Package 'DescribeDisplay'

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Version 0.2.11
Title An Interface to the 'DescribeDisplay' 'GGobi' Plugin
Description Produce publication quality graphics from output of 'GGobi' describe display plugin.
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<pre>URL https://github.com/ggobi/DescribeDisplay</pre>
<pre>BugReports https://github.com/ggobi/DescribeDisplay/issues</pre>
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addbrush

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

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 colour for brush. Use ggplot-alpha for alpha blending.

col outline colour of brush
```

Author(s)

Hadley Wickham <h.wickham@gmail.com>

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 dd_load

Load describe display Retrieve output of from describe display plugin

Description

Also performs some conversion of data structures to more conveient 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

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

describedisplayreshape

R interface to DescribeDisplay (GGobi plugin).

Description

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

References

```
http://ggobi.org https://ggplot2.tidyverse.org
```

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

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()
... arguments passed through to the ggplot function
spine (not implemented currently) whether to display the barchart as a spine plot
```

Author(s)

Barret Schloerke <schloerke@gmail.com>

Examples

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

ggplot.dd

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

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
```

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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

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

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()
... arguments passed to the grob function
axis.location grob function to use for drawing
```

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)
)
```

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	e a nice plot for Histograms Create a nice looking plot complete xes using ggplot.
--	--

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()
... arguments passed through to the ggplot function
spine (not implemented currently) whether to display the barchart as a spine plot

Author(s)

Barret Schloerke < schloerke@gmail.com>

Examples

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

ggplot.parcoords

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

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)
```

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Arguments

data plo	t to	display
----------	------	---------

... arguments passed to the grob function

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.

Author(s)

Barret Schloerke < schloerke@gmail.com>

Examples

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

ggplot.scatmat

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.

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")))
```

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

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

to display
 (currently) unused arguments
 edges
 Boolean operator to tell whether to try to force the edges or not. Will not work

to remove the edges.

Author(s)

Barret Schloerke < schloerke@gmail.com>

Examples

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

plot.ddplot

Plot a dd plot Convenient method to draw a single panel.

Description

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

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Usage

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

Arguments

```
x object to plot

y NULL to satisfy generic functions and methods rules

... (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]])</pre>
```

removehiddens

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

Description

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

Usage

```
removehiddens(d)
```

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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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