

Package ‘yulab.utils’

December 20, 2022

Title Supporting Functions for Packages Maintained by 'YuLab-SMU'

Version 0.0.6

Description Miscellaneous functions commonly used by 'YuLab-SMU'.

Imports stats, utils

ByteCompile true

License Artistic-2.0

Encoding UTF-8

RoxygenNote 7.2.3

NeedsCompilation no

Author Guangchuang Yu [aut, cre] (<<https://orcid.org/0000-0002-6485-8781>>)

Maintainer Guangchuang Yu <guangchuangyu@gmail.com>

Repository CRAN

Date/Publication 2022-12-20 16:40:02 UTC

R topics documented:

CRANpkg	2
get_fun_from_pkg	2
Githubpkg	3
install_zip	3
install_zip_gh	4
is.installed	5
mat2df	5
mypkg	6
o	7
read.cb	7
scihub_dl	8
show_in_excel	8
str_starts	9
str_wrap	10

Index	11
--------------	-----------

CRANpkg *print md text of package with link to homepage (CRAN or Bioconductor)*

Description

print md text of package with link to homepage (CRAN or Bioconductor)

Usage

CRANpkg(pkg)

Biocpkg(pkg)

Arguments

pkg package name

Value

md text string

Author(s)

Guangchuang Yu

get_fun_from_pkg *get_fun_from_pkg*

Description

load function from package

Usage

get_fun_from_pkg(pkg, fun)

Arguments

pkg package

fun function

Value

function

Author(s)

Guangchuang Yu

Examples

```
get_fun_from_pkg('utils', 'zip')
```

`Githubpkg`*Githubpkg*

Description

print md text of package with link to github repo

Usage

```
Githubpkg(user, pkg)
```

Arguments

user	github user
pkg	package name

Value

md text string

Author(s)

Guangchuang Yu

`install_zip`*install_zip*

Description

install R package from zip file of source codes

Usage

```
install_zip(file, args = "--no-build-vignettes")
```

Arguments

file	zip file
args	argument to build package

Value

No return value, called for install R package from zip file of source codes

Author(s)

Guangchuang Yu

<code>install_zip_gh</code>	<i>install_zip_gh</i>
-----------------------------	-----------------------

Description

install github package

Usage

```
install_zip_gh(repo, ref = "master", args = "--no-build-vignettes")
```

Arguments

repo	github repo
ref	github branch, default is master
args	argument to build package

Details

it download the zip file first and use `install_zip` to install it

Value

No return value, called for installing github package

Author(s)

Guangchuang Yu

`is.installed` *is.installed*

Description

Check whether the input packages are installed

Usage

```
is.installed(packages)
```

Arguments

packages package names

Details

This function check whether the input packages are installed

Value

logical vector

Author(s)

Guangchuang Yu

Examples

```
is.installed(c("dplyr", "ggplot2"))
```

`mat2df` *mat2df*

Description

convert a matrix to a tidy data frame (from wide to long format as described in the tidyverse concetp)

Usage

```
mat2df(x)
```

Arguments

x the input matrix

Value

a data.frame in long format with the 'value' column stores the original values and 'row' and 'col' columns stored in row and column index as in x

Author(s)

Guangchuang Yu

Examples

```
x <- matrix(1:15, nrow = 3)
mat2df(x)
```

mypkg

mypkg

Description

print md text of link to a package

Usage

```
mypkg(pkg, url)
```

Arguments

pkg package name

url package url

Value

md text string

Author(s)

Guangchuang Yu

o

o

Description

open selected directory or file

Usage

```
o(file = ".")
```

Arguments

file to be open; open working directory by default

Value

No return value, called for opening specific directory or file

Author(s)

Guangchuang Yu

Examples

```
## Not run:  
## to open current working directory  
o()  
  
## End(Not run)
```

read.cb

read.cb

Description

read clipboard

Usage

```
read.cb(...)
```

Arguments

... parameters for read.table

Value

data.frame

Author(s)

Guangchuang Yu

scihub_dl	<i>download publication via scihub</i>
-----------	--

Description

using scihub to download publication using doi

Usage

```
scihub_dl(doi, scihub = "sci-hub.tw", download = TRUE)
```

Arguments

doi	doi
scihub	scihub website
download	whether download the pdf file

Value

pdf url

Author(s)

Guangchuang Yu

show_in_excel	<i>show_in_excel</i>
---------------	----------------------

Description

Open data frame in Excel. It can be used in pipe.

Usage

```
show_in_excel(.data)
```

Arguments

.data	a data frame to be open
-------	-------------------------

Value

original .data

Author(s)

Guangchuang Yu

str_starts *str_starts*

Description

Detect the presence or absence of a pattern at the beginning or end of a string or string vector.

Usage

```
str_starts(string, pattern, negate = FALSE)
```

```
str_ends(string, pattern, negate = FALSE)
```

Arguments

string input string

pattern pattern with which the string starts or ends

negate if TRUE, return non-matching elements

Value

a logical vector

Author(s)

Guangchuang Yu

<code>str_wrap</code>	<i>str_wrap</i>
-----------------------	-----------------

Description

wrapping long string to multiple lines

Usage

```
str_wrap(string, width = getOption("width"))
```

Arguments

<code>string</code>	input string
<code>width</code>	the maximum number of characters before wrapping to a new line

Value

update strings with new line character inserted

Author(s)

Guangchuang Yu and Erqiang Hu

Index

Biocpkg (CRANpkg), [2](#)

CRANpkg, [2](#)

get_fun_from_pkg, [2](#)

Githubpkg, [3](#)

install_zip, [3](#)

install_zip_gh, [4](#)

is.installed, [5](#)

mat2df, [5](#)

mypkg, [6](#)

o, [7](#)

read.cb, [7](#)

scihub_dl, [8](#)

show_in_excel, [8](#)

str_ends (str_starts), [9](#)

str_starts, [9](#)

str_wrap, [10](#)