

Package ‘DescribeDisplay’

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Title An Interface to the DescribeDisplay GGobi Plugin

Description Produce publication quality graphics from output of GGobi's describe display plugin.

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URL <https://github.com/ggobi/DescribeDisplay>

BugReports <https://github.com/ggobi/DescribeDisplay/issues>

Imports reshape2, ggplot2 (>= 2.0.0), plyr, scales, grid, GGally (>= 1.0.0)

Suggests roxygen2 (>= 5.0.1), testthat

RoxygenNote 5.0.1

NeedsCompilation no

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addbrush	<i>Add brush to plot This adds a rectangle to a ggplot plot indicating the brush position.</i>
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Description

Add brush to plot This adds a rectangle to a ggplot plot indicating the brush position.

Usage

```
addbrush(plot, x, y, width = 0.5, height = 0.5, just = c("left", "top"),
         fill = "transparent", col = "black")
```

Arguments

plot	plot object
x	x position of brush
y	y position of brush
width	width of brush
height	height of brush
just	which corner of brush should be determined by x and y position
fill	fill colour for brush. Use ggplot-alpha for alpha blending.
col	outline colour of brush

Author(s)

Hadley Wickham <h.wickham@gmail.com>

dd_load	<i>Load describe display Retrieve output of from describe display plugin</i>
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Description

Also performs some conversion of data structures to more convenient form so that other functions do not have to repeatedly recompute. Some of these conversions could probably be moved into the Describe Display plugin, but it may be easier to just do them on the R side..

Usage

```
dd_load(path)
```

Arguments

path	file path
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Value

object of class dd

Author(s)

Hadley Wickham <h.wickham@gmail.com>

See Also

[dd_example](#) for an easier way of loading example files

describdisplayreshape

R interface to DescribeDisplay (GGobi plugin).

Description

Produce publication quality graphics from output of GGobi's describe display plugin

References

<http://www.ggobi.org/describe-display> <http://www.ggobi.org/> <http://www.had.co.nz/ggplot2/>

ggplot.barplot	<i>Create a nice plot for Bar Plots Create a nice looking plot complete with axes using ggplot.</i>
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Description

Create a nice plot for Bar Plots Create a nice looking plot complete with axes using ggplot.

Usage

```
## S3 method for class 'barplot'
ggplot(data, spine = FALSE, ...)
```

Arguments

data	plot to display, object created by dd_load()
spine	(not implemented currently) whether to display the barchart as a spine plot
...	arguments passed through to the ggplot function

Author(s)

Barret Schloerke <schloerke@gmail.com>

Examples

```
library(ggplot2)
print(ggplot(dd_example("barchart")))
```

ggplot.dd	<i>Create a nice plot Create a nice looking plot complete with axes using ggplot.</i>
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Description

Create a nice plot Create a nice looking plot complete with axes using ggplot.

Usage

```
## S3 method for class 'dd'
ggplot(data, ...)
```

Arguments

data	plot to display, object created by dd_load()
...	not used

Author(s)

Hadley Wickham <h.wickham@gmail.com>

Examples

```
library(ggplot2)
print(example(ggplot.ddplot))
print(example(ggplot.histogram))
print(example(ggplot.barplot))
```

ggplot.ddplot	<i>Create a nice plot Create a nice looking plot complete with axes using ggplot.</i>
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Description

Create a nice plot Create a nice looking plot complete with axes using ggplot.

Usage

```
## S3 method for class 'ddplot'
ggplot(data, axis.location = c(0.2, 0.2), ...)
```

Arguments

data	plot to display, object created by dd_load()
axis.location	grob function to use for drawing
...	arguments passed to the grob function

Author(s)

Hadley Wickham <h.wickham@gmail.com>

Examples

```
library(ggplot2)
print(ggplot(dd_example("xyplot")))
print(ggplot(dd_example("tour2d")))
print(ggplot(dd_example("tour1d")))
print(ggplot(dd_example("plot1d")))
print(
  ggplot(dd_example("plot1d")) +
  geom_segment(aes(x = x, xend = x, y = 0, yend = y), size = 0.3)
)
```

ggplot.histogram	<i>Create a nice plot for Histograms Create a nice looking plot complete with axes using ggplot.</i>
------------------	--

Description

Create a nice plot for Histograms Create a nice looking plot complete with axes using ggplot.

Usage

```
## S3 method for class 'histogram'
ggplot(data, spine = FALSE, ...)
```

Arguments

data	plot to display, object created by dd_load()
spine	(not implemented currently) whether to display the barchart as a spine plot
...	arguments passed through to the ggplot function

Author(s)

Barret Schloerke <schloerke@gmail.com>

Examples

```
library(ggplot2)
print(ggplot(dd_example("barchart")))
print(ggplot(dd_example("histogram")))
```

ggplot.parcoords	<i>Create a nice plot for parallel coordinates plot Create a nice looking plot complete with axes using ggplot.</i>
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Description

Create a nice plot for parallel coordinates plot Create a nice looking plot complete with axes using ggplot.

Usage

```
## S3 method for class 'parcoords'
ggplot(data, absoluteX = FALSE, absoluteY = FALSE,
edges = TRUE, ...)
```

Arguments

data	plot to display
absoluteX	make the sections proportional horizontally to eachother
absoluteY	make the sections proportional vertically to eachother
edges	boolean value to print edges. Defaults to TRUE.
...	arguments passed to the grob function

Author(s)

Barret Schloerke <schloerke@gmail.com>

Examples

```
library(ggplot2)
print(ggplot(dd_example("parcoord")))
```

ggplot.scatmat	<i>Create a nice plots in a scatter plot matrix Create a nice looking plots in a matrix. The 1d sections along the diagonal have a smooth density while the values are compared to eachother within the matrix.</i>
----------------	---

Description

Create a nice plots in a scatter plot matrix Create a nice looking plots in a matrix. The 1d sections along the diagonal have a smooth density while the values are compared to eachother within the matrix.

Usage

```
## S3 method for class 'scatmat'
ggplot(data, ...)
```

Arguments

data	data to display
...	(currently) unused arguments

Author(s)

Barret Schloerke <schloerke@gmail.com>

Examples

```
library(ggplot2)
print(ggplot(dd_example("scatmat")))
```

<code>ggplot.timeseries</code>	<i>Create nice plots for a time series Create nice looking plots complete with axes using ggplot. Produces graphics with a uniform x axis.</i>
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Description

Create nice plots for a time series Create nice looking plots complete with axes using ggplot. Produces graphics with a uniform x axis.

Usage

```
## S3 method for class 'timeseries'
ggplot(data, edges = FALSE, ...)
```

Arguments

<code>data</code>	to display
<code>edges</code>	Boolean operator to tell whether to try to force the edges or not. Will not work to remove the edges.
<code>...</code>	(currently) unused arguments

Author(s)

Barret Schloerke <schloerke@gmail.com>

Examples

```
library(ggplot2)
print(ggplot(dd_example("timeseries")))
print(ggplot(dd_example("timeseries"), edges = TRUE))
```

<code>plot.ddplot</code>	<i>Plot a dd plot Convenient method to draw a single panel.</i>
--------------------------	---

Description

This is mainly used for bug testing so that you can pull out a single panel quickly and easily.

Usage

```
## S3 method for class 'ddplot'
plot(x, ..., axislocation = c(0.1, 0.1), axis.gp = gpar(col
  = "black"), background.color = "grey90")
```


Arguments

x object to plot
... (not used)
axislocation location of axes (as x and y position in npc coordinates, ie. between 0 and 1)
axis.gp frame grob containing all panels, note that this does not contain the title or border
background.color color of in the background of the plot

Author(s)

Hadley Wickham <h.wickham@gmail.com>

Examples

```
scatmat <- dd_example("scatmat")  
plot(scatmat)  
plot(scatmat$plots[[1]])  
plot(scatmat$plots[[3]])  
plot(scatmat$plots[[4]])
```

removehiddens	<i>Remove hidden points Will remove all hidden points from the plot.</i>
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Description

Remove hidden points Will remove all hidden points from the plot.

Usage

```
removehiddens(d)
```

Arguments

d ddplot object

Author(s)

Hadley Wickham <h.wickham@gmail.com>

`zeeThemAll`*Run All Examples Will run all examples within the package*

Description

Run All Examples Will run all examples within the package

Usage

```
zeeThemAll()
```

Author(s)

Barret Schloerke schloerke@gmail.com

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