

Package ‘ggimage’

October 13, 2022

Title Use Image in 'ggplot2'

Version 0.3.1

Description Supports image files and graphic objects to be visualized in 'ggplot2' graphic system.

Depends R (>= 3.4.0), ggplot2

Imports ggfun, ggplotify, grid, jsonlite, magick, methods, scales, tibble, tools, utils

Suggests ape, ggtree, gridGraphics, httr, rsvg

ByteCompile true

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URL <https://github.com/GuangchuangYu/ggimage> (devel),
<https://yulab-smu.top/pkgdocs/ggimage.html> (vignette)

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

Encoding UTF-8

RoxygenNote 7.1.2

NeedsCompilation no

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download_phylopic	<i>download_phylopic</i>
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Description

download phylopic images

Usage

```
download_phylopic(id, destdir = ".", ...)
```

Arguments

id	phylopic id
destdir	directory where the downloaded images are to be saved.
...	additional parameters passed to download.file

Details

This function allows users to download phylopic images using phylopic id

Value

a character string (or vector) with downloaded file path

Author(s)

Guangchuang Yu

draw_key	<i>key drawing function</i>
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Description

key drawing function

Usage

```
draw_key_image(data, params, size)
```

Arguments

data	A single row data frame containing the scaled aesthetics to display in this key
params	A list of additional parameters supplied to the geom.
size	Width and height of key in mm

Value

A grid grob

geom_bgimage	<i>geom_bgimage</i>
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Description

add image as background to plot panel.

Usage

```
geom_bgimage(image)
```

Arguments

image	image file
-------	------------

Value

ggplot

Author(s)

Guangchuang Yu

geom_emoji	<i>geom_emoji</i>
------------	-------------------

Description

geom layer for using emoji image

Usage

```
geom_emoji(  
  mapping = NULL,  
  data = NULL,  
  inherit.aes = TRUE,  
  na.rm = FALSE,  
  by = "width",  
  ...  
)
```

Arguments

mapping	aes mapping
data	data
inherit.aes	whether inherit aes mapping from ggplot()
na.rm	whether remove NA values
by	one of 'width' or 'height' for specifying size
...	additional parameter

Value

ggplot2 layer

Author(s)

guangchuang yu

geom_flag	<i>geom_flag</i>
-----------	------------------

Description

geom layer for using flag image

Usage

```
geom_flag(  
  mapping = NULL,  
  data = NULL,  
  inherit.aes = TRUE,  
  na.rm = FALSE,  
  by = "width",  
  ...  
)
```

Arguments

mapping	aes mapping
data	data
inherit.aes	whether inherit aes mapping from ggplot()
na.rm	whether remove NA values
by	one of 'width' or 'height' for specifying size
...	additional parameter

Value

ggplot2 layer

Author(s)

Guangchuang Yu

geom_icon	<i>geom_icon</i>
-----------	------------------

Description

geom layer for using icon

Usage

```
geom_icon(  
  mapping = NULL,  
  data = NULL,  
  inherit.aes = TRUE,  
  na.rm = FALSE,  
  by = "width",  
  ...  
)
```

Arguments

mapping	aes mapping
data	data
inherit.aes	whether inherit aes mapping from ggplot()
na.rm	whether remove NA values
by	one of 'width' or 'height' for specifying size
...	additional parameter

Value

ggplot2 layer

Author(s)

guangchuang yu

geom_image	<i>geom_image</i>
------------	-------------------

Description

geom layer for visualizing image files

Usage

```
geom_image(  
  mapping = NULL,  
  data = NULL,  
  stat = "identity",  
  position = "identity",  
  inherit.aes = TRUE,  
  na.rm = FALSE,  
  by = "width",  
  nudge_x = 0,  
  ...  
)
```

Arguments

mapping	aes mapping
data	data
stat	stat
position	position
inherit.aes	logical, whether inherit aes from ggplot()
na.rm	logical, whether remove NA values
by	one of 'width' or 'height'
nudge_x	horizontal adjustment to nudge image
...	additional parameters

Value

geom layer

Author(s)

Guangchuang Yu

Examples

```
## Not run:
library("ggplot2")
library("ggimage")
set.seed(2017-02-21)
d <- data.frame(x = rnorm(10),
                y = rnorm(10),
                image = sample(c("https://www.r-project.org/logo/Rlogo.png",
                                "https://jeroenooms.github.io/images/frink.png"),
                              size=10, replace = TRUE)
                )
ggplot(d, aes(x, y)) + geom_image(aes(image=image))

## End(Not run)
```

geom_phylopic

geom_phylopic

Description

geom layer for using phylopic image

Usage

```
geom_phylopic(
  mapping = NULL,
  data = NULL,
  inherit.aes = TRUE,
  na.rm = FALSE,
  by = "width",
  ...
)
```

Arguments

mapping	aes mapping
data	data
inherit.aes	whether inherit aes mapping from ggplot()
na.rm	whether remove NA values
by	one of 'width' or 'height' for specifying size
...	additional parameter

Value

ggplot2 layer

Author(s)

Guangchuang Yu

`geom_pokemon`*geom_pokemon*

Description

geom layer for using pokemon image

Usage

```
geom_pokemon(  
  mapping = NULL,  
  data = NULL,  
  inherit.aes = TRUE,  
  na.rm = FALSE,  
  by = "width",  
  ...  
)
```

Arguments

<code>mapping</code>	aes mapping
<code>data</code>	data
<code>inherit.aes</code>	whether inherit aes mapping from <code>ggplot()</code>
<code>na.rm</code>	whether remove NA values
<code>by</code>	one of 'width' or 'height' for specifying size
<code>...</code>	additional parameter

Value

ggplot2 layer

Author(s)

guangchuang yu

geom_subview	<i>geom_subview</i>
--------------	---------------------

Description

subview geom

Usage

```
geom_subview(  
  mapping = NULL,  
  data = NULL,  
  width = 0.1,  
  height = 0.1,  
  x = NULL,  
  y = NULL,  
  subview = NULL  
)
```

Arguments

mapping	aes mapping, requires 'x', 'y' and 'subview'
data	data frame
width	width
height	height
x	x position of subview. This parameter works if mapping and data is not provided
y	y position of subview. This parameter works if mapping and data is not provided
subview	subview to plot, if not provided in data and specify by mapping

Value

layer

Author(s)

guangchuang yu

geom_twitchemote *geom_twitchemotes*

Description

geom layer for using Twitch emotes

Usage

```
geom_twitchemote(  
  mapping = NULL,  
  data = NULL,  
  inherit.aes = TRUE,  
  na.rm = FALSE,  
  by = "width",  
  ...  
)
```

Arguments

mapping	aes mapping
data	data
inherit.aes	whether inherit aes mapping from ggplot()
na.rm	whether remove NA values
by	one of 'width' or 'height' for specifying size
...	additional parameter

Value

ggplot2 layer

Author(s)

Brendan Rocks

geom_worldcup2018 *geom_worldcup2018*

Description

geom layer for wordcup 2018

Usage

```
geom_worldcup2018(
  mapping = NULL,
  data = NULL,
  inherit.aes = TRUE,
  na.rm = FALSE,
  by = "width",
  ...
)
```

Arguments

mapping	aes mapping
data	data
inherit.aes	whether inherit aes mapping from <code>ggplot()</code>
na.rm	whether remove NA values
by	one of 'width' or 'height' for specifying size
...	additional parameter

Value

ggplot2 layer

Author(s)

Guangchuang Yu

ggbackground	<i>ggbackground</i>
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Description

set background for ggplot

Usage

```
ggbackground(gg, background, ...)
```

Arguments

gg	gg object
background	background image
...	additional parameter to manipulate background image, see also <code>geom_image</code>

Value

gg object

Author(s)

guangchuang yu

<code>image_read2</code>	<i>image_read2</i>
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Description

read image (by `magick::image_read`) with the ability to remove marginal empty space

Usage

```
image_read2(path, ..., cut_empty_space = TRUE)
```

Arguments

<code>path</code>	file path
<code>...</code>	additional parameters that pass to <code>magick::image_read</code>
<code>cut_empty_space</code>	whether remove marginal empty space

Value

magick-image object

Author(s)

Guangchuang Yu

<code>list.flag</code>	<i>list.flag</i>
------------------------	------------------

Description

list available flag

Usage

```
list.flag()
```

Value

flag vector

Author(s)

Guangchuang Yu

`list.icon`

list.icon

Description

list available icon

Usage

`list.icon()`

Value

icon vector

Author(s)

guangchuang yu

`list.pokemon`

list.pokemon

Description

list available pokemon

Usage

`list.pokemon()`

Value

pokemon vector

Author(s)

guangchuang yu

`list.worldcup2018` *list.worldcup2018*

Description

list flags of worldcup 2018

Usage

`list.worldcup2018()`

Value

flag vector

Author(s)

Guangchuang Yu

`phylopic_uid` *phylopic_uid*

Description

query phylopic to get uid from scientific name

Usage

`phylopic_uid(name)`

Arguments

name scientific name

Value

phylopic uid

Author(s)

Guangchuang Yu

theme_nothing	<i>theme_nothing</i>
---------------	----------------------

Description

A theme that only show the plot panel

Usage

```
theme_nothing(base_size = 11, base_family = "")
```

Arguments

base_size	font size
base_family	font family

Value

ggplot2 theme

Author(s)

Guangchuang Yu

theme_transparent	<i>theme_transparent</i>
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Description

transparent background theme

Usage

```
theme_transparent(...)
```

Arguments

...	additional parameter to tweak the theme
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Value

ggplot object

Author(s)

Guangchuang Yu with contributions from Hugo Gruson

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