Package 'lulab.utils'

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Title Supporting Functions Maintained by Zhen Lu
Version 0.0.4
Description Miscellaneous functions commonly used by LuLab. This package aims to help more researchers on epidemiology to perform data management and visualization more efficiently.
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Author Zhen Lu [aut, cre] (https://orcid.org/0000-0002-3481-6310)
Maintainer Zhen Lu <1uzh29@mail2.sysu.edu.cn>
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check_cha

check_cha

Description

Check for missing values for character columns

Usage

```
check_cha(col, df, verbose = TRUE)
```

Arguments

col a character variable name

df a data.frame

verbose logical, controlling the output

Details

This function is used to check the distribution of character variables in the data frame.

Value

a distribution table of the character variable in the data frame

Author(s)

Zhen Lu

Examples

```
data("melanoma", package = "boot")
melanoma2 <- melanoma
check_cha('status', melanoma2)
# or
mapply(check_cha,'status', MoreArgs= list(melanoma2))</pre>
```

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check_wget

check_wget

Description

Check if wget is installed

Usage

```
check_wget()
```

Details

This function is used to check if wget is installed on the system.

Value

a logical value indicating whether wget is installed

Author(s)

Zhen Lu

Examples

```
check_wget()
```

Table1

Table1

Description

Make Table1

Usage

```
Table1(df, ycol, xcol, xlabels, result_dir, verbose = TRUE)
```

Arguments

df	a data.frame

ycol a grouping variable xcol variables to be compared

xlabels levels of ycol

result_dir directory to save the result verbose logical, controlling the output

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Details

This function is used to make Table1 and return excel file.

Value

excel file

Author(s)

Zhen Lu

Examples

```
data("melanoma", package = "boot")
melanoma2 <- melanoma
# Factor the basic variables that
# we're interested in
melanoma2$status <-</pre>
  factor(melanoma2$status,
         levels=c(2,1,3),
         labels=c("Alive", # Reference
                  "Melanoma death",
                  "Non-melanoma death"))
test= Table1(
  df= melanoma2,
  xcol= setdiff(names(melanoma2), "status"),
  ycol= "status",
  result_dir= tempdir()
)
```

test_mirror

 $test_mirror$

Description

Test speed of CRAN mirror

Usage

```
test_mirror(region, verbose = TRUE)
```

Arguments

region a character string, the region of the CRAN mirror, e.g. 'China'

verbose logical, controlling the output

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Details

This function is used to test the speed of CRAN mirror.

Value

a data.frame with the name, URL, and download time of the fastest CRAN mirror

Author(s)

Zhen Lu

Examples

```
test_mirror('China')
```

use_wget

use_wget

Description

Use wget to download files

Usage

```
use_wget(use = TRUE)
```

Arguments

use

a logical value, controlling the download method

Details

This function is used to set the download method.

Value

a logical value indicating whether wget is used

Author(s)

Zhen Lu

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Examples

```
use_wget(use = TRUE)
getOption("download.file.method")
getOption("download.file.extra")
test_url <- "https://eternallybored.org/misc/wget/1.21.4/64/wget.exe"
test_destfile <- tempfile()
download.file(test_url, destfile = test_destfile)</pre>
```

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