

Package ‘hexSticker’

May 20, 2019

Title Create Hexagon Sticker in R

Version 0.4.6

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

Depends R (>= 3.4.0)

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

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 6.1.1

NeedsCompilation no

Author Guangchuang Yu [aut, cre],
Laurent Gatto [ctb],
Johannes Rainer [ctb],
Sebastian Gibb [ctb],
Robert Corty [ctb]

Maintainer Guangchuang Yu <guangchuangyu@gmail.com>

Repository CRAN

Date/Publication 2019-05-20 06:40:04 UTC

R topics documented:

geom_hexagon	2
geom_pkgname	2
geom_url	3
save_sticker	4
sticker	4
sticker_dev	6
theme_sticker	6

Index**8**

geom_hexagon	<i>geom_hexagon</i>
--------------	---------------------

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>
--------------	---------------------

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

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_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_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

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``theme_sticker`

Description

sticker theme

Usage`theme_sticker(size = 1.2, ...)`**Arguments**

<code>size</code>	size of hexagon border
<code>...</code>	additional parameters passed to theme()

theme_sticker

7

Value

theme for sticker

Author(s)

guangchuang yu

Index

geom_hexagon, 2
geom_pkgname, 2
geom_url, 3

save_sticker, 4
sticker, 4
sticker_dev, 6

theme_sticker, 6