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.
License MIT + file LICENSE
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)
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Add brush to plot. This adds a rectangle to a ggplot plot indicating the brush position.

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

Usage

```r
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>
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

\[ \text{dd\_load(path)} \]

Arguments

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Value

object of class dd

Author(s)

Hadley Wickham <h.wickham@gmail.com>

See Also

\[ \text{dd\_example} \text{ for an easier way of loading example files} \]

References

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()`
- 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

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
ggplot.ddplot

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()
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**

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

**Description**

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

**Usage**

```r
## 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**

```r
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**

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

Arguments

- **data**: plot to display
- **absoluteX**: make the sections proportional horizontally to each other
- **absoluteY**: make the sections proportional vertically to each other
- **edges**: boolean value to print edges. Defaults to TRUE.
- **...**: arguments passed to the grob function

Author(s)

Barret Schloerke <schloerke@gmail.com>

Examples

```r
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 each other 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 each other within the matrix.

Usage

```r
## S3 method for class 'scatmat'

ggplot(data, ...)
```

Arguments

- **data**: data to display
- **...**: (currently) unused arguments

Author(s)

Barret Schloerke <schloerke@gmail.com>

Examples

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

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

Arguments

data
to display

edges
Boolean operator to tell whether to try to force the edges or not. Will not work to remove the edges.

...
(currently) unused arguments

Author(s)

Barret Schloerke <schloerke@gmail.com>

Examples

```r
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.

Usage

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

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

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

Description

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

Usage

```r
removehiddens(d)
```

Arguments

- `d` ddplot object

Author(s)

Hadley Wickham <h.wickham@gmail.com>
zeeThemAll

**Description**

Run All Examples Will run all examples within the package

**Usage**

zeeThemAll()

**Author(s)**

Barret Schloerke schloerke@gmail.com
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