Package 'rcheology'

July 20, 2026

Version 4.6.1.0

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

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Repository CRAN

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rcheology-package *Data on base packages from current and previous versions of R*

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 *Check if a core R function changed between R versions*

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

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`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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