Package: PRISMA2020 (via r-universe)

July 3, 2026

Title Make Interactive 'PRISMA' Flow Diagrams

Version 1.1.4

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 cpp11, DiagrammeR, DiagrammeRsvg, dplyr, htmltools, htmlwidgets, progress, rmarkdown, rsvg, scales, shiny, shinyjs, stats, stringr, utils, xml2, webp, DT, rio, tools, zip

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URL https://github.com/prisma-flowdiagram/PRISMA2020

BugReports https://github.com/prisma-flowdiagram/PRISMA2020/issues

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Repository https://prisma-flowdiagram.r-universe.dev

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RemoteUrl https://github.com/prisma-flowdiagram/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,
  meta_analysis = 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.
meta_analysis	Logical argument (TRUE or FALSE) specifying whether to display a box for meta-analysis
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. https://rich-iannone.github.io/DiagrammeR/articles/graphviz-mermaid.html#colors.

greybox_colour	The colour for the left and right column boxes. The default is 'Gainsboro'. See 'DiagrammeR' colour scheme https://rich-iannone.github.io/DiagrammeR/articles/graphviz-mermaid.html#colors.
main_colour	The colour for the main box borders. The default is 'Black'. See 'DiagrammeR' colour scheme https://rich-iannone.github.io/DiagrammeR/articles/graphviz-mermaid.html#colors.
arrow_colour	The colour for the connecting lines. The default is 'Black'. See 'DiagrammeR' colour scheme https://rich-iannone.github.io/DiagrammeR/articles/graphviz-mermaid.html#colors.
arrow_head	The head shape for the line connectors. The default is 'normal'. See DiagrammeR arrow shape specification https://rich-iannone.github.io/DiagrammeR/articles/graphviz-mermaid.html#arrow-shapes. #nolint
arrow_tail	The tail shape for the line connectors. The default is 'none'. See DiagrammeR arrow shape specification https://rich-iannone.github.io/DiagrammeR/articles/graphviz-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,
```

```
  width = NULL,
  height = NULL,
  css = NULL
)
```

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
width	passed as the width argument to rsvg::rsvg() and similar functions
height	passed as the height argument to rsvg::rsvg() and similar functions
css	passed as the css argument to rsvg::rsvg() and similar functions

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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