

# Package ‘hexSticker’

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**Title** Create Hexagon Sticker in R

**Version** 0.4.7

**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** 7.1.0

**NeedsCompilation** no

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**Repository** CRAN

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## R topics documented:

geom_hexagon . . . . .	2
geom_pkgname . . . . .	2

geom_url . . . . .	3
save_sticker . . . . .	4
sticker . . . . .	5
sticker_dev . . . . .	7
theme_sticker . . . . .	7

<b>Index</b>	<b>9</b>
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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

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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

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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	<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

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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,  
  u_angle = 30,  
  white_around_sticker = FALSE,  
  ...,  
  filename = paste0(package, ".png"),  
  asp = 1,  
  dpi = 300  
)
```

## Arguments

subplot          subplot

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

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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



# Index

`geom_hexagon`, 2  
`geom_pkgname`, 2  
`geom_url`, 3  
`ggplot2::ggsave()`, 6  
  
`save_sticker`, 4  
`sticker`, 5  
`sticker_dev`, 7  
  
`theme_sticker`, 7