

Package ‘ggplotify’

September 3, 2021

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

Version 0.1.0

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, 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 7.1.1

NeedsCompilation no

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

Maintainer Guangchuang Yu <guangchuangyu@gmail.com>

Repository CRAN

Date/Publication 2021-09-02 23:20:02 UTC

R topics documented:

as.ggplot	2
as.grob	3
base2grob	4
grid2grob	5

`as.ggplot`*as.ggplot*

Description

convert plot to ggplot object

Usage

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

Arguments

<code>plot</code>	base or grid plot, or graphic generated by ggplot, lattice, etc.
<code>scale</code>	scale of the plot to be drawn
<code>hjust</code>	horizontal adjustment
<code>vjust</code>	vertical adjustment
<code>angle</code>	angle to rotate plot
<code>...</code>	additional parameters passed to <code>as.grob</code>

Value

ggplot object

Author(s)

Guangchuang Yu

Examples

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

as.grob	<i>as.grob</i>
---------	----------------

Description

convert a plot to grob object

Usage

```
as.grob(plot, ...)  
  
## S3 method for class 'aplot'  
as.grob(plot, ...)  
  
## S3 method for class 'bbplot'  
as.grob(plot, ...)  
  
## S3 method for class 'patchwork'  
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 '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))
```

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

Index

`as.ggplot`, 2

`as.grob`, 3

`base2grob`, 4

`grid2grob`, 5