

Package ‘rcheology’

July 18, 2025

Version 4.5.1.0

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>

Depends R (>= 3.5)

Encoding UTF-8

LazyData true

ByteCompile true

RoxygenNote 7.3.2

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

NeedsCompilation no

Author David Hugh-Jones [aut, cre]

Maintainer David Hugh-Jones <davidhughjones@gmail.com>

Repository CRAN

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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 `rcompn` 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)

Maintainer: David Hugh-Jones <davidhughjones@gmail.com>

See Also

Useful links:

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

fun_changed	<i>Check if a core R function changed between R versions</i>
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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	<i>Data on objects from current and previous versions of R</i>
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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](#).

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