Package ‘sankey’

October 22, 2017

Title Illustrate the Flow of Information or Material
Version 1.0.2
Author Gábor Csárdi, January Weiner
Maintainer Gábor Csárdi <csardi.gabor@gmail.com>
Description Plots that illustrate the flow of information or material.
License GPL (>= 2)
LazyData true

URL https://github.com/gaborcsardi/sankey#readme

BugReports https://github.com/gaborcsardi/sankey/issues
Suggests covr, mockery, testthat
Imports simplegraph, utils, graphics, grDevices
RoxygenNote 6.0.1
Encoding UTF-8
NeedsCompilation no
Repository CRAN
Date/Publication 2017-10-22 16:45:58 UTC

R topics documented:

  make_sankey ......................................................... 2
  sankey ............................................................. 4

Index 5
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 Line 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

```r
## 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)
```

```r
## 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**

```r
## 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.
Index

make_sankey, 2, 4
plot.sankey (sankey), 4
sankey, 3, 4
sankey-package (sankey), 4