Package 'PRISMA2020'

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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.
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PRISMA flowdiagram

Description

Read in a template CSV containing data for the flow diagram

Usage

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```
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);</pre>
```

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 regis-

ters.

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 'Gold-

enrod1'. 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.

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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

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
)
```

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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

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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