Package ‘RTLknitr’

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Type Package
Title Right to Left Dynamic Documents Using 'knitr'
Version 1.0.0
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Description Provide seamless support for right-to-left (RTL) languages, such as Persian and Arabic, in R Markdown documents and 'LaTeX' output. It includes functions and hooks that enable easy integration of RTL language content, allowing users to create documents that adhere to RTL writing conventions. For in-depth insights into dynamic documents and the 'knitr' package, consider referring to Xie, Y (2014) <ISBN: 978-1-482-20353-0>.
License GPL (>= 2)
URL https://github.com/FoadEsmaeili5/RTLknitr
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Centering

Description

This function adds the "\centering" command to the caption of a LaTeX table, allowing the caption to be centered in the final output.

Usage

Centering(x)

Arguments

x LaTeX-formatted table with a caption.

Value

LaTeX-formatted table with a centered caption.

Examples

latex_table <- "\begin{table}\caption{This is a caption.}\end{table}"
centered_table <- Centering(latex_table)
print(centered_table)

hooks_rtl

Customize knitr Hooks for Right-to-Left (RTL) Text Formatting

Description

This function defines customized knitr hooks to handle RTL (right-to-left) text formatting for languages like Persian and Arabic for Sweave. It allows you to modify the appearance of output, messages, warnings, and errors when producing RTL documents.

Usage

hooks_rtl(fontcolor = "black", backcolor = "gray")

Arguments

fontcolor Font color for inline output. Default is "black".
backcolor Background color for inline output. Default is "gray".
markdown_rtl

Value

The function returns a list of customized knit_hooks that handle RTL text formatting. It modifies the output, messages, warnings, errors, inline expressions, and source code to include appropriate commands for RTL languages.

References


See Also

Use markdown_rtl to enable RTL formatting for Markdown documents.

Examples

# Define custom RTL hooks
rtl_hooks <- hooks rtl()

# Apply custom RTL hooks to `knit_hooks`
knitr::knit_hooks$set(rtl_hooks)

# After setting the hooks, knit your document as usual to produce RTL formatting.

markdown_rtl

Enable Right-to-Left (RTL) Formatting for Markdown Documents

Description

This function modifies the behavior of knitr output hooks to handle RTL (right-to-left) text formatting for Markdown documents, particularly for languages like Persian and Arabic.

Usage

markdown_rtl(...)

Arguments

... Additional arguments to be passed to the underlying knit_hooks$set function.

Details

The markdown_rtl function wraps the existing knit_hooks with custom commands that switch the text direction between Latin and Persian. It enhances the appearance of the output, messages, warnings, and errors in RTL languages.
markdown_rtl_header

Value

The function has no explicit return value. It modifies the behavior of knit_hooks for RTL formatting.

References


See Also

Use hooks_rtl for handling RTL formatting within code chunks.

Examples

# Enable RTL formatting for the current R Markdown document
markdown_rtl()

# After enabling RTL formatting, proceed to knit the R Markdown document as usual.
# The output and messages will be formatted for RTL languages.

markdown_rtl_header

Generate a YAML header for an R Markdown document with RTL support

Description

This function generates a YAML header for an R Markdown document that will produce a PDF output with support for Persian typesetting using the xepersian package and the Arial font.

Usage

markdown_rtl_header()

Value

A character string containing the YAML header.
remove_escape_latex  Remove Escaped LaTeX Formulas from Text

Description
This function removes escaped LaTeX formulas and formatting commands from LaTeX-formatted text.

Usage
remove_escape_latex(x)

Arguments
x  A character vector or string containing LaTeX-formatted text.

Value
A character vector with escaped LaTeX formulas and formatting commands removed.

Examples
# Remove escaped LaTeX formulas from a string
cleaned_text <- remove_escape_latex("\\textbf\{Hello\}, $\\alpha$ formula")
print(cleaned_text)

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tab_header_lbl  Create a Labeled Header for gt Tables

Description
This function enhances the gt package’s tab_header function by allowing the inclusion of a label for referencing the table in LaTeX documents.

Usage
tab_header_lbl(data, title, subtitle = NULL, label = NULL)

Arguments
data  A gt table object.
title  Title of the table.
subtitle  Subtitle of the table.
label  Label for referencing the table in LaTeX.
Details

Be sure to use this function at the end of `gt` format functions. This function returns a LaTeX-formatted table header.

Value

LaTeX-formatted table header.

Examples

```r
require(gt)
head(iris) |> gt() |> tab_header_lbl(title = "iris", label = "tab:iris") |> cat()
```
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