Package 'ggborderline'

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https://wurli.github.io/ggborderline/
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Title Line Plots that Pop
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 Description A set of geometries to make line plots a little bit nicer. Use along with 'ggplot2' to: Improve the clarity of line plots with many overlapping lines Draw more realistic worms.
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draw_key_borderpath

Key glyphs for legends

Description

Key glyphs for legends

Usage

```
draw_key_borderpath(data, params, size)
```

Arguments

Value

A gTree object

GeomBorderpath

ggborderlines extensions to ggplot2

Description

ggborderlines makes use of the ggproto class system to extend the functionality of ggplot2. In general the actual classes should be of little interest to users as the standard ggplot2 api of using geom_* and stat_* functions for building up the plot is encouraged.

Usage

GeomBorderpath

GeomBorderline

GeomBorderstep

Format

An object of class GeomBorderpath (inherits from GeomPath, Geom, ggproto, gg) of length 4.

An object of class GeomBorderline (inherits from GeomBorderpath, GeomPath, Geom, ggproto, gg) of length 4.

An object of class GeomBorderstep (inherits from GeomBorderpath, GeomPath, Geom, ggproto, gg) of length 2.

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geom_borderpath

Connect observations

Description

This set of geoms is very similar to ggplot2::geom_path(), ggplot2::geom_line() and ggplot2::geom_step(), with the only difference being that they accept two additional aesthetics, bordercolour and bordersize. For additional documentation, please refer to the ggplot2 geoms.

Usage

```
geom_borderpath(
 mapping = NULL,
 data = NULL,
  stat = "identity",
 position = "identity",
 lineend = "butt",
 linejoin = "round",
  linemitre = 10,
  arrow = NULL,
  na.rm = FALSE,
  show.legend = NA,
  inherit.aes = TRUE
)
geom_borderline(
 mapping = NULL,
 data = NULL,
  stat = "identity",
 position = "identity",
 lineend = "butt",
 linejoin = "round",
  linemitre = 10,
  arrow = NULL,
  na.rm = FALSE,
  show.legend = NA,
  inherit.aes = TRUE
)
geom_borderstep(
 mapping = NULL,
  data = NULL,
  stat = "identity",
  position = "identity",
  direction = "hv",
```

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```
na.rm = FALSE,
show.legend = NA,
inherit.aes = TRUE,
...
)
```

Arguments

mapping Set of aesthetic mappings created by aes() or aes_(). If specified and inherit.aes

= TRUE (the default), it is combined with the default mapping at the top level of

the plot. You must supply mapping if there is no plot mapping.

data The data to be displayed in this layer. There are three options:

If NULL, the default, the data is inherited from the plot data as specified in the

call to ggplot().

A data.frame, or other object, will override the plot data. All objects will be fortified to produce a data frame. See fortify() for which variables will be

created.

A function will be called with a single argument, the plot data. The return

value must be a data.frame, and will be used as the layer data. A function

can be created from a formula (e.g. \sim head(.x,10)).

stat The statistical transformation to use on the data for this layer, as a string.

position Position adjustment, either as a string, or the result of a call to a position adjust-

ment function.

... Other arguments passed on to layer(). These are often aesthetics, used to set

an aesthetic to a fixed value, like colour = "red" or size = 3. They may also

be parameters to the paired geom/stat.

lineend Line end style (round, butt, square).

linejoin Line join style (round, mitre, bevel).

linemitre Line mitre limit (number greater than 1).

arrow Arrow specification, as created by grid::arrow().

na.rm If FALSE, the default, missing values are removed with a warning. If TRUE,

missing values are silently removed.

show. legend logical. Should this layer be included in the legends? NA, the default, includes if

any aesthetics are mapped. FALSE never includes, and TRUE always includes. It

can also be a named logical vector to finely select the aesthetics to display.

inherit.aes If FALSE, overrides the default aesthetics, rather than combining with them.

This is most useful for helper functions that define both data and aesthetics and shouldn't inherit behaviour from the default plot specification, e.g. borders().

direction direction of stairs: 'vh' for vertical then horizontal, 'hv' for horizontal then

vertical, or 'mid' for step half-way between adjacent x-values.

Value

A ggproto layer object

Examples

```
require(ggplot2)
# geom_borderline() adds a border around lines
ggplot(economics_long, aes(date, value01, colour = variable)) +
 geom_borderline()
# You can control the size and colour of the border with the
# bordersize and bordercolour aesthetics:
ggplot(economics_long, aes(date, value01, bordercolour = variable)) +
 geom_borderline(bordersize = .4, colour = "white")
# The background 'border' part of the geom is always solid, however this
# can be used to create some nice effects:
x <- seq(0, 4 * pi, length.out = 500)
test_data <- data.frame(</pre>
 x = rep(x, 2), y = c(sin(x), cos(x)),
 fun = rep(c("sin", "cos"), each = 500)
)
ggplot(test_data, aes(x, y, colour = fun)) +
 geom_borderline(size = 1, linetype = "dashed", lineend = "round")
```

scale_bordercolour_continuous

Scales for borderlines

Description

These scales control the size and colour of the borders in borderlines. They work in much the same way as ggplot2::scale_colour_continuous(), ggplot2::scale_size_discrete(), etc.

Usage

```
scale_bordercolour_continuous(..., aesthetics = "bordercolour")
scale_bordercolour_discrete(..., aesthetics = "bordercolour")
scale_bordersize_continuous(..., aesthetics = "bordersize")
scale_bordersize_discrete(..., aesthetics = "bordersize")
```

Arguments

Passed to the corresponding ggplot2 scales

aesthetics

Character string or vector of character strings listing the name(s) of the aesthetic(s) that this scale works with. This can be useful, for example, to apply colour settings to the bordercolour and colour aesthetics at the same time, via aesthetics = c("bordercolour", "colour").

Value

A ggproto scale object

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```