Package 'ggplotify'

August 10, 2023

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

Version 0.1.2

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 7.2.3

NeedsCompilation no

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Repository CRAN

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R topics documented:

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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))
```

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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 '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)))
```

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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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