

# Package ‘meme’

May 8, 2026

**Title** Create Meme

**Version** 0.2.4

**Description** The word 'Meme' was originated from the book, 'The Selfish Gene', authored by Richard Dawkins (1976).

It is a unit of culture that is passed from one generation to another and correlates to the gene, the unit of physical heredity.

The internet memes are captioned photos that are intended to be funny, ridiculous.

Memes behave like infectious viruses and travel from person to person quickly through social media.

The 'meme' package allows users to make custom memes.

**Depends** R (>= 3.4.0)

**Imports** ggplot2, graphics, grDevices, grid, gridGraphics, magick, methods, showtext, sysfonts, utils

**Suggests** cowplot, ggimage, knitr, rmarkdown, prettydoc, shadowtext

**VignetteBuilder** knitr

**Encoding** UTF-8

**ByteCompile** true

**License** Artistic-2.0

**URL** <https://github.com/GuangchuangYu/meme/>

**BugReports** <https://github.com/GuangchuangYu/meme/issues>

**RoxygenNote** 7.3.2

**NeedsCompilation** no

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asp	<i>asp</i>
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### Description

aspect ratio of meme

### Usage

asp(x)

### Arguments

x                    meme object

### Value

asp ratio

### Author(s)

Guangchuang Yu

### Examples

```
## Not run:
f <- system.file("icon.png", package="meme")
x <- meme(f, "meme", "produced by meme package")
asp(x)

## End(Not run)
```

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font_pokemon	<i>font_pokemon</i>
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**Description**

load fonts

**Usage**

```
font_pokemon()
```

```
font_import(path = ".")
```

**Arguments**

path	folder of fonts
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**Author(s)**

Guangchuang Yu

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grid.echo.meme	<i>grid.echo.meme</i>
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**Description**

grid.echo method for meme object

**Usage**

```
## S3 method for class 'meme'
grid.echo(x = NULL, newpage = TRUE, prefix = NULL, ...)
```

**Arguments**

x	meme object
newpage	not use in this method
prefix	not use in this method
...	not use in this method

**Details**

using the solution <https://stackoverflow.com/a/18551959/3844636> to not importing grid.echo generics from gridGraphics for easy installation, since gridGraphics has system requirement of ImageMagick <https://github.com/cran/gridGraphics/blob/master/DESCRIPTION#L14>.

this method is just a hack for making cowplot to support meme object, and not used elsewhere.

**Value**

meme object

**Author(s)**

Guangchuang Yu

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meme

*meme*

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**Description**

create meme

**Usage**

```
meme(
  img,
  upper = "",
  lower = "",
  size = "auto",
  color = "white",
  font = "Impact",
  vjust = 0.05,
  bgcolor = "black",
  r = 0.2,
  density = NULL
)
```

**Arguments**

img	path or url
upper	upper text
lower	lower text
size	size of text
color	color of text
font	font family of text
vjust	vertical adjustment of captions
bgcolor	background color of shadow text
r	ratio of shadow text
density	resolution to render pdf or svg

**Value**

grob object

**Author(s)**

Guangchuang Yu

**Examples**

```
f <- system.file("angry8.jpg", package="meme")  
meme(f, "code", "all the things!", font = "Helvetica")
```

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memeGrob

*memeGrob*

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**Description**

convert meme to grob object

**Usage**

```
memeGrob(x)
```

**Arguments**

x                   meme object

**Value**

grob object

**Author(s)**

Guangchuang Yu

**Examples**

```
f <- system.file("angry8.jpg", package="meme")  
x <- meme(f, "code", "all the things!")  
memeGrob(x)
```

meme\_save

*meme\_save*

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**Description**

save meme plot

**Usage**

```
meme_save(x, file, width = NULL, height = NULL, ...)
```

**Arguments**

x	meme output
file	output file
width	width of graph
height	height of graph
...	additional arguments for ggsave

**Author(s)**

Guangchuang Yu

**Examples**

```
f <- system.file("angry8.jpg", package="meme")
x <- meme(f, "code", "all the things!")
outfile <- tempfile(fileext = ".png")
meme_save(x, outfile)
```

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mmpplot*mmpplot*

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**Description**

plot the image for meme (captions to be added)

**Usage**

```
mmpplot(x)
```

**Arguments**

x	image file
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**Value**

meme object

**Author(s)**

Guangchuang Yu

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<i>mm_caption</i>	<i>mm_caption</i>
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**Description**

add caption layer for meme

**Usage**

`mm_caption(upper = NULL, lower = NULL, ...)`

**Arguments**

<code>upper</code>	upper caption
<code>lower</code>	lower caption
<code>...</code>	additional parameters to set caption

**Value**

meme object

**Author(s)**

Guangchuang Yu

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<code>print.meme</code>	<i>print method for meme object</i>
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**Description**

print method for meme object

**Usage**

```
## S3 method for class 'meme'  
print(  
  x,  
  size = NULL,  
  color = NULL,  
  font = NULL,  
  upper = NULL,  
  lower = NULL,  
  vjust = NULL,  
  bgcolor = NULL,  
  r = NULL,  
  newpage = is.null(vp),  
  vp = NULL,  
  newdev = FALSE,  
  ...  
)  
  
## S3 method for class 'meme'  
plot(  
  x,  
  size = NULL,  
  color = NULL,  
  font = NULL,  
  upper = NULL,  
  lower = NULL,  
  vjust = NULL,  
  bgcolor = NULL,  
  r = NULL,  
  newpage = is.null(vp),  
  vp = NULL,  
  newdev = FALSE,  
  ...  
)
```

**Arguments**

x	meme object
size	size of text
color	color of text
font	font family of text
upper	upper text
lower	lower text
vjust	vertical adjustment ratio
bgcolor	background color of shadow text
r	ratio for shadow text

newpage	draw new (empty) page first?
vp	viewport to draw plot in
newdev	open new graphic device?
...	other arguments not used by this method

**Examples**

```
f <- system.file("angry8.jpg", package="meme")
x <- meme(f, "code", "all the things!", font = "Helvetica")
print(x)
```

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