

# Package ‘ehelp’

April 5, 2020

**Title** Enhanced Help to Enable ``Docstring''-Comments in Users Functions

**Version** 1.2

**Author** Marcelo Ponce [aut, cre]

**Maintainer** Marcelo Ponce <mponce@scinet.utoronto.ca>

**Description** By overloading the R help() function, this package allows users to use ``docstring'' style comments within their own defined functions. The package also provides additional functions to mimic the R basic example() function and the prototyping of packages.

**URL** <https://github.com/mponce0/eHelp>

**BugReports** <https://github.com/mponce0/eHelp/issues>

**License** GPL (>= 2)

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.99.9001

**Suggests** testthat (>= 2.1.0), knitr, rmarkdown, crayon

**VignetteBuilder** knitr

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2020-04-05 04:30:02 UTC

## R topics documented:

|                 |          |
|-----------------|----------|
| eexample        | 2        |
| help            | 2        |
| simulatePackage | 3        |
| <b>Index</b>    | <b>4</b> |

---

|          |                                                                                 |
|----------|---------------------------------------------------------------------------------|
| eexample | <i>function that allows to execute the examples from user defined functions</i> |
|----------|---------------------------------------------------------------------------------|

---

**Description**

function that allows to execute the examples from user defined functions

**Usage**

```
eexample(..., skip.donts = FALSE)
```

**Arguments**

|            |                                                                                          |
|------------|------------------------------------------------------------------------------------------|
| ...        | function name of a user defined fn                                                       |
| skip.donts | boolean argument to specify whether dontest or dontrun examples should be skipped or not |

---

|      |                              |
|------|------------------------------|
| help | <i>Wrapper Help Function</i> |
|------|------------------------------|

---

**Description**

This function is a wrapper around the R's system help() function. It allows the user to include docstring styles documentation and displayed it as help or information to the users using the help() command.

**Usage**

```
help(
  topic,
  package = NULL,
  lib.loc = NULL,
  verbose = getOption("verbose"),
  try.all.packages = getOption("help.try.all.packages"),
  help_type = getOption("help_type")
)
```

**Arguments**

|                  |                                                  |
|------------------|--------------------------------------------------|
| topic            | topic/or/function name to search for             |
| package          | package where to search                          |
| lib.loc          | location of R libraries                          |
| verbose          | for displaying the filename                      |
| try.all.packages | attempt to go trough all installed packages      |
| help_type        | format of the displayed help (text,html, or pdf) |

**Details**

Parameters are the same as in `utils::help`, see `help(help,package='utils')` for further details.

**Examples**

```
compute3Dveloc <- function(x,y,z,t){
#' @fnName compute3Dveloc
#' this function computes the velocity of an object in a 3D space
#' @param x vector of positions in the x-axis
#' @param y vector of positions in the y-axis
#' @param z vector of positions in the z-axis
#' @param t time vector corresponding to the position vector

# number of elements in vectors
n <- length(t)
# compute delta_t
delta_t <- t[2:n]-t[1:n-1]
# compute delta_x
delta_x <- x[2:n]-x[1:n-1]
# compute delta_y
delta_y <- y[2:n]-y[1:n-1]
# compute delta_z
delta_z <- z[2:n]-z[1:n-1]
# do actual computation of velocity...
veloc3D <- list(delta_x/delta_t, delta_y/delta_t, delta_z/delta_t)
# return value
return(veloc3D)
}

help(compute3Dveloc)
```

---

|                 |                                                                                                                                                                                                         |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| simulatePackage | <i>function that allows to load the functions from a package in preparation for CRAN, as if it is being loaded by loading all the fns defined in the R sub-directory of the package, ie. "myPckg/R"</i> |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

---

**Description**

function that allows to load the functions from a package in preparation for CRAN, as if it is being loaded by loading all the fns defined in the R sub-directory of the package, ie. "myPckg/R"

**Usage**

```
simulatePackage(pkgLocation = NULL)
```

**Arguments**

|             |                                                                                                |
|-------------|------------------------------------------------------------------------------------------------|
| pkgLocation | path to the base loaction of the package, under which is expected to found the R sub-directory |
|-------------|------------------------------------------------------------------------------------------------|

# Index

eexample, [2](#)

help, [2](#)

simulatePackage, [3](#)