Package 'ggplotify'

September 20, 2025

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

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Repository CRAN

Date/Publication 2025-09-20 05:10:11 UTC

Contents

`as.ggplot` *as.ggplot*

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))
```

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, ...)
```

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 *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. expression(pie(1:5)) or ~plot(1:10, 1:10); or a function that plots to an R graphics device when called, e.g. function() plot(sqrt)
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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