Package: ggsankey (via r-universe)

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Type Package

Title Sankey, Alluvial and Sankey Bump Plots

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Description A package that makes it easy to implement sankey, alluvial and sankey bump plots in ggplot2.

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URL https://github.com/davidsjoberg/ggsankey

BugReports https://github.com/davidsjoberg/ggsankey/issues

Encoding UTF-8

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

RoxygenNote 7.3.0

Suggests testthat (>= 2.1.0)

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Contents

`geom_alluvial` *geom_alluvial*

Description

Creates an alluvial plot which visualize flows between nodes. Each observation needs to have a ‘x‘ aesthetic as well as a ‘next_x‘ column which declares where that observation should flow. Also each observation should have a ‘node‘ and a ‘next_node‘ aesthetic which provide information about which group in the y-direction.

Usage

```
geom_alluvial(
  mapping = NULL,
  data = NULL,
  position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  space = 0,
  width = 0.1,
  smooth = 8,
  inherit.aes = TRUE,
  ...
)
```

Arguments

`mapping`	provide you own mapping. both x and y need to be numeric.
`data`	provide you own data
`position`	change position
`na.rm`	remove missing values
`show.legend`	show legend in plot
`space`	space between nodes in the y-direction
`width`	width of nodes
`smooth`	how much smooth should the curve have? More means steeper curve.
`inherit.aes`	should the geom inherit aesthetics
`...`	other arguments to be passed to the geo

Value

ggplot layer

geom_alluvial_label *geom_alluvial_label*

Description

Creates centered labels or text in nodes of your alluvial plot. Needs to have the exact same aesthetics as the call to ‘geom_alluvial‘ to work.

Usage

```
geom_alluvial_text(
  mapping = NULL,
  data = NULL,
  position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  space = 0,
  width = 0.1,
  inherit.aes = TRUE,
  ...
)

geom_alluvial_label(
  mapping = NULL,
  data = NULL,
  position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  space = 0,
  width = 0.1,
  inherit.aes = TRUE,
  ...
)
```

Arguments

mapping	provide you own mapping. both x and y need to be numeric.
data	provide you own data
position	change position
na.rm	remove missing values
show.legend	show legend in plot
space	space between nodes in the y-direction
width	width of nodes
inherit.aes	should the geom inherit aesthetics
...	other arguments to be passed to the geo

Details

Other important arguments is; ‘space‘ which proves the space between nodes in the y-direction; ‘shift‘ which shifts nodes in the y-direction.

Value

ggplot layer

`geom_sankey` *geom_sankey*

Description

Creates a sankey plot which visualize flows between nodes. Each observation needs to have a ‘x‘ aesthetic as well as a ‘next_x‘ column which declares where that observation should flow. Also each observation should have a ‘node‘ and a ‘next_node‘ aesthetic which provide information about which group in the y-direction. By default each row of the data frame is counted to calculate the size of flows. A manual flow value can be added with the ‘value‘ aesthetic.

Usage

```
geom_sankey(
  mapping = NULL,
  data = NULL,
  position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  space = NULL,
  type = "sankey",
  width = 0.1,
  smooth = 8,
  inherit.aes = TRUE,
  ...
)
```

Arguments

`mapping`	provide you own mapping. both x and y need to be numeric.
`data`	provide you own data
`position`	change position
`na.rm`	remove missing values
`show.legend`	show legend in plot
`space`	space between nodes in the y-direction
`type`	either ’sankey’ or ’alluvial’
`width`	width of nodes

smooth	how much smooth should the curve have? More means steeper curve.
inherit.aes	should the geom inherit aesthetics
...	other arguments to be passed to the geom

Value

ggplot layer

Aesthetics

geom_sankey understand the following aesthetics (required aesthetics are in bold):

- **x0** - **y0** - **a** - **b** - **angle** - m1 - m2 - color - fill - size - linetype - alpha - lineend

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geom_sankey_bump *geom_sankey_bump*

Description

Creates an alluvial plot which visualize flows between nodes. Each observation needs to have a ‘x‘ aesthetic as well as a ‘next_x‘ column which declares where that observation should flow. Also each observation should have a ‘node‘ and a ‘next_node‘ aesthetic which provide information about which group in the y-direction.

Usage

```
geom_sankey_bump(
  mapping = NULL,
  data = NULL,
  position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  smooth = 8,
  type = "sankey",
  inherit.aes = TRUE,
  ...
)
```

Arguments

mapping	provide you own mapping. both x and y need to be numeric.
data	provide you own data
position	change position
na.rm	remove missing values
show.legend	show legend in plot

smooth	how much smooth should the curve have? More means steeper curve.
type	either 'sankey' or 'alluvial'
inherit.aes	should the geom inherit aesthetics
...	other arguments to be passed to the geo

Details

Other important arguments is; 'space' which proves the space between nodes in the y-direction; 'shift' which shifts nodes in the y-direction.

Value

ggplot layer

`geom_sankey_label` *geom_sankey_label*

Description

Creates centered labels or text in nodes of your sankey plot. Needs to have the exact same aesthetics as the call to 'geom_sankey' to work.

Usage

```
geom_sankey_label(
  mapping = NULL,
  data = NULL,
  position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  space = NULL,
  type = "sankey",
  width = 0.1,
  inherit.aes = TRUE,
  ...
)

geom_sankey_text(
  mapping = NULL,
  data = NULL,
  position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  space = NULL,
  type = "sankey",
  width = 0.1,
```

```
  inherit.aes = TRUE,
  ...
)
```

Arguments

mapping	provide you own mapping. both x and y need to be numeric.
data	provide you own data
position	change position
na.rm	remove missing values
show.legend	show legend in plot
space	space between nodes in the y-direction
type	Either ‘sankey‘ which centers around the x axis or ‘alluvial‘ which starts at y = 0 and moves upward.
width	width of nodes
inherit.aes	should the geom inherit aesthetics
...	other arguments to be passed to the geom

Value

ggplot layer

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make_long *make_long*

Description

Prepares a ’wide’ data frame into a format that ‘geom_sankey‘ or ‘geom_alluvial‘ understands. Useful to show flows between dimensions in dataset.

Usage

```
make_long(.df, ..., value = NULL)
```

Arguments

.df	a data frame
...	unquoted columnnames of df that you want to include in the plot.
value	if each row have a weight this weight could be kept by providing column name of weight.

Value

a longer data frame

theme_sankey *sankey_themes*

Description

Minimal themes for sankey, alluvial and sankey bump plots

Usage

```
theme_sankey(
  base_size = 11,
  base_family = "",
  base_line_size = base_size/22,
  base_rect_size = base_size/22
)

theme_alluvial(
  base_size = 11,
  base_family = "",
  base_line_size = base_size/22,
  base_rect_size = base_size/22
)

theme_sankey_bump(
  base_size = 11,
  base_family = "",
  base_line_size = base_size/22,
  base_rect_size = base_size/22
)
```

Arguments

base_size	base font size, given in pts.
base_family	base font family
base_line_size	base size for line elements
base_rect_size	base size for rect elements

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