Package 'rcheology'

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Title Data on Base and Recommended Packages for Current and Previous Versions of R
Description
Provides a dataset of functions in all base and recommended packages of R versions 0.50 onwards.
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URL https://github.com/hughjonesd/rcheology
BugReports https://github.com/hughjonesd/rcheology/issues
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Contents

rcheology-package	2
fun_changed	3
rcheology	3
Rversions	4
	5

Index

rcheology-package

Description

rcheology is a data package providing two data frames:

Details

- rcheology lists objects in versions of R from 0.50 onwards.
- Rversions lists R versions and their release dates. NB: For a more complete and "canonical" solution, see the rversions package.

The version of the rcheology package reflects the latest R version to be included in the data, e.g. 3.5.1.x contains data up to and including R 3.5.1.

An online app for data exploration is available at https://hughjonesd.shinyapps.io/rcheology/.

Where the data comes from:

R versions are built using the evercran project.

Results are found from running ls(all.names = TRUE) on all installed packages. For more details, see guest-list-objects.R.

The Rversions data frame lists versions of R and release dates.

Limitations

- Functions not built on the relevant platform e.g. Windows functions are not included.
- R 0.60 data is not yet included.
- Functions in package tcltk are not yet included before R 2.0.0.

Historical quirks

- In 2.9.0, package Matrix was mistakenly given priority "Recommended" not "recommended" in the output of installed.packages().
- In 2.5.0, package rcompgen was given priority NA. The NEWS file records it as a recommended package.

Both these errors have been corrected in the rcheology data.

Author(s)

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See Also

Useful links:

- https://github.com/hughjonesd/rcheology
- Report bugs at https://github.com/hughjonesd/rcheology/issues

fun_changed

Description

Check if a core R function changed between R versions

Usage

fun_changed(fn, from = NULL, to = NULL, package = NULL)

Arguments

fn	Character name of a function in a core R package.
from	Minimum R version (optional).
to	Maximum R version (optional).
package	Name of the package (optional).

Value

0 if there was no change. 1 if the function's arguments changed. 2 if the function was not present in all versions. If the function can't be found or exists in multiple packages, throws an error.

Examples

fun_changed("debugonce")

fun_changed("debugonce", "3.4.0", "3.4.3")
fun_changed("debugonce", "3.3.0", "3.4.3")

rcheology

Data on objects from current and previous versions of R

Description

A data frame with every function (and other object) in versions of R from 0.50 onwards. Variables are:

- package: package the object comes from
- name: name of the object
- Rversion: version of R as major.minor.patch
- type: Result of calling typeof() on the object
- class: class() of the object, separated by slashes if there are multiple classes.

- exported: TRUE if the object name was found in getNamespaceExports(). True for anything in the "base" package. NA if the package does not have a namespace (e.g. "datasets" in early versions).
- hidden: TRUE if the object name starts with ".". These objects are not reported by ls().
- S4generic: TRUE if the object is an S4 generic according to methods::isGeneric(). Note that in earlier versions of rcheology, this column was called generic.
- priority: "base" for base packages, "recommended" for recommended packages. NA for earlier versions of R (pre 1.6.0) when the priority concept did not exist.
- args: the arguments of the function, or NA for non-functions

Rversions Previous R versions with dates

Description

A data frame with 2 variables:

- Rversion: version of R as major.minor.patch
- date: date of release

Details

This goes back to 0.x releases. For 2.15.1-w, see here.

Index

class(), 3

fun_changed, 3

getNamespaceExports(), 4

installed.packages(), 2

ls(),<mark>4</mark>

methods::isGeneric(), 4

rcheology, 2, 3
rcheology-package, 2
Rversions, 2, 4

typeof(), 3