Package: PRISMA2020 (via r-universe)

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Title Make Interactive 'PRISMA' Flow Diagrams

Version 1.1.1

Description Systematic reviews should be described in a high degree of
methodological detail. The 'PRISMA' Statement calls for a high
level of reporting detail in systematic reviews and
meta-analyses. An integral part of the methodological
description of a review is a flow diagram. This package
produces an interactive flow diagram that conforms to the
'PRISMA2020' preprint. When made interactive, the reader/user
can click on each box and be directed to another website or
file online (e.g. a detailed description of the screening
methods, or a list of excluded full texts), with a mouse-over
tool tip that describes the information linked to in more
detail. Interactive versions can be saved as HTML files, whilst
static versions for inclusion in manuscripts can be saved as
HTML, PDF, PNG, SVG, PS or WEBP files.

Imports DiagrammeR, DiagrammeRsvg, htmltools, htmlwidgets, rsvg,
scales, shiny, shinyjs, stats, stringr, utils, xml2, webp, DT,
rio, tools, zip

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Encoding UTF-8

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NeedsCompilation no

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

RemoteUrl https://github.com/cran/PRISMA2020

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Contents

PRISMA_data   *Read in PRISMA flow diagram data*

Description

Read in a template CSV containing data for the flow diagram

Usage

```
PRISMA_data(data)
```

Arguments

data   File to read in.

Value

A list of objects needed to plot the flow diagram

Examples

```
csvFile <- system.file("extdata", "PRISMA.csv", package = "PRISMA2020")
data <- read.csv(csvFile);
data <- PRISMA_data(data);
```

| PRISMA_flowdiagram | *Plot interactive flow diagrams for systematic reviews* |

Description

Produces a PRISMA2020 style flow diagram for systematic reviews, with the option to add interactivity through tooltips (mouseover popups) and hyperlink URLs to each box. Data can be imported from the standard CSV template provided.

Usage

```
PRISMA_flowdiagram(
  data,
  interactive = FALSE,
  previous = TRUE,
  other = TRUE,
  detail_databases = FALSE,
  detail_registers = FALSE,
  fontsize = 7,
  font = "Helvetica",
  title_colour = "Goldenrod1",
  greybox_colour = "Gainsboro",
  main_colour = "Black",
  arrow_colour = "Black",
  arrow_head = "normal",
  arrow_tail = "none",
  side_boxes = TRUE
)
```

Arguments

data	List of data inputs including numbers of studies, box text, tooltips, and urls for hyperlinks. Data inputted via the PRISMA_data() function. If inputting individually, see the necessary parameters listed in the PRISMA_data() function and combine them in a list using data <- list().
interactive	Logical argument TRUE or FALSE whether to plot interactivity (tooltips and hyperlinked boxes).
previous	Logical argument (TRUE or FALSE) specifying whether previous studies were sought.
other	Logical argument (TRUE or FALSE) specifying whether other studies were sought.
detail_databases	
	Logical argument (TRUE or FALSE) specifying whether to list specific databases.
detail_registers	
	Logical argument (TRUE or FALSE) specifying whether to list specific registers.

fontsize	The font size for text in each box. The default is '12'.
font	The font for text in each box. The default is 'Helvetica'.
title_colour	The colour for the upper middle title box (new studies). The default is 'Goldenrod1'. See 'DiagrammeR' colour scheme. http://rich-iannone.github.io/DiagrammeR/graphviz_and_mermaid.html#colors.
greybox_colour	The colour for the left and right column boxes. The default is 'Gainsboro'. See 'DiagrammeR' colour scheme http://rich-iannone.github.io/DiagrammeR/graphviz_and_mermaid.html#colors.
main_colour	The colour for the main box borders. The default is 'Black'. See 'DiagrammeR' colour scheme http://rich-iannone.github.io/DiagrammeR/graphviz_and_mermaid.html#colors.
arrow_colour	The colour for the connecting lines. The default is 'Black'. See 'DiagrammeR' colour scheme http://rich-iannone.github.io/DiagrammeR/graphviz_and_mermaid.html#colors.
arrow_head	The head shape for the line connectors. The default is 'normal'. See DiagrammeR arrow shape specification http://rich-iannone.github.io/DiagrammeR/graphviz_and_mermaid.html#arrow-shapes. #nolint
arrow_tail	The tail shape for the line connectors. The default is 'none'. See DiagrammeR arrow shape specification http://rich-iannone.github.io/DiagrammeR/graphviz_and_mermaid.html#arrow-shapes. #nolint
side_boxes	Whether or not to include the blue label boxes along the side

Value

A flow diagram plot.

Examples

```
csvFile <- system.file("extdata", "PRISMA.csv", package = "PRISMA2020")
data <- read.csv(csvFile);
data <- PRISMA_data(data);
plot <- PRISMA_flowdiagram(data,
                fontsize = 12,
                interactive = TRUE,
                previous = FALSE,
                other = TRUE);
plot
```

PRISMA_save   *Save PRISMA2020 flow diagram*

Description

Save the output from PRISMA_flowdiagram() to the working directory.

Usage

```
PRISMA_save(
  plotobj,
  filename = "PRISMA2020_flowdiagram.html",
  filetype = NA,
  overwrite = FALSE
)
```

Arguments

plotobj   A plot produced using PRISMA_flowdiagram().

filename   The filename to save (including extension)

filetype   The filetype to save the plot in, supports: HTML, ZIP, PDF, PNG, SVG, PS and
              WEBP (if NA, the filetype will be calculated out based on the file extension)
              HTML files maintain hyperlinks and tooltips The ZIP option creates an archive
              containing the HTML file, alongside supporting javascript and css files in an
              adjacent folder, instead of embedded base64 within the HTML file

overwrite   if TRUE, will overwrite an existing file

Value

the absolute filename of the saved diagram plot.

Examples

```
csvFile <- system.file("extdata", "PRISMA.csv", package = "PRISMA2020")
data <- read.csv(csvFile);
data <- PRISMA_data(data);
plot <- PRISMA_flowdiagram(data,
                fontsize = 12,
                interactive = TRUE,
                previous = FALSE,
                other = TRUE);
PRISMA_save(plot, filename = tempfile(), filetype="html");
```

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read_PRISMAdata   *Defunct function - replaced by "PRISMA_data"*

Description

Defunct function - replaced by "PRISMA_data"

Usage

```
read_PRISMAdata(data)
```

Arguments

data   File to read in.

See Also

[PRISMA_data()](#)

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sr_flow_interactive   *Defunct function - replaced by "PRISMA_interactive_"*

Description

Defunct function - replaced by "PRISMA_interactive_"

Usage

```
sr_flow_interactive(plot, urls, previous, other)
```

Arguments

plot   A plot object from [PRISMA_flowdiagram()](#).

urls   A dataframe consisting of two columns: nodes and urls. The first column should
                contain 19 rows for the nodes from node1 to node19. The second column should
                contain a corresponding URL for each node.

previous   Logical argument (TRUE or FALSE) (supplied through [PRISMA_flowdiagram()](#))
                specifying whether previous studies were sought.

other   Logical argument (TRUE or FALSE) (supplied through [PRISMA_flowdiagram()](#))
                specifying whether other studies were sought.

See Also

[PRISMA_interactive_()](#)

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