

Package ‘tableExtra’

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Title Draws An Awesome Table

Version 1.0.0

Description Draws an awesome table.

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Encoding UTF-8

LazyData true

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Suggests testthat,
dplyr,
forcats,
tibble

Depends R (>= 3.5.0)

Imports gtable,
grid

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gtable_legend	<i>Build a grob containing a legend.</i>
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Description

Build a grob with a legend inside.

Usage

```

gtable_legend(
  d,
  labels,
  widths,
  heights,
  fg_fun,
  fg_params,
  bg_fun = NULL,
  bg_params = NULL,
  title_x = NULL,
  title_y = NULL,
  title_label = "Title",
  title_gp = gpar(fontsize = 10),
  labels_pad = -1,
  labels_gp = gpar(fontsize = 6),
  padding = 0.3,
  size_unit = "mm",
  name = "legend",
  vp = NULL,
  orientation = "horizontal",
  ...
)

```

Arguments

<code>d</code>	data.frame or matrix
<code>widths</code>	optional unit.list specifying the grob widths
<code>heights</code>	optional unit.list specifying the grob heights
<code>fg_fun</code>	grob-drawing function
<code>fg_params</code>	named list of params passed to <code>fg_fun</code>
<code>bg_fun</code>	grob-drawing function
<code>bg_params</code>	named list of params passed to <code>bg_fun</code>
<code>title_x</code>	unit specifying the x position of the title
<code>title_y</code>	unit specifying the x position of the title
<code>title_label</code>	character vector
<code>padding</code>	numeric vector specifying the padding between adjacent cells.
<code>size_unit</code>	character vector defining the unit used for sizes. See <code>grid::unit</code> for all possible specifications.
<code>name</code>	optional name of the grob
<code>vp</code>	optional viewport
<code>...</code>	additional parameters passed to <code>add_table_params</code> .

Value

A gtable.

Author(s)

Yoann Pradat

gtable_rbind	<i>rbind two or more gtables</i>
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Description

rbind two or more gtables
 cbind two or more gtables

Usage

```
gtable_rbind(..., size = "max", height = NULL, z = NULL)

gtable_cbind(..., size = "max", width = NULL, z = NULL)
```

Arguments

...	gtables
size	how should the widths be calculated? <ol style="list-style-type: none"> 1. max maximum of all widths 2. min minimum of all widths 3. first widths/heights of first gtable 4. last widths/heights of last gtable
height	padding height between grobs
z	optional z level
width	padding width between grobs

table_extra_grob	<i>Graphical display of a table with circles of varying scales and colours. The code is inspired by the tableGrob function gridExtra</i>
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Description

Create a gtable containing circle grobs representing a numeric matrix.

Usage

```
table_extra_grob(
  dscale,
  dcolor = NULL,
  dscale_min = NULL,
  dscale_max = NULL,
  rows = rownames(dscale),
  cols = colnames(dscale),
  rows_more = NULL,
  cols_more = NULL,
  theme = ttheme_awesome(),
  vp = NULL
)
```

Arguments

dscale	a matrix
dcolor	(optional) a matrix
dscale_min	value for setting the minimum scale size of foreground grobs. Entries in the dscale matrix below dscale_min will have a scale of 0 (no grob).
dscale_max	value for setting the maximum scale size of foreground grobs. Entries in the dscale matrix above dscale_max will have a scale of 0 (no grob).
rows	(optional) a character vector
cols	(optional) a character vector
rows_more	(optional) a named list of additional columns (right-part) of the plot for describing the rows. The list names will be used as column headers.
cols_more	(optional) a named list of additional rows (top-part) of the plot for describing the columns. The list names will be used as row headers.
theme	list of theme parameters
vp	optional viewport

Value

An R object of class grob

Author(s)

Yoann Pradat

See Also

[ttheme_awesome\(\)](#)

Examples

```
library(tableExtra)
```

tableExtra

tableExtra: A package for awesome tables

Description

'tableExtra' provides a function to draw a table with grobs of varying size and colors to represent two different types of information about multiple variables in multiple samples. The package was originally developed to reproduce Figure 3 of Alexandrov, L.B., Kim, J., Haradhvala, N.J. et al. The repertoire of mutational signatures in human cancer. Nature 578, 94–101 (2020). <https://doi.org/10.1038/s41586-020-1943-3>

Author(s)

Yoann Pradat

ttheme_awesome	<i>Define theme for awesome table plot.</i>
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Description

Define theme for awesome table plot.

Usage

```
ttheme_awesome(
  base_size = 8,
  base_colour = "black",
  base_family = "",
  core_size = 10,
  scale_breaks = 10,
  scale_ratio = 0.25,
  color_palette = "black",
  color_breaks = NULL,
  rep_mode = "col",
  parse = FALSE,
  size_unit = "mm",
  padding = c(0.3, 0.3),
  ...
)
```

Arguments

base_size	default font size
base_colour	default font colour
base_family	default font family
core_size	cell size for core background grobs
scale_breaks	number of size categories for core foreground grobs or numeric vector of bin breaks
scale_ratio	ratio of minimum to maximum core foreground grobs sizes
color_palette	color palette for core foreground grobs
color_breaks	bin breaks for color palette for core foreground grobs
rep_mode	'col' or 'row'. Used when recycling fg_params or bg_params to make a matrix of params.
parse	logical, default behaviour for parsing text as plotmath
size_unit	character vector defining the unit used for sizes. See <code>grid::unit</code> for all possible specifications.
padding	length-2 vector specifying the horizontal and vertical padding of text within each cell
...	extra parameters added to the theme list

Author(s)

Yoann Pradat

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