Package: sema.berlin.utils (via r-universe)

September 12, 2024

Title Utillity Functions Used in sema.berlin Packages

Version 0.2.0

Description This package provides utility functions that are used in sema.berlin.* packages.

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URL https://github.com/KWB-R/sema.berlin.utils

BugReports https://github.com/KWB-R/sema.berlin.utils/issues

Encoding UTF-8

LazyData true

Imports ggplot2, kwb.utils

Remotes github::kwb-r/kwb.utils

Suggests covr

RoxygenNote 7.1.2

Repository https://kwb-r.r-universe.dev

RemoteUrl https://github.com/KWB-R/sema.berlin.utils

RemoteRef HEAD

RemoteSha 74448f71482fb6ed743723cff3bd844092c06a74

Contents

`almost_equal` *Compare Two Values Allowing a Tolerance*

Description

Compare Two Values Allowing a Tolerance

Usage

```
almost_equal(x, y, tolerance = 1e-06)
```

Arguments

`x`	vector of numeric
`y`	vector of numeric
`tolerance`	tolerance, default: `1e-6`

Value

vector of logical

`format_comma` *turn decimal number into string with comma*

Description

turn decimal number into string with comma

Usage

```
format_comma(x, nsmall = 0, ...)
```

Arguments

`x`	numeric vector
`nsmall`	number of digits to show
`...`	others

get_bwb_colours *Get Official BWB Colours*

Description

Get Official BWB Colours

Usage

```
get_bwb_colours(
  full_info = FALSE,
  simple = TRUE,
  conditions = NULL,
  six = FALSE
)
```

Arguments

full_info	if TRUE, a data frame with columns approx_name, red, green, blue, value is returned. The column approx_name contains the "approximate name" of the colour, as found by http://chir.ag/projects/name-that-color). By default, this argument is set to FALSE in which case a named vector containing only the "#rrggbb" strings is returned.
simple	if TRUE (the default) only the main colours with clear names (blue, green, yellow, orange, red) are returned
conditions	optional. Vector of (four) condition names (best to worst) to be used as the names of the returned vector of (four) colour codes. FALSE.
six	if TRUE six colours from dark green to dark red are returned. The default is FALSE.

Examples

```
# Get a colour vector
get_bwb_colours()

# Plot these colours
plot_bwb_colours()

# Check the decimal numbers by setting full_info to TRUE
get_bwb_colours(full_info = TRUE)

# Get six colours
get_bwb_colours(six = TRUE)
```

my_theme *turn decimal number into string with comma*

Description

turn decimal number into string with comma

Usage

```
my_theme(...)
```

Arguments

...	others arguments passed to 'ggplot2::theme()'

plot_bwb_colours *Plot the BWB Colours in a Barplot*

Description

Plot the BWB Colours in a Barplot

Usage

```
plot_bwb_colours(simple = TRUE)
```

Arguments

simple	passed to get_bwb_colours

read_csv *read csv file, e.g. variable rehab strategy or simulation results to compare*

Description

read csv file, e.g. variable rehab strategy or simulation results to compare

Usage

```
read_csv(file = NULL, dec)
```

Arguments

file	path to csv file
dec	decimal separator

str_remove_all *Remove All Substrings Matching the Pattern*

Description

Remove All Substrings Matching the Pattern

Usage

```
str_remove_all(x, pattern)
```

Arguments

x	vector of character
pattern	regular expression agains which the strings in x are matched

Value

x with elements in which substrings matching the pattern are removed

translate_data *Translate column names and categorical data*

Description

Translate column names and categorical data

Usage

```
translate_data(df, translation_list)
```

Arguments

df	data to be translated
translation_list	list of names to be translated in format ‘list(oldname1 = "newname1", oldname2 = "newname2", ...)‘

unique_sort_char *Sorted Unique Character Values*

Description

Sorted Unique Character Values

Usage

```
unique_sort_char(x)
```

Arguments

x	vector of objects that can be converted to a vector of character with `as.character`

use_spec_chars *Replace Placeholders with Special Characters*

Description

Replace Placeholders with Special Characters

Usage

```
use_spec_chars(x)
```

Arguments

x	vector of character

write_csv *write csv file, e.g. simulation result table*

Description

write csv file, e.g. simulation result table

Usage

```
write_csv(data, outdir, filename, dec)
```

Arguments

data	dataframe to be written
outdir	directory to save data
filename	filename to save data
dec	decimal separator

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