Package 'sinew'

October 14, 2022

Type Package

Title Package Development Documentation and Namespace Management

Version 0.4.0

Date 2022-03-27

Description Manage package documentation and namespaces from the command line. Programmatically attach namespaces in R and Rmd script, populates 'Roxygen2' skeletons with information scraped from within functions and populate the Imports field of the DESCRIPTION file.

Depends R (>= 3.2.0)

Imports rstudioapi, utils, tools, sos, stringi, yaml, crayon, cli, rematch2

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Suggests rcmdcheck, git2r, shiny, miniUI, withr, usethis, fs, details, roxygen2, testthat, knitr, rmarkdown

URL https://github.com/yonicd/sinew

BugReports https://github.com/yonicd/sinew/issues

NeedsCompilation no

RoxygenNote 7.1.2

VignetteBuilder knitr

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Repository CRAN

Date/Publication 2022-03-31 10:30:02 UTC

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create_yml

 $Create_sinewconfig.yml$

Description

Create _sinewconfig.yml file in project root directory

Usage

create_yml()

Value

nothing

Author(s)

Jonathan Sidi

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Examples

```
## Not run:
create_yml()
## End(Not run)
```

inter0xyAddIn

Interactive add-in

Description

Launches an interactive addin for insertion of roxygen2 comments in files. Allows selection of extra parameters for makeOxygen

Usage

```
interOxyAddIn()
```

Details

Open an .R file in Rstudio's source editor.

This addin requires shiny and miniUI to be installed (listed as Suggests in Description)

- Launch the add-in via Addins -> interactiveOxygen or interOxyAddIn() in the console.
 - Add-in opens in the viewer panel.
- Select function's/dataset's name in the source editor.
 - If objects cannot be found, the addin prompts to source the file.
 - Choose parameters for makeOxygen
 - * Click Insert
- Select next object's name
- Rinse/Repeat
- Click Quit when done with the file.

Value

Nothing. Inserts roxygen2 comments in a file opened in the source editor.

Author(s)

Anton Grishin, Jonathan Sidi

```
if(interactive()) interOxyAddIn()
```

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ls_param

Return roxygen2 parameter calls from parameter dictionary

Description

Return roxygen2 parameter calls from the intersection of the parameters listed in the package dictionary and the formals of a function

Usage

```
ls_param(obj, dictionary = "man-roxygen/Dictionary-1.R", print = TRUE)
```

Arguments

obj function or name of function

dictionary character, path_to_dictionary, Default: 'roxygen-man/Dictionary-1.R'

print boolean print output to console, Default: TRUE

Value

character vector

Examples

```
repo='https://raw.githubusercontent.com/yonicd/sinew/master/'
dict_loc=file.path(repo,'man-roxygen/Dictionary-1.R')
ls_param(sinew::make0xygen,dictionary=dict_loc)
```

makeDictionary

Parse package R files to create dictionary of unique parameter defini-

tions

Description

Given list of R files function returns roxygen2 template consisting of intersecting parameter definitions

Usage

```
makeDictionary(path, save_path = FALSE)
```

Arguments

path character or character vector of paths to files to parse

save_path boolean that allows for function to write template to man-roxygen subdirectory,

Default: FALSE

makeOxyFile 5

Value

character/character vector of intersecting parameters

Examples

```
makeDictionary('R')
```

make0xyFile

Inserts roxygen2 skeletons in file(s).

Description

Applies make0xygen function to all functions/dataframes in supplied file(s)

Usage

```
makeOxyFile(input = NULL, overwrite = FALSE, verbose = interactive(), ...)
```

Arguments

input character, vector of path(s) to one or more .R files, a path to directory containing

.R files, Default: NULL

overwrite logical, If TRUE overwrites file(s), FALSE writes "Oxy"- prefixed files in the

same directory, Default: FALSE

verbose logical, If TRUE will print output to console and open edited files in the editor

viewer, Default: interactive()

... additional parameters passed to makeOxygen

Details

If an object cannot be found it will be sourced into a temporary environment. If the file already contains roxygen2 comments they will be deleted to avoid duplication. Some functions may require attaching additional packages. For instance, if functions were defined with purrr's compose or partial functions, omission of purr:: in definitions will require library(purrr) before proceeding with makeOxyFile.

Value

Nothing. Writes files with roxygen2 comments as a side effect

Author(s)

Anton Grishin

See Also

makeOxygen

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Examples

```
# copy dummy package to tempdir
 file.copy(system.file('pkg',package = 'sinew'),tempdir(),recursive = TRUE)
 pkg_dir <- file.path(tempdir(),'pkg')</pre>
 pkg_dir_R <- file.path(pkg_dir, 'R')</pre>
# update namespaces in package functions
 pretty_namespace(pkg_dir_R, overwrite = TRUE)
# test on one R file
# this will create a new R file called 'oxy-yy.R' in the same directory
  makeOxyFile(file.path(pkg_dir_R,'yy.R'))
# Remove the file
  unlink(file.path(pkg_dir_R, 'oxy-yy.R'))
# Test on all R files in directory and overwrite the contents
  makeOxyFile(pkg_dir_R, overwrite = TRUE)
# Remove Skeleton
  rmOxygen(file.path(pkg_dir_R,'yy.R'))
  rmOxygen(file.path(pkg_dir_R,'zz.R'))
# adds more fields to defaults, passes "cut" to make_import
  sinew_opts$append(list(add_fields=c("concept", "describeIn")))
  makeOxyFile(file.path(pkg_dir_R,'yy.R'), cut = 5)
# cleanup
  unlink(pkg_dir, recursive = TRUE, force = TRUE)
  sinew_opts$restore()
```

make0xygen

Populate Roxygen2 Skeleton

Description

Creates roxygen2 skeleton including title, description, import and other fields for an object in the global environment or a function of an attached namespace.

Usage

```
makeOxygen(
  obj,
  add_default = TRUE,
  add_fields = sinew_opts$get("add_fields"),
  use_dictionary = NULL,
  print = TRUE,
```

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```
)
```

Arguments

obj function or name of function

add_default boolean to add defaults values to the end of the PARAM fields, Default: TRUE

add_fields character vector to add additional roxygen2 fields, Default: c("details", "examples", "seealso", "rdname", "examples", "rdname", "rd

use_dictionary character, path_to_dictionary, Default: NULL print boolean print output to console, Default: TRUE

... arguments to be passed to make_import

Details

add_fields can include any slot except for the defaults (title,description,param,return). The order in add_fields determines the order of printout. The roxygen2 fields to add are list below, for more information go to Generating Rd files. If obj is 'data.frame' or 'tibble' then the fields c('export','examples','seealso','rdname') will be ignored.

Field	Skeleton

author AUTHOR [AUTHOR_2]

backref src/filename.cpp

concept CONCEPT_TERM_1 [CONCEPT_TERM_2]
describeIn FUNCTION NAME DESCRIPTION

details DETAILS

example path/relative/to/packge/root

export

family FAMILY_TITLE

field FIELD_IN_S4_RefClass DESCRIPTION

format DATA_STRUCTURE
importClassesFrom importMethodsFrom include DATA_STRUCTURE

PKG CLASS_a [CLASS_b]

PKG METHOD_a [METHOD_b]

FILENAME.R [FILENAME_b.R]

inherit [PKG::]SOURCE_FUNCTION [FIELD_a FIELD_b]

inheritDotParams [PKG::]SOURCE_FUNCTION

inheritSection [PKG::]SOURCE_FUNCTION [SECTION_a SECTION_b]

keywords KEYWORD_TERM

name NAME

rdname FUNCTION_NAME references BIB_CITATION section SECTION_NAME

source \url{http://somewhere.important.com/}

slot SLOTNAME DESCRIPTION

template FILENAME templateVar NAME VALUE

useDynLib PKG [routine_a routine_b]

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Examples

Description

Useful for supplying packages to the force argument to pretty_namespace.

Usage

```
make_force_packages(packages)
```

Arguments

packages

(character) packages to include in list. When duplicate function names exist the order of packages determines which function will be selected first - IE the first package with the function name will include that function, the second package with the function name will not have it listed.

Value

(named list) with package names as names as all exports as a character vector

Examples

```
make_force_packages(c("utils"))
```

make_import

Populate import fields for documentation

Description

Scrape R script to create import and importFrom calls for roxygen2, namespace or description files

Usage

```
make_import(
   script,
   cut = NULL,
   print = TRUE,
   format = "oxygen",
   desc_loc = NULL
)
```

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Arguments

script	character, connection to pass to readLines, can be file path, directory path, url path
cut	integer, number of functions to write as importFrom until switches to import, Default: NULL
print	boolean, print output to console, Default: TRUE
format	character, the output format must be in c('oxygen','description','import'), Default: 'oxygen'
desc_loc	character, path to DESCRIPTION file, if not NULL then the Imports fields in the DESCRIPTION file, Default: NULL

Examples

```
# copy dummy package to tempdir
file.copy(system.file('pkg',package = 'sinew'),tempdir(),recursive = TRUE)
pkg_dir <- file.path(tempdir(),'pkg')</pre>
pkg_dir_R <- file.path(pkg_dir,'R')</pre>
pkg_dir_DESC <- file.path(pkg_dir,'DESCRIPTION')</pre>
# update namespaces in package functions
pretty_namespace(pkg_dir_R, overwrite = TRUE)
# update imports/importsFrom for roxygen2 tags
make_import(pkg_dir_R,format = 'oxygen')
# update Imports for DESCRIPTION file output to console
make_import(pkg_dir_R,format = 'description')
# update Imports for DESCRIPTION file overwrite file
make_import(pkg_dir_R, format = 'description', desc_loc = pkg_dir)
cat(readLines(pkg_dir_DESC), sep = '\n')
# cleanup tempdir
unlink(pkg_dir, force = TRUE, recursive = TRUE)
```

moga Make Oxygen Great Again

Description

Update/append an R file that has roxygen2 headers already with updated information

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Usage

```
moga(path, ..., force.fields = NULL, dry.run = TRUE, overwrite = FALSE)
```

Arguments

path character path to R file

... arguments to be passed to new makeOxygen

force.fields character, vector a field names that are in current header that are to be updated

Default: NULL

dry.run boolean, write lines to console the output, Default: TRUE overwrite boolean, overwrite contents of input file, Default: FALSE

Details

Cross references fields already in the roxygen2 header and adds any new ones from the updated call. To force a change to a field add field name to force.fields.

Value

character

Examples

```
# We want to update the contents of the Roxygen2 with the new parameter "b"
# without touching the other fields

# Before
cat(readLines(system.file('example_moga.R',package = 'sinew')),sep = '\n')

# After
moga(system.file('example_moga.R',package = 'sinew'))
```

parse_check

parse_check

Description

check for fail of pretty_parse > parse, and offers to open file to offending line

Usage

```
parse_check(p, txt, ask)
```

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Arguments

р	result of pretty_parse > parse
txt	input text to pretty_parse
ask	boolean, If TRUE then a menu will be created for the use to choose between competing namespaces for a function, Default: TRUE

precey_addin meractivety run pretty functions in R and Rma files	pretty_addin	Interactively run pretty functions in R and Rmd files
--	--------------	---

Description

Addin that scans the file source contents and attaches namespace information.

Usage

```
pretty_addin()
```

Details

Either saved or untitled R or Rmd files in the source editor may be used.

In R files Highlight specific text, or not highlight at all and the whole document will be used.

In Rmd files highlight subsets of chunks to add namespaces directly in the chunks, or not highlight at all and the whole document will be used to create a new chunk at the top of the document with relevant namespaces needed to render the Rmd.

pretty_merge	pretty_merge		
--------------	--------------	--	--

Description

handles force and ignore arguments

Usage

```
pretty_merge(e1, e2)
```

Arguments

e1 (data.frame) typically sym.funs with list of all p	parsed functions in txt
---	-------------------------

e2 (list) typically force or ignore with list of namespaces and the respective

functions to force or ignore

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pretty_namespace

Append namespace to functions in script

Description

Autoappend namespace to functions in script by searchpath order

Usage

```
pretty_namespace(
  con = NULL,
  text = NULL,
  ask = TRUE,
  askenv = new.env(),
  force = NULL,
  ignore = NULL,
  overwrite = FALSE,
  sos = FALSE
)
```

Arguments

con	character, path to file or directory that contains script, Default: NULL
text	character, vector that contains script, Default: NULL
ask	boolean, If TRUE then a menu will be created for the use to choose between competing namespaces for a function, Default: TRUE
askenv	environment, environment that stores names of functions to force in ask, Default: new.env()
force	list, named list of functions to force over the internal search (seee details), Default: NULL
ignore	list, named list of functions to ignore (seee details), Default: NULL
overwrite	boolean, overwrite original file, Default: FALSE
sos	boolean, apply sos search for uninstalled libraries, Default: FALSE

Details

Searches for functions in the loadedNamespace, help.search and then findFn. If force is not NULL but a named list eg list(stats=c('rnorm', 'runif'), utils = 'head'), then the value pairs will be used in place of what was found using the search path. If ignore is not NULL but a named list eg list(stats=c('rnorm', 'runif'), utils = 'head'), then if the functions are found they will not have a namespace attached to them.

If you want to toggle off the summary console printing you can set it globally via sinew_opts\$set(pretty_print=FALSE).

Value

character

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Author(s)

Jonathan Sidi

See Also

findFn, help.search

Examples

```
txt <- '#some comment
yy <- function(a=4){
  head(runif(10),a)
  # a comment
}

zz <- function(v=10,a=8){
  head(runif(v),a)
}'

pretty_namespace(text=txt)</pre>
```

pretty_rmd

Attach namespacing to Rmarkdown chunks

Description

Apply pretty_namespace to Rmarkdown document

Usage

```
pretty_rmd(
  input,
  output = tempfile(fileext = ".Rmd"),
  open_output = TRUE,
  create_library = TRUE,
  chunks = NULL,
  ...
)
```

Arguments

```
input character, path to input Rmd file
output character, path to output Rmd file, Default: NULL
open_output boolean, open the output on.exit, Default: TRUE
create_library boolean, create library chunk, Default: TRUE
chunks numeric, indicies of chunks to run on, Default: NULL
... arguments to pass to pretty_namespace
```

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Details

If output is NULL then the returned lines are printed to console. If chunks is NULL then all the chunks are used.

Value

character

Author(s)

Jonathan Sidi

See Also

pretty_namespace

Examples

```
## Not run:
   if(interactive()){
     pretty_rmd(input = system.file('example.Rmd',package = 'sinew'))
   }
## End(Not run)
```

pretty_sinew

Convert File to R directory with pretty and oxygen

Description

One function to run pretty_namespace, untangle and makeOxyFile

Usage

```
pretty_sinew(con = NULL, text = NULL, dir.out = NULL, keep.body = TRUE)
```

Arguments

con character, path to file or directory that contains script, Default: NULL

text character, vector that contains script, Default: NULL dir.out character, path to save new R files, Default: NULL

keep.body boolean, if TRUE all non-functions will be saved to body.R in the parent direc-

tory of dir.out, Default: TRUE

Details

If dir.out is set to NULL all outputs are redirected into file.path(tempdir(),'sinew')

rmOxygen 15

Value

Nothing, side effects is to create files

Author(s)

Jonathan Sidi

rmOxygen

Remove roxygen2 Comments From an .R File

Description

```
Strips .R files of roxygen2 style comments (#')
```

Usage

```
rmOxygen(.file, showonexit = TRUE)
```

Arguments

.file character, path to an .R file, character vector of length 1 showonexit logical, show file on exit. Default: TRUE

Value

Nothing. Overwrites files as a side effect

Author(s)

Anton Grishin

```
## Not run:
rmOxygen("./myRfunctions/function1.R")
## End(Not run)
```

sinew_opts

sinew_opts

Default and current sinew options

Description

Options for functions in the sinew package. When running R code, the object sinew_opts (default options) is not modified by chunk headers (local chunk options are merged with default options), whereas sinew_opts_current (current options) changes with different chunk headers and it always reflects the options for the current chunk.

Usage

```
sinew_opts
sinew_opts_current
```

Format

An object of class list of length 5.

An object of class list of length 5.

Details

Normally we set up the global options once in the first code chunk in a document using sinew_opts\$set(), so that all *latter* chunks will use these options. Note the global options set in one chunk will not affect the options in this chunk itself, and that is why we often need to set global options in a separate chunk.

A list of default chunk options, can be retrieved via sinew_opts\$get()

Note

sinew_opts_current is read-only in the sense that it does nothing if you call sinew_opts_current\$set(); you can only query the options via sinew_opts_current\$get().

```
sinew_opts$get()
```

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tabular

Tabular for roxygen2

Description

Convert data.frame to roxygen2 tabular format

Usage

```
tabular(df, header = TRUE, ...)
```

Arguments

df data.frame to convert to table

header boolean to control if header is created from names(df), Default: TRUE

... arguments to pass to format

Value

character

Source

roxygen2 formatting

See Also

format

Examples

```
tabular(mtcars[1:5, 1:5])
tabular(mtcars[1:5, 1:5],header=FALSE)
```

untangle

Split an R script by functions

Description

Split a R script with multiple functions into multiple single function R files.

18 untangle

Usage

```
untangle(
  file = "",
  text = NULL,
  dir.out = "",
  keep.body = TRUE,
  dir.body = dirname(dir.out)
)
```

Arguments

file character, path to R file, Default: " text character, vector of R commands, Default: NULL character, path to save new R files, Default: NULL dir.out keep.body

boolean, if TRUE all non-functions will be saved to body.R in the parent direc-

tory of dir.out, Default: TRUE

dir.body character, path to save body.R files, Default: dirname(dir.out)

Details

Functions that are objects in lists are treated as objects and will stay in body.R.

Value

list of seperate functions

Author(s)

Jonathan Sidi

```
test_dir <- file.path(tempdir(), 'sinew_test')</pre>
dir.create(test_dir)
txt <- "#some comment
yy <- function(a=4){</pre>
head(runif(10),a)
 # a comment
v <- 20
#another comment
zz <- function(v=10,a=3){</pre>
head(runif(v),pmin(a,v))
```

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```
zz(v)

"
untangle(text = txt,dir.out = test_dir)
list.files(tempdir(), recursive = TRUE, pattern = '.R$')
cat( readLines(file.path(test_dir,'yy.R')), sep = '\n')
cat( readLines(file.path(test_dir,'zz.R')), sep = '\n')
cat( readLines(file.path(tempdir(),'body.R')), sep = '\n')
unlink(test_dir, force = TRUE, recursive = TRUE)
```

untangle_examples

Convert examples blocks in roxygen2 header to script

Description

Converts and aggregates roxygen2 examples into a single output file.

Usage

```
untangle_examples(input, output = "./roxy_ex_to_file.R")
```

Arguments

input character, file or directory

output character, file path of output, Default: './roxy_ex_to_file.R'

Details

If output is set to NULL then output returned as invisible character object.

Value

writes R file to disk

Author(s)

Jonathan Sidi

20 update_desc

update_desc

Update Package Description File

Description

Update package DESCRIPTION file Imports field

Usage

```
update_desc(path, overwrite = TRUE)
```

Arguments

path character, path to R folder containing package functions

overwrite logical, overwrite the file, Default: TRUE

Details

If overwrite is FALSE then the output will be returned to the console.

Author(s)

Jonathan Sidi

```
# copy dummy package to tempdir
file.copy(system.file('pkg',package = 'sinew'),tempdir(),recursive = TRUE)
pkg_dir <- file.path(tempdir(),'pkg')
pkg_dir_R <- file.path(pkg_dir,'R')
pkg_dir_DESC <- file.path(pkg_dir,'DESCRIPTION')

# update namespaces in package functions
pretty_namespace(pkg_dir_R,overwrite = TRUE)

# send result to the console
update_desc(pkg_dir_R,overwrite = FALSE)

# overwrite the Imports field
update_desc(pkg_dir_R,overwrite = TRUE)

# view DESCRIPTION file
cat(readLines(pkg_dir_DESC),sep='\n')

# cleanup tempdir
unlink(pkg_dir,recursive = TRUE,force = TRUE)</pre>
```

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