

Package ‘scatterpie’

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Title Scatter Pie Plot

Version 0.2.2

Description Creates scatterpie plots, especially useful for plotting pies on a map.

Depends R (>= 4.1.0), ggplot2

Imports ggforce, rlang, ggfun, stats, tidyr, dplyr, utils

Suggests knitr, rmarkdown, prettydoc, maps, scales, cli

VignetteBuilder knitr

License Artistic-2.0

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NeedsCompilation no

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R topics documented:

geom_scatterpie	2
geom_scatterpie_legend	3
recenter	4
Index	5

geom_scatterpie *geom_scatterpie*

Description

scatter pie plot

Usage

```
geom_scatterpie(
  mapping = NULL,
  data,
  cols,
  pie_scale = 1,
  sorted_by_radius = FALSE,
  legend_name = "type",
  long_format = FALSE,
  donut_radius = NULL,
  bg_circle_radius = NULL,
  ...
)
```

Arguments

mapping	aes mapping
data	data
cols	cols the pie data
pie_scale	amount to scale the pie size if there is no radius mapping exists
sorted_by_radius	whether plotting large pie first
legend_name	name of fill legend
long_format	logical whether use long format of input data
donut_radius	numeric the radius of donut chart (relative the radius of circle), default is NULL. it should be between 0 and 1, if it is provided, the donut chart will be displayed instead of pie chart.
bg_circle_radius	numeric the radius of background circle, default is FALSE, we suggest setting it to between 1 and 1.5 .
...	additional parameters

Value

layer

Author(s)

Guangchuang Yu

Examples

```
library(ggplot2)
d <- data.frame(x=rnorm(5), y=rnorm(5))
d$A <- abs(rnorm(5, sd=1))
d$B <- abs(rnorm(5, sd=2))
d$C <- abs(rnorm(5, sd=3))
ggplot() + geom_scatterpie(aes(x=x, y=y), data=d, cols=c("A", "B", "C")) + coord_fixed()
d <- tidyr::gather(d, key="letters", value="value", -x:-y)
ggplot() + geom_scatterpie(aes(x=x, y=y), data=d, cols="letters", long_format=TRUE) + coord_fixed()
p1 <- ggplot() +
  geom_scatterpie(
    mapping = aes(x=x, y=y), data=d, cols="letters",
    long_format=TRUE,
    donut_radius=.5
  ) +
  coord_fixed()
p1
p2 <- ggplot() +
  geom_scatterpie(
    mapping = aes(x=x, y=y), data=d, cols="letters",
    long_format=TRUE,
    donut_radius = .5,
    bg_circle_radius = 1.2
  ) +
  coord_fixed()
p2
```

geom_scatterpie_legend

geom_scatterpie_legend

Description

legend of scatterpie

Usage

```
geom_scatterpie_legend(
  radius,
  x,
  y,
  n = 5,
  breaks = NULL,
  labeller,
  label_position = "right",
```

```
    ...
  )
```

Arguments

radius	radius vector
x	x position
y	y position
n	number of circle
breaks	A character vector of breaks, default is NULL.
labeller	function to label radius
label_position	a character string indicating the position of labels, "right" (default) or "left" or any abbreviation of these
...	other text arguments passed on to <code>ggplot2::layer()</code>

Value

layer

Author(s)

Guangchuang Yu

recenter	<i>recenter</i>
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Description

re-center map data

Usage

```
recenter(mapdata, center, longitude_column = "long")
```

Arguments

mapdata	map data, should be a data.frame
center	center
longitude_column	longitude column

Value

updated map data

Author(s)

ygc

Index

`geom_scatterpie`, 2
`geom_scatterpie_legend`, 3
`ggplot2::layer()`, 4
`recenter`, 4