

Package ‘DescribeDisplay’

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Title An Interface to the 'DescribeDisplay' 'GGobi' Plugin

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

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

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

Imports reshape2, ggplot2 (>= 3.0.0), plyr, scales, grid, GGally (>= 1.4.0)

Suggests roxygen2 (>= 6.0.1), testthat

RoxygenNote 6.0.1

NeedsCompilation no

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Repository CRAN

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

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> |
|---------|--|

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 |
|------|-----------|

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> |
|----------------|---|

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> |
|-----------|---|

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> |
|---------------|---|

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> |
|------------------|---|

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> |
|--------------------------------|--|

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

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)
```

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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