# Package 'pkgsearch'

December 19, 2019

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Title Search and Query CRAN R Packages
Version 3.0.2
<b>Description</b> Search CRAN metadata about packages by keyword, popularity, recent activity, package name and more. Uses the 'R-hub' search server, see <a href="https://r-pkg.org">https://r-pkg.org</a> and the CRAN metadata database, that contains information about CRAN packages. Note that this is _not_ a CRAN project.
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LazyData true
URL https://github.com/r-hub/pkgsearch,
https://r-hub.github.io/pkgsearch
BugReports https://github.com/r-hub/pkgsearch/issues
Imports assertthat, httr, jsonlite, parsedate, prettyunits, tibble
<b>Suggests</b> mockery, covr, memoise, pingr (>= 2.0.0), rstudioapi, shiny, shinyWidgets, testthat (>= 2.1.0), whoami
Encoding UTF-8
RoxygenNote 7.0.0
NeedsCompilation no
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Repository CRAN
<b>Date/Publication</b> 2019-12-19 18:50:06 UTC
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advanced\_search

Advanced CRAN package search

# Description

See the Elastic documentation for the syntax and features: https://www.elastic.co/guide/en/elasticsearch/reference/current/quedsl-query-string-query.html

# 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. <i>short</i> only outputs the name and title of the packages, <i>long</i> 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 <i>short</i> here.
from	Where to start listing the results, for pagination.
size	The number of results to list.

# Value

Search hits.

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#### **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)
```

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```
## 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.

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# 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 tibble, 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

Tibble of top downloaded packages.

# **Examples**

```
cran_top_downloaded()
```

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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, ...)
```

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 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.

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### **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.

pkg\_search\_addin

# Examples

```
pkg_search_addin()

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

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