

Package ‘hexSticker’

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Title Create Hexagon Sticker in R

Version 0.4.5

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

Depends R (>= 3.4.0)

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

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ByteCompile true

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

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

Encoding UTF-8

LazyData true

RoxygenNote 6.1.1

NeedsCompilation no

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geom_hexagon	<i>geom_hexagon</i>
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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	<i>geom_pkgname</i>
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Description

add package name to sticker

Usage

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

Arguments

package	package name
x	x position
y	y position
color	color
family	font family
size	font size
...	addition parameters passed to geom_text()

Value

package name layer

Author(s)

guangchuang yu

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

hexagon	<i>hexagon</i>
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Description

empty hexagon

Usage

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

Arguments

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

Value

hexagon

Author(s)

guangchuang yu

save_sticker	<i>save_sticker</i>
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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	<i>sticker</i>
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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_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, filename = paste0(package,
        ".png"), 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_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
filename	filename to save sticker
dpi	plot resolution

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()
sticker(p, package="hexSticker")
```

sticker_dev

sticker_dev

Description

open dev for sticker

Usage

```
sticker_dev()
```

Value

new dev

Author(s)

guangchuang yu

theme_sticker	<i>theme_sticker</i>
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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

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