

Package ‘DescribeDisplay’

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Version 0.2.2

Title R interface to DescribeDisplay (GGobi plugin)

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

License BSD

LazyLoad false

LazyData true

URL <http://www.ggobi.org/describe-display>

Collate ‘axis-geom.r’ ‘axis-grob.r’ ‘data.r’ ‘DescribeDisplay-package.r’ ‘ggplot-barchart.r’ ‘ggplot-parcoords.r’ ‘ggplot-scatmat.r’ ‘ggplot-timeseries.r’ ‘ggplot.r’ ‘plots.r’ ‘utils.r’

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DescribeDisplay-package
R interface to DescribeDisplay (GGobi plugin)

Description

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

Details

Package: DescribeDisplay
 Type: Package
 Version: 2.0
 Date: 2009-03-31
 License: BSD
 LazyData: yes

Author(s)

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References

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

Examples

```
example(ggplot.dd)
example(ggplot.scmat)
example(ggplot.parcoords)
example(ggplot.timeseries)
```

addbrush *Add brush to plot...*

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)
```

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 *Load describe display...*

Description

Load describe display Retrieve output of from describe display plugin

Usage

```
dd_load(path)
```

Arguments

| | |
|------|-----------|
| path | file path |
|------|-----------|

Details

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..

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

ggplot.barplot

Create a nice plot for Bar Plots...

Description

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

Usage

```
ggplot.barplot(data, spine=FALSE, ...)
```

Arguments

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

Author(s)

Barret Schloerke <bigbear@iastate.edu>

Examples

```
print(ggplot(dd_example("barchart-species")))
```

`ggplot.dd`*Create a nice plot...*

Description

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

Usage

```
ggplot.dd(data, ...)
```

Arguments

| | |
|-------------------|---|
| <code>data</code> | plot to display, object created by <code>dd_load()</code> |
| <code>...</code> | not used |

Author(s)

Hadley Wickham <h.wickham@gmail.com>

Examples

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

`ggplot.ddplot`*Create a nice plot...*

Description

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

Usage

```
ggplot.ddplot(data, axis.location=c(0.2, 0.2), ...)
```

Arguments

| | |
|----------------------------|---|
| <code>data</code> | plot to display, object created by <code>dd_load()</code> |
| <code>axis.location</code> | grob function to use for drawing |
| <code>...</code> | arguments passed to the grob function |

Author(s)

Hadley Wickham <h.wickham@gmail.com>

Examples

```
print(ggplot(dd_example("tour2d")))
print(ggplot(dd_example("tour1d")))
print(ggplot(dd_example("tour2d-cube3")))
print(ggplot(dd_example("dot")))
print(ggplot(dd_example("dot-labels")))
print(ggplot(dd_example("xyplot")))
print(ggplot(dd_example("xyplot")) + opts(aspect.ratio = 1))
print(ggplot(dd_example("xyplot")) + xlab(NULL) + ylab(NULL))
print(ggplot(dd_example("ash")))
print(ggplot(dd_example("ash")) + geom_segment(aes(x=x, xend=x, y=0, yend=y), size=0.3))
```

ggplot.histogram *Create a nice plot for Histograms...*

Description

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

Usage

```
ggplot.histogram(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 <bigbear@iastate.edu>

Examples

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

ggplot.parcoords *Create a nice plot for parallel coordinates plot...*

Description

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

Usage

```
ggplot.parcoords(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 <bigbear@iastate.edu>

Examples

```
print(ggplot(dd_example("pcp")))
print(ggplot(dd_example("pcp-ash")))
print(ggplot(dd_example("pcp-ash"), edges = FALSE))
print(ggplot(dd_example("pcp-ash"), absoluteY = TRUE, edges = FALSE))
print(ggplot(dd_example("pcp-texture")))
print(ggplot(dd_example("pcp-texture"), edges =FALSE))
print(ggplot(dd_example("pcp-texture"), absoluteY=TRUE, edges =FALSE))
```

ggplot.scatmat *Create a nice plots in a scatter plot 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

```
ggplot.scatmat(data, ...)
```

Arguments

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

Author(s)

Barret Schloerke <bigbear@iastate.edu>

Examples

```
print(ggplot(dd_example("scattermat-small")))
print(ggplot(dd_example("scattermat")) + opts(aspect.ratio=1))
```

ggplot.timeseries *Create nice plots for a time series...*

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

```
ggplot.timeseries(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 <bigbear@iastate.edu>

Examples

```
print(ggplot(dd_example("pigs")))
print(ggplot(dd_example("pigs"), edges=TRUE))
```

| | |
|-------------|--------------------------|
| plot.ddplot | <i>Plot a dd plot...</i> |
|-------------|--------------------------|

Description

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

Usage

```
plot.ddplot(x, ..., axislocation=c(0.1, 0.1), axis.gp=gpar(col = "black"), background
```

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 |

Details

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

Author(s)

Hadley Wickham <h.wickham@gmail.com>

Examples

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

`removehiddens` *Remove hidden points...*

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...*

Description

Run All Examples Will run all examples within the package

Author(s)

Barret Schloerke bigbear@iastate.edu

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