Package: ggflowchart (via r-universe)

September 15, 2024

Title Flowcharts with 'ggplot2'

Version 1.0.0.9007

Description Flowcharts can be a useful way to visualise complex processes. This package uses the layered grammar of graphics of 'ggplot2' to create simple flowcharts.

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Encoding UTF-8

LazyData true

Depends R (>= 3.6)

Imports dplyr, igraph, ggplot2 (>= 3.4.0), purrr, rlang, tibble, tidyr

Suggests knitr, rcartocolor, rmarkdown, testthat (>= 3.0.0)

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

VignetteBuilder knitr

Config/Needs/website nrennie/nrenniepkgdown

URL https://nrennie.github.io/ggflowchart/

BugReports https://github.com/nrennie/ggflowchart/issues

Config/testthat/edition 3

Repository https://nrennie.r-universe.dev

RemoteUrl https://github.com/nrennie/ggflowchart

RemoteRef HEAD

RemoteSha ff34410c09ce928f64688a2bf68bfc2cb4e37364

Contents

ggflowchart *Generate a flowchart in ggplot2*

Description

Generates the flowchart

Usage

```
ggflowchart(
  data,
  node_data = NULL,
  layout = "tree",
  fill = "white",
  colour = "black",
  linewidth = 0.5,
  alpha = 1,
  text_colour = "black",
  text_size = 3.88,
  family = "sans",
  parse = FALSE,
  arrow_colour = "black",
  arrow_size = 0.3,
  arrow_linewidth = 0.5,
  arrow_linetype = "solid",
  arrow_label_fill = "white",
  x_nudge = 0.35,
  y_nudge = 0.25,
  horizontal = FALSE,
  color = NULL,
  text_color = NULL,
  arrow_color = NULL
)
```

Arguments

data	Data frame or tibble of edges. Must have two columns, first column are "from" node names, second column is "to" node names. Node names must be unique.
node_data	Data frame or tibble of node information. If not NULL, must have at least one column called "name" for node names to join by. Default NULL.
layout	One of c("tree", "custom"). If "tree" uses the tree layout from igraph. If "custom", then x and y columns must be provided in node_data specifying the coordinates of the centre of the boxes. Default "tree".
fill	Fill colour of nodes. Must be a valid colour name or hex code, or the name of a column in node_data (quoted or unquoted). Column names take priority over names of colours. Default "white".

colour	Outline colour of nodes. Must be a valid colour name or hex code. Default "black".
linewidth	Width of node outlines. Default 0.5.
alpha	Transparency of fill colour in nodes. Default 1.
text_colour	Colour of labels in nodes. Must be a valid colour name or hex code, or the name of a column in node_data (quoted or unquoted). Column names take priority over names of colours. Default "black".
text_size	Font size of labels in nodes. Default 3.88.
family	Font family for node labels. Default "sans".
parse	If TRUE, the labels will be parsed into expressions and displayed as described in ?plotmath. Default FALSE.
arrow_colour	Colour of arrows. Must be a valid colour name or hex code. Default "black".
arrow_size	Size of arrow head. Default 0.3.
arrow_linewidth	Linewidth of arrow lines. Default 0.5.
arrow_linetype	Linetype of arrow lines. Default "solid".
arrow_label_fill	Fill colour of arrow labels. Default "white".
x_nudge	Distance from centre of edge of node box in x direction. Ignored if x_nudge is a column in node_data. Default 0.35.
y_nudge	Distance from centre of edge of node box in y direction. Ignored if y_nudge is a column in node_data. Default 0.25.
horizontal	Boolean specifying if flowchart should go from left to right. Default FALSE.
color	Outline colour of nodes - overrides colour. Must be a valid colour name or hex code. Default NULL.
text_color	Colour of labels in nodes - overrides text_colour. Must be a valid colour name or hex code. Default NULL.
arrow_color	Colour of arrows - overrides arrow_colour. Must be a valid colour name or hex code. Default NULL.

Value

A ggplot2 object.

Examples

```
data <- tibble::tibble(from = c("A", "A", "A", "B", "C", "F"), to = c("B", "C", "D", "E", "F", "G"))
ggflowchart(data)
```

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