial' (default) for radial lines around the centre of the plot, 'origin' for radial lines around the origin, 'horiz' for horizontal and 'vert' for vertical, 'xellipse' and 'yellipse' for near-horizontal and near-vertical lines arranged in an elliptical way around the centre, 'rect' for rectilinear lines (a mix of horizontal and vertical), 'x' for diagonal lines, 'oct' for lines in 8 directions around the centre.
<code>labCentre</code>	Coordinates in x/y units of the central point towards which radial labels converge. Defaults to the centre of the plot.

lineLength	Initial length of label lines in pixels.
text_col	Colour of label text. If set to "match" label text will match the colour of each point.
line_col	Colour of label lines. If set to "match" label line will match the colour of each point.
rectangles	Logical whether to show rectangles around labels (not supported by plotly).
rect_col	Colour for filling rectangles (not supported by plotly). If set to "match" rectangle fill colour will match the colour of each point.
border_col	Colour of rectangle borders (not supported by plotly). Use border_col = NA to omit borders. If set to "match" rectangle border colour will match the colour of each point.
padding	Amount of padding in pixels around label text.
border_radius	Amount of roundedness in pixels to apply to label rectangles (not supported by plotly).
showLegend	Logical whether to show or hide the legend.
legendxy	Vector of coordinates for the position of the legend. Coordinates are in plotly paper reference with $c(0, 0)$ being the bottom left corner and $c(1, 1)$ being the top right corner of the plot window. Plotly has unusual behaviour in that the x coordinate always aligns the left side of the legend. However, the y coordinate aligns the top, middle or bottom of the legend dependent on whether it is in the top, middle or bottom 1/3 of the plot window. So $c(1, 0)$ positions the legend in the bottom right corner outside the right margin of the plot, while $c(1, 0.5)$ centre aligns the legend around the centre of y axis.
filename	Filename for saving plots to pdf in a browser. Rstudio opens its own pdf file.
panel.last	An expression to be evaluated after plotting has taken place but before the axes, title and box are added. This can be useful for adding extra titles, legends or trend lines. Currently only works when saving plots using base graphics and does not work with plotly. See plot.default
fullGeneNames	Logical whether to expand gene symbols using Bioconductor AnnotationDbi package. With multiple matches, returns first value only. See AnnotationDbi::mapIds() .
AnnotationDb	Annotation database to use when expanding gene symbols. Defaults to human gene database AnnotationDb = org.Hs.eg.db.
custom_annotation	List of annotations to be added via plotly::layout() .
output_shiny	Logical whether to output a shiny app. If FALSE a plotly figure will be returned.
...	Further graphical parameters passed to <code>plot()</code> when saving via base graphics. The most useful for most users are likely to be <code>cex.lab</code> which alters axis title font size (default 1, see par()), <code>cex.axis</code> which alters axis numbering font size (default 1), and <code>panel.last</code> which allows additional plotting functions to be called after the main plot has been plotted but before the labels and label lines are drawn, which will allow the addition of trend lines, extra titles or legends for example (see plot.default()).

Details

Instructions:

- Hover over and click on/off genes which you want to label.
- When you have selected all your chosen genes, then drag gene names to move label positions.
- Click the save button to export a PDF or other file types (SVG, jpeg, tiff, png) produced in base graphics. Files are saved to the browser downloads folder by default.
- The Table tab shows a table view of the dataset to help with annotation.

The 'raster points' checkbox converts only the points to a raster which is embedded in pdf or svg exports, while the rest of the plot (axis/label lines/text etc) remain vectorised. This only applies when saving pdf or svg. For other file types the whole plot is rasterized as normal by base graphics.

For efficiency, the raster of the points is cached using the memoise package. So if users change the labels or change from pdf to svg, the export is much faster. If the resolution is changed the points will need to be re-rasterized.

In the shiny interface the "Save state" button saves an rds file containing the label positions and state of the plot as an 'easylab' S3 class object to the current working directory. This can be reloaded in future sessions using [loadlabel\(\)](#).

Value

By default no return value. If `output_shiny = FALSE` or the shiny button 'Export plotly & exit' is pressed, a plotly figure is returned.

See Also

[easyVolcano\(\)](#), [easyMAplot\(\)](#), [easyManhattan\(\)](#), [loadlabel\(\)](#)

Examples

```
# Simple example using mtcars dataset
data(mtcars)
# Launch easylabel Shiny app: only run this example in interactive R sessions
if (interactive()) {
  easylabel(mtcars, x = 'mpg', y = 'wt', col = 'cyl')
}
```

easyManhattan

Interactive Manhattan plot labels

Description

Interactive labelling of Manhattan plots using 'shiny' and 'plotly' interface.

Usage

```

easyManhattan(
  data,
  chrom = "chrom",
  pos = "pos",
  p = "p",
  labs = "rsid",
  startLabels = NULL,
  pcutoff = 5e-08,
  chromGap = NULL,
  chromCols = c("royalblue", "skyblue"),
  sigCol = "red",
  alpha = 0.7,
  labelDir = "horiz",
  xlab = "Chromosome position",
  ylab = expression("-log"[10] ~ "P"),
  xlim = NULL,
  ylim = NULL,
  outline_col = NA,
  shapeScheme = 16,
  size = 6,
  width = ifelse(transpose, 600, 1000),
  height = ifelse(transpose, 800, 600),
  lineLength = 60,
  npoints = max(c(nrow(data)/5, 1e+06)),
  nplotly = 1e+05,
  npeaks = NULL,
  span = 2e+07,
  transpose = FALSE,
  filename = NULL,
  ...
)

```

Arguments

<code>data</code>	The dataset (data.frame or data.table) for the plot.
<code>chrom</code>	The column of chromosome values in data.
<code>pos</code>	The column of SNP positions in data.
<code>p</code>	The column of p values in data.
<code>labs</code>	The column of labels in data.
<code>startLabels</code>	Vector of initial labels. With a character vector, labels are identified in the column specified by <code>labs</code> . With a numeric vector, points to be labelled are referred to by row number.
<code>pcutoff</code>	Cut-off for p value significance. Defaults to 5E-08.
<code>chromGap</code>	Size of gap between chromosomes along the x axis in base pairs. If NULL this is automatically calculated dependent on the size of the genome. Default is around 3E07 for a human genome, and smaller for smaller genomes.

chromCols	A vector of colours for points by chromosome. Colours are recycled dependent on the length of the vector.
sigCol	Colour for statistically significant points. Ignored if set to NA.
alpha	Transparency for points.
labelDir	Option for label lines. See easylabel() .
xlab	x axis title. Accepts expressions.
ylab	y axis title. Accepts expressions.
xlim	The x limits (x1, x2) of the plot.
ylim	The y limits of the plot.
outline_col	Colour of symbol outlines. Passed to easylabel() .
shapeScheme	A single symbol for points or a vector of symbols. Passed to easylabel() .
size	Specifies point size. Passed to easylabel() .
width	Width of the plot in pixels. Saving to pdf scales 100 pixels to 1 inch.
height	Height of the plot in pixels.
lineLength	Initial length of label lines in pixels.
npoints	Maximum number of points to plot when saving the final plot to pdf. By default plots with >1 million points are thinned to speed up plotting. Setting a value of NA will plot all points.
nplotly	Maximum number of points to display via plotly. We recommend the default setting of 100,000 points (or fewer).
npeaks	Number of peaks to label initially.
span	a peak is defined as the most significant SNP within a window of width span centred at that SNP.
transpose	Logical whether to transpose the plot.
filename	Filename for saving to pdf.
...	Other arguments passed to easylabel() .

Value

By default no return value. If `output_shiny = FALSE` or the shiny button 'Export plotly & exit' is pressed, a plotly figure is returned. See [easylabel\(\)](#).

See Also

[easylabel\(\)](#) [easyVolcano\(\)](#)

Description

Interactive labelling of MA plots using shiny/plotly interface.

Usage

```
easyMAplot(  
  data,  
  x = NULL,  
  y = NULL,  
  padj = NULL,  
  fdrcutoff = 0.05,  
  colScheme = c("darkgrey", "blue", "red"),  
  hline = 0,  
  labelDir = "yellipse",  
  xlab = expression("log"[2] ~ " mean expression"),  
  ylab = expression("log"[2] ~ " fold change"),  
  filename = NULL,  
  showCounts = TRUE,  
  useQ = FALSE,  
  ...  
)
```

Arguments

<code>data</code>	The dataset for the plot. Automatically attempts to recognise DESeq2 and limma objects.
<code>x</code>	Name of the column containing mean expression. For DESeq2 and limma objects this is automatically set.
<code>y</code>	Name of the column containing log fold change. For DESeq2 and limma objects this is automatically set.
<code>padj</code>	Name of the column containing adjusted p values (optional). For DESeq2 and limma objects this is automatically set. If <code>y</code> is specified and <code>padj</code> is left blank or equal to <code>y</code> , nominal unadjusted p values are used for cut-off for significance.
<code>fdrcutoff</code>	Cut-off for FDR significance. Defaults to FDR < 0.05. Can be vector with multiple cut-offs. To use nominal P values instead of adjusted p values, set <code>y</code> but leave <code>padj</code> blank.
<code>colScheme</code>	Colour colScheme. Length must match either <code>length(fdrcutoff) + 1</code> to allow for non-significant genes, or <code>length(fdrcutoff) * 2 + 1</code> to accommodate asymmetric colour colSchemes for positive & negative fold change. (see examples).
<code>hline</code>	Vector of horizontal lines (default is <code>y = 0</code>).

labelDir	Option for label lines. See easylabel() .
xlab	x axis title. Accepts expressions.
ylab	y axis title. Accepts expressions.
filename	Filename for saving to pdf.
showCounts	Logical whether to show legend with number of differentially expressed genes.
useQ	Logical whether to convert nominal P values to q values. Requires the qvalue Bioconductor package.
...	Other arguments passed to easylabel() .

Value

By default no return value. If `output_shiny = FALSE` or the shiny button 'Export plotly & exit' is pressed, a plotly figure is returned. See [easylabel\(\)](#).

See Also

[easylabel\(\)](#) [easyVolcano\(\)](#)

easyVolcano	<i>Interactive volcano plot labels</i>
-------------	--

Description

Interactive labelling of volcano plots using shiny/plotly interface.

Usage

```
easyVolcano(
  data,
  x = NULL,
  y = NULL,
  padj = y,
  fdrcutoff = 0.05,
  fccut = NULL,
  colScheme = c("darkgrey", "blue", "red"),
  xlab = expression("log"[2] ~ " fold change"),
  ylab = expression("-log"[10] ~ " P"),
  filename = NULL,
  showCounts = TRUE,
  useQ = FALSE,
  ...
)
```

Arguments

data	The dataset for the plot. Automatically attempts to recognise DESeq2 and limma objects.
x	Name of the column containing log fold change. For DESeq2 and limma objects this is automatically set.
y	Name of the column containing p values. For DESeq2 and limma objects this is automatically set.
padj	Name of the column containing adjusted p values (optional). If y is specified and padj is left blank or equal to y, nominal unadjusted p values are used for cut-off for significance instead of adjusted p values.
fdr cutoff	Cut-off for FDR significance. Defaults to FDR < 0.05. If y is specified manually and padj is left blank then this refers to the cut-off for significant points using nominal unadjusted p values.
fccut	Optional vector of log fold change cut-offs.
colScheme	Colour scheme. If no fold change cut-off is set, 2 colours need to be specified. With a single fold change cut-off, 3 or 5 colours are required, depending on whether the colours are symmetrical about x = 0. Accommodates asymmetric colour schemes with multiple fold change cut-offs (see examples).
xlab	x axis title. Accepts expressions.
ylab	y axis title. Accepts expressions.
filename	Filename for saving to pdf.
showCounts	Logical whether to show legend with number of differentially expressed genes.
useQ	Logical whether to convert nominal P values to q values. Requires the qvalue Bioconductor package.
...	Other arguments passed to easylabel() .

Value

By default no return value. If `output_shiny = FALSE` or the shiny button 'Export plotly & exit' is pressed, a plotly figure is returned. See [easylabel\(\)](#).

See Also

[easylabel\(\)](#) [easyMPlot\(\)](#)

 gg_qqplot

Log QQ p-value plot (ggplot2)

Description

Produces a QQ plot via ggplot2. Requires a dataframe generated by [qqplot\(\)](#).

Usage

```
gg_qqplot(df, scheme = c("darkgrey", "royalblue"))
```

Arguments

df	A dataframe generated by qqplot()
scheme	Vector of 2 colours for plotting non-significant and significant SNPs

Value

A ggplot2 graphics plot object

loadlabel	<i>Load easylab saved state</i>
-----------	---------------------------------

Description

Loads a file or easylab object containing saved state with specified labels and their positions.

Usage

```
loadlabel(object, data = NULL, ...)
```

Arguments

object	Either a character value specifying an rds file to be loaded, or an object of class 'easylab'.
data	Dataset (data.frame or data.table) to use for plot. If not specified, the function will first use embedded data included in object; if no data is embedded it will attempt to load the original data object as it was specified in the original call to easylab() .
...	Additional arguments passed to easylab() . Can be used to overwrite original arguments.

Value

By default no return value. Calls [easylab\(\)](#) which will open a shiny interactive session based on previous settings stored in an 'easylab' class object or rds file of such an object.

qqplot

Log QQ p-value plot

Description

Fast function for generating a log quantile-quantile (QQ) p-value plot

Usage

```
qqplot(
  pval,
  fdr = NULL,
  fdr_cutoff = 0.05,
  scheme = c("darkgrey", "royalblue"),
  npoints = 5e+05,
  show_plot = TRUE,
  verbose = TRUE,
  ...
)
```

Arguments

pval	A vector of p-values
fdr	An optional vector of FDR values to save time if previously computed. If not supplied, these will be calculated using <code>p.adjust()</code> using the Benjamini-Hochberg method.
fdr_cutoff	Cutoff for FDR significance
scheme	Vector of 2 colours for plotting non-significant and significant SNPs
npoints	Limits the number of non-significant points being plotted to speed up plotting. See details. Set to <code>NULL</code> to plot all points.
show_plot	Logical whether to produce a plot via base graphics or just return dataframe ready for plotting.
verbose	Whether to show messages
...	Optional plotting arguments passed to <code>qqplot2()</code>

Details

Produces a fast QQ plot. Particularly useful for analyses with very large numbers of p-values (such as eQTL analysis) which can be slow to plot. The function looks first for all comparisons which reached FDR at the designated cut-off and ensures all of these points are plotted. Additional points which typically overlap substantially near the origin are thinned by random sampling. In this way the plot can be reduced from millions of points to 500,000 points with a plot which is indistinguishable from one with all points plotted. For comparison, set `npoints` to `NULL` to plot all points as usual.

Calling `qqplot()` will result in a base graphics plot. The plotting dataframe is returned invisibly, so users can save time when refining plots by saving the dataframe produced by `qqplot()` and then invoking `qqplot2()` to simply plot the points. Users who prefer ggplot2 can also pass the dataframe generated by `qqplot()` to `gg_qqplot()`.

Value

Generates a plot using base graphics. Also returns a dataframe invisibly which can be used for downstream plotting via either `qqplot2()` or `gg_qqplot()`.

See Also

`qqplot2()` `gg_qqplot()`

qqplot2	<i>Log QQ p-value plot (2nd stage)</i>
---------	--

Description

Second stage plotting function which accepts dataframe generated by `qqplot()`. This can be used to avoid repeating computation of the QQ plot values.

Usage

```
qqplot2(df, scheme = c("darkgrey", "royalblue"), ...)
```

Arguments

<code>df</code>	A dataframe generated by <code>qqplot()</code>
<code>scheme</code>	Vector of 2 colours for plotting non-significant and significant SNPs
<code>...</code>	Optional plotting arguments passed to <code>plot()</code>

Value

No return value. Produces a base graphics plot.

summary.easylab	<i>Summarise easylab saved state object</i>
-----------------	---

Description

Prints summary information on an easylab saved state object.

Usage

```
## S3 method for class 'easylab'  
summary(object, ...)
```

Arguments

object	Object of class 'easylab'
...	Optional arguments for compatibility

Value

No return value. Prints information on the original easylab call and saved labels.

volc1	<i>Example volcano data for vignette</i>
-------	--

Description

Example DESeq2 volcano data for vignette

Usage

```
volc1
```

Format

Data frame with 6 rows and 6 variables

`volc2`*Example volcano data for vignette*

Description

Example limma volcano data for vignette

Usage

```
volc2
```

Format

Data frame with 6 rows and 6 variables

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