Package 'rcheology'

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Version 4.2.2.0
Title Data on Base Packages for Current and Previous Versions of R
Description Provides a dataset of functions in all base packages of R versions 1.0.1 onwards.
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BugReports https://github.com/hughjonesd/rcheology/issues
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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 all versions of R from 1.0.1 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:

Versions 4.0.0 and up are installed from the CRAN apt repositories for Ubuntu Bionic.

Versions 3.0.1 to 3.6.3 are installed from the CRAN apt repositories for Ubuntu Trusty Tahr. Version 3.5.0 and up use a special repository.

Versions 2.5.1 to 3.0.0 are built from source on Ubuntu Lucid Lynx.

Versions 1.2.3 to 2.4.1 are mostly built from source on Debian Sarge.

Versions 1.0.1 to 1.2.2 (and a couple of later versions) are built from source on Debian Woody.

Results are found from running 1s on all installed packages from a minimal installation. Recommended packages are not included.

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.
- Because data is collected using the original R version, it is subject to changes in the way R works. For example, before 2.5.0, args() didn't work on Primitive functions, so those functions have no value in the args column.
- I have failed to build teltk on R versions 1.0.1-1.4.1 and 1.7.0/1, so there's no teltk data for these versions. If you can help, get in touch.

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Tun Changed —	fun_changed	Check if a core R function changed between R version
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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

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 1.0.1 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.

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• 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).

- generic: TRUE if the object is an S4 generic according to methods::isGeneric()
- 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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