Package: hexSticker (via r-universe)

November 1, 2024

Title Create Hexagon Sticker in R

Version 0.4.9

Description Helper functions for creating reproducible hexagon sticker purely in R.

Depends R (>= 3.4.0)

Imports ggimage, ggplot2, grDevices, hexbin, showtext, stats, sysfonts,

Suggests magick

License Artistic-2.0

ByteCompile true

URL https://github.com/GuangchuangYu/hexSticker

BugReports https://github.com/GuangchuangYu/hexSticker/issues

Encoding UTF-8

LazyData true

RoxygenNote 7.3.0

Roxygen list(markdown = TRUE)

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

RemoteUrl https://github.com/guangchuangyu/hexsticker

RemoteRef HEAD

RemoteSha 6726ea2e9e78b456c5f10fc7e4235ebdc5599fd8

Contents

`geom_hexagon` *geom_hexagon*

Description

geom layer of hexagon

Usage

```
geom_hexagon(size = 1.2, fill = "#1881C2", color = "#87B13F")
```

Arguments

`size`	size of border
`fill`	color of hexagon
`color`	color of border

Value

hexagon layer

Author(s)

Guangchuang Yu

`geom_pkgname` *geom_pkgname*

Description

add package name to sticker

Usage

```
geom_pkgname(
  package,
  x = 1,
  y = 1.4,
  color = "#FFFFFF",
  family = "Aller_Rg",
  fontface = "plain",
  size = 8,
  ...
)
```

Arguments

package	package name
x	x position
y	y position
color	color
family	font family
fontface	fontface, e.g. 'plain', 'bold', 'italic'
size	font size
...	addition parameters passed to geom_text()

Value

package name layer

Author(s)

Guangchuang Yu

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geom_url *geom_url*

Description

add url at the lower border of the sticker

Usage

```
geom_url(
  url = "www.bioconductor.org",
  x = 1,
  y = 0.08,
  family = "Aller_Rg",
  size = 1.5,
  color = "black",
  angle = 30,
  hjust = 0,
  ...
)
```

Arguments

url	url
x	x position of url
y	y position of url
family	font family
size	size of url
color	color of url
angle	angle of url, default is 30
hjust	horizontal adjustment
...	additional parameters to geom_text

Value

geom layer

Author(s)

Guangchuang Yu

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save_sticker *save_sticker*

Description

save sticker to file

Usage

```
save_sticker(filename, sticker = last_plot(), ...)
```

Arguments

filename	file name
sticker	sticker
...	additional parameters for ggsave

Author(s)

Guangchuang Yu

sticker *sticker*

Description

create sticker in R

Usage

```
sticker(
  subplot,
  s_x = 0.8,
  s_y = 0.75,
  s_width = 0.4,
  s_height = 0.5,
  package,
  p_x = 1,
  p_y = 1.4,
  p_color = "#FFFFFF",
  p_family = "Aller_Rg",
  p_fontface = "plain",
  p_size = 8,
  h_size = 1.2,
  h_fill = "#1881C2",
  h_color = "#87B13F",
  spotlight = FALSE,
  l_x = 1,
  l_y = 0.5,
  l_width = 3,
  l_height = 3,
  l_alpha = 0.4,
  url = "",
  u_x = 1,
  u_y = 0.08,
  u_color = "black",
  u_family = "Aller_Rg",
  u_size = 1.5,
  u_angle = 30,
  white_around_sticker = FALSE,
  ...,
  filename = paste0(package, ".png"),
  asp = 1,
  dpi = 300
)
```

Arguments

subplot subplot

s_x	x position for subplot
s_y	y position for subplot
s_width	width for subplot
s_height	height for subplot
package	package name
p_x	x position for package name
p_y	y position for package name
p_color	color for package name
p_family	font family for package name
p_fontface	fontface for package name
p_size	font size for package name
h_size	size for hexagon border
h_fill	color to fill hexagon
h_color	color for hexagon border
spotlight	whether add spotlight
l_x	x position for spotlight
l_y	y position for spotlight
l_width	width for spotlight
l_height	height for spotlight
l_alpha	maximum alpha for spotlight
url	url at lower border
u_x	x position for url
u_y	y position for url
u_color	color for url
u_family	font family for url
u_size	text size for url
u_angle	angle for url
white_around_sticker	default to FALSE. If set to TRUE, it puts white triangles in the corners
...	additional parameter to geom_pkgname
filename	filename to save sticker
asp	aspect ratio, only works if subplot is an image file
dpi	plot resolution

Details

The extension given in `filename` determines the graphics device that is used to render the sticker, e.g. `filename = 'sticker.png'` creates a png file and `filename = 'sticker.svg'` creates a svg file. For a list of supported graphics devices please see the documentation of `ggplot2::ggsave()`.

Value

gg object

Author(s)

Guangchuang Yu

Examples

```
library(ggplot2)
p <- ggplot(aes(x = mpg, y = wt), data = mtcars) + geom_point()
p <- p + theme_void() + theme_transparent()
outfile <- tempfile(fileext=".png")
sticker(p, package="hexSticker", filename=outfile)
```

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sticker_dev *sticker_dev*

Description

open dev for sticker

Usage

```
sticker_dev()
```

Value

new dev

Author(s)

Guangchuang Yu

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theme_sticker *theme_sticker*

Description

sticker theme

Usage

```
theme_sticker(size = 1.2, ...)
```

Arguments

size	size of hexagon border
...	additional parameters passed to theme()

Value

theme for sticker

Author(s)

Guangchuang Yu

Index