Package 'ggstream'

July 22, 2025

Title Create Streamplots in 'ggplot2'

Version 0.1.0

Description Make smoothed stacked area charts in 'ggplot2'. Stream plots are useful to show magnitude trends over time.

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Encoding UTF-8

LazyData true

Depends R (>= 3.6.0)

Imports ggplot2, purrr, dplyr, stats, magrittr, tidyr, forcats

RoxygenNote 7.1.1

Suggests testthat (>= 2.1.0)

NeedsCompilation no

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Repository CRAN

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Contents

blockbusters *Worldwide Blockbusters 2019-1977*

Description

The Worldwide Blockbusters 2019-1977 dataset provides information on the top ten highest grossing films worldwide between the years 2019 and 1977.

Usage

```
blockbusters
```

Format

A data frame with 430 rows and 4 variables:

year release year of blockbuster

genre genre of blockbuster title

box_office Sum of box office per genre and year, billion real dollars

Source

https://www.kaggle.com/narmelan/top-ten-blockbusters-20191977

geom_stream *geom_stream geom to create stream plots*

Description

geom_stream

geom to create stream plots

Usage

```
geom_stream(
  mapping = NULL,
  data = NULL,
  geom = "polygon",
  position = "identity",
  show.legend = NA,
  inherit.aes = TRUE,
  na.rm = TRUE,
  bw = 0.75,
  extra_span = 0.01,
  n_grid = 1000,
```

```
  method = c("new_wiggle"),
  center_fun = NULL,
  type = c("mirror", "ridge", "proportional"),
  true_range = c("both", "min_x", "max_x", "none"),
  sorting = c("none", "onset", "inside_out"),
  ...
)
```

Arguments

mapping	provide you own mapping. both x and y need to be numeric.
data	provide you own data
geom	change geom
position	change position
show.legend	show legend in plot
inherit.aes	should the geom inherits aesthetics
na.rm	remove missing values
bw	bandwidth of kernel density estimation
extra_span	How many extra range should be used in estimation? Percent of x range added to min and max.
n_grid	number of x points that should be calculated. The higher the more smooth plot.
method	Only ‘new wiggle‘ is implemented so far.
center_fun	a function that returns the y center for each possible x in range of x.
type	one of ‘mirror‘ which stacks symmetrically around the x axis, or ‘ridge‘ which stacks from the x-axis, or ‘proportional‘
true_range	should the true data range be used or the estimation range?
sorting	Should the groups be sorted. Either the default ’none’, ’onset’ or ’inside_out’
...	other arguments to be passed to the geom

Value

a ’ggplot’ layer

Examples

```
library(ggplot2)
set.seed(123)
 df <- data.frame(x = rep(1:10, 3),
                  y = rpois(30, 2),
                  group = sort(rep(c("A", "B", "C"), 10)))
ggplot(df, aes(x, y, fill = group, label = group)) +
  geom_stream()
```

geom_stream_label *geom_stream_label geom to create labels to a geom_stream plot*

Description

geom_stream_label

geom to create labels to a geom_stream plot

Usage

```
geom_stream_label(
  mapping = NULL,
  data = NULL,
  geom = "text",
  position = "identity",
  show.legend = NA,
  inherit.aes = TRUE,
  na.rm = TRUE,
  bw = 0.75,
  extra_span = 0.01,
  n_grid = 100,
  method = c("new_wiggle"),
  center_fun = NULL,
  type = c("mirror", "ridge", "proportional"),
  true_range = c("both", "min_x", "max_x", "none"),
  sorting = c("none", "onset", "inside_out"),
  ...
)
```

Arguments

mapping	provide you own mapping. both x and y need to be numeric.
data	provide you own data
geom	change geom
position	change position
show.legend	show legend in plot
inherit.aes	should the geom inherits aesthetics
na.rm	remove missing values
bw	bandwidth of kernel density estimation
extra_span	How many extra range should be used in estimation? Percent of x range added to min and max.
n_grid	number of x points that should be calculated. The higher the more smooth plot.
method	Only ‘new wiggle‘ is implemented so far.

center_fun	a function that returns the y center for each possible x in range of x.
type	one of ‘mirror‘ which stacks symmetrically around the x axis, or ‘ridge‘ which stacks from the x-axis, or ‘proportional‘.
true_range	should the true data range be used or the estimation range?
sorting	Should the groups be sorted. Either the default ’none’, ’onset’ or ’inside_out’
...	other arguments to be passed to the geom

Value

a ’ggplot’ layer

Examples

```
library(ggplot2)
set.seed(123)
 df <- data.frame(x = rep(1:10, 3),
                  y = rpois(30, 2),
                  group = sort(rep(c("A", "B", "C"), 10)))
ggplot(df, aes(x, y, fill = group, label = group)) +
  geom_stream() +
  geom_stream_label(n_grid = 100)
```

Index