

Package ‘sankey’

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Title Illustrate the Flow of Information or Material
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make_sankey

Create an object that describes a sankey plot

Description

Create an object that describes a sankey plot

Usage

```
make_sankey(nodes = NULL, edges, y = c("optimal", "simple"),
            break_edges = FALSE, gravity = c("center", "top", "bottom"))
```

Arguments

nodes	A data frame of nodes on the plot, and possibly their visual style. The first column must be the ids of the nodes. If this argument is NULL, then the ids of the nodes are determined from edges.
edges	A data frame of the edges. The first two columns must be node ids, and they define the edges. The rest of the columns contain the visual style of the edges.
y	How to calculate vertical coordinates of nodes, if they are not given in the input. optimal tries to minimize edge crossings, simple simply packs nodes in the order they are given, from bottom to top.
break_edges	Whether to plot each edge as two segments, or a single one. Sometimes two segment plots look better.
gravity	Whether to push the nodes to the top, to the bottom or to the center, within a column.

Details

The node and edges data frames may contain columns that specify how the plot is created. All parameters have reasonable default values.

Current list of graphical parameters for nodes:

- col Node color.
- size Node size.
- x Horizontal coordinates of the center of the node.
- y Vertical coordinates of the center of the node.
- shape Shape of the node. Possible values: rectangle, point, invisible.
- lty Lite type, see par.
- srt How to rotate the label, see par.
- textcol Label color.
- label Label text. Defaults to node name.
- adjx Horizontal adjustment of the label. See adj in the par manual.

- `adjy` Vertical adjustment of the label. See `adj` in the `par` manual.
- `boxw` Width of the node boxes.
- `cex` Label size multiplication factor.
- `top` Vertical coordinate of the top of the node.
- `center` Vertical coordinate of the center of the node.
- `bottom` Vertical coordinate of the bottom of the node.
- `pos` Position of the text label, see `par`.
- `textx` Horizontal position of the text label.
- `texty` Vertical position of the text label.

Current list of graphical parameters for edges:

- `colorstyle` Whether to use a solid color (`col`), or gradient to plot the edges. The color of a gradient edges is between the colors of the nodes.
- `curvestyle` Edge style, `sin` for sinusoid curves, `line` for straight lines.
- `col` Edge color, for edges with solid colors.
- `weight` Edge weight. Determines the width of the edges.

Value

A sankey object that can be plotted via the `sankey` function.

Examples

```
## Function calls in the pkgsnap package:
edges <- read.table(stringsAsFactors = FALSE, textConnection(
"
      get_deps      get_description
      get_deps      parse_deps
      get_deps      %||%
      get_deps      drop_internal
get_description    pkg_from_filename
  parse_deps      str_trim
   cran_file      get_pkg_type
   cran_file      r_minor_version
download_urls split_pkg_names_versions
download_urls      cran_file
  pkg_download      dir_exists
  pkg_download      download_urls
  pkg_download      filename_from_url
  pkg_download      try_download
      restore      pkg_download
      restore      drop_missing_deps
      restore      install_order
      restore      get_deps
split_pkg_names_versions      data_frame
"))
pkgsnap_sankey <- make_sankey(edges = edges)
sankey(pkgsnap_sankey)
```

```
## Some customization
nodes <- data.frame(
  stringsAsFactors = FALSE,
  id = c("snap", sort(unique(c(edges[,1], edges[,2]))))
)
nodes$col <- ifelse(nodes$id %in% c("snap", "restore"), "orange", "#2ca25f")
edges$colorstyle <- "gradient"

sankey(make_sankey(nodes, edges))
```

sankey

Sankey Diagrams

Description

Sankey plots illustrate the flow of information or material.

Draw a sankey plot

Usage

```
## S3 method for class 'sankey'
plot(x, ...)

sankey(x, mar = c(0, 5, 0, 5) + 0.2, ...)
```

Arguments

x	The plot, created via make_sankey .
...	Additional arguments, ignored currently.
mar	Margin of the plot, see mar in the par manual.

Value

Nothing.

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