

# 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.

**License** MIT + file LICENSE

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

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

**Imports** reshape2, ggplot2 (>= 3.4.1), plyr, scales, grid, GGally (>=  
2.1.2)

**Suggests** testthat

**RoxygenNote** 7.2.3

**Encoding** UTF-8

**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>
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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>

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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

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describdisplayreshape

*R interface to DescribeDisplay (GGobi plugin).*

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**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	<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()
...	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")))
```

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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()
...	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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ggplot.histogram	<i>Create a nice plot for Histograms Create a nice looking plot complete with axes using ggplot.</i>
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**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")))
```

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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
...	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")))
```

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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>
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**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>...</code>	(currently) unused arguments
<code>edges</code>	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))
```

---

<code>plot.ddplot</code>	<i>Plot a dd plot Convenient method to draw a single panel.</i>
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### 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,
  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]])
```

---

removehiddens

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

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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>

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zeeThemAll

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

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**Description**

Run All Examples Will run all examples within the package

**Usage**

zeeThemAll()

**Author(s)**

Barret Schloerke schloerke@gmail.com

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