Package ‘pkgsearch’

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Title Search and Query CRAN R Packages
Version 3.1.0
Description Search CRAN metadata about packages by keyword, popularity, recent activity, package name and more. Uses the 'R-hub' search server, see <https://r-pkg.org> and the CRAN metadata database, that contains information about CRAN packages. Note that this is not a CRAN project.
License MIT + file LICENSE
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    https://r-hub.github.io/pkgsearch/
BugReports https://github.com/r-hub/pkgsearch/issues
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Description


Usage

advanced_search(
  ...,  
  json = NULL,
  format = c("short", "long"),
  from = 1,
  size = 10
)

Arguments

...  Search terms. For named terms, the name specifies the field to search for. For unnamed ones, the term is taken as is. The individual terms are combined with the AND operator.

json  A character string that contains the query to send to Elastic. If this is not NULL, then you cannot specify any search terms in ....

format  Default formatting of the results. short only outputs the name and title of the packages, long also prints the author, last version, full description and URLs. Note that this only affects the default printing, and you can still inspect the full results, even if you specify short here.

from  Where to start listing the results, for pagination.

size  The number of results to list.

Value

Search hits.
Examples

# All orphaned packages
advanced_search(Maintainer = "ORPHANED")

# Packages with both Hester and Wickham as authors
advanced_search(Author = "Hester", Author = "Wickham")
advanced_search("Author: Hester AND Author: Wickham")

# Packages with Hester but not Wickham as author
advanced_search(Author = "Hester AND NOT Wickham")

# Packages with Hester as an Author, and Wickham in any field
advanced_search(Author = "Hester", "Wickham")

# Packages with Hester as an Author and Wickham nowhere in the metadata
advanced_search(Author = "Hester", "NOT Wickham")

# Packages for permutation tests and permissive licenses
advanced_search("permutation test AND NOT License: GPL OR GNU")

# Packages that have a certain field
advanced_search("_exists_" = "URL")

# Packages that do not have a certain field:
advanced_search("NOT _exists_: URL")

# The same but as JSON query
query <- '{
  "query": {
    "bool": {
      "must_not": {
        "exists": {
          "field": "URL"
        }
      }
    }
  }
}'
advanced_search(json = query)

# Regular expressions
advanced_search(Author = "/Joh?nathan/"

# Fuzzy search
advanced_search(Author = "Johnathan-1")
Description
List of all CRAN events (new, updated, archived packages)

Usage
cran_events(releases = TRUE, archivals = TRUE, limit = 10, from = 1)

## S3 method for class 'cran_event_list'
summary(object, ...)

## S3 method for class 'cran_event_list'
print(x, ...)

Arguments
releases Whether to include package releases.
archivals Whether to include package archivals.
limit Number of events to list.
from Where to start the list, for pagination.
object Object to summarize.
... Additional arguments are ignored currently.
x Object to print.

Value
List of events.

Examples
cran_events()
cran_events(limit = 5, releases = FALSE)
cran_events(limit = 5, archivals = FALSE)
summary(cran_events(limit = 10))

---

cran_new

Description
List the latest new CRAN packages.

Usage
cran_new(from = "last-week", to = "now", last = Inf)
cran_package

Metadata about a CRAN package

Description

Metadata about a CRAN package
cran_package

Usage

cran_package(name, version = NULL)

Arguments

name  Name of the package.
version  The package version to query. If NULL, the latest version if returned.

Value

The package metadata, in a named list.

Examples

cran_package("pkgsearch")

---

cran_packages

Metadata about multiple CRAN packages

Description

Metadata about multiple CRAN packages

Usage

cran_packages(names)

Arguments

names  Package names. May also contain versions, separated by a @ character.

Value

A data frame of package metadata, one package per row.

Examples

# Get metadata about one package
cran_packages("rhub")
# Get metadata about two packages
cran_packages(c("rhub", "testthat"))
# Get metadata about two packages at given versions
cran_packages(c("rhub@1.1.1", "testthat@2.2.1", "testthat@2.2.0"))
# If a version does not exist nothing is returned
cran_packages("rhub@notaversion")
cran_package_history  

Query the history of a package

description
Query the history of a package

Usage

cran_package_history(package)

Arguments

package  Package name.

Value

A data frame, with one row per package version.

Examples

cran_package_history("igraph")

cran_top_downloaded  

Top downloaded packages

Description

Last week.

Usage

cran_top_downloaded()

Details

You can use the cranlogs package to get more flexibility into what is returned.

Value

Data frame of top downloaded packages.

Examples

 cran_top_downloaded()
cran_trending

Trending R packages

Description
Trending packages are the ones that were downloaded at least 1000 times during last week, and that substantially increased their download counts, compared to the average weekly downloads in the previous 24 weeks. The percentage of increase is also shown in the output.

Usage
cran_trending()

Value
Data frame of trending packages.

Examples
cran_trending()

pkg_search

Search CRAN packages

Description
pkg_search() starts a new search query, or shows the details of the previous query, if called without arguments.
ps() is an alias to pkg_search().
more() retrieves that next page of results for the previous query.

Usage
pkg_search(query = NULL, format = c("short", "long"), from = 1, size = 10)
ps(query = NULL, format = c("short", "long"), from = 1, size = 10)
more(format = NULL, size = NULL)

## S3 method for class 'pkg_search_result'
summary(object, ...)

## S3 method for class 'pkg_search_result'
print(x, ...)
pkg_search

Arguments

query
Search query string. If this argument is missing or NULL, then the results of the last query are printed, in short and long formats, in turns for successive pkg_search() calls. If this argument is missing, then all other arguments are ignored.

format
Default formatting of the results. short only outputs the name and title of the packages, long also prints the author, last version, full description and URLs. Note that this only affects the default printing, and you can still inspect the full results, even if you specify short here.

from
Where to start listing the results, for pagination.

size
The number of results to list.

object
Object to summarize.

... Additional arguments, ignored currently.

x Object to print.

Details

Note that the search needs a working Internet connection.

Value

A data frame with columns:

- score: Score of the hit. See Section Scoring for some details.
- package: Package name.
- version: Latest package version.
- title: Package title.
- description: Short package description.
- date: Time stamp of the last release.
- maintainer_name: Name of the package maintainer.
- maintainer_email: Email address of the package maintainer.
- revdeps: Number of (strong and weak) reverse dependencies of the package.
- downloads_last_month: Raw number of package downloads last month, from the RStudio CRAN mirror.
- license: Package license.
- url: Package URL(s).
- bugreports: URL of issue tracker, or email address for bug reports.
Examples

```r
# Example
ps("survival")

# Pagination
ps("networks")
more()

# Details
ps("visualization")
ps()

# See the underlying data frame
ps("ropensci")
ps()[]
```

---

**pkg_search_addin**  
**RStudio addin to search CRAN packages**

Description

Call this function from RStudio for best results. You can also use it without RStudio, then it will run in the web browser.

Usage

```
pkg_search_addin(query = "", viewer = c("dialog", "browser"))
```

Arguments

- **query**  
  Query string to start the addin with.
- **viewer**  
  Whether to show the addin within RStudio ("dialog"), or in a web browser ("browser").

Details

The app has:

- A search tab for free text search, very much like the `pkg_search()` function.
- The list of recently updated packages.
- The list of top packages: most downloaded, most depended upon, and trending packages.
- Package list by maintainer.
Examples

pkg_search_addin()

# Start with a search query
pkg_search_addin("permutation test")
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