

Package ‘r4sub’

May 9, 2026

Title Easily Install and Load the R4SUB Ecosystem

Version 0.1.0

Description The 'r4sub' package is a meta-package that installs and loads core packages of the R4SUB (R for Regulatory Submission) clinical submission readiness ecosystem. Loading 'r4sub' attaches 'r4subcore', 'r4subtrace', 'r4subscore', 'r4subrisk', 'r4subdata', and 'r4subprofile'.

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URL <https://github.com/R4SUB/r4sub>

BugReports <https://github.com/R4SUB/r4sub/issues>

Depends R (>= 4.2)

Imports cli, r4subcore, r4subdata, r4subprofile, r4subrisk, r4subscore, r4subtrace, rlang, tibble, utils

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Encoding UTF-8

RoxygenNote 7.3.3

NeedsCompilation no

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core_packages	<i>Core R4SUB packages</i>
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Description

Returns the names of the R4SUB packages that are automatically attached when `library(r4sub)` is called.

Usage

```
core_packages()
```

Value

A character vector of package names.

Examples

```
core_packages()
```

r4sub_cite	<i>Cite the R4SUB Ecosystem</i>
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Description

Prints citation information for the R4SUB ecosystem and each installed core package. Use this when citing R4SUB tools in a regulatory submission document, scientific paper, or validation report.

Usage

```
r4sub_cite(package = NULL)
```

Arguments

package	Character. Name of a specific R4SUB package to cite. If NULL (default), cites all installed core packages plus the meta-package.
---------	--

Value

Invisibly returns a named list of citation objects, one per package. Called for its side effect of printing citation information to the console.

Examples

```
r4sub_cite()
r4sub_cite("r4subcore")
```

r4sub_conflicts	<i>Show R4SUB Function Conflicts</i>
-----------------	--------------------------------------

Description

Reports any exported function name collisions between attached R4SUB packages and other loaded packages.

Usage

```
r4sub_conflicts()
```

Value

A tibble with columns: func, r4sub_package, other_package. Returned invisibly. Prints conflicts if any exist.

Examples

```
r4sub_conflicts()
```

r4sub_news	<i>Show R4SUB Ecosystem News</i>
------------	----------------------------------

Description

Prints the NEWS entries for each installed R4SUB ecosystem package. Useful for tracking what has changed across the ecosystem after updating.

Usage

```
r4sub_news(package = NULL)
```

Arguments

package	Character. Name of a specific R4SUB package to show news for. Must be one of the core R4SUB packages. If NULL (default), shows news for all installed core packages.
---------	--

Value

Invisibly returns a named list of news database objects, one per package. Called for its side effect of printing NEWS entries to the console.

Examples

```
r4sub_news()
r4sub_news("r4subcore")
```

r4sub_packages	<i>List R4SUB Ecosystem Packages</i>
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Description

Returns a tibble of all R4SUB packages with their installed version and current attachment status.

Usage

```
r4sub_packages(include_self = TRUE)
```

Arguments

`include_self` Logical. If TRUE (default), includes the r4sub meta-package itself in the listing.

Value

A tibble with columns: package, version, attached.

Examples

```
r4sub_packages()
```

r4sub_status	<i>Check R4SUB Package Installation Status</i>
--------------	--

Description

Reports the installed version of each R4SUB ecosystem package and highlights any packages that are not installed.

Usage

```
r4sub_status()
```

Value

A tibble with columns: package, installed. Returned invisibly. Called for its side effect of printing installation status to the console.

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Examples

```
r4sub_status()
```

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