# Package: supportR (via r-universe)

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Title Support Functions for Wrangling and Visualization Version 1.4.0.900 Date 2024-06-13 Maintainer Nicholas J Lyon <njlyon@alumni.iastate.edu> **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. License MIT + file LICENSE Language en-US **Encoding UTF-8** RoxygenNote 7.3.1 URL https://github.com/njlyon0/supportR, https://njlyon0.github.io/supportR/ BugReports https://github.com/njlyon0/supportR/issues **Depends** R (>= 3.5)**Imports** data.tree, dplyr, ggplot2, gh, googledrive, graphics, lifecycle, magrittr, methods, purrr, rlang, rmarkdown, scales, stringi, stringr, tidyr, vegan **Suggests** ape, devtools, knitr, palmerpenguins, testthat (>= 3.0.0) **Roxygen** list(markdown = TRUE) VignetteBuilder knitr Config/testthat/edition 3 Repository https://njlyon0.r-universe.dev RemoteUrl https://github.com/njlyon0/supportr RemoteRef HEAD **RemoteSha** 9f633ac5bec3cac836e467195f4079df261c742c

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array\_melt

Melt an Array into a Dataframe

# 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

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#### **Examples**

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.

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

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Crop a Triangle from Data Object

## **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 wtih 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)</pre>
```

date\_check

Check Columns for Non-Dates

#### **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)
```

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#### 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) contain-
	ing 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
date_check(data = sites, col = c("first_visit", "second", "third"))</pre>
```

date\_format\_guess

Identify Probable Format for Ambiguous Date Formats

#### **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
)
```

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# 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 $\overline{TRUE}$ )
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 \leftarrow data.frame('data_enterer' = c('person A', 'person B',
                                         'person B', 'person B',
                                        \hbox{'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!
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
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.

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#### 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 twoelement list

# **Examples**

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

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

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

force\_num

Force Coerce to Numeric

# 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

github\_ls

#### Value

(numeric) vector of numeric values

## **Examples**

```
# Coerce a character vector to numeric without throwing a warning 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

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

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github\_ls\_single

List Objects in a Single Folder of 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. 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
github_ls_single(repo = "https://github.com/njlyon0/supportR")
## End(Not run)
```

github\_tree

Create File Tree of a GitHub Repository

## **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)
```

name\_vec

# 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
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

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

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nms_ord	Publication-Quality	Non-metric	Multi-dimensional	Scaling	(NMS)
	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 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**

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

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```
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 graphics::legend

leg_cont (character) vector of desired legend entries. Defaults to unique entries in groupcol 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)),</pre>
                 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)</pre>
# 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

Check Columns for Non-Numbers

# 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)
```

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#### **Arguments**

data	(dataframe) object containing at least one column of supposed numbers
col	(character or numeric) name(s) or column number(s) of the column(s) contain-
	ing 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")
ct <- c(1, "14x", "_23", 12)
ct2 <- c("a", "2", "4", "0")
ct3 <- c(NA, "Y", "typo", "2")
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
num_check(data = fish, col = c("count", "num_col2", "third_count"))</pre>
```

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

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

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#### 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)),</pre>
               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)</pre>
# Get a distance matrix from the data
dist <- vegan::vegdist(varespec, method = 'kulczynski')</pre>
# Perform PCoA / NMS
pcoa_mod <- ape::pcoa(dist)</pre>
nms_mod <- vegan::metaMDS(data[-1], autotransform = FALSE, expand = FALSE, k = 2, try = 50)
# Create PCoA ordination (with optional agruments)
ordination(mod = pcoa_mod, grps = data$treatment,
           bg = c("red", "blue", "purple", "orange"),
           lty = 2, col = "black")
# Create NMS ordination
ordination(mod = nms_mod, grps = data$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.

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#### 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**

mod	(pcoa) object returned by ape::pcoa
groupcol	(dataframe) column specification in the data that includes the groups (accepts either bracket or \$ notation)
title	(character) string to use as title for plot
colors	(character) vector of colors (as hexadecimal codes) of length >= group levels (default <i>not</i> colorblind safe because of need for 10 built-in unique colors)
shapes	(numeric) vector of shapes (as values accepted by pch) of length >= group levels
lines	(numeric) vector of line types (as integers) of length >= group levels
pt_size	(numeric) value for point size (controlled by character expansion i.e., cex)
pt_alpha	(numeric) value for transparency of points (ranges from 0 to 1)
<pre>lab_text_size</pre>	(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 graphics::legend
leg_cont	(character) vector of desired legend entries. Defaults to unique entries in groupcol 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

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

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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

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## **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", "\u000D7")

# Invoke function
(ascii <- replace_non_ascii(x = non_ascii))</pre>
```

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**

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

#### Value

No return value, called to knit R Markdown file

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#### **Examples**

safe\_rename

Safely Rename Columns in a Dataframe

# 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 must 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 must match the good\_names vector

order

# Value

(dataframe or dataframe-like) with renamed columns

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## **Examples**

summary\_table

Generate Summary Table for Supplied Response and Grouping Variables

# 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

20 tabularize\_md

tabularize\_md

Make a Markdown File into a Table

#### **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 ?base::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.

```
## 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 <- 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)</pre>
```

theme\_lyon 21

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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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