

# Package ‘ggplotify’

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**Title** Convert Plot to 'grob' or 'ggplot' Object

**Version** 0.1.3

## Description

Convert plot function call (using expression or formula) to 'grob' or 'ggplot' object that compatible to the 'grid' and 'ggplot2' ecosystem. With this package, we are able to e.g. using 'cowplot' to align plots produced by 'base' graphics, 'ComplexHeatmap', 'eulerr', 'grid', 'lattice', 'magick', 'pheatmap', 'vcd' etc. by converting them to 'ggplot' objects.

**Depends** R (>= 3.4.0)

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

**Suggests** aplot, colorspace, cowplot, ggimage, knitr, rmarkdown,  
lattice, prettydoc, vcd, utils

**VignetteBuilder** knitr

**ByteCompile** true

**License** Artistic-2.0

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

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

**Encoding** UTF-8

**RoxygenNote** 7.3.3

**NeedsCompilation** no

**Author** Guangchuang Yu [aut, cre] (ORCID:  
<<https://orcid.org/0000-0002-6485-8781>>)

**Maintainer** Guangchuang Yu <guangchuangyu@gmail.com>

**Repository** CRAN

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as.ggplot

*as.ggplot*

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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	scale of the plot to be drawn
hjust	horizontal adjustment
vjust	vertical adjustment
angle	angle to rotate plot
...	additional parameters passed to as.grob

### Value

ggplot object

### Author(s)

Guangchuang Yu

### Examples

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

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as.grob	<i>as.grob</i>
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**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, ...)
```

### Arguments

plot	base or grid plot, or graphic object generated by ggplot, lattice, etc.
...	additional parameter, mostly will be ignored.

### Value

grob object

### Author(s)

Guangchuang Yu

### Examples

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

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base2grob	<i>base2grob</i>
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### 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)))
```

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*grid2grob*

*grid2grob*

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**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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