

Package ‘supportR’

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Type Package

Title Support Functions for Wrangling and Visualization

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Maintainer Nicholas J Lyon <nickjlyon@gmail.com>

Description Suite of helper functions for data wrangling and visualization.

The only theme for these functions is that they tend towards simple, short, and narrowly-scoped. These functions are built for tasks that often recur but are not large enough in scope to warrant an ecosystem of interdependent functions.

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<https://njlyon0.github.io/supportR/>

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Author Nicholas J Lyon [aut, cre, cph] (ORCID:
<<https://orcid.org/0000-0003-3905-1078>>)

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array_melt	<i>Melt an Array into a Dataframe</i>
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Description

Melts an array of dimensions x, y, and z into a dataframe containing columns x, y, z, and value where value is whatever was stored in the array at those coordinates.

Usage

```
array_melt(array = NULL)
```

Arguments

array (array) array object to melt into a dataframe

Value

(dataframe) object containing the "flattened" array in dataframe format

Examples

```
# First we need to create an array to melt
## Make data to fill the array
vec1 <- c(5, 9, 3)
vec2 <- c(10:15)

## Create dimension names (x = col, y = row, z = which matrix)
x_vals <- c("Col_1", "Col_2", "Col_3")
y_vals <- c("Row_1", "Row_2", "Row_3")
z_vals <- c("Mat_1", "Mat_2")

## Make an array from these components
g <- array(data = c(vec1, vec2), dim = c(3, 3, 2),
           dimnames = list(x_vals, y_vals, z_vals))

## "Melt" the array into a dataframe
supportR::array_melt(array = g)
```

count

*Count Occurrences of Unique Vector Elements***Description**

Counts the number of occurrences of each element in the provided vector. Counting of NAs in addition to non-NA values is supported.

Usage

```
count(vec = NULL)
```

Arguments

vec (vector) vector containing elements to count

Value

(dataframe) two-column dataframe with as many rows as there are unique elements in the provided vector. First column is named "value" and includes the unique elements of the vector, second column is named "count" and includes the number of occurrences of each vector element.

Examples

```
# Count instances of vector elements
supportR::count(vec = c(1, 1, NA, "a", 1, "a", NA, "x"))
```

count_diff

*Count Difference in Occurrences of Vector Elements***Description**

Counts the number of occurrences of each element in both provided vectors and then calculates the difference in that count between the first and second input vector. Counting of NAs in addition to non-NA values is supported.

Usage

```
count_diff(vec1, vec2, what = NULL)
```

Arguments

vec1	(vector) first vector containing elements to count
vec2	(vector) second vector containing elements to count
what	(vector) optional argument for what element(s) to count. If left NULL, defaults to all unique elements found in either vector

Value

(dataframe) four-column dataframe with as many rows as there are unique elements across both specified vectors or as the number of elements passed to 'what'. First column is named "value" and includes the unique elements of the vector, second and third columns are named "vec1_count" and "vec2_count" respectively and include the number of occurrences of each vector element in each vector. Final column is "diff" and the difference in the count of each element between the first and second input vectors

Examples

```
# Define two vectors
x1 <- c(1, 1, NA, "a", 1, "a", NA, "x")
x2 <- c(1, "a", "x", "b")

# Count difference in number of NAs between the two vectors
supportR::count_diff(vec1 = x1, vec2 = x2, what = NA)

# Count difference in all values between the two
supportR::count_diff(vec1 = x1, vec2 = x2)
```

crop_tri	<i>Crop a Triangle from Data Object</i>
----------	---

Description

Accepts a symmetric data object and replaces the chosen triangle with NAs. Also allows user to choose whether to keep or drop the diagonal of the data object

Usage

```
crop_tri(data = NULL, drop_tri = "upper", drop_diag = FALSE)
```

Arguments

data	(dataframe, dataframe-like, or matrix) symmetric data object to remove one of the triangles from
drop_tri	(character) which triangle to replace with NAs, either "upper" or "lower"
drop_diag	(logical) whether to drop the diagonal of the data object (defaults to FALSE)

Value

(dataframe or dataframe-like) data object with desired triangle removed and either with or without the diagonal

Examples

```
# Define a simple matrix with symmetric dimensions
mat <- matrix(data = c(1:2, 2:1), nrow = 2, ncol = 2)

# Crop off it's lower triangle
supportR::crop_tri(data = mat, drop_tri = "lower", drop_diag = FALSE)
```

date_check	<i>Check Columns for Non-Dates</i>
------------	------------------------------------

Description

Identifies any elements in the column(s) that would be changed to NA if as.Date is used on the column(s). This is useful for quickly identifying only the "problem" entries of ostensibly date column(s) that is/are read in as a character.

Usage

```
date_check(data = NULL, col = NULL)
```

Arguments

`data` (dataframe) object containing at least one column of supposed dates

`col` (character or numeric) name(s) or column number(s) of the column(s) containing putative dates in the data object

Value

(list) malformed dates from each supplied column in separate list elements

Examples

```
# Make a dataframe to test the function
loc <- c("LTR", "GIL", "PYN", "RIN")
time <- c("2021-01-01", "2021-01-0w", "1990", "2020-10-xx")
time2 <- c("1880-08-08", "2021-01-02", "1992", "2049-11-01")
time3 <- c("2022-10-31", "tomorrow", "1993", NA)

# Assemble our vectors into a dataframe
sites <- data.frame("site" = loc, "first_visit" = time, "second" = time2, "third" = time3)

# Use `date_check()` to return only the entries that would be lost
supportR::date_check(data = sites, col = c("first_visit", "second", "third"))
```

date_format_guess	<i>Identify Probable Format for Ambiguous Date Formats</i>
-------------------	--

Description

In a column containing multiple date formats (e.g., MM/DD/YYYY, "YYYY/MM/DD, etc.) identifies probable format of each date. Provision of a grouping column improves inference. Any formats that cannot be determined are flagged as "FORMAT UNCERTAIN" for human double-checking. This is useful for quickly sorting the bulk of ambiguous dates into clear categories for later conditional wrangling.

Usage

```
date_format_guess(
  data = NULL,
  date_col = NULL,
  groups = TRUE,
  group_col = NULL,
  return = "dataframe",
  quiet = FALSE
)
```

Arguments

data	(dataframe) object containing at least one column of ambiguous dates
date_col	(character) name of column containing ambiguous dates
groups	(logical) whether groups exist in the dataframe / should be used (defaults to TRUE)
group_col	(character) name of column containing grouping variable
return	(character) either "dataframe" or "vector" depending on whether the user wants the date format "guesses" returned as a new column on the dataframe or a vector
quiet	(logical) whether certain optional messages should be displayed (defaults to FALSE)

Value

(dataframe or character) object containing date format guesses

Examples

```
# Create dataframe of example ambiguous dates & grouping variable
my_df <- data.frame('data_enterer' = c('person A', 'person B',
                                       'person B', 'person B',
                                       'person C', 'person D',
                                       'person E', 'person F',
                                       'person G'),
                    'bad_dates' = c('2022.13.08', '2021/2/02',
                                    '2021/2/03', '2021/2/04',
                                    '1899/1/15', '10-31-1901',
                                    '26/11/1901', '08.11.2004',
                                    '6/10/02'))

# Now we can invoke the function!
supportR::date_format_guess(data = my_df, date_col = "bad_dates",
                           group_col = "data_enterer", return = "dataframe")

# If preferred, do it without groups and return a vector
supportR::date_format_guess(data = my_df, date_col = "bad_dates",
                           groups = FALSE, return = "vector")
```

diff_check

*Compare Difference Between Two Vectors***Description**

Reflexively compares two vectors and identifies (1) elements that are found in the first but not the second (i.e., "lost" components) and (2) elements that are found in the second but not the first (i.e., "gained" components). This is particularly helpful when manipulating a dataframe and comparing what columns are lost or gained between wrangling steps. Alternately it can compare the contents of two columns to see how two dataframes differ.

Usage

```
diff_check(old = NULL, new = NULL, sort = TRUE, return = FALSE)
```

Arguments

old (vector) starting / original object
 new (vector) ending / modified object
 sort (logical) whether to sort the difference between the two vectors
 return (logical) whether to return the two vectors as a 2-element list

Value

No return value (unless return = TRUE), called for side effects. If return = TRUE, returns a two-element list

Examples

```
# Make two vectors
vec1 <- c("x", "a", "b")
vec2 <- c("y", "z", "a")

# Compare them!
supportR::diff_check(old = vec1, new = vec2, return = FALSE)

# Return the difference for later use
diff_out <- supportR::diff_check(old = vec1, new = vec2, return = TRUE)
diff_out
```

force_num	<i>Force Coerce to Numeric</i>
-----------	--------------------------------

Description

Coerces a vector into a numeric vector and automatically silences NAs introduced by coercion warning. Useful for cases where non-numbers are known to exist in vector and their coercion to NA is expected / unremarkable. Essentially just a way of forcing this coercion more succinctly than wrapping as.numeric in suppressWarnings.

Usage

```
force_num(x = NULL)
```

Arguments

x (non-numeric) vector containing elements to be coerced into class numeric

Value

(numeric) vector of numeric values

Examples

```
# Coerce a character vector to numeric without throwing a warning
supportR::force_num(x = c(2, "A", 4))
```

github_ls

List Objects in a GitHub Repository

Description

Accepts a GitHub repository URL and identifies all files in the specified folder. If no folder is specified, lists top-level repository contents. Recursive listing of sub-folders is supported by an additional argument. This function only works on repositories (public or private) to which you have access.

Usage

```
github_ls(repo = NULL, folder = NULL, recursive = TRUE, quiet = FALSE)
```

Arguments

repo	(character) full URL for a GitHub repository (including "github.com")
folder	(NULL/character) either NULL or the name of the folder to list. If NULL, the top-level contents of the repository will be listed
recursive	(logical) whether to recursively list contents (i.e., list contents of sub-folders identified within previously identified sub-folders)
quiet	(logical) whether to print an informative message as the contents of each folder is being listed

Value

(dataframe) three-column dataframe including (1) the names of the contents, (2) the type of each content item (e.g., file/directory/etc.), and (3) the full path from the starting folder to each item

Examples

```
## Not run:
# List complete contents of the `supportR` package repository
supportR::github_ls(repo = "https://github.com/njlyon0/supportR", recursive = TRUE, quiet = FALSE)

## End(Not run)
```

github_ls_single	<i>List Objects in a Single Folder of a GitHub Repository</i>
------------------	---

Description

Accepts a GitHub repository URL and identifies all files in the specified folder. If no folder is specified, lists top-level repository contents. This function only works on repositories (public or private) to which you have access.

Usage

```
github_ls_single(repo = NULL, folder = NULL)
```

Arguments

repo	(character) full URL for a GitHub repository (including "github.com")
folder	(NULL/character) either NULL or the name of the folder to list. If NULL, the top-level contents of the repository will be listed

Value

(dataframe) two-column dataframe including (1) the names of the contents and (2) the type of each content item (e.g., file/directory/etc.)

Examples

```
## Not run:
# List contents of the top-level of the `supportR` package repository
supportR::github_ls_single(repo = "https://github.com/njlyon0/supportR")

## End(Not run)
```

github_tree	<i>Create File Tree of a GitHub Repository</i>
-------------	--

Description

Recursively identifies all files in a GitHub repository and creates a file tree using the `data.tree` package to create a simple, human-readable visualization of the folder hierarchy. Folders can be specified for exclusion in which case the number of elements within them is listed but not the names of those objects. This function only works on repositories (public or private) to which you have access.

Usage

```
github_tree(repo = NULL, exclude = NULL, quiet = FALSE)
```

Arguments

repo	(character) full URL for a github repository (including "github.com")
exclude	(character) vector of folder names to exclude from the file tree. If NULL (the default) no folders are excluded
quiet	(logical) whether to print an informative message as the contents of each folder is being listed and as the tree is prepared from that information

Value

(node / R6) data.tree package object class

Examples

```
## Not run:
# Create a file tree for the `supportR` package GitHub repository
supportR::github_tree(repo = "github.com/njlyon0/supportR", exclude = c("man", "docs", ".github"))

## End(Not run)
```

name_vec

*Create Named Vector***Description**

Create a named vector in a single line without either manually defining names at the outset (e.g., `c("name_1" = 1, "name_2" = 2, ...)`) or spending a second line to assign names to an existing vector (e.g., `names(vec) <- c("name_1", "name_2", ...)`). Useful in cases where you need a named vector within a pipe and don't want to break into two pipes just to define a named vector (see `tidyr::separate_wider_position`)

Usage

```
name_vec(content = NULL, name = NULL)
```

Arguments

content	(vector) content of vector
name	(vector) names to assign to vector (must be in same order)

Value

(named vector) vector with contents from the content argument and names from the name argument

Examples

```
# Create a named vector
supportR::name_vec(content = 1:10, name = paste0("text_", 1:10))
```

nms_ord	<i>Publication-Quality Non-metric Multi-dimensional Scaling (NMS) Ordinations</i>
---------	---

Description

[Superseded]

This function has been superseded by `ordination` because this is just a special case of that function. Additionally, `ordination` provides users much more control over the internal graphics functions used to create the fundamental elements of the graph

Produces Non-Metric Multi-dimensional Scaling (NMS) ordinations for up to 10 groups. Assigns a unique color for each group and draws an ellipse around the standard deviation of the points. Automatically adds stress (see `vegan::metaMDS` for explanation of "stress") as legend title. Because there are only five hollow shapes (see `?graphics::pch()`) all shapes are re-used a maximum of 2 times when more than 5 groups are supplied.

Usage

```
nms_ord(
  mod = NULL,
  groupcol = NULL,
  title = NA,
  colors = c("#41b6c4", "#c51b7d", "#7fbc41", "#d73027", "#4575b4", "#e08214", "#8073ac",
    "#f1b6da", "#b8e186", "#8c96c6"),
  shapes = rep(x = 21:25, times = 2),
  lines = rep(x = 1, times = 10),
  pt_size = 1.5,
  pt_alpha = 1,
  lab_text_size = 1.25,
  axis_text_size = 1,
  leg_pos = "bottomleft",
  leg_cont = unique(groupcol)
)
```

Arguments

<code>mod</code>	(metaMDS/monoMDS) object returned by <code>vegan::metaMDS</code>
<code>groupcol</code>	(dataframe) column specification in the data that includes the groups (accepts either bracket or \$ notation)
<code>title</code>	(character) string to use as title for plot
<code>colors</code>	(character) vector of colors (as hexadecimal codes) of length $\geq$ group levels (default <i>not</i> colorblind safe because of need for 10 built-in unique colors)
<code>shapes</code>	(numeric) vector of shapes (as values accepted by <code>pch</code>) of length $\geq$ group levels
<code>lines</code>	(numeric) vector of line types (as integers) of length $\geq$ group levels
<code>pt_size</code>	(numeric) value for point size (controlled by character expansion i.e., <code>cex</code>)

pt_alpha	(numeric) value for transparency of points (ranges from 0 to 1)
lab_text_size	(numeric) value for axis label text size
axis_text_size	(numeric) value for axis tick text size
leg_pos	(character or numeric) legend position, either numeric vector of x/y coordinates or shorthand accepted by <code>graphics::legend</code>
leg_cont	(character) vector of desired legend entries. Defaults to unique entries in <code>groupcol</code> argument (this argument provided in case syntax of legend contents should differ from data contents)

Value

(plot) base R ordination with an ellipse for each group

Examples

```
# Use data from the vegan package
utils::data("varespec", package = 'vegan')
resp <- varespec

# Make some columns of known number of groups
factor_4lvl <- c(rep.int("Trt1", (nrow(resp)/4)),
                 rep.int("Trt2", (nrow(resp)/4)),
                 rep.int("Trt3", (nrow(resp)/4)),
                 rep.int("Trt4", (nrow(resp)/4)))

# And combine them into a single data object
data <- cbind(factor_4lvl, resp)

# Actually perform multidimensional scaling
mds <- vegan::metaMDS(data[-1], autotransform = FALSE, expand = FALSE, k = 2, try = 50)

# With the scaled object and original dataframe we can use this function
nms_ord(mod = mds, groupcol = data$factor_4lvl,
        title = '4-Level NMS', leg_pos = 'topright',
        leg_cont = as.character(1:4))
```

num_check	<i>Check Columns for Non-Numbers</i>
-----------	--------------------------------------

Description

Identifies any elements in the column(s) that would be changed to NA if `as.numeric` is used on the column(s). This is useful for quickly identifying only the "problem" entries of ostensibly numeric column(s) that is/are read in as a character.

Usage

```
num_check(data = NULL, col = NULL)
```

Arguments

<code>data</code>	(dataframe) object containing at least one column of supposed numbers
<code>col</code>	(character or numeric) name(s) or column number(s) of the column(s) containing putative numbers in the data object

Value

(list) malformed numbers from each supplied column in separate list elements

Examples

```
# Create dataframe with a numeric column where some entries would be coerced into NA
spp <- c("salmon", "bass", "halibut", "eel", "sardine")
ct <- c(1, "14x", "_23", 12, "")
ct2 <- c("a", "2", "4", "0", "0")
ct3 <- c(NA, "Y", "typo", "2", "x")
fish <- data.frame("species" = spp, "count" = ct, "num_col2" = ct2, "third_count" = ct3)

# Use `num_check()` to return only the entries that would be lost
supportR::num_check(data = fish, col = c("count", "num_col2", "third_count"))
```

ordination

*Create an Ordination with Ellipses for Groups***Description**

Produces a Nonmetric Multidimensional Scaling (NMS) or Principal Coordinate Analysis (PCoA) for up to 10 groups. Draws an ellipse around the standard deviation of the points in each group. By default, assigns a unique color (colorblind-safe) and point shape for each group. If the user supplies colors/shapes then the function can support more than 10 groups. For NMS ordinations, includes the stress as the legend title (see `?vegan::metaMDS` for explanation of "stress"). For PCoA ordinations includes the percent variation explained parenthetically in the axis labels.

Usage

```
ordination(mod = NULL, grps = NULL, ...)
```

Arguments

<code>mod</code>	(pcoa monoMDS/metaMDS) object returned by <code>ape::pcoa</code> or <code>vegan::metaMDS</code>
<code>grps</code>	(vector) vector of categorical groups for data. Must be same length as number of rows in original data object
<code>...</code>	additional arguments passed to <code>graphics::plot</code> , <code>graphics::points</code> , <code>scales::alpha</code> , <code>vegan::ordiellipse</code> , or <code>graphics::legend</code> . Open a GitHub Issue if function must support additional arguments

Value

(plot) base R ordination with an ellipse for each group

Examples

```
# Use data from the vegan package
utils::data("varespec", package = 'vegan')

# Make some columns of known number of groups
treatment <- c(rep.int("Trt1", (nrow(varespec)/4)),
               rep.int("Trt2", (nrow(varespec)/4)),
               rep.int("Trt3", (nrow(varespec)/4)),
               rep.int("Trt4", (nrow(varespec)/4)))

# And combine them into a single data object
data <- cbind(treatment, varespec)

# Get a distance matrix from the data
dist <- vegan::vegdist(varespec, method = 'kulczynski')

# Perform PCoA / NMS
pcoa_mod <- ape::pcoa(dist)
nms_mod <- vegan::metaMDS(data[-1], autotransform = FALSE, expand = FALSE, k = 2, try = 50)

# Create PCoA ordination (with optional arguments)
supportR::ordination(mod = pcoa_mod, grps = data$treatment,
                     bg = c("red", "blue", "purple", "orange"),
                     lty = 2, col = "black")

# Create NMS ordination
supportR::ordination(mod = nms_mod, grps = data$treatment, alpha = 0.3,
                     x = "topright", legend = LETTERS[1:4])
```

pcoa_ord

Publication-Quality Principal Coordinates Analysis (PCoA) Ordinations

Description**[Superseded]**

This function has been superseded by `ordination` because this is just a special case of that function. Additionally, `ordination` provides users much more control over the internal graphics functions used to create the fundamental elements of the graph

Produces Principal Coordinates Analysis (PCoA) ordinations for up to 10 groups. Assigns a unique color for each group and draws an ellipse around the standard deviation of the points. Automatically adds percent of variation explained by first two principal component axes parenthetically to axis labels. Because there are only five hollow shapes (see `?graphics::pch`) all shapes are re-used a maximum of 2 times when more than 5 groups are supplied.

Usage

```
pcoa_ord(
  mod = NULL,
  groupcol = NULL,
  title = NA,
  colors = c("#41b6c4", "#c51b7d", "#7fbc41", "#d73027", "#4575b4", "#e08214", "#8073ac",
    "#f1b6da", "#b8e186", "#8c96c6"),
  shapes = rep(x = 21:25, times = 2),
  lines = rep(x = 1, times = 10),
  pt_size = 1.5,
  pt_alpha = 1,
  lab_text_size = 1.25,
  axis_text_size = 1,
  leg_pos = "bottomleft",
  leg_cont = unique(groupcol)
)
```

Arguments

<code>mod</code>	(pcoa) object returned by <code>ape::pcoa</code>
<code>groupcol</code>	(dataframe) column specification in the data that includes the groups (accepts either bracket or \$ notation)
<code>title</code>	(character) string to use as title for plot
<code>colors</code>	(character) vector of colors (as hexadecimal codes) of length $\geq$ group levels (default <i>not</i> colorblind safe because of need for 10 built-in unique colors)
<code>shapes</code>	(numeric) vector of shapes (as values accepted by <code>pch</code>) of length $\geq$ group levels
<code>lines</code>	(numeric) vector of line types (as integers) of length $\geq$ group levels
<code>pt_size</code>	(numeric) value for point size (controlled by character expansion i.e., <code>cex</code>)
<code>pt_alpha</code>	(numeric) value for transparency of points (ranges from 0 to 1)
<code>lab_text_size</code>	(numeric) value for axis label text size
<code>axis_text_size</code>	(numeric) value for axis tick text size
<code>leg_pos</code>	(character or numeric) legend position, either numeric vector of x/y coordinates or shorthand accepted by <code>graphics::legend</code>
<code>leg_cont</code>	(character) vector of desired legend entries. Defaults to unique entries in <code>groupcol</code> argument (this argument provided in case syntax of legend contents should differ from data contents)

Value

(plot) base R ordination with an ellipse for each group

Examples

```
# Use data from the vegan package
data("varespec", package = 'vegan')
```

```

resp <- varespec

# Make some columns of known number of groups
factor_4lvl <- c(rep.int("Trt1", (nrow(resp)/4)),
                 rep.int("Trt2", (nrow(resp)/4)),
                 rep.int("Trt3", (nrow(resp)/4)),
                 rep.int("Trt4", (nrow(resp)/4)))

# And combine them into a single data object
data <- cbind(factor_4lvl, resp)

# Get a distance matrix from the data
dist <- vegan::vegdist(resp, method = 'kulczynski')

# Perform a PCoA on the distance matrix to get points for an ordination
pnts <- ape::pcoa(dist)

# Test the function for 4 groups
pcoa_ord(mod = pnts, groupcol = data$factor_4lvl)

```

replace_non_ascii

Replace Non-ASCII Characters with Comparable ASCII Characters

Description

Finds all non-ASCII (American Standard Code for Information Interchange) characters in a character vector and replaces them with ASCII characters that are as visually similar as possible. For example, various special dash types (e.g., em dash, en dash, etc.) are replaced with a hyphen. The function will return a warning if it finds any non-ASCII characters for which it does not have a hard-coded replacement. Please open a [GitHub Issue](#) if you encounter this warning and have a suggestion for what the replacement character should be for that particular character.

Usage

```
replace_non_ascii(x = NULL, include_letters = FALSE)
```

Arguments

x (character) vector in which to replace non-ASCII characters

include_letters (logical) whether to include letters with accents (e.g., u with an umlaut, etc.). Defaults to FALSE

Value

(character) vector where all non-ASCII characters have been replaced by ASCII equivalents

Examples

```
# Make a vector of the hexadecimal codes for several non-ASCII characters
## This function accepts the characters themselves but CRAN checks do not
non_ascii <- c("\u201C", "\u00AC", "\u00D7")

# Invoke function
(ascii <- supportR::replace_non_ascii(x = non_ascii))
```

rmd_export

Knit an R Markdown File and Export to Google Drive

Description

This function allows you to knit a specified R Markdown file locally and export it to the Google Drive folder for which you provided a link. NOTE that if you have not used `googledrive::drive_auth` this will prompt you to authorize a Google account in a new browser tab. If you do not check the box in that screen before continuing you will not be able to use this function until you clear your browser cache and re-authenticate. I recommend invoking `drive_auth` beforehand to reduce the chances of this error

Usage

```
rmd_export(
  rmd = NULL,
  out_path = getwd(),
  out_name = NULL,
  out_type = "html",
  drive_link
)
```

Arguments

<code>rmd</code>	(character) name and path to R markdown file to knit
<code>out_path</code>	(character) path to the knit file's destination (defaults to path returned by <code>getwd()</code>)
<code>out_name</code>	(character) desired name for knit file (with or without file suffix)
<code>out_type</code>	(character) either "html" or "pdf" depending on what YAML entry you have in the output: field of your R Markdown file
<code>drive_link</code>	(character) full URL of drive folder to upload the knit document

Value

No return value, called for side effect (to knit R Markdown file)

Examples

```
## Not run:
# Authorize R to interact with GoogleDrive
googledrive::drive_auth()
## NOTE: See warning about possible misstep at this stage

# Use `rmd_export()` to knit and export an .Rmd file
supportR::rmd_export(rmd = "my_markdown.Rmd", in_path = getwd(), out_path = getwd(),
  out_name = "my_markdown", out_type = "html",
  drive_link = "<Google Drive folder URL>")

## End(Not run)
```

safe_rename	<i>Safely Rename Columns in a Dataframe</i>
-------------	---

Description

Replaces specified column names with user-defined vector of new column name(s). This operation is done "safely" because it specifically matches each 'bad' name with its corresponding 'good' name and thus minimizes the risk of accidentally replacing the wrong column name.

Usage

```
safe_rename(data = NULL, bad_names = NULL, good_names = NULL)
```

Arguments

data	(dataframe or dataframe-like) object with column names that match the values passed to the bad_names argument
bad_names	(character) vector of column names to replace in original data object. Order does not need to match data column order but <i>must</i> match the good_names vector order
good_names	(character) vector of column names to use as replacements for data object. Order does not need to match data column order but <i>must</i> match the good_names vector order

Value

(dataframe or dataframe-like) with renamed columns

Examples

```
# Make a dataframe to demonstrate
df <- data.frame("first" = 1:3, "middle" = 4:6, "second" = 7:9)

# Invoke the function
supportR::safe_rename(data = df, bad_names = c("second", "middle"),
                      good_names = c("third", "second"))
```

spellcheck_quarto	<i>Check the Spelling of All Quarto Files in a Given Directory</i>
-------------------	--

Description

Runs `spelling::spell_check_files` on all Quarto (.qmd) files in folders that would be rendered when rendering a Quarto project (i.e., folders that do not begin with an underscore).

Usage

```
spellcheck_quarto(path = getwd(), quiet = FALSE)
```

Arguments

- path (character) directory in which all Quarto files are to be identified and spell-checked. Recursively identifies Quarto files in folders within the top-level folder. Unrendered folders are ignored. Defaults to current working directory
- quiet (logical) whether to message the name of the current file being spell-checked as it is checked. Defaults to FALSE

Value

(dataframe) table containing a column for the Quarto file, its path, words flagged as typos by `spell_check_files`, and what line(s) of the file that typo was found. One row per typo. If found on multiple lines in a single file, concatenated with comma as separators.

summary_table	<i>Generate Summary Table for Supplied Response and Grouping Variables</i>
---------------	--

Description

Calculates mean, standard deviation, sample size, and standard error of a given response variable within user-defined grouping variables. This is meant as a convenience instead of doing `dplyr::group_by` followed by `dplyr::summarize` iteratively themselves.

Usage

```
summary_table(
  data = NULL,
  groups = NULL,
  response = NULL,
  drop_na = FALSE,
  round_digits = 2
)
```

Arguments

data	(dataframe or dataframe-like) object with column names that match the values passed to the groups and response arguments
groups	(character) vector of column names to group by
response	(character) name of the column name to calculate summary statistics for (the column must be numeric)
drop_na	(logical) whether to drop NAs in grouping variables. Defaults to FALSE
round_digits	(numeric) number of digits to which mean, standard deviation, and standard error should be rounded

Value

(dataframe) summary table containing the mean, standard deviation, sample size, and standard error of the supplied response variable

tabularize_md	<i>Make a Markdown File into a Table</i>
---------------	--

Description

Accepts one markdown file (i.e., "md" file extension) and returns its content as a table. Nested heading structure in markdown file—as defined by hashtags / pounds signs (#)—is identified and preserved as columns in the resulting tabular format. Each line of non-heading content in the file is preserved in the right-most column of one row of the table.

Usage

```
tabularize_md(file = NULL)
```

Arguments

file	(character/url connection) name and file path of markdown file to transform into a table or a connection object to a URL of a markdown file (see ?url for more details)
------	---

Value

(dataframe) table with one additional column than there are heading levels in the document (e.g., if first and second level headings are in the document, the resulting table will have three columns) and one row per line of non-heading content in the markdown file.

Examples

```
## Not run:
# Identify URL to the NEWS.md file in `supportR` GitHub repo
md_cxn <- url("https://raw.githubusercontent.com/njlyon0/supportR/main/NEWS.md")

# Transform it into a table
md_df <- supportR::tabularize_md(file = md_cxn)

# Close connection (just good housekeeping to do so)
close(md_cxn)

# Check out the table format
str(md_df)

## End(Not run)
```

 theme_lyon

Complete ggplot2 Theme for Non-Data Aesthetics

Description

Custom alternative to the ggtheme options built into ggplot2. Removes gray boxes and grid lines from plot background. Increases font size of tick marks and axis labels. Removes gray box from legend background and legend key. Removes legend title.

Usage

```
theme_lyon(title_size = 16, text_size = 13)
```

Arguments

title_size (numeric) size of font in axis titles
 text_size (numeric) size of font in tick labels

Value

(ggplot theme) list of ggplot2 theme elements

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