Package 'circlesplot'

February 20, 2024

Type Package

Title Visualize Proportions with Circles in a Plot

Version 1.1.0

Description Method for visualizing proportions between objects of different sizes.
The proportions are drawn as circles with different diameters, which makes them ideal
for visualizing proportions between planets.

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Imports plotrix

Suggests knitr, rmarkdown, testthat (>= 3.0.0), viridis

URL https://github.com/BenSt099/circlesplot,

https://benst099.github.io/circlesplot/

BugReports https://github.com/BenSt099/circlesplot/issues

Encoding UTF-8

RoxygenNote 7.3.1

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VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

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R topics documented:

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circlesplot   *circlesplot(): Plots multiple circles with their given ratios*

Description

'circlesplot()' plots circles with a given diameter next to each other, so readers can observe the ratio between them.

Usage

```
circlesplot(
  cp_vals = NULL,
  cp_text = NULL,
  cp_max = 10L,
  cp_line_width = 2L,
  cp_title = "",
  cp_color = NULL,
  cp_title_size = 1.5,
  cp_sort = "none",
  cp_tight_spacing = 1,
  cp_shape = "circle"
)
```

Arguments

cp_vals	Vector (numeric); provides data
cp_text	Vector (characters); provides text-labels
cp_max	Maximum number of circles in a row (integer)
cp_line_width	Line-width of the circles (integer)
cp_title	Title of the plot (String)
cp_color	Vector of hex-colors for each circle
cp_title_size	Size of the title (numeric or integer)
cp_sort	String; specifies if values should be sorted ('asc', 'desc'; default: 'none')
cp_tight_spacing	
	Number (numeric); specifies spacing between rows (default: 1.0, possible: 1.0 - 2.0; 2.0 smallest distance)
cp_shape	String; specifies the shape (default: 'circle'; possible: 'square')

Value

Returns object of class 'recordedPlot'. Can be used for saving the plot to a variable and replay it again (See https://benst099.github.io/circlesplot/articles/cp_vignette.html).

Examples

```
library('plotrix')
colors = c('#D1BBD7', '#AE76A3', '#882E72', '#1965B0', '#5289C7', '#7BAFDE', '#4EB265', '#90C987')
values = c(5,5,4,5,5,5,2,1)
text = c('8','7','6','5','4','3','2','1')
circlesplot(cp_vals=values, cp_text=text, cp_max=3L, cp_title="Some title", cp_color=colors)


# Proportions among planets
library('plotrix')
colors = c('#D1BBD7', '#AE76A3', '#882E72', '#1965B0', '#5289C7', '#7BAFDE', '#4EB265', '#90C987')
planets = c('Mercury','Venus','Earth','Mars','Jupiter','Saturn','Uranus','Neptune')
diameter = c(4879.4,12103.6,12756.3,6792.4,142984,120536,51118,49528)
circlesplot(cp_vals=diameter, cp_text=planets, cp_max=3L, cp_title="Planets", cp_color=colors)

# For coloring, you can also use viridis package:
library("viridis")
values = c(5,5,4,5,5,5,2,1)
text = c('8','7','6','5','4','3','2','1')
circlesplot(cp_vals=values, cp_text=text, cp_max=4L, cp_title="Some title", cp_color=viridis(8))
```

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