

Package ‘ggplotify’

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Title Convert Almost Any Plot to a 'grob' or 'ggplot' Object

Version 0.1.4

Description Convert a plot to a 'grob' or a 'ggplot' object so that it joins the 'grid' and 'ggplot2' ecosystem. The input can be a plot call written as a formula or an expression, a function that draws to a graphics device, a graphic object produced by another package, or a plot captured by 'grDevices::recordPlot'. Output of 'base' graphics is redrawn with 'gridGraphics', so plots from different graphics systems can be arranged, aligned, annotated and inset with packages such as 'aplot' and 'patchwork'.

Depends R (>= 3.4.0)

Imports ggplot2, graphics, grDevices, grid, gridGraphics, rlang, utils, yulab.utils

Suggests aplot, colorspace, ggimage, knitr, lattice, patchwork, quarto, testthat, vcd

VignetteBuilder quarto

ByteCompile true

License Artistic-2.0

URL <https://github.com/GuangchuangYu/ggplotify>

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

Encoding UTF-8

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NeedsCompilation no

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as.ggplot	<i>as.ggplot</i>
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Description

convert plot to ggplot object

Usage

as.ggplot(plot, scale = 1, hjust = 0, vjust = 0, angle = 0, ...)

Arguments

plot	base or grid plot, or graphic generated by ggplot, lattice, etc.
scale	the plot is drawn into the rectangle that runs from 1 - scale to scale on both axes, and is clipped to it. scale = 1 fills the panel; a small scale cuts off titles and axis labels rather than shrinking them. When angle is not 0 this argument is the width of the rotated viewport instead.
hjust	horizontal shift of that rectangle, in panel units
vjust	vertical shift of that rectangle, in panel units
angle	angle to rotate plot
...	additional parameters passed to as.grob

Value

ggplot object

Author(s)

Guangchuang Yu

Examples

as.ggplot(~barplot(1:10))

`as.grob`*as.grob*

Description

convert a plot to grob object

Usage

```
as.grob(plot, ...)
```

```
## S3 method for class 'aplot'
```

```
as.grob(plot, ...)
```

```
## S3 method for class 'oncoplot'
```

```
as.grob(plot, ...)
```

```
## S3 method for class 'bbplot'
```

```
as.grob(plot, ...)
```

```
## S3 method for class 'patchwork'
```

```
as.grob(plot, ...)
```

```
## S3 method for class 'gglist'
```

```
as.grob(plot, ...)
```

```
## S3 method for class 'expression'
```

```
as.grob(plot, ...)
```

```
## S3 method for class 'formula'
```

```
as.grob(plot, ...)
```

```
## S3 method for class ``function``
```

```
as.grob(plot, ...)
```

```
## S3 method for class 'ggplot'
```

```
as.grob(plot, ...)
```

```
## S3 method for class 'meme'
```

```
as.grob(plot, ...)
```

```
## S3 method for class 'trellis'
```

```
as.grob(plot, ...)
```

```
## S3 method for class 'eulergram'
```

```
as.grob(plot, ...)
```

```
## S3 method for class 'Heatmap'
as.grob(plot, ...)

## S3 method for class 'upset'
as.grob(plot, ...)

## S3 method for class 'tmap'
as.grob(plot, ...)

## S3 method for class 'pheatmap'
as.grob(plot, ...)

## S3 method for class 'grob'
as.grob(plot, ...)

## S3 method for class 'recordedplot'
as.grob(plot, ...)
```

Arguments

<code>plot</code>	base or grid plot, or graphic object generated by <code>ggplot</code> , <code>lattice</code> , etc. A plot recorded by <code>grDevices::recordPlot()</code> is also accepted.
<code>...</code>	additional parameter, mostly will be ignored.

Details

A `recordedplot` object holds the display list of the device that drew the plot, so the display list must be enabled, via `grDevices::dev.control(displaylist = "enable")`, before the plot is drawn. A recording that holds no graphics, which is what an inhibited device produces, cannot be converted and is reported as an error. Replaying a recording also requires the same R version, graphics device and packages that produced it, and is only guaranteed within the R session where `recordPlot()` was called.

A formula or an expression is evaluated in the environment that `as.grob()` itself was called from, which is the global environment at the top level. A variable that is local to the function calling `as.grob()` is not visible there and needs `envir`, as in `as.grob(~barplot(n), envir = environment())`.

Value

`grob` object

Author(s)

Guangchuang Yu

Examples

```
as.grob(~barplot(1:10))

grDevices::pdf(tempfile(fileext = ".pdf"))
```

```
grDevices::dev.control(displaylist = "enable")
plot(1:10, type = "b")
rec <- grDevices::recordPlot()
grDevices::dev.off()

g <- as.grob(rec)
```

base2grob

base2grob

Description

convert base plot to grob object

Usage

```
base2grob(x, envir = parent.frame())
```

Arguments

x	expression or formula of base plot function call, e.g. <code>expression(pie(1:5))</code> or <code>~plot(1:10, 1:10)</code> ; or a function that plots to an R graphics device when called, e.g. <code>function() plot(sqrt)</code>
envir	environment to search variables

Value

grob object

Author(s)

Guangchuang Yu

Examples

```
base2grob(~plot(rnorm(10)))
```

`grid2grob`*grid2grob*

Description

convert grid plot to grob object

Usage

```
grid2grob(plot_call)
```

Arguments

`plot_call` plot function call

Value

grob object

Author(s)

Guangchuang Yu

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