Package ‘pkgsearch’

October 8, 2020

Title  Search and Query CRAN R Packages
Version  3.0.3
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
LazyData  true
BugReports  https://github.com/r-hub/pkgsearch/issues
Imports  assertthat, curl, jsonlite, parsedate, prettyunits, tibble
Suggests  mockery, covr, memoise, pingr (>= 2.0.0), rstudioapi, shiny, shinyjs, shinyWidgets, testthat (>= 2.1.0), whoami
Encoding  UTF-8
RoxygenNote  7.1.1
NeedsCompilation  no
Author  Gábor Csárdi [aut, cre], Maëlle Salmon [aut] (<https://orcid.org/0000-0002-2815-0399>), R Consortium [fnd]
Maintainer  Gábor Csárdi <csardi.gabor@gmail.com>
Repository  CRAN
Date/Publication  2020-10-08 17:40:12 UTC

R topics documented:

advanced_search  ................................................................. 2
cran_events  ........................................................................... 3
cran_package  ................................................................. 4
advanced_search

cran_packages ........................................ 5
cran_package_history .................................. 6
cran_top_downloaded .................................. 6
cran_trending ......................................... 7
pkg_search ............................................ 7
pkg_search_addin ..................................... 9

Index 11

advanced_search  Advanced CRAN package search

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.
cran_events

Examples

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

# Packages that match a certain field
advanced_search(Author = "Hester AND 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")

cran_events  List of all CRAN events (new, updated, archived packages)

Description

List of all CRAN events (new, updated, archived packages)

Usage

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

## 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_package

Metadata about a CRAN package

Description

Metadata about a 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.
cran_packages

Value
The package metadata, in a named list.

Examples

```r
cran_package("pkgsearch")
```

---

### cran_packages

*Metadata about multiple CRAN packages*

**Description**

Metadata about multiple CRAN packages

**Usage**

```r
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**

```r
# 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**
```r
cran_package_history(package)
```

**Arguments**
- `package`  
  Package name.

**Value**
A tibble, with one row per package version.

**Examples**
```r
cran_package_history("igraph")
```

---

cran_top_downloaded  *Top downloaded packages*

**Description**
Last week.

**Usage**
```r
cran_top_downloaded()
```

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

**Value**
Tibble of top downloaded packages.

**Examples**
```r
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**

Tibble 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, ...)
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 tibble 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.
pkg_search_addin

Examples

# Example
ps("survival")

# Pagination
ps("networks")
more()

# Details
ps("visualization")
ps()

# See the underlying tibble
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")
Index

advanced_search, 2

cran_events, 3
cran_package, 4
cran_package_history, 6
cran_packages, 5
cran_top_downloaded, 6
cran_trending, 7

more (pkg_search), 7

pkg_search, 7
pkg_search(), 9
pkg_search_addin, 9
print.cran_event_list (cran_events), 3
print.pkg_search_result (pkg_search), 7
ps (pkg_search), 7

summary.cran_event_list (cran_events), 3
summary.pkg_search_result (pkg_search), 7