Package 'apa7'

September 10, 2025

Title Facilitate Writing Documents in American Psychological Association Style, Seventh Edition

Version 0.1.0

Description Create American Psychological Association Style, Seventh Edition documents. Format numbers and text consistent with APA style. Create tables that comply with APA style by extending flextable functions.

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URL https://github.com/wjschne/apa7, https://wjschne.github.io/apa7/

BugReports https://github.com/wjschne/apa7/issues

Depends R (>= 4.1.0)

Imports dplyr, effectsize, flextable, ftExtra, glue, parameters, performance, psych, purrr, rlang, S7, scales, shiny, signs, stringr, tibble, tidyr

Suggests bsicons, bslib, cli, conflicted, forcats, ggplot2, knitr, quarto, R.utils, rclipboard, readr, rmarkdown, shinyWidgets, snakecase, spelling, testthat (>= 3.0.0), tidyselect, tippy, toastui, yaml

VignetteBuilder knitr, quarto

Config/Needs/website quarto

Config/testthat/edition 3

Encoding UTF-8

Language en-US

RoxygenNote 7.3.2

NeedsCompilation no

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Repository CRAN

Date/Publication 2025-09-10 08:30:07 UTC

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add_break_columns

Add break columns

Description

Add break columns

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Usage

```
add_break_columns(
    d,
    ...,
    .before = FALSE,
    omit_first = FALSE,
    omit_last = FALSE
)
```

Arguments

d data.frame or tibble
... Column name or tidyselect function. Select columns
.before insert break columns before selected columns (defaults to FALSE)
omit_first omit the first break column
omit_last omit the last break column

Value

data.frame or tibble

Examples

add_list_column

Make a column into a list column

Description

Make a column into a list column

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Usage

```
add_list_column(data, ..., type = c("1", "a", "A", "I", "i"), sep = ". ")
```

Arguments

data.frame or tibble

... Column name or tidyselect function. Select columns. Default is first column

type list type. Can be "1" (numeric), "a" (lowercase alphabetical), or "ABC" (uppercase alphabetical), "i" (lowercase Roman numerals), "I" (uppercase Roman numerals)

sep separator

Value

data.frame

Examples

```
d <- data.frame(x = letters[1:5], y = letters[2:6])
# default is first column
add_list_column(d)
# select any column
add_list_column(d, y)
add_list_column(d, type = "a", sep = ") ") |>
apa_flextable()
```

add_star_column

Adds stars next to a column based on p-values

Description

Adds stars next to a column based on p-values

```
add_star_column(
   data,
   ...,
   p = "p",
   merge = FALSE,
   superscript = TRUE,
   star = "\\*",
   alpha = c(0.05, 0.01, 0.001),
   first_alpha_marginal = FALSE,
   add_trailing_space = FALSE,
   prefix = "\\"
)
```

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Arguments

data data.frame or tibble

... Column name or tidyselect function. Select columns

p Column name or tidyselect function. Select p-value column name

merge and balance columns (default: FALSE)

superscript make as superscript star text for making stars alpha vector of thresholds

first_alpha_marginal

if TRUE, the first alpha value is treated as marginal and gets a dagger instead of

a star

add_trailing_space

if TRUE, adds a trailing space after the stars (default: FALSE)

prefix usually backslashes to prevent markdown from interpreting asterisks as bullets

or italics

Value

data.frame

Examples

align_chr

Align text on center text (default is decimal)

Description

Align text on center text (default is decimal)

```
align_chr(
    x,
    accuracy = NULL,
    trim_leading_zeros = FALSE,
    drop@trailing = FALSE,
    add_plusses = FALSE,
    padding_character = NULL,
    center = ".",
    format_integers = FALSE,
    side = c("both", "left", "right"),
```

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```
NA_value = "",
format_numeric_character = FALSE,
...
)
```

Arguments

x vector (numeric or character)

accuracy number to round to. If NULL, the current default accuracy set with apa7_defaults()

will be used.

trim_leading_zeros

if TRUE (default), trims leading zeros, otherwise keeps them

drop@trailing Drop trailing zeros

add_plusses if TRUE (default), adds a plus to positive numbers

padding_character

character to use for padding, default is   (figure space)

center text on which to align text. Center on decimal by default, but can be any text.

format_integers

If TRUE, integers will be formatted with digits

side side on which to make text of equal width

NA_value value to replace NA

format_numeric_character

format character variables with numeric content

... additional arguments passed to signs::signs()

Value

character vector

Examples

```
align_chr(c(1, 10, 100))
```

apa7_defaults

Set defaults for apa7 package

Description

Set defaults for apa7 package

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Usage

```
apa7_defaults(
  accuracy = NULL,
  font_family = NULL,
  intercept_text = NULL,
  column_formats = NULL,
  number_formatter = NULL,
  trim_leading_zero = NULL,
  reset = FALSE
)
```

Arguments

Value

previous defaults

Examples

```
apa7_defaults(accuracy = .001)
# Reset to package defaults
apa7_defaults(reset = TRUE)
```

apa_chisq

Make contingency table with chi-square test of independence

Description

Make contingency table with chi-square test of independence

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Usage

```
apa_chisq(
  data,
  note = NULL,
  row_title_column = NULL,
  row_title_prefix = "",
  row_title_sep = " ",
  row_title_align = "center",
  row_title_border = list(color = "gray20", style = "solid", width = 1),
  left_column_padding = 20,
  cwidth = 0.75,
  cheight = 0.25,
  separate_headers = TRUE,
  apa_style = TRUE,
  font_family = NULL,
  font_size = 12,
  text_color = "black",
  border_color = "black",
  border_width = 0.5,
  line_spacing = 2,
  horizontal_padding = 3,
  table_align = "left",
  layout = "autofit",
  table_width = 1,
 markdown = TRUE,
 markdown_header = markdown,
 markdown_body = markdown,
 auto_format_columns = TRUE,
  column_formats = NULL,
  pretty_widths = TRUE,
  suppress_warnings = TRUE,
)
```

Arguments

```
data A two-column data.frame or tibble

note Custom note (overrides automatic note.)

row_title_column

Column name or tidyselect function. column to group rows

row_title_prefix

text to be added to each title

row_title_sep separator for prefix

row_title_align

alignment of row title ("left", "center", "right")

row_title_border

list of flextable styles
```

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left_column_padding

Number of points the left column is padded (only relevant when there is a

row_title_column and row_title_align = "left")

cwidth initial cell width in inches cheight initial cell height in inches

separate_headers

separate header rows (default: TRUE)

apa_style apply apa_style function (default: TRUE)

font_family font family
font_size font size
text_color text color
border_color border color

border_width border width in pixels
line_spacing spacing between lines

horizontal_padding

horizontal padding (in pixels)

table_align table alignment ("left", "center", "right")

layout table layout ("autofit", "fixed")
table_width table width (in pixels, 0 for auto)

markdown apply markdown formatting to header and body

markdown_header

apply markdown formatting to header

markdown_body apply markdown formatting to body

auto_format_columns

if true, will attempt to format some columns automatically

column_formats a column_formats object

pretty_widths apply pretty_widths function

suppress_warnings

Suppress any warnings if true.

... arguments passed to apa_style

Value

flextable::flextable

```
apa_chisq(mtcars[, c("am", "gear")])
```

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apa_cor

APA-formatted correlation table

Description

APA-formatted correlation table

Usage

```
apa_cor(
  data,
 note = NULL,
 p_{value} = c(0.05, 0.01, 0.001),
  digits = 2,
  bold_significant = FALSE,
  star_significant = TRUE,
  significance_note = TRUE,
  output = c("flextable", "tibble"),
  font_family = NULL,
  font_size = 12,
  text_color = "black",
  border_color = "black",
  border_width = 0.5,
  line\_spacing = 2,
  table_width = 6.5,
  keep_empty_star_columns = TRUE,
  summary_functions = list(M = mean, SD = stats::sd),
  column_formats = NULL,
)
```

Arguments

```
data.frame or tibble with variables to be
data
                  Custom note to appear below table. (Overrides automatic note.)
note
                  p-value needed to be flagged as significant
p_value
digits
                  Number of digits for rounding
bold_significant
                  bold significant correlations
star_significant
                  start significant correlations
significance_note
                  If TRUE, place note at bottom of table that significant correlations are bolded.
                  output type. Can be "flextable" or "tibble"
output
font_family
                  font family
```

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```
font_size
                 font size
text_color
                 text color
border_color
                 border color
border_width
                 border width in pixels
line_spacing
                 spacing between lines
table_width
                 table width (in pixels, 0 for auto)
keep_empty_star_columns
                  Keep remove empty star columns (Default: TRUE)
summary_functions
                 A named list of functions that summarize data columns (e.g., mean, sd)
column_formats column_formats object
                 <data-masking> parameters passed to psych::corTest
. . .
```

Value

flextable::flextable

Examples

```
apa_cor(mtcars[, c("mpg", "am", "gear", "carb")], output = "flextable")
apa_cor(mtcars[, c("mpg", "am", "gear", "carb")], output = "tibble")
```

apa_flextable

Convert data to flextable consistent with APA style

Description

The apa_flextable function performs a number of formatting operations on the data before and after the data are sent to flextable. See Details.

```
apa_flextable(
  data,
  row_title_column = NULL,
  row_title_align = "left",
  row_title_prefix = "",
  row_title_sep = " ",
  row_title_border = list(color = "gray20", style = "solid", width = 1),
  left_column_padding = 20,
  col_keys = colnames(data),
  cwidth = 0.75,
  cheight = 0.25,
  header_align_vertical = c("top", "middle", "bottom"),
  separate_headers = TRUE,
```

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```
apa_style = TRUE,
      font_family = NULL,
      font_size = 12,
      text_color = "black",
      border_color = "black",
      border_width = 0.5,
      line_spacing = 2,
      horizontal_padding = 3,
      table_align = "left",
      layout = "autofit",
      table_width = 1,
      markdown = TRUE,
      markdown_header = markdown,
      markdown_body = markdown,
      no_markdown_columns = NULL,
      no_markdown_columns_header = NULL,
      no_format_columns = NULL,
      auto_format_columns = TRUE,
      column_formats = NULL,
      pretty_widths = TRUE,
      add_breaks_between_spanners = TRUE,
    )
Arguments
    data
                     data.frame or tibble
    row_title_column
                     Column name or tidyselect function. column to group rows
    row_title_align
                     alignment of row title ("left", "center", "right")
    row_title_prefix
                     text to be added to each title
    row_title_sep
                     separator for prefix
    row_title_border
                     list of flextable styles
    left_column_padding
                     Number of points the left column is padded (only relevant when there is a
                     row_title_column and row_title_align = "left")
    col_keys
                     column keys passed to flextable (defaults data column names)
    cwidth
                     initial cell width in inches
    cheight
                     initial cell height in inches
    header_align_vertical
                     vertical alignment of headers. Can be "top", "middle", or "bottom"
    separate_headers
                     separate header rows (default: TRUE)
```

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```
apply apa_style function (default: TRUE)
apa_style
font_family
                 font family
font_size
                 font size
text_color
                 text color
border_color
                 border color
border_width
                 border width in pixels
line_spacing
                  spacing between lines
horizontal_padding
                 horizontal padding (in pixels)
table_align
                 table alignment ("left", "center", "right")
                 table layout ("autofit", "fixed")
layout
table_width
                 table width (in pixels, 0 for auto)
markdown
                 apply markdown formatting to header and body
markdown header
                 apply markdown formatting to header
markdown_body
                 apply markdown formatting to body
no_markdown_columns
                 body columns that should not be treated as markdown
no_markdown_columns_header
                 column headers that should not be treated as markdown
no_format_columns
                  Column name or tidyselect function. selected columns are not formatted
auto_format_columns
                 if true, will attempt to format some columns automatically
column_formats a column_formats object
pretty_widths
                 apply pretty_widths function
add_breaks_between_spanners
                 add breaks between spanners if TRUE
                 arguments passed to apa_style
. . .
```

Details

Roughly speaking, apa_flextable performs these operations by default:

- 1. Apply as_grouped_data and restructure row titles, if row_title is specified.
- 2. Format data with apa_format_columns if auto_format_columns = TRUE
- 3. Separate headers into multiple header rows if separate_headers = TRUE
- 4. Apply flextable::flextable
- 5. Apply flextable::surround to make borders to separate row groups, if any.
- Apply the apa_style function (table formatting and markdown conversion) if apa_style = TRUE
- 7. Apply pretty_widths if pretty_widths = TRUE

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Value

flextable::flextable

Examples

apa_format_columns

Format data columns

Description

Format data columns

Usage

```
apa_format_columns(
  data,
  column_formats = NULL,
  no_format_columns = NULL,
  rename_headers = TRUE,
  latex_headers = FALSE,
  format_separated_headers = TRUE,
  sep = "_",
  accuracy = NULL
)
```

Arguments

```
data set (data.frame or tibble)

column_formats

column_formats object. If NULL, the current default formatter set with apa7_defaults()

will be used.

no_format_columns

Column name or tidyselect function. selected columns are not formatted

rename_headers

if TRUE, rename headers with markdown or latex

latex_headers

if TRUE, rename headers with latex instead of markdown
```

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```
format_separated_headers
```

if TRUE, format headers with separated names. For example, if the formatter formats column R2 as *R*^2^, then Model 1_R2 becomes Model 1_*R*^2^)

separator for separated headers (default is "_") sep

numeric (default: NULL, uses the current default accuracy set with apa7_defaults()). accuracy

If not NULL, sets the accuracy for the formatter.

Value

tibble

Examples

```
lm(mpg ~ cyl + wt, data = mtcars) |>
 parameters::parameters() |>
 apa_format_columns() |>
 apa_flextable()
```

apa_loadings

print loadings

Description

print loadings

Usage

```
apa_loadings(
  fit,
  sort_loading = TRUE,
 min_loading = 0.2,
  column_formats = NULL,
  complexity = FALSE,
  uniqueness = FALSE
)
```

Arguments

fit model fit object

sort_loading sort table using psych::fa.sort

minimum loading to display min_loading

column_formats column_formats object to format columns. If NULL, the default column_formats

complexity print complexity column in factor analysis table print uniqueness column in factor analysis table uniqueness

16 apa_p

Value

tibble

apa_p

p-value in APA format

Description

```
p-value in APA format
```

Usage

```
apa_p(
   p,
   inline = FALSE,
   markdown = TRUE,
   min_digits = 2,
   max_digits = 3,
   align = FALSE
)
```

Arguments

p probability

inline If TRUE (default), returns statistic (e.g., e p = .04), otherwise just the number

(e.g., .04)

markdown By default, outputs text compatible with markdown if TRUE, otherwise prints

plain text compatible with latex.

min_digits minimum number of digits to round to. Default is 2.

max_digits maximum number of digits to round to. Default is 3.

align decimal alignment if TRUE

Value

character vector

```
# Values less than .001 are <.001 apa_p(.0002) 
# Values between .001 and .01 are rounded to 3 digits apa_p(.002) 
# Values between .01 and .995 are rounded to 2 digits apa_p(.02)#' apa_p(.22) apa_p(.994)
```

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```
# Values above .995 are >.99
apa_p(.999)
# Rounding to 3 digits
apa_p(.2341, min_digits = 3)
apa_p(.0123, min_digits = 3)
apa_p(.00123, min_digits = 3)
apa_p(.000123, min_digits = 3)
apa_p(.991, min_digits = 3)
apa_p(.9991, min_digits = 3)
apa_p(.9995, min_digits = 3)
```

apa_parameters

format model parameters in APA style

Description

format model parameters in APA style

```
apa_parameters(
 fit,
 predictor_parameters = c("Coefficient", "SE", "Std_Coefficient", "t", "df_error", "p"),
  starred = NULL,
 bolded = NULL,
 column_formats = NULL,
  t_with_df = TRUE
## S3 method for class 'lm'
apa_parameters(
  fit,
 predictor_parameters = c("Parameter", "Coefficient", "SE", "Std_Coefficient", "t",
    "df_error", "p"),
  starred = NA,
 bolded = NA,
 column_formats = NULL,
  t_with_df = TRUE
)
## S3 method for class 'list'
apa_parameters(
 fit,
 predictor_parameters = c("Parameter", "Coefficient", "SE", "Std_Coefficient", "t",
    "df_error", "p"),
  starred = NA,
 bolded = NA,
  column_formats = NULL,
```

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```
t_with_df = TRUE
)
```

Arguments

fit model fit object

predictor_parameters

predictor parameters to display. If named vector, column names will be vector

names

starred columns to star with significant p_values

bolded columns to bold, if significant

column_formats column_formats object to format columns. If NULL, the default column_formats

is used.

t_with_df if TRUE, the t column will be displayed with degrees of freedom in parentheses.

If FALSE, only the t value is displayed.

Value

tibble

Examples

```
lm(mpg ~ cyl + wt, data = mtcars) |>
  apa_parameters() |>
  apa_flextable()
```

apa_performance

format model performance metrics in APA style

Description

format model performance metrics in APA style

Usage

```
apa_performance(fit, metrics = c("R2", "Sigma"), column_formats = NULL)
## S3 method for class 'lm'
apa_performance(fit, metrics = c("R2", "Sigma"), column_formats = NULL)
```

Arguments

fit model fit object

metrics performance metrics. Default is R2 and Sigma

 $\verb|column_formats| column_formats| object to format columns. If NULL, the default column_formats|$

is used.

Value

tibble

Examples

```
lm(mpg ~ cyl + wt, data = mtcars) |>
  apa_performance() |>
  apa_flextable()
```

apa_performance_comparison

format model comparison metrics in APA style

Description

format model comparison metrics in APA style

Usage

```
apa_performance_comparison(
    ...,
    metrics = c("R2", "deltaR2", "F", "p"),
    starred = NA,
    column_formats = NULL
)
```

Arguments

```
... model fit objects
metrics performance metrics. Default is R2, deltaR2, F, and p
starred columns to star with significant p_values
column_formats object to format columns. If NULL, the default column_formats is used.
```

Value

tibble

```
m1 <- lm(mpg ~ cyl, data = mtcars)
m2 <- lm(mpg ~ cyl + wt, data = mtcars)
apa_performance_comparison(list(`Model 1` =m1, `Model 3` =m2)) |>
    apa_flextable()
```

20 apa_style

apa_p_star_note

Make star notes for p-values

Description

Make star notes for p-values

Usage

```
apa_p_star_note(x = c(0.05, 0.01, 0.001), first_alpha_marginal = FALSE)
```

Arguments

```
x vector of alpha values (p-value thresholds)

first_alpha_marginal

if TRUE, the first alpha value is treated as marginal and gets a dagger instead of a star
```

Value

character vector

Examples

```
apa_p\_star\_note() \\ apa_p\_star\_note(x = c(.10, .05, .01, .001), first\_alpha\_marginal = TRUE)
```

apa_style

Style flextable::flextable object according to APA style

Description

Style flextable::flextable object according to APA style

```
apa_style(
    x,
    font_family = NULL,
    font_size = 12,
    text_color = "black",
    border_color = "black",
    border_width = 0.5,
    line_spacing = 2,
    horizontal_padding = 3,
    table_align = "left",
```

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```
header_align_vertical = c("top", "middle", "bottom"),
layout = "autofit",
table_width = 0,
markdown = TRUE,
markdown_header = markdown,
markdown_body = markdown,
no_markdown_columns = NULL,
no_markdown_columns_header = no_markdown_columns,
separate_headers = TRUE
)
```

Arguments

```
object
font_family
                 font family
font_size
                 font size
text_color
                 text color
border_color
                 border color
border_width
                 border width in pixels
line_spacing
                  spacing between lines
horizontal_padding
                 horizontal padding (in pixels)
                 table alignment ("left", "center", "right")
table_align
header_align_vertical
                 vertical alignment of headers. Can be "top", "middle", or "bottom"
layout
                 table layout ("autofit", "fixed")
table_width
                 table width (in pixels, 0 for auto)
                 apply markdown formatting to header and body
markdown
markdown_header
                 apply markdown formatting to header
markdown_body
                 apply markdown formatting to body
no_markdown_columns
                 body columns that should not be treated as markdown
no_markdown_columns_header
                 column headers that should not be treated as markdown
separate_headers
                 separate headers into column spanner labels
```

Value

object

```
d <- data.frame(x = 1:3, y = 4:6)
flextable::flextable(d) |>
  apa_style()
```

22 column_format

-	
COLUMN	format
COTUIIII	I OI IIIa t

Column format class

Description

This class is used to define the format of columns in tables, including the name, header, latex representation, and a formatter function.

Usage

```
column_format(
  name = character(0),
  header = character(0),
  latex = character(0),
  formatter = function() NULL
)
```

Arguments

name name of column

header markdown representation of header name

latex latex representation of header name

formatter function that formats the column values. It should take a vector of values and

return a character vector of formatted values.

Value

column_format object

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column_formats

Create a set of column formats

Description

Returns an S7 object that contains a list of column_format objects that can be used to format parameters in APA style.

Usage

```
column_formats(
   .data = NULL,
   accuracy = NULL,
   intercept_text = NULL,
   starred_columns = character(0),
   variable_labels = character(0),
   custom_columns = NULL
)
```

Arguments

Value

column formats

Slots

```
get_column_names getter for column names
get_headers getter for column headers
get_latex getter for column latex headers
get_formatters getter for column formatters
get_header_rename getter for column names with headers as names
get_header_rename_latex getter for column names with latex headers as names
get_tibble getter for tibble with column names, headers, latex headers, and formatters
```

Examples

```
\label{eq:my_formatter} $$ my_formatter <- column_formats() $$ my_formatter$Coefficient@formatter <- \(x) round(x, 2) $$ my_formatter$Coefficient@formatter(2.214) $$
```

column_spanner_label Prepend column spanner labels to data column labels

Description

Prepend column spanner labels to data column labels

Usage

```
column_spanner_label(data, label, ..., relocate = TRUE)
```

Arguments

data	data.frame or tibble
label	character of column spanner
• • •	columns (i.e., one or more tidyselect functions and/or a vector of quoted or unquoted variable names)
relocate	relocate columns with same spanner label to be adjacent

Value

data.frame or tibble

```
d <- data.frame(y = 1:3, x1 = 2:4, x2 = 3:5)

# Unquoted variable names
column_spanner_label(d, "Label", c(x1, x2))
# Character values (quoted variable names)
column_spanner_label(d, "Label", c("x1", "x2"))
# Tidyselect function (e.g., starts_with, ends_with, contains)
column_spanner_label(d, "Label", dplyr::starts_with("x"))
# Tidyselect range
column_spanner_label(d, "Label", x1:x2)
# Selected variables are relocated after the first selected variable
column_spanner_label(d, "Label", c(x2, y))</pre>
```

hanging_indent 25

hanging_indent

Return markdown text with hanging indent

Description

Return markdown text with hanging indent

Usage

```
hanging_indent(
    x,
    indent = 4,
    width = 30,
    space = NULL,
    newline = "\\\\n",
    whitespace_only = FALSE,
    wrap_equal_width = FALSE
)
```

Arguments

```
x text
indent number of spaces to indent
width number of characters to break lines
space indenting space character (defaults to non-breaking space)
newline text for creating new line
whitespace_only
wrapping spaces only
wrap_equal_width
```

Attempts to split lines to make them of approximately equal width

Value

character vector

```
hanging_indent("Hello Darkness, my old friend. I've come to talk with you again.")
```

is_numeric_like

install_apaquarto	Installs the apaquarto extension.
III G GGII I GG	Tristerius tite dip diquidi. To entre itstorii.

Description

```
A wrapper for quarto::quarto_add_extension
```

Usage

```
install_apaquarto(no_prompt = FALSE, quiet = FALSE, quarto_args = NULL)
```

Arguments

no_prompt Do not prompt to confirm approval to download external extension.

quiet Suppress warning and other messages

mand executed by this function.

Value

installs the apaquarto Quarto extension

Examples

```
## Not run:
install_apaquarto()
## End(Not run)
```

is_numeric_like

Tests if a character vector contains numeric-like values

Description

Tests if a character vector contains numeric-like values

Usage

```
is_numeric_like(x, elementwise = FALSE)
```

Arguments

x character vector

elementwise if TRUE, returns a logical vector for each element, otherwise returns a single

logical value indicating if all elements are numeric-like (default: FALSE)

make_apaquarto 27

Value

logical vector

Examples

```
is_numeric_like(c("-9", " 2.0", "-1.0 "))
is_numeric_like(c("9-", -1, "10"))
is_numeric_like(c("9", -1.2, "10"))
```

make_apaquarto

Run shiny app to make a document in APA style via Quarto

Description

 $A \ wrapper \ for \ shiny:: \verb"runGitHub"$

Usage

```
make_apaquarto(launch.browser = TRUE)
```

Arguments

launch.browser run shiny app in default browser

Value

Runs a shiny app that creates apaquarto documents

```
## Not run:
make_apaquarto()
## End(Not run)
```

p2stars

num_pad

Pads text on the left or right so that the width is the same for each element of the vector

Description

Pads text on the left or right so that the width is the same for each element of the vector

Usage

```
num_pad(x, pad_left = TRUE, padding_character = " ", NA_value = "")
```

Arguments

Value

character vector

Examples

```
num_pad(c("a", "bb"))
```

p2stars

Convert p-values to stars

Description

Convert p-values to stars

```
p2stars(
   p,
   alpha = c(0.05, 0.01, 0.001),
   first_alpha_marginal = FALSE,
   superscript = FALSE,
   add_trailing_space = FALSE,
   prefix = "\\"
)
```

pivot_wider_name_first 29

Arguments

Value

character vector

Examples

A wrapper for tidyr::pivot_wider that creates columns names as name_variable instead of variable_name

Description

The default for names_vary is "slowest" instead of the usual "fastest".

```
pivot_wider_name_first(
    data,
    ...,
    id_cols = NULL,
    id_expand = FALSE,
    names_from = name,
    names_prefix = "",
    names_sep = "_",
    names_sort = FALSE,
    names_vary = "slowest",
    names_expand = FALSE,
    names_repair = "check_unique",
    values_from = value,
    values_fill = NULL,
```

```
values_fn = NULL,
 unused_fn = NULL
)
```

Arguments

data A data frame to pivot.

Additional arguments passed on to methods.

id_cols <tidy-select> A set of columns that uniquely identify each observation. Typ-

ically used when you have redundant variables, i.e. variables whose values are

perfectly correlated with existing variables.

Defaults to all columns in data except for the columns specified through names_from and values_from. If a tidyselect expression is supplied, it will be evaluated on data after removing the columns specified through names_from and values_from.

id_expand Should the values in the id_cols columns be expanded by expand() before piv-

oting? This results in more rows, the output will contain a complete expansion of all possible values in id_cols. Implicit factor levels that aren't represented in the data will become explicit. Additionally, the row values corresponding to

the expanded id_cols will be sorted.

names_from, values_from

<tidy-select> A pair of arguments describing which column (or columns) to get the name of the output column (names_from), and which column (or columns) to get the cell values from (values_from).

If values_from contains multiple values, the value will be added to the front of the output column.

String added to the start of every variable name. This is particularly useful names_prefix

if names_from is a numeric vector and you want to create syntactic variable

names.

If names_from or values_from contains multiple variables, this will be used to names_sep

join their values together into a single string to use as a column name.

Should the column names be sorted? If FALSE, the default, column names are names sort

ordered by first appearance.

This is the default.

When names_from identifies a column (or columns) with multiple unique valnames_vary ues, and multiple values_from columns are provided, in what order should the

resulting column names be combined?

• "fastest" varies names_from values fastest, resulting in a column naming scheme of the form: value1_name1, value1_name2, value2_name1, value2_name2.

• "slowest" varies names_from values slowest, resulting in a column naming scheme of the form: value1_name1, value2_name1, value1_name2, value2_name2.

names_expand

Should the values in the names_from columns be expanded by expand() before pivoting? This results in more columns, the output will contain column names corresponding to a complete expansion of all possible values in names_from. Implicit factor levels that aren't represented in the data will become explicit. Additionally, the column names will be sorted, identical to what names_sort would produce.

pretty_widths 31

names_repair

What happens if the output has invalid column names? The default, "check_unique" is to error if the columns are duplicated. Use "minimal" to allow duplicates in the output, or "unique" to de-duplicated by adding numeric suffixes. See vctrs::vec_as_names() for more options.

values_fill

Optionally, a (scalar) value that specifies what each value should be filled in with when missing.

This can be a named list if you want to apply different fill values to different value columns.

values_fn

Optionally, a function applied to the value in each cell in the output. You will typically use this when the combination of id_cols and names_from columns does not uniquely identify an observation.

This can be a named list if you want to apply different aggregations to different values_from columns.

unused_fn

Optionally, a function applied to summarize the values from the unused columns (i.e. columns not identified by id_cols, names_from, or values_from).

The default drops all unused columns from the result.

This can be a named list if you want to apply different aggregations to different unused columns.

id_cols must be supplied for unused_fn to be useful, since otherwise all unspecified columns will be considered id_cols.

This is similar to grouping by the id_cols then summarizing the unused columns using unused_fn.

Value

data.frame

pretty_widths

Use flextable::dim_pretty to fit column widths

Description

Use flextable::dim_pretty to fit column widths

```
pretty_widths(
    x,
    min_width = 0.05,
    unit = c("in", "cm", "mm"),
    table_width = 6.5
)
```

32 separate_star_column

Arguments

x flextable

min_width minimum width of columns

unit Can be in, cm, or mm

table_width width of table

Value

flextable::flextable

separate_star_column A

Add columns that separate significance stars from numbers

Description

Add columns that separate significance stars from numbers

Usage

```
separate_star_column(
  data,
    ...,
  superscript = TRUE,
  star = "\\*",
  star_replace = "\\\*")
```

Arguments

data data.frame or tibble

... Column name or tidyselect function. Select columns

superscript make stars superscript

star character to use for stars (default: "*")
star_replace character to replace stars with (default: "*")

Value

data.frame or tibble

star_balance 33

star_balance

Prefix text with figure spaces to balance star text

Description

Prefix text with figure spaces to balance star text

Usage

```
star_balance(x, star = "\x", superscript = TRUE)
```

Arguments

x character vector

star star text

superscript Place superscript text if TRUE

Value

character vector

Examples

```
star_balance(".05\\^\\*\\*")
```

str_wrap_equal

Like stringr::str_wrap, but attempts to create lines of equal width

Description

Like stringr::str_wrap, but attempts to create lines of equal width

Usage

```
str_wrap_equal(x, max_width = 30L, sep = "\n")
```

Arguments

x character

max_width maximum line width sep separation character

Value

character

34 tagger

Examples

str_wrap_equal("This function attempts to split the string into lines with roughly equal width.")

tagger

Surrounds text with tags unless empty

Description

Surrounds text with tags unless empty

Usage

```
tagger(x, tag = "<span>", right_tag = gsub("^<", "</", tag))
bold_md(x)
italic_md(x)
superscript_md(x)
subscript_md(x)
header_md(x, level = 1)</pre>
```

Arguments

x character vector

tag opening tag, e.g.,

right_tag closing tag, e.g., . Defaults to the same value as the opening tag.

level heading level

Value

character vector

```
x <- c("hello", "", NA)
tagger(x, "<span>")
bold_md(x)
italic_md(x)
superscript_md(x)
subscript_md(x)
header_md("Level 1")
header_md("Level 2", 2)
```

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```