# Package 'svTools'

October 14, 2022

Type Package
Version 0.9-5
<b>Date</b> 2018-06-28
Title Wrappers for Tools in Other Packages for IDE Friendliness
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<b>Depends</b> R (>= $2.6.0$ )
Imports utils, codetools, grDevices, svMisc
<b>Description</b> Set of tools aimed at wrapping some of the functionalities of the packages tools, utils and codetools into a nicer format so that an IDE can use them.
License GPL-2
<pre>URL http://www.sciviews.org/SciViews-R,</pre>
http://romainfrancois.blog.free.fr/
<pre>BugReports https://r-forge.r-project.org/tracker/?group_id=194</pre>
NeedsCompilation no
Repository CRAN
<b>Date/Publication</b> 2018-06-28 13:45:16 UTC
R topics documented:  svTools-package

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# Description

Set of tools aimed at wrapping some of the functionalities of the packages tools, utils and codetools into a nicer format so that an IDE can use them.

## **Details**

Package: svTools Type: Package Version: 0.9-5 Date: 2018-06-28

License: GPL 2 or above, at your convenience

# Author(s)

Romain Francois

Maintainer: Ph. Grosjean <phgrosjean@sciviews.org>

bibRNews A list of papers that where published in R News

# Description

List all publications in R News (note: it is now replaced by the R Journal).

# Usage

data(bibRNews)

completeDescription 3

## **Format**

```
A data frame with 205 entries on the following 10 variables author the author(s) of the paper.
title the title of the paper.
journal this is always R News in this case.
year the year of publication.
volume the journal volume.
number the journal number in this volume.
pages pages for this paper.
month the month of publication of this volume.
url a link to the downloadable PDF version.
```

#### References

Writing R extensions

issue volume/number - year, month.

#### See Also

searchBiblio

## **Examples**

```
(data(bibRNews))
```

completeDescription

completion for DESCRIPTION files

#### **Description**

Proposes completions for a DESCRIPTION file.

## Usage

```
completeDescription(file, row, column, text = readLines(file),
    author = getOption("svTools.description.author"))
```

## **Arguments**

file a DESCRIPTION file to complete.

row line in the file where the cursor is located.
column column in the file where the cursor is located.

text text to complete.

author how to complete Author fields. The default value looks for the "svTools.description.author"

option.

#### Value

A list with the following items:

ok logical indicating if there actually are completions.

data character matrix. The first column gives the completion, the second a descrip-

tion.

token token that is being completed.

type type of results, can be \"package\", \"fields", \"other\".

## Author(s)

Romain Francois <francoisromain@free.fr>

#### References

Writing R extensions defines what should be in a DESCRIPTION file

#### See Also

lintDescription

completeNamespace

Namespace completion

## **Description**

Provides a completion list in the context of a NAMESPACE file.

## Usage

completeNamespace(line)

# Arguments

line the line currently edited in the NAMESPACE file.

## Value

A list with the possible completion items

#### Author(s)

Romain François <françoisromain@free.fr>

## See Also

lintNamespace

completeRoxygen 5

#### **Examples**

```
completeNamespace("import(")
completeNamespace("importFrom(")
completeNamespace("export(") # Not yet!
```

completeRoxygen

completion for R oxygen entries

## Description

Proposes completions for R oxygen inline documentation of R functions.

## Usage

```
completeRoxygen(line = "#'")
completeRoxygenParam(file, row, line = "#' @param ")
```

## Arguments

file a file to complete.

row location of the cursor (row) in the file.

line line of code currently edited.

#### Value

A list with the following items:

token token that is being completed. completions list of current completions.

tooltip further explanation about completion items (for completeRoxygen() only).

#### Author(s)

Romain François <françoisromain@free.fr>

# References

```
Roxygen. http://roxygen.org/
```

#### See Also

```
generateRoxygenTemplate
```

# Examples

```
completeRoxygen("#'")
completeRoxygen("#' @ex")
```

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completion

Code or arguments completion

#### **Description**

Provide a list of completion candidates for code or arguments like col, 1ty or pch.

## Usage

```
completeCode(...)
completeCol(line)
completeLty(line)
completePch(line)
```

# **Arguments**

arguments passed to completion.the line of code currently edited.

#### Value

For completeCode(), a list with these items:

token the token being completed.

 $completions \qquad a \ matrix \ of \ potential \ completions.$ 

fun in case of function completion, the name of the function.
tooltip in case of function completion, the function tooltip.

For completeCol(), a list with these items:

token the token being completed.

completions list of color names.

col.rgb matrix with RGB values for the corresponding colors.

For the other function, the returned list contains:

token the token being completed. completions list of completion items.

#### Author(s)

Romain Francois <francoisromain@free.fr>

#### See Also

```
completion
```

descriptionFields 7

## **Examples**

```
completeCode("browse")
completeCol("plot(x, y, col = ")
completeLty("plot(x, y, lty = ")
completePch("plot(x, y, pch = ")
```

 ${\tt descriptionFields}$ 

List of possible fields in DESCRIPTION files

# Description

List of possible fields in DESCRIPTION files and their meaning.

## Usage

```
data(descriptionFields)
```

#### **Format**

A data frame with 27 entries on the following 3 variables.

field the name of the field as it should appear on the DESCRIPTION file.

optional a factor with levels Mandatory and Optional.

description a description of each field.

## References

Writing R extensions

## See Also

```
{\tt lintDescription}, {\tt completeDescription}
```

## **Examples**

```
(data(descriptionFields))
```

 ${\tt generate} Roxygen {\tt Template}$ 

Roxygen template generator

## **Description**

Generate a default Roxygen template for this file.

#### Usage

# **Arguments**

file code file in which to add a roxygen roclet.

row line in the file.
column column in the file.

author. The default value uses the option "svTools.roxygen.author".

type type of output. "verbatim" is plain text. "superabbrev" is specific to jedit

#### Value

A character string that contains the roxygen comments to add in the file.

#### Author(s)

Romain François <françoisromain@free.fr>

## References

```
Roxygen. http://roxygen.org/
```

#### See Also

completeRoxygen

lint 9

# Description

Simple wrapper to the checkUsage() function of the codetools package that calls checkUsage() on all objects contained in a source file.

# Usage

```
lint(file, text = NULL, filename = NULL, encoding = getOption("encoding"),
    type = c("data.frame", "flat", "rjson"), sep = "+++")
```

## **Arguments**

file	file to check.
text	the R source code (as text) to lint; used only if file is not provided.
filename	the filename to flag returned errors.
encoding	encoding to assume for the file.
type	the type of output to produce.
sep	in case of flat output, what is the indicator to use as field separator?

## Value

A data frame, text output or rjson object of the errors/problems in the file or the R code in 'text' is returned.

## Author(s)

Romain Francois <francoisromain@free.fr> & Philippe Grosjean cphgrosjean@sciviews.org>

## See Also

```
{\tt checkUsage, lintDescription, lintNamespace}
```

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lintDescription

Description linter

## **Description**

Check correctness of the content in a DESCRIPTION file.

## Usage

```
lintDescription(descfile, txt = readLines(descfile))
```

## **Arguments**

descfile a DESCRIPTION file name.

txt the text containing the description; if provided, descfile is ignored.

#### Value

A data frame that contains errors found in the DESCRIPTION file.

#### Author(s)

Romain Francois <francoisromain@free.fr>

# See Also

completeDescription

lintNamespace

Namespace linter

#### **Description**

Check correctness of the code in a NAMESPACE file.

# Usage

```
lintNamespace(namespace, checkPackages = TRUE)
```

## **Arguments**

namespace a NAMESPACE file name.

checkPackages logical; if TRUE, packages that are set to be imported are checked if they are

actually installed.

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## Value

A data frame that contains errors found in the NAMESPACE file.

## Author(s)

Romain François <françoisromain@free.fr>

#### See Also

completeNamespace

pkgDesc

Get installed or loaded packages, or their description

# Description

This is similar to installed.packages() but with two additional columns indicating if the package is loaded and default. Description of packages can be retrieved from the local library, or from the Web (default repository).

# Usage

```
pkgLoaded()
pkgInstalled(pattern = NULL, ...)
pkgDesc(pkg, lib.loc = NULL, fields = NULL, encoding = "")
pkgWebDesc(pkg, repos = getOption("repos"))
```

## **Arguments**

pattern	filter on the name or the title of the packages.
	arguments for installed.packages.
pkg	character. The name of a R package.
lib.loc	the local library where the package is localted, or $NULL$ (by default) to search in all known libraries.
fields	which fields do we retrieve. If NULL (by default), all fields in the DESCRIPTION file are returned.
encoding	the encoding to use, or "" for default one.
repos	the repository where to look for the package description.

#### Value

A matrix similar to the result of installed.packages with two additional columns for pkgInstalled(). A character string for pkgLoaded(), pkgDesc() and pgkWebDesc().

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#### Author(s)

Romain François <françoisromain@free.fr>

#### See Also

```
installed.packages
```

#### **Examples**

```
pkgLoaded()
pkgInstalled()
pkgDesc("utils")
## Not run:
pkgWebDesc("svTools")
## End(Not run)
```

searchEngines

Various search engines for R documents

## **Description**

Documentation about R is widespread and not always easy to find. These functions look for documents in various places.

# Usage

```
searchBiblio(query, max = 30, url = "http://journal.r-project.org/RJournal.bib",
    add.bibRNews = TRUE, ...)
searchMailing(query, max = 30, groups = "*", prefix = "gmane.comp.lang.r")
searchGraph(query, max = 30)
searchPackage(query, max = 30)
searchWiki(query, max = 30)

## S3 method for class 'search'
print(x, detailed = TRUE, ...)
browse(object, ...)
## S3 method for class 'search'
browse(object, item = 1, ...)
```

## Arguments

query	one or several topics to search for.
max	maximum number of items to return.
url	the url from where the BibTeX file describing R Jounal articles can be downloaded.
add.bibRNews	also add data for R News (local cached version)?

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... further arguments passed to the function or method. groups the mailing lists and newsgroups sections to search.

prefix the gmane tree for the discussion archives.

x a 'search' object.

detailed do we print a detailled list of found items?

object a 'search' object.

item the index of the found item to browse.

#### Value

All the searchXXX() functions return a 'search' object that inherits from 'data.frame'. It contains the 'type' or search, the 'item' found, the 'page' in the item, a 'snippet' of the relevant text, a 'score' for this hit and the 'url' where the containt can be obtained.

The print() method presents the results in a more readable way, and one can browse() one item in the list.

#### Author(s)

Romain Francois <francoisromain@free.fr>

#### See Also

bibRNews, RSiteSearch

# Examples

```
## Not run:
searchBiblio("mean")
searchMailing("mean")
searchGraph("mean")
searchPackage("mean")
(res <- searchWiki("mean"))
browse(res, 1) # Display the first item
rm(res)
## End(Not run)</pre>
```

sidekick

Builds a tree structure of an R source file

## Description

The sidekick function builds a tree structure of an R code file by analysing output of the R parser.

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## Usage

```
sidekick(x, ...)
## S3 method for class 'character'
sidekick(x, encoding = getOption("encoding"), delete.file = FALSE, ...)
## Default S3 method:
sidekick(x, ...)
## S3 method for class 'function'
sidekick(x, ...)
```

## **Arguments**

```
    a file to parse and analyse. If x is a function, it is first dumped into a file.
    encoding
    encoding to use. Default to the encoding option (see options).
    should the file be delete when the function exits?
    further arguments to pass to the method.
```

#### Value

A Data frame with columns:

```
id
parent
srcref1
srcref2
srcref3
srcref4
description
```

## Author(s)

Romain François <françoisromain@free.fr>

#### See Also

parse

# **Examples**

```
## Not run:
sidekick(outer)
## End(Not run)
```

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