Package: circlesplot (via r-universe)

October 18, 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

Config/testthat/edition 3

VignetteBuilder knitr

Repository https://benst099.r-universe.dev

RemoteUrl https://github.com/benst099/circlesplot

RemoteRef HEAD

RemoteSha 5b3d832d5f41464b59b224a032572f3297731e64

Contents

`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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