

Package: ggimage (via r-universe)

October 16, 2026

Title Use Images in 'ggplot2'

Version 0.3.8

Description Add image layers to 'ggplot2' plots. Images can be placed at data coordinates, used as plot backgrounds, or embedded as subplots. Supports local image files, image URLs, and image sources including 'PhyloPic', 'Pokemon', emoji, and icons. Interactive image layers are available for 'HTML' output.

Depends R (>= 4.1.0), ggplot2

Imports digest, ggfun, ggiraph, ggplotify, grid, jsonlite, magick, methods, purrr, rlang, scales, stats, tibble, tools, utils, withr, yulab.utils (>= 0.1.3)

Suggests httr, quarto, rsvg, testthat (>= 3.2.1)

VignetteBuilder quarto

ByteCompile true

License Artistic-2.0

URL <https://github.com/YuLab-SMU/ggimage>

BugReports <https://github.com/YuLab-SMU/ggimage/issues>

Encoding UTF-8

Roxygen list(markdown = TRUE)

Config/roxygen2/version 8.1.1

Config/pak/sysreqs libcairo2-dev cmake libfontconfig1-dev libfreetype6-dev make libmagick++-dev gsfonts libpng-dev libuv1-dev libssl-dev

Repository <https://yulab-smu.r-universe.dev>

Date/Publication 2026-10-16 07:23:38 UTC

RemoteUrl <https://github.com/yulab-smu/ggimage>

RemoteRef HEAD

RemoteSha 361f9a0e6015aad5d9089de691fad182bbb15294

Contents

autocomplete_name	2
clear_image_cache	3
download_phylopic	3
draw_key	4
geom_bgimage	5
geom_emoji	6
geom_flag	7
geom_icon	8
geom_image	9
geom_image_interactive	11
geom_image_repel	12
geom_phylopic	15
geom_phylopic_interactive	16
geom_pokemon	16
geom_subview	17
geom_worldcup2018	18
GeomInteractiveImage	19
get_image_cache_policy	19
get_image_cache_stats	20
ggbackground	21
ggpreview	21
image_read2	22
list.flag	23
list.icon	23
list.pokemon	24
list.worldcup2018	24
phylopic_uid	25
reset_image_cache_stats	25
theme_nothing	26
theme_transparent	26
Index	27

autocomplete_name	<i>autocomplete_name</i>
-------------------	--------------------------

Description

obtain suggestions for full names based on partial text name

Usage

autocomplete_name(name, ...)

Arguments

name	partial text name
...	additional parameters

Value

scientific name

clear_image_cache	<i>Clear the image caches and their diagnostics.</i>
-------------------	--

Description

Clear the image caches and their diagnostics.

Usage

```
clear_image_cache()
```

Value

NULL, invisibly.

See Also

[get_image_cache_stats\(\)](#) [reset_image_cache_stats\(\)](#)

download_phylopic	<i>download_phylopic</i>
-------------------	--------------------------

Description

download phylopic images

Usage

```
download_phylopic(
  id,
  destdir = ".",
  ...,
  reuse = TRUE,
  lock_timeout = getOption("ggimage.phylopic_lock_timeout", 30),
  lock_poll = getOption("ggimage.phylopic_lock_poll", 0.05)
)
```

Arguments

id	phylopic id
destdir	directory where the downloaded images are to be saved.
...	additional parameters passed to download.file
reuse	whether to reuse existing non-empty regular files
lock_timeout	maximum seconds to wait for a concurrent download lock
lock_poll	seconds between lock acquisition attempts

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

Description

draw_key_image() draws the legend key of image layers (i.e. geom_image()). The type of the key is determined by the global option ggimage.keytype, which supports "point" (the default when the option is unset), "rect", "image" and "blank" (no key, the behaviour of image layers before the key was implemented). An unsupported value falls back to "point" with a warning.

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

Details

The "image" key shows the image carried by the key data, which is the layer's image argument or the images a guide is given with `override.aes`; `ggplot2` has no scale with which to look a per-row image up, so a layer that maps image to a column puts the same image in every key. Without any image to show, the key falls back to the logo bundled with the package.

Image layers have no default colour, so colour can be missing (i.e. `NULL`) or `NA` in data, for instance when only alpha is mapped. Such keys fall back to "black", so that alpha stays visible in the legend.

Value

A grid grob

<code>geom_bgimage</code>	<i>geom_bgimage</i>
---------------------------	---------------------

Description

add image as background to plot panel.

Usage

```
geom_bgimage(image, pixel = NULL, x = 0, y = 0, scale = NULL)
```

Arguments

<code>image</code>	image file, or a magick image object
<code>pixel</code>	the pixel of image to anchor, given as <code>c(col, row)</code> counted from the top-left corner of the image, i.e. <code>col</code> pixels from the left and <code>row</code> pixels from the top. The centre of that pixel is placed on the data point (<code>x</code> , <code>y</code>). If <code>NULL</code> (the default) the image is stretched to fill the plot panel and the remaining parameters are ignored.
<code>x</code>	x coordinate of the data point that <code>pixel</code> is anchored to. Only used when <code>pixel</code> is given.
<code>y</code>	y coordinate of the data point that <code>pixel</code> is anchored to. Only used when <code>pixel</code> is given.
<code>scale</code>	number of data units per image pixel. Required when <code>pixel</code> is given; it controls the size of the image in data coordinates. To make the image <code>w</code> data units wide, use <code>scale = w / image_info(image)\$width</code> . The extent is given in data units on both axes, so the image keeps its proportions only under <code>coord_fixed()</code> , and is otherwise stretched by the panel's physical shape.

Value

An object that `+` adds to a plot as a background layer. The background never takes part in the scale ranges: with `pixel = NULL` it covers the panel whatever the data, and with `pixel` given the axes can be discrete as well as continuous.

Author(s)

Guangchuang Yu

Examples

```
library("ggplot2")
library("ggimage")

img <- system.file("extdata/Rlogo.png", package = "ggimage")
d <- data.frame(x = c(1, 2, 3), y = c(1, 2, 1.5))
p <- ggplot(d, aes(x, y)) +
  scale_x_continuous(limits = c(0, 4)) +
  scale_y_continuous(limits = c(0, 4))

## by default the image is stretched to fill the panel
p + geom_bgimage(img) + geom_point()

## with `pixel`, the image is placed in data coordinates instead: the
## centre of the bottom-left pixel is anchored to the origin, and `scale`
## sets the size
info <- magick::image_info(magick::image_read(img))
p + geom_bgimage(img, pixel = c(1, info$height), x = 0, y = 0,
  scale = 4 / info$width) + geom_point()
```

geom_emoji*geom_emoji*

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,
  nudge_y = 0,
  use_cache = TRUE,
  width = NULL,
  height = NULL,
  ...
)
```

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
nudge_y	vertical adjustment to nudge image
use_cache	logical, whether to use image caching for better performance (default: TRUE)
width, height	Image width and height in native panel units, matching the plotting units used by the size/by behavior. They can be mapped per row via <code>aes(width = ..., height = ...)</code> or set for the whole layer. They override size (and therefore also <code>size = Inf</code> and <code>by</code>): • only width is provided, the height is derived from the image ratio; • only height is provided, the width is derived from the image ratio;


```

    )
# With caching enabled (default)
ggplot(d, aes(x, y)) + geom_image(aes(image=image))

# With caching disabled
ggplot(d, aes(x, y)) + geom_image(aes(image=image), use_cache=FALSE)

# Per-row image size, via the `width` and `height` aesthetics
ggplot(d, aes(x, y)) +
  geom_image(aes(image=image, width=abs(x)/10, height=abs(y)/10))

# Only one of them: the other dimension keeps the ratio of the image
ggplot(d, aes(x, y)) + geom_image(aes(image=image, width=abs(x)/10))

## End(Not run)

```

geom_image_interactive

Create interactive image of ggimage

Description

The geometry is based on `geom_image()`. See the documentation for those functions for more details.

Usage

```
geom_image_interactive(...)
```

Arguments

... see also the parameters of `geom_image()` of `ggimage`

Examples

```

## Not run:
library("ggplot2")
library("ggimage")
library("ggiraph")
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)
                )
d$id <- sample(10)
p <- ggplot(d, aes(x, y)) +
  geom_image_interactive(aes(image=image, tooltip = id, data_id = id))
girafe(ggobj = p)

```

```
## End(Not run)
```

geom_image_repel	<i>geom_image_repel</i>
------------------	-------------------------

Description

geom layer for visualizing image files with basic overlap avoidance

Usage

```
geom_image_repel(
  mapping = NULL,
  data = NULL,
  stat = "identity",
  position = "identity",
  inherit.aes = TRUE,
  na.rm = FALSE,
  by = "width",
  nudge_x = 0,
  nudge_y = 0,
  use_cache = TRUE,
  width = NULL,
  height = NULL,
  max.iter = 100,
  force = 0.1,
  box.padding = 0,
  direction = "both",
  ...
)
```

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
nudge_y	vertical adjustment to nudge image
use_cache	logical, whether to use image caching for better performance

width, height	Image width and height in native panel units, see geom_image() . Only one of them keeps the aspect ratio of the image.
max.iter	non-negative whole number of displacement iterations. <code>max.iter = 0</code> keeps the original coordinates (and <code>force = 0</code> does the same).
force	non-negative number, the fraction of the current overlap that is resolved in one iteration (each image of an overlapping pair moves by $\text{force} * \text{overlap} / 2$). Larger values converge faster but produce bigger jumps.
box.padding	non-negative number, extra space added around every image box, in the same units as width/height. Repelled images are kept at least <code>box.padding</code> apart.
direction	one of 'both', 'x' or 'y', the axis (or axes) along which images are allowed to move. Overlap is always detected on both axes; <code>direction</code> only restricts the displacement, so <code>direction = "x"</code> slides overlapping images horizontally until they no longer overlap.
...	additional parameters

Details

`geom_image_repel()` draws images like [geom_image\(\)](#), but moves images that overlap each other apart before drawing them. The displacement is computed offline (no network, no rendering, no `ggrepel` dependency) from the bounding boxes of the images, so the result is deterministic: the same plot always produces the same layout.

The algorithm works on the *centres* of the images, after they have been nudged (`nudge_x/nudge_y`) and transformed by the coordinate system (this is the space in which width/height are expressed, i.e. fractions of the panel):

1. each image gets an axis aligned box of size `width + box.padding` by `height + box.padding`;
2. for every pair of boxes that overlap on **both** axes, the two images are pushed apart along the allowed direction, by $\text{force} * \text{overlap} / 2$ each, away from each other;
3. step 2 is repeated at most `max.iter` times, stopping early once no pair overlaps. The residual overlap after `max.iter` iterations is about $(1 - \text{force})^{\text{max.iter}}$ of the initial one, so the default (`force = 0.1`, `max.iter = 100`) leaves essentially no overlap.

which keeps the result reproducible. For large inputs, an adaptive uniform-grid broad phase estimates candidate density before each sweep: sparse layouts use one immutable grid, while dense layouts use the full scan when grid lookup and candidate handling would cost more than checking every pair. If a sparse-grid sweep moves any image, its candidate set is no longer current; the remainder of that sweep conservatively falls back to the full scan. The grid costs $O(n + k)$ per sweep for k candidate checks (with $O(n^2)$ worst-case dense behaviour), while small inputs retain the full pair scan. The cleanup is hard-capped at 256 sweeps so dense inputs cannot make cleanup grow with n beyond that fixed number of sweeps.

Images are pushed away from each other only, they are **not** kept inside the panel, and images are never re-ordered or removed. Images with `size = Inf` (e.g. the background image added by [geom_bgimage\(\)](#)) and images that cannot be loaded are ignored by the repulsion: they keep their original position and do not push the other images around.

The width of an image that is sized through `size/by` (instead of an explicit `width`) is derived by grid from its height and from the physical aspect of the panel. `geom_image_repel()` uses the aspect

reported by the coordinate system (`coord_fixed()`, `exact`) and assumes a square panel otherwise, which over-estimates the width of a panel that is wider than it is high. Pass explicit width/height when the exact box matters.

Value

geom layer

Aesthetics

`geom_image_repel()` understands the same aesthetics as `geom_image()` (required aesthetics are in bold):

- **x**
- **y**
- **image**
- **size**
- **width**
- **height**
- **colour**
- **angle**
- **alpha**

`colour` and `alpha` are applied to the drawn image and do not influence the repulsion, which is computed from `x`, `y`, `size`, `width` and `height` alone.

Author(s)

Guangchuang Yu

Examples

```
library("ggplot2")
library("ggimage")
d <- data.frame(x = c(0.50, 0.52, 0.51),
               y = c(0.50, 0.51, 0.49),
               image = system.file("extdata/Rlogo.png", package = "ggimage"))
## the fixed scale matters: with the default limits the three points would
## be spread over the whole panel and would not overlap at all
p <- ggplot(d, aes(x, y, image = image)) +
  scale_x_continuous(limits = c(0, 1)) +
  scale_y_continuous(limits = c(0, 1))
## as they are, the images overlap
p + geom_image(width = 0.12)
## ... and are pushed apart by geom_image_repel()
p + geom_image_repel(width = 0.12, box.padding = 0.01)
## max.iter = 0 keeps the original coordinates
p + geom_image_repel(width = 0.12, max.iter = 0)
## only move them apart horizontally
p + geom_image_repel(width = 0.12, direction = "x")
```

geom_phylopic	<i>geom_phylopic</i>
---------------	----------------------

Description

geom layer for using phylopic image

Usage

```
geom_phylopic(  
  mapping = NULL,  
  data = NULL,  
  inherit.aes = TRUE,  
  na.rm = FALSE,  
  by = "width",  
  image_fun = function(x) magick::image_background(x, color = "none", flatten = FALSE),  
  ...  
)
```

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
image_fun	a function to process magick-image objects, default is function(x)magick::image_background(x, color = "none", flatten = FALSE).
...	additional parameter

Value

ggplot2 layer

Author(s)

Guangchuang Yu

```
geom_phylopic_interactive
```

Create interactive phylopic of ggimage

Description

The geometry is based on `geom_phylopic()`. See the documentation for those functions for more details.

Usage

```
geom_phylopic_interactive(...)
```

Arguments

... see also the parameters of `geom_phylopic()` of `ggimage`

```
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
...	additional parameter

Value

ggplot2 layer

Author(s)

Guangchuang Yu

geom_subview

geom_subview

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

Details

Subviews can be placed in three ways. The positions and the subviews may be taken from the plot's own mapping, the usual 'ggplot2' idiom:

```
ggplot(df, aes(x, y, subview = pie)) + geom_subview()  
ggplot(df, aes(x, y)) + geom_subview(aes(subview = pie))
```

They may also all be given to the layer, with the positions and the subviews taken from its own data:

```
geom_subview(aes(x = x, y = y, subview = pie, width = width, height = width),
             data = df)
```

For one or more subviews given by position, the first argument is read as the subview rather than as a mapping:

```
geom_subview(legend, x = 10, y = 50)
geom_subview(df$pie, df$x, df$y, width = df$width, height = df$height)
```

A `geom_subview()` whose aesthetics are not all supplied by its own arguments is resolved when it is added to a plot, so that an `x`, `y` or `subview` inherited from `ggplot()` can be seen; what is missing from both places is reported then, at the `+`, with the same message.

Value

layer

Author(s)

guangchuang yu

geom_worldcup2018	<i>geom_worldcup2018</i>
-------------------	--------------------------

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 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

GeomInteractiveImage *ggproto classes for ggiraph*

Description

ggproto classes for ggiraph

get_image_cache_policy
Get or set the global image cache policy.

Description

Cache limits may also be supplied with options(): use ggimage.image_cache_capacity, ggimage.image_cache_ttl, ggimage.image_cache_bytes, and ggimage.image_cache_eviction for both caches, or the corresponding ggimage.image_cache_base_* and ggimage.image_cache_transform_* options independently. Byte limits are approximate object-size guardrails rather than process-memory measurements. The default capacity, TTL, and byte cap are infinite, preserving the historical unbounded cache. eviction is one of "lru", "fifo", or "none"; the last value disables capacity and byte eviction. clock is intended for deterministic tests and should return seconds or POSIXct.

Usage

```
get_image_cache_policy()

set_image_cache_policy(
  capacity = NULL,
  ttl = NULL,
  eviction = NULL,
  base_capacity = NULL,
  transform_capacity = NULL,
  base_ttl = NULL,
  transform_ttl = NULL,
  bytes = NULL,
  base_bytes = NULL,
  transform_bytes = NULL,
  clock = NULL
)
```

Arguments

capacity, ttl	Optional shared capacity (number of entries) and TTL (seconds). NULL leaves the current option unchanged.
eviction	Optional eviction policy: "lru", "fifo", or "none".
base_capacity, transform_capacity	Cache-specific capacities.
base_ttl, transform_ttl	Cache-specific TTLs in seconds.
bytes	Optional shared estimated byte cap for each cache. NULL leaves the current option unchanged. This is an estimate, not a process-memory measurement; native image buffers may be larger than the estimate.
base_bytes, transform_bytes	Cache-specific estimated byte caps.
clock	Optional function used as the cache clock.

Value

get_image_cache_policy() returns a policy list. The setter returns the previous policy invisibly.

get_image_cache_stats *Return image cache hit, miss, eviction, expiry, and size diagnostics.*

Description

The bytes and entries values are estimates/current counts. Byte estimates use `object.size()` (and a pixel-based lower bound for magick images), so native ImageMagick allocations are not accounted for exactly.

Usage

```
get_image_cache_stats()
get_image_cache_diagnostics()
```

Value

A list with base and transform named diagnostic vectors.

ggbackground	<i>ggbackground</i>
--------------	---------------------

Description

set background for ggplot

Usage

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

Arguments

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

Value

gg object, with the background as its first layer. The layer sits on one of the observations the plot already has, so it does not widen the axis ranges and needs no continuous axis. The observation is taken from the plot-level `aes()`, or from the first layer that maps `x` and `y`.

Author(s)

guangchuang yu

ggpreview	<i>ggpreview</i>
-----------	------------------

Description

preview a plot before saving it to a file.

Usage

```
ggpreview(  
  filename = NULL,  
  plot = last_plot(),  
  width = NA,  
  height = NA,  
  units = "in",  
  ...  
)
```

Arguments

filename	If it is not NULL, the previewed figure will be save to the file
plot	any plot that supported by the 'ggplotify' package
width	width of the figure
height	height of the figure
units	units of the 'width' and 'height'
...	additional parameters pass to ggsave() if filename is not NULL

Value

a preview of the figure

Author(s)

Guangchuang Yu

image_read2

image_read2

Description

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

Usage

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

Arguments

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

Value

magick-image object

Author(s)

Guangchuang Yu

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

Description

list available flag

Usage

list.flag()

Value

flag vector

Author(s)

Guangchuang Yu

list.icon	<i>list.icon</i>
-----------	------------------

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	<i>phylopic_uid</i>
--------------	---------------------

Description

query phylopic to get uid from scientific name

Usage

```
phylopic_uid(name, seed = 123)
```

Arguments

name	scientific name
seed	The random seed to use to generate the same uid, because a name might have many uid, the function will extract one of them randomly, default is 123.

Value

phylopic uid

Author(s)

Guangchuang Yu

reset_image_cache_stats	<i>Reset image cache hit/miss and eviction/expiry counters.</i>
-------------------------	---

Description

Cache entries are retained; use `clear_image_cache()` to clear entries and reset these counters together.

Usage

```
reset_image_cache_stats()
```

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

Description

transparent background theme

Usage

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

Arguments

...	additional parameter to tweak the theme
-----	---

Value

ggplot object

Author(s)

Guangchuang Yu with contributions from Hugo Gruson

Index

autocomplete_name, [2](#)

clear_image_cache, [3](#)

download_phylopic, [3](#)

draw_key, [4](#)

draw_key_image (draw_key), [4](#)

geom_bgimage, [5](#)

geom_bgimage(), [13](#)

geom_emoji, [6](#)

geom_flag, [7](#)

geom_icon, [8](#)

geom_image, [9](#)

geom_image(), [13](#), [14](#)

geom_image_interactive, [11](#)

geom_image_repel, [12](#)

geom_phylopic, [15](#)

geom_phylopic_interactive, [16](#)

geom_pokemon, [16](#)

geom_subview, [17](#)

geom_worldcup2018, [18](#)

GeomInteractiveImage, [19](#)

get_image_cache_diagnostics
(get_image_cache_stats), [20](#)

get_image_cache_policy, [19](#)

get_image_cache_stats, [20](#)

get_image_cache_stats(), [3](#)

ggbackground, [21](#)

ggpreview, [21](#)

image_read2, [22](#)

list.flag, [23](#)

list.icon, [23](#)

list.pokemon, [24](#)

list.worldcup2018, [24](#)

phylopic_uid, [25](#)

reset_image_cache_stats, [25](#)

reset_image_cache_stats(), [3](#)

set_image_cache_policy
(get_image_cache_policy), [19](#)

theme_nothing, [26](#)

theme_transparent, [26](#)