Package 'RWsearch'

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Title Lazy Search in R Packages, Task Views, CRAN, the Web. All-in-One Download

Description Search by keywords in R packages, task views, CRAN, the web and display the results in the console or in txt, html or pdf files. Download the whole documentation of packages (html index, pdf manual, vignettes, source code, etc) with a single instruction. Visualize the package dependencies and CRAN checks. Explore CRAN archive. Use the above functions for task view maintenance. Use quick links and 70 web search engines to explore the web. A lazy evaluation of non-standard content is available throughout the package and eases the use of many functions.

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Description

Index

Search by keywords in R packages, task views, CRAN, the web and display the results in console, txt, html or pdf pages. Download the whole documentation (html index, pdf manual, readme, vignettes, source code, etc) with a single instruction, either in a flat format or in subdirectories defined by the keywords. Visualize the package dependencies. Several functions for task view maintenance and exploration of CRAN archive. Quick links to more than 70 web search engines.

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Lazy evaluation of non-standard content is available throughout the package and eases the use of many functions. Packages RWsearch and pacman share the same syntax and complement each other. Inspired by packages ctv, foghorn, latexpdf, pacman, sos.

Examples

```
### NON-STANDARD CONTENT - NON-STANDARD EVALUATION
## Non-standard content (nsc1, nsc2), standard content ("stc3", "double word4")
## and regular object (obj) stored in .GlobalEnv can be merged with cnsc()
obj <- c("obj5", "obj6")
cnsc(nsc1, nsc2, "stc3", "double word4", obj)
### DOWNLOAD CRANDB AND CHECKDB
## In real life, download crandb and checkdb from CRAN or load them
## with functions crandb_down(), crandb_load(), checkdb_down(), checkdb_load().
## checkdb can be ignored if less than npkgs are explored.
## In this example, we use two small files.
crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))
checkdb_load(system.file("aabb", "zcheck_results.rds", package = "RWsearch"))
### SEARCH IN CRANDB
## Search in crandb. Use standard or non-standard content.
## Display the results in a vector or in a list.
s_crandb(search, find, cran, web)
s_crandb(search, find, cran, web, select = "PD", mode = "relax")
s_crandb(c("thermodynamic", "chemical reaction"))
(lst <- s_crandb_list(thermodynamic, "chemical reaction"))</pre>
### DISPLAY THE RESULTS
## in the console, in (txt, md, pdf) files or in the browser.
p_table2(lst)
p_table7pdf(lst, dir = file.path(tempdir(), "ptable"), cleantex = FALSE, openpdf = TRUE)
p_text(lst, dir = file.path(tempdir(), "ptext2"), editor = TRUE,
           repos = "https://cloud.r-project.org")
p_text2pdf(lst, dir = file.path(tempdir(), "ptext2"), cleantex = FALSE,
           openpdf = TRUE, repos = "https://cloud.r-project.org")
p_display(lst, dir = tempdir())
### VISUALIZE THE DOCUMENTATION
## from installed packages or U. Pennsylviana in the browser
p_html(brew, sig)
p_htmlweb(foghorn)
p_pdfweb(sos, repos = "https://cloud.r-project.org")
### VISUALIZE THE PACKAGE CHECKS AND THE DEPENDENCIES
p_check(RWsearch, repos = "https://cloud.r-project.org")
p_checkdeps_lst(RWsearch, repos = "https://cloud.r-project.org")
p_graphF(RWsearch) # Parents
p_graphF(actuar, fitdistrplus, reverse = TRUE) # Children
### DOWNLOAD THE DOCUMENTATION
## Vector => download in the "docpkgs" directory ("." is for current directory)
## List => download in subdirectories named after the keywords
```

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```
## (non-standard content is accepted)
p_down(pacman, pdfsearch, sos, dir = file.path(tempdir(), "pdown"),
      repos = "https://cloud.r-project.org")
p_down(lst, dir = file.path(tempdir(), "pdown"), repos = "https://cloud.r-project.org")
### SEARCH WITH sos (U. PENNSYLVANIA)
(res <- s_sos(distillation))</pre>
data.frame(res)
### LAUNCH WEBSITES AND SEARCH ENGINES
h_cranbydate(repos = "https://cloud.r-project.org")
h_yt("Serge Gainsbourg Ne dis rien")
h_so(R, deep, neural, network)
h_osm("La Ferriere sous Jougne")
h_mw(recension)
h_lexilogos()
### TASK VIEW MAINTENANCE
## In real life, download crandb and tvdb from CRAN or load them from your directory
## with functions crandb_down(), crandb_load(), tvdb_down(), tvdb_load().
## In this example, we use small files.
crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))
tvdb_load(system.file("data", "ztvdb.rda", package = "RWsearch"))
## List the task views
tvdb_vec()
tvdb_pkgs(gR, Genetics, Robust)
## Search for some packages in the task views
s_tvdb(actuar, FatTailsR, MASS, zoo, nopackage)
## Search for the recent packages in crandb that contain the keyword
## and verify if the packages are already refereed in the task view.
## from = "2017-01-01" and "2018-01-01" are selected for this small example.
s_crandb_tvdb("distribution", tv = "Distributions", from = "2017-01-01")
s_crandb_tvdb("distribution", tv = "Distributions", from = "2018-01-01")
### EXPLORE CRAN ARCHIVE AND DOWNLOAD OLD tar.gz FILES
## In real life, download archivedb and crandb from CRAN
## with the functions archivedb_down() and crandb_down().
## In this example, we load two small files (50 and 43 packages).
crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))
archivedb_load(system.file("aabb", "zCRAN-archive.html", package = "RWsearch"))
archivedb_npkgs()
lapply(archivedb_list(), tail)
## Download the latest tar.gz version from CRAN archive
## (this works for both both existing and removed packages).
p_downarch(fitur, zmatrix, dir = file.path(tempdir(), "pdownarch"))
```

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archivedb

CRAN archive (CRAN-archive.html + archivedb)

Description

The following functions deal with the packages archived in CRAN. The html file downloaded from CRAN contains the regular packages that have been updated once and the packages that have been removed from CRAN by CRAN administrators. It does not contain the first version of the packages uploaded to CRAN and never updated. These files and the files removed from CRAN index can be guessed through a comparison with crandb.

archivedb_down downloads from CRAN the html file of the archived packages, saves it on the disk under the name filename, extracts from it and loads in .GlobalEnv a data.frame named archivedb.

archivedb_load reads the html file filename saved on the disk, extracts from it and loads in .GlobalEnv a data.frame named archivedb.

archivedb_npkgs returns the number of packages listed each category: number of packages in crandb, in archivedb, at first version, at subsequent version and removed from crandb (CRAN index).

archivedb_pkgs returns the packages listed in CRAN archive (= archivedb).

archivedb_rempkgs returns the packages removed from CRAN but available in CRAN archive. The result can be combined with p_check to display the last CRAN check performed (if available). See the example.

archivedb_list compares the data.frame archivedb and crandb and returns a list with the following items:

- pkgs_crandb: the packages listed in crandb.
- pkgs_archivedb: the packages listed in archivedb.
- pkgs_first: the packages in first version in crandb.
- pkgs updated: the packages with more than one version in crandb.
- pkgs_removed: the archived packages removed from CRAN regular index, i.e. not listed in crandb.
- dfr_crandb: data.frame pkgs_crandb + Published date.
- dfr_archivedb: data.frame pkgs_archivedb + Archived date.
- dfr_first: data.frame pkgs_first + Published date.
- dfr_updated: data.frame pkgs_updated + Published date.
- dfr_removed: data.frame pkgs_removed+ Archived date.
- npkgs: the number of packages in each category.

Use p_archive_1st to list the package versions stored in CRAN archive.

Use p_downarch to download packages from CRAN archive, either the latest version or a specific version number.

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Usage

```
archivedb_down(filename = "CRAN-archive.html", dir = ".",
    url = "https://cran.r-project.org/src/contrib/Archive")

archivedb_load(filename = "CRAN-archive.html")

archivedb_npkgs(archivedb = get("archivedb", envir = .GlobalEnv),
    crandb = get("crandb", envir = .GlobalEnv))

archivedb_pkgs(archivedb = get("archivedb", envir = .GlobalEnv))

archivedb_rempkgs(archivedb = get("archivedb", envir = .GlobalEnv),
    crandb = get("crandb", envir = .GlobalEnv))

archivedb_list(archivedb = get("archivedb", envir = .GlobalEnv),
    crandb = get("crandb", envir = .GlobalEnv))
```

Arguments

filename	character. The path to file "CRAN-archive.html" (or equivalent).
dir	character. The directory where filename or tar.gz files are saved. Default value " $$." is the current directory.
url	character. The url address of CRAN archive html file.
archivedb	data.frame archivedb. The archivedb data.frame format loaded in memory by archivedb_down or archivedb_load.
crandb	data.frame crandb. The data.frame of CRAN packages.

Examples

```
### DOWNLOAD archivedb AND COMPARE IT WITH crandb.
## In real life, download archivedb and crandb from CRAN
## with the functions archivedb_down() and crandb_down().
## In this example, we load two small files.
crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))
archivedb_load(system.file("aabb", "zCRAN-archive.html", package = "RWsearch"))
archivedb_npkgs()
archivedb_pkgs()
archivedb_rempkgs()
lst <- archivedb_list()</pre>
lapply(lst, head)
lapply(lst, tail)
xlim <- as.Date(range(lst$dfr_archivedb$Archived)) ; xlim</pre>
op \leftarrow par(mfrow = c(2,1))
hist(as.Date(lst$dfr_first$Published),
     breaks = 12, freq = TRUE, las = 1, xlim = xlim)
hist(as.Date(lst$dfr_archivedb$Archived),
     breaks = 12, freq = TRUE, las = 1, xlim = xlim)
```

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par(op)

checkdb

CRAN checks file (check_results.rds)

Description

checkdb_down downloads from CRAN the file *check_results.rds*, saves it unchanged in the designated directory, by default in the current directory, then loads it in .GlobalEnv under the name checkdb. checkdb is a data.frame of dimension 200000 x 10 (approximatavely).

checkdb_load loads the file filename, by default check_results.rds in .GlobalEnv under the name checkdb.

Usage

```
checkdb_down(dir = ".", repos = getOption("repos")[1])
checkdb_load(filename = "check_results.rds")
```

Arguments

dir character. The directory where filename or tar.gz files are saved. Default value

"." is the current directory.

repos character. The address of your local CRAN.

filename character. The path to file "check_results.rds" (or equivalent).

Examples

```
### In this first example, we use a small file synchronized with zcrandb.
checkdb_load(system.file("aabb", "zcheck_results.rds", package = "RWsearch"))
dim(checkdb)
head(checkdb, 15)
```

cnsc

Conversion of Non-Standard Content into a Character Chain

Description

cnsc converts standard content and non-standard content . . . into a character chain. Standard content, including *calls*, is evaluated. Non-standard content and non-existing objects (in .GlobalEnv) are converted into character chains. Regular lists are kept unchanged.

cnscinfun is intended to be used inside a function. It should not be used directly. If you find it appealing, copy the code of cnscinfun in your package and use it as an hidden function.

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Usage

```
cnsc(...)
cnscinfun()
cnscinfun2(...)
```

Arguments

... Character vectors, standard or non-standard, existing or non-existing R objects, regular call. Examples: "word1"; c("word1 word2"); c("word1", "word2"); "word1", "word2", "word3"; word1, word2, c("word3", "word4").

Examples

```
### cnsc
## Non-standard content (nsc1, nsc2), standard content ("stc3", "double word4")
## and regular object (vec) stored in .GlobalEnv are merged.
vec <- c("obj5", "obj6")</pre>
cnsc(nsc1, nsc2, "stc3", "double word4", vec)
## Lists, either name in .GlobalEnv or call, are evaluated.
lst \leftarrow list(A = c("txt1", "txt2", "txt3"), B = c("txt4", "txt5"))
cnsc(list(C = c("pkg1", "pkg2", "pkg3"), D = c("pkg4", "pkg5")))
### cnscinfun
fun <- function(...) cnscinfun()</pre>
fun(nsc1, nsc2, "stc3", "double word4", vec)
fun(lst)
### cnscinfun used in RWsearch: one line at the begining of each function.
### An easy-to-use Non Standard Evaluation, mainly for characters.
funsort <- function(..., char = NULL) {</pre>
 words <- if (is.null(char)) cnscinfun() else char</pre>
 sort(words)
 # or more complex code
}
funsort(nsc1, nsc2, "stc3", "double word4", vec)
funsort(char = sample(vec, 5, replace = TRUE))
```

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Description

crandb_down downloads from CRAN the file <code>packages.rds</code>, a file refreshed everyday that describes the packages available in CRAN for this day, rename (with make.names) the column names that are syntactically invalid, removes the duplicated lines located at the end of the file, cleans some bad characters in the Description column, loads the resulting data.frame in .GlobalEnv under the name <code>crandb</code> and saves it in the current directory with the name <code>crandb.rda</code>. If <code>oldfile</code> is defined, the vector of packages between the two files is compared.

crandb_load loads the file filename in .GlobalEnv under the name crandb. Equivalent to load("crandb.rda"). Use this function if you are not connected to internet or do not want to refresh your file.

crandb_pkgs displays all packages listed in crandb. The number of packages is larger than the number obtained with nrow(available.packages()) since packages for all OSes are counted.

crandb_fromto displays the packages published in CRAN between two dates.

Usage

```
crandb_down(dir = ".", oldfile = "crandb.rda", verbose = TRUE,
    repos = getOption("repos")[1])

crandb_load(filename = "crandb.rda")

crandb_comp(filename = "crandb.rda", oldfile = "crandb-old.rda", addtxt = "")

crandb_pkgs(bydate = FALSE, rev = FALSE, crandb = get("crandb", envir =
    .GlobalEnv))

crandb_fromto(from = -10, to = Sys.Date(), crandb = get("crandb", envir =
    .GlobalEnv))
```

Arguments

dir	character. The directory where "crandb.rda" is saved and the old "crandb.rda" is read. Default value "." is the current directory.
oldfile	character or NULL. The (path to an) old file that will be compared to a freshly downloaded version of "crandb.rda" or to filename. Set to NULL if no comparison is required.
verbose	logical. TRUE prints the result. FALSE keeps it invisible.
repos	character. The address of your local CRAN.
filename	character. The (path to a) file "crandb.rda" or an equivalent.
addtxt	character. Internal use.
bydate	logical. List the package by date of publication rather than by alphabetical order.
rev	logical. Print in reverse order.
crandb	data.frame crandb. The data.frame of CRAN packages.
from	Negative integer or character representing a date. The number of days preceeding to or a date before to.
to	date. The upper date in the search.

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Examples

```
### In this example, we use a small file.
## List the 110 packages of this file, the ones uploaded since 2020-01-01
## and those uploaded in the last 15 days before the last date (2020-04-17)
crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))
crandb_pkgs()
dim(crandb)
colnames(crandb)
crandb$Published
crandb_fromto(from = "2020-01-01", to = Sys.Date())
pkgs <- crandb_fromto(from = -15, to = max(crandb$Published)) ; pkgs</pre>
p_table2(pkgs) # Print in the console (better if full width)
p_display7(pkgs, dir = tempdir()) # Display in the browser
### In the real life, we use a fresh file downloaded from CRAN (6 MB / 20").
## Here, we retrieve the packages uploaded in the last 2 days.
# crandb_down(dir = tempdir(), repos = "https://cloud.r-project.org")
# crandb_fromto(-2)
```

cranmirrors

CRAN archive (CRAN-archive.html + archivedb)

Description

cranmirrors_down downloads the csv file of CRAN mirrors, modifies the "Maintainer" and "Host" columns, eventually saves the modified data.frame on the disk, loads this dat.frame in .GlobalEnv and print in the console a subset with the selected columns.

Usage

```
cranmirrors_down(filename = "CRAN-mirrors1.csv", dir = ".",
  columns = c(1, 3, 7), save = FALSE,
  url = "ftp://cran.r-project.org/pub/R/CRAN_mirrors.csv")
```

Arguments

filename	character. The path to file "CRAN-mirrors1.csv" (or equivalent).
dir	character. The directory where filename is saved. Default value "." is the current directory.
columns	a vector of integers or a vector of names. The column numbers or the column names. Allowed numbers are within 1:9. Allowed names are: "Name", "Country", "City", "URL", "Host", "Maintainer", "OK", "CountryCode" and "Comment".
save	logical. Save the file. If FALSE, the default, the file is just loaded in .GlobalEnv and a subset is printed in the console.
url	character. The url address of the CRAN csv file.

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Examples

```
cranmirrors_down(dir = tempdir(), save = TRUE)
```

e_check

Package Check Results By Email Address

Description

e_check opens the browser and returns the "CRAN Check Results" page(s) of the packages maintained by one or several maintainers identified by their regular email addresses (but not the orphaned ones). An internet connection is required.

This function is a simplified version of the functions proposed in package *foghorn*.

Usage

```
e_check(..., char = NULL, repos = getOption("repos")[1])
```

Arguments

any format recognized by cnsc, except list. A vector of quoted "e-mail adresses".
 (name to) a character vector. Use this argument if . . . fails or if you call the function from another function. If used, argument . . . is ignored.
 repos character. The address of your local CRAN.

Examples

funmaintext

Modify the Main Text and the Markdown Header in p_text Function

Description

Use funmaintext or funmaintext2 to select the function that displays the main text. Usage is f_maintext = funmaintext (without curly braces).

Use funheadermd to insert markdown header in function sep1 = funheadermd() (with curly braces).

See the example in p_text. To create you own functions, use these functions as a pattern. The five parameters in f_maintext, funmaintext are mandatory. funheadermd can be freely modified.

 f_{args}

Usage

```
funmaintext(pkg, sep1, sep2, eol, crandb, repos)
funmaintex(pkg, sep1, sep2, eol, crandb, repos)
funheadermd(title = "TITLE", author = "AUTHOR", date = Sys.Date(),
    keep_tex = "false", toc = "false", number_sections = "true",
    fontsize = "10pt", papersize = "a4paper", margin = "1in")
funheadertex(fontsize = "10pt", papersize = "a4paper", margin = "1in")
funfootertex()
```

Arguments

pkg	character. The package name.
sep1	character. The symbols written just before each package name.
sep2	character. The symbols written just after each package name.
eol	character. The end of line for the main text (but not for the header and the footer). " \n " for text, " \n " for rmarkdown, " \n " for latex.
crandb	data.frame crandb. The data.frame of CRAN packages.
repos	character. The address of your local CRAN.
title	character. The title of the .md document (and then in the .pdf file).
author	character. The author of the .md document.
date	character. The date of the document. Any text format is accepted.
keep_tex	character. "true" or "false".
toc number_section	character. "true" or "false".
	character. "true" or "false".
fontsize	character. Usually "10pt", "11pt", "12pt.
papersize	character. The usual tex format. Example: "a4paper".
margin	character. In inches, cm or mm. Example: "0.5in", "1.5cm", "25mm".

f_args Names and Arguments of Functions

Description

f_args is a wrapper of the base function args.

 f_sig prints the name and arguments of one or several functions in a readable style. It wraps the function sig::sig.

p_sig prints the name and arguments of the functions exported by one or several packages. It wraps the function sig::list_sigs.

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Usage

```
f_args(..., char = NULL)

f_sig(..., char = NULL)

p_sig(..., char = NULL, pattern = NULL)
```

Arguments

... any format recognized by cnsc, except list. A vector of unquoted "functions" or

characters.

char (name to) a character vector. Use this argument if ... fails or if you call the

function from another function. If used, argument . . . is ignored.

pattern a regular expression. See the example.

Examples

```
f_args(mean, p_display)
f_sig( mean, p_display)

library(brew)
library(sos)
p_sig(brew)
p_sig(RWsearch, sos, pattern = "^f")
```

f_pdf

PDF Pages of Functions

Description

f_pdf generates in the current directory the pdf pages of one or several functions. The pdf pages are printed but not opened. Miktex or Texlive is required. This function wraps {utils::help} with the pdf option activated. Similar functions are available in the packages *document* and *sinew*.

Usage

```
f_pdf(..., char = NULL)
```

Arguments

... any format recognized by cnsc, except list. A vector of quoted "package::function".

char (name to) a character vector. Use this argument if ... fails or if you call the

function from another function. If used, argument . . . is ignored.

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Examples

```
## FALSE is here to avoid a NOTE in CRAN checks. Ignore this line.
if (FALSE) {
   f_pdf(c("RWsearch::cnsc", "RWsearch::p_inun"))
}
```

h_direct

Open a Web Page in the Browser

Description

h_academie gives access to the Academie française's dictionary.

 h_etz gives access to the EveryTimeZone website.

h_framasoft gives access to several free web services (as in speech and in half pint of beer) that are good alternatives to GAFA services.

h_lexilogos gives access to hundreds of dictionaries in many languages.

h_googletranslate, h_interglot, h_reverso, h_linguee, h_promt, h_reverso, h_systran provide translation engines. h_linguee returns examples with long sentences.

h_tad and h_tadsm gives access to a website dedicated to date and time conversion plus timezone management.

h_yacy is a decentralized peer-to-peer web search software.

Using the regular R format "w1 w2 w3" rather than w1, w2, w3 makes sense as most engines collapse the words into character chains "w1 w2 w3", "w1+w2+w3" or "w1-w2-w3".

```
h_academie()
h_etz()
h_framasoft()
h_framasoft0()
h_googletranslate()
h_interglot()
h_lexilogos()
h_linguee()
h_promt()
```

```
h_reverso()
h_systran()
h_tad()
h_tadsm()
h_yacy()
```

Examples

```
h_linguee()
h_lexilogos()
```

h_engine

Explore the Web with Various Search Engines

Description

Launch the default browser and search in: 1bis Map (BottinCarto), ABC Bourse (short stock names), arXiv (vectorized), Ask, Baidu, Blackle, Bing, Bing Map (bmap), Boursorama (short stocknames), CNRTL (French dictionary), Collins English Dictionary, CPAN and metaCPAN (Perl), Crossref (DOI and bibliographic metadata), CTAN (Latex), Daum, DailyMotion (dm), DOI, Duck-DuckGo (ddg), Ecosia, Egerin, Evene (citations), Exalead, Excite, Gigablast, GitHub, GitLab, Google Map (gmap), Google, Google Scholar (gscholar), Info, Khoj, Les Echos, La Tribune (lt), Lilo, Lycos, Mappy Map, Merriam-Webster (mw, English dictionary), Nabble, Nate, Naver (see N2H4 package), Orcid, Open Street Map, OSM Nominatim, Parsijoo, PeerTube, Peru, Pipilika, Qwant (qw + qwfr), R-bloggers, Rdocumentation (rdoc), Rdocumentation task views (rdoctv), Rdrr, Reverso dictionnary, Rseek, Sapo, Searx, Sogou, SSRN and SSRN Author (vectorized), Stackoverflow (so), Startpage (ex-Ixquick), Twitter (+ twfr), L'Usine Nouvelle (un), ViaMichelin Map and Routes (via), Les Verbes, Vimeo, Wego (Here maps), Wikipedia (wp + wpfr), Yahoo, Yahoo Finance, Yandex, Yooz, Youtube (yt).

Using the regular R format "w1 w2 w3" rather than w1, w2, w3 makes sense as most functions collapse the words into character chains "w1 w2 w3", "w1+w2+w3" or "w1-w2-w3".

Visit https://en.wikipedia.org/wiki/Web_search_engine for a list of web search engines.

```
h_1bis(..., char = NULL)
h_abcbourse(..., char = NULL)
h_ask(..., char = NULL)
```

```
h_arxiv(..., char = NULL)
h_arxivpdf(..., char = NULL)
h_baidu(..., char = NULL)
h_blackle(..., char = NULL)
h_bing(..., char = NULL)
h_biorxiv(..., char = NULL)
h_biorxivpdf(..., char = NULL)
h_bmap(..., char = NULL)
h_boursorama(..., char = NULL)
h_cnrtl(..., char = NULL)
h_collins(..., char = NULL)
h_cpan(..., char = NULL)
h_crossref(..., char = NULL)
h_ctan(..., char = NULL)
h_daum(..., char = NULL)
h_ddg(..., char = NULL)
h_dm(..., char = NULL)
h_doi(..., char = NULL)
h_ecosia(..., char = NULL)
h_egerin(..., char = NULL)
h_estrep(..., char = NULL)
h_evene(..., char = NULL)
h_exalead(..., char = NULL)
h_excite(..., char = NULL)
```

```
h_framabee(..., char = NULL)
h_gigablast(..., char = NULL)
h_github(..., char = NULL)
h_gitlab(..., char = NULL)
h_gmap(..., char = NULL)
h_google(..., char = NULL)
h_gscholar(..., char = NULL)
h_info(..., char = NULL)
h_ixquick(..., char = NULL)
h_khoj(..., char = NULL)
h_lesechos(..., char = NULL)
h_{lilo}(..., char = NULL)
h_1t(..., char = NULL)
h_lycos(..., char = NULL)
h_mappy(..., char = NULL)
h_mw(..., char = NULL)
h_nate(..., char = NULL)
h_naver(..., char = NULL)
h_orcid(..., char = NULL)
h_osm(..., char = NULL)
h_osmn(..., char = NULL)
h_parsijoo(..., char = NULL)
h_peertube(..., char = NULL)
h_peru(..., char = NULL)
```

```
h_pipilika(..., char = NULL)
h_qwant(..., char = NULL, lang = "en")
h_qwfr(..., char = NULL)
h_reverso_d(..., char = NULL)
h_sapo(..., char = NULL)
h_searx(..., char = NULL)
h_so(..., char = NULL)
h_sogou(..., char = NULL)
h_srn(..., char = NULL)
h_ssrnauth(..., char = NULL)
h_startpage(..., char = NULL)
h_twfr(..., char = NULL)
h_twitter(..., char = NULL, lang = "en")
h_un(..., char = NULL)
h_verbes(..., char = NULL)
h_via(..., char = NULL)
h_vimeo(..., char = NULL)
h_wego(..., char = NULL)
h_wp(..., char = NULL, lang = "en")
h_wpfr(..., char = NULL)
h_yahoo(..., char = NULL, lang = "en")
h_yahoofin(..., char = NULL, lang = "en")
h_yandex(..., char = NULL)
h_yooz(..., char = NULL)
```

```
h_yt(..., char = NULL)
```

Arguments

... any format recognized by cnsc, except list. A vector of packages.

char (name to) a character vector. Use this argument if ... fails or if you call the

function from another function.

lang character. The language accepted by the search engine, usually "en", "de", "es",

"fr", "jp", etc.

Examples

```
h_yt("Serge Gainsbourg Ne dis rien")
h_so(R, deep, neural, network)
h_osm("Le Chateau d'Oleron")
h_mw(recension)
h_arxiv(c(1212.4320, 1605.08732))
h_doi("10.1016/j.ejor.2013.06.029")
```

h_R

Open a Web Page in the Browser

Description

h_R opens the page https://www.r-project.org. h_Rml opens the page dedicated to the mailing lists https://www.r-project.org/mail.html. h_Rnews opens the page https://cran.r-project.org/doc/manuals/r-devel/NEWS.html. h_Rversions opens a page (from rversions package) that keeps a record of all R versions and their release dates.

h_cran opens the page of you local CRAN.

h_cranbydate and h_cranbyname open the page of CRAN packages sorted by date of publication and in alphabetical order.

h_cranchecks and h_crancheckwindows open the pages related to the checks of all packages listed by name, maintainers, dates, os. A special page is dedicated to Windows packages with the results for the previous, the current and the devel R versions.

h_crantv opens the page of CRAN task views.

h_cranberries, h_nabble, h_rbloggers, h_rdoc, h_rdoctv (RDocumentation), h_rdrr, h_rseek open the pages of web sites related to R.

h_gepuro lists all (most) R packages available on GitHub. A huge file.

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Usage

```
h_R()
h_Rml()
h_Rnews(repos = getOption("repos")[1])
h_Rversions(repos = getOption("repos")[1])
h_cran(repos = getOption("repos")[1])
h_cranbydate(repos = getOption("repos")[1])
h_cranbyname(repos = getOption("repos")[1])
h_cranchecks(repos = getOption("repos")[1])
h_crancheckwindows(repos = getOption("repos")[1])
h_crantv(repos = getOption("repos")[1])
h_cranstatus()
h_cranberries()
h_gepuro()
h_nabble(..., char = NULL)
h_rbloggers(..., char = NULL)
h_rdoc(..., char = NULL)
h_rdoctv(..., char = NULL)
h_rdrr(..., char = NULL)
h_rseek(..., char = NULL)
h_biocstats()
```

Arguments

character. The address of your local CRAN.

any format recognized by cnsc, except list. A regular web address.

(name to) a character vector. Use this argument if . . . fails or if you call the function from another function.

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Examples

```
h_crantv(repos = "https://cloud.r-project.org")
h_cranberries()
```

h_ttp

Open a Web Page in the Browser

Description

h_ttp opens the page coresponding to the mentionned address in the default browser.

Usage

```
h_ttp(..., char = NULL, https = TRUE, www = FALSE)
```

Arguments

... any format recognized by cnsc, except list. A regular web address.

char (name to) a character vector. Use this argument if ... fails or if you call the

function from another function.

https logical. Use https or http.

www logical. Add www. to the address.

Examples

```
h_ttp("www.r-project.org")
```

p_archive

Read Packages in CRAN archive

Description

p_archive opens in the browser one page per package and displays the package versions stored in CRAN archive.

p_archive_1st prints in the console a list of the package versions stored in CRAN archive.

Use l_targz takes as input the list obtained from p_archive_lst and extracts the packages before a certain date (Default is today).

Use p_downarch to download packages from CRAN archive, either the latest version or a specific version number.

Use archivedb_list to list all packages stored in CRAN archive (does not include the valid packages having a single version which are stored in regular CRAN only).

p_check

Usage

```
p_archive(..., char = NULL)

p_archive_lst(..., char = NULL,
    url = "https://cran.r-project.org/src/contrib/Archive")

l_targz(lst, before = Sys.Date())
```

Arguments

... any format recognized by cnsc, except list. A vector of packages.

char (name to) a character vector. Use this argument if ... fails or if you call the

function from another function. If used, argument . . . is ignored.

url character. The url address of CRAN archive html file.

lst list. A list produced by p_archive_lst.

before character which can be converted to a Date, for instance "2017-05-14". Ex-

tract from CRAN archive the package(s) available before this date. Can be synchronized with the release dates of base-R versions listed at: https://CRAN.R-project.org/src/contrib/ and https://CRAN.R-project.org/package=

rversions/readme/README.html

Examples

```
p_archive(brew, RWsearch)
lst <- p_archive_lst(brew, pacman, RWsearch, fitur, zmatrix, NotAPkg); lst
l_targz(lst, before = "2017-05-14")</pre>
```

p_check

Return CRAN Package Check Results

Description

p_check opens the default browser, connects to your local CRAN and displays for each package the CRAN Package Check Results or the last Check Results recorded in CRAN archive (with the date of the archive). An internet connexion is required.

p_check_1st reads the check results from the repository and print the results as a list in the console, with a message for the archived package(s). An internet connexion is required. If a large number of packages is to be analyzed, a preload of checkdb is required before launching the instruction (via checkdb_down or checkdb_load). This preload speeds up significantly the analysis.

p_checkdeps and p_checkdeps_1st extend the analysis to the package dependencies.

Comprehensive tables of the check results for package sources and Windows binaries can be displayed with h_cranchecks and h_crancheckwindows.

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Usage

```
p_check(..., char = NULL, repos = getOption("repos")[1])

p_check_lst(..., char = NULL, npkgs = 10, repos = getOption("repos")[1])

p_checkdeps(..., char = NULL, which = "DIL", recursive = TRUE,
    reverse = FALSE, crandb = get("crandb", envir = .GlobalEnv),
    repos = getOption("repos")[1])

p_checkdeps_lst(..., char = NULL, which = "DIL", recursive = TRUE,
    reverse = FALSE, npkgs = 10, crandb = get("crandb", envir =
    .GlobalEnv), repos = getOption("repos")[1])
```

Arguments

... any format recognized by cnsc, except list. A vector of packages.

char (name to) a character vector. Use this argument if ... fails or if you call the

function from another function. If used, argument . . . is ignored.

repos character. The address of your local CRAN.

npkgs integer. The number of packages from which a preload of checkdb is required

(via checkdb_down or checkdb_load).

which character vector. A sub-vector of c("Depends", "Imports", "LinkingTo", "Suggests", "Enhances").

The short forms "D", "I", "L", "S", "N", "DL", "DII", "DIL", "DILS", "DILN", "DILSN", "SN" are accepted. "N" is for "Enhances" as the single letter "E" is

used by R as a shortcut to EXPR, a reserved word.

recursive logical. Search for (reverse) dependencies of (reverse) dependencies.

reverse logical. Search for reverse dependencies.

crandb data.frame crandb. Also accepted is NULL which will search in the local installed.packages().

This later form allows (private) packages that are not listed in crandb.

Examples

```
## In real life, download crandb and checkdb from CRAN or load them
## with functions crandb_down(), crandb_load(), checkdb_down(), checkdb_load().
## checkdb can be ignored if less than npkgs are explored.
## In this example, we use two small files.

crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))
checkdb_load(system.file("aabb", "zcheck_results.rds", package = "RWsearch"))

p_check(RWsearch, zmatrix, zonator, NotApkg, repos = "https://cloud.r-project.org")
p_graphF(RWsearch)
p_checkdeps(igraph, zmatrix, zonator, NotApkg, repos = "https://cloud.r-project.org")
p_checkdeps_lst(igraph, zmatrix, zonator, NotApkg, repos = "https://cloud.r-project.org")
```

 p_{deps}

p_deps

Dependencies and Reverse Dependencies of Packages

Description

p_deps returns the (reverse) dependencies of a (vector of) package(s). It is a wrapper of the tools::package_dependencies function. A warning is issued for packages that are not in crandb + .libPaths() (for instance in CRAN archive, Bioconductor, Github or your own directories).

p_depsrev is a shortcut to p_deps(reverse = TRUE). It returns the reverse dependencies (e.g. the children packages).

p_deps_count counts the number of (recursive/reverse) dependencies for each package and returns a data.frame with 4 columns: Parents1, ParentsN, Children1, ChildrenN.

p_deps_inpkgs returns the package dependencies that are installed in the computer.

p_deps_unpkgs returns the package dependencies that are not installed in the computer.

p_deps_inun combines p_deps and p_inun_crandb, then returns the status of all dependencies: installed or not installed in the computer, available or not available in the current crandb (see CRAN archives, Bioconductor, Github, your own packages).

The missing packages available on CRAN can be downloaded with p_down0, downloaded and checked (by R CMD check) with xfun::rev_check or installed with install.packages. The packages removed from CRAN but available in CRAN archive can be downloaded with p_downarch.

Usage

```
p_deps(..., char = NULL, which = "DIL", recursive = FALSE,
    reverse = FALSE, crandb = get("crandb", envir = .GlobalEnv))

p_depsrev(..., char = NULL, which = "DIL", recursive = FALSE,
    crandb = get("crandb", envir = .GlobalEnv))

p_deps_count(..., char = NULL, which = "DIL", crandb = get("crandb",
    envir = .GlobalEnv))

p_deps_inpkgs(..., char = NULL, which = "DIL", recursive = TRUE,
    reverse = FALSE, crandb = get("crandb", envir = .GlobalEnv))

p_deps_unpkgs(..., char = NULL, which = "DIL", recursive = TRUE,
    reverse = FALSE, crandb = get("crandb", envir = .GlobalEnv))

p_deps_inun(..., char = NULL, which = "DIL", recursive = TRUE,
    reverse = FALSE, crandb = get("crandb", envir = .GlobalEnv))
```

Arguments

any format recognized by cnsc, excluding list. A package or a vector of packages listed in crandb or in installed.packages().

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char (name to) a character vector. Use this argument if ... fails or if you call the

function from another function. If used, argument . . . is ignored.

which character vector. A sub-vector of c("Depends", "Imports", "LinkingTo", "Suggests", "Enhances").

The short forms "D", "I", "L", "S", "N", "DL", "DII", "DIL", "DILS", "DILN", "DILSN", "SN" are accepted. "N" is for "Enhances" as the single letter "E" is

used by R as a shortcut to EXPR, a reserved word.

recursive logical. Search for (reverse) dependencies of (reverse) dependencies.

reverse logical. Search for reverse dependencies.

crandb data.frame crandb. Also accepted is NULL which will search in the local installed.packages().

This later form allows (private) packages that are not listed in crandb.

Examples

```
## In real life, download crandb from CRAN or load it from your directory
## with functions crandb_down() or crandb_load().
## In this example, we use a small file.
crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))

p_deps_count(actuar, networkD3, FatTailsR, RWsearch, NotApkg)

p_deps(networkD3, visNetwork)

p_deps(networkD3, visNetwork, recursive = TRUE)

p_deps(actuar, fitdistrplus, reverse = TRUE, which = "DILSN")

p_deps_inpkgs(RWsearch, canprot)

p_deps_unpkgs(RWsearch, canprot, NotApkg)
```

p_display

Display Package Information in HTML Pages

Description

p_display, p_display5 and p_display7 open the default browser and display the results of p_table, p_table5 and p_table7 in one or several html pages. If ... (or char) is a list, several pages are opened.

```
p_display(..., char = NULL, columns = c("Package", "Title", "Description"),
    dir = tempdir(), verbose = FALSE, crandb = get("crandb", envir =
        .GlobalEnv))

p_display5(..., char = NULL, dir = tempdir(), verbose = FALSE,
        crandb = get("crandb", envir = .GlobalEnv))

p_display7(..., char = NULL, dir = tempdir(), verbose = FALSE,
        crandb = get("crandb", envir = .GlobalEnv))
```

 $p_{\perp}down$

Arguments

any format recognized by cnsc, including list. A vector or a list of packages. Or a vector or a list of data.frame produced by p_table. char (name to) a character vector. Use this argument if ... fails or if you call the function from another function. If used, argument . . . is ignored. character vector. A sub-vector of colnames (crandb). The short form "P", "T", columns "D", "PT", "PD", "TD", "PTD", "A", "M", "AM" describing the Package name, Title, Description, Author, Maintainer or a combination of them is accepted. dir character. The directory in which the html file(s) is (are) saved. tempdir() or getwd() are common paths. verbose logical. List the generated html file(s). data.frame crandb. The data.frame of CRAN packages. crandb

Examples

```
## In real life, download crandb from CRAN or load it from your directory
## with functions crandb_down() or crandb_load().
## In this example, we use a small file.
crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))

## Vector => 1 page
p_display(RWsearch, pacman, pdfsearch, sos, brew, dir = tempdir())

## List with 3 items => 3 pages
## No package has the 'distillation' keyword. An empty table is returned.
(lst <- s_crandb_list("thermodynamic", "chemical reaction", "distillation"))
p_display5(lst, dir = tempdir())</pre>
```

p_down Download the Package Documentation in One Directory or in Several Subdirectories

Description

If pkgs is a vector of packages obtained from s_crandb, p_down downloads from CRAN and saves in the dir directory (by default the current directory) the index page, the manual, the vignettes, the README, NEWS, ChangeLog, CRAN checks files, the source code in pkg_ver.tar.gz format, the binary code in pkg_ver.tgz (Mac OSX) or pkg_ver.zip (Windows) format and a minimal R-script of each package. The files that do not exist are ignored, with no warning.

If pkgs is a list of packages obtained from s_crandb_list, p_down saves the downloaded files in subdirectories named after the names of the list, e.g. the keywords used at the search step. The names are eventually modified with gsub(".", "_", make.names(pkg), fixed = TRUE) to cope with Unix and Windows directory names.

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p_down0 calls p_down with different values for each argument. With the default configuration, this function downloads nothing. It is mostly used to download one specific item which has not been previously downloaded.

p_downarch downloads from CRAN archive the tar.gz file of one or several packages, either the last version(s) with Sys.Date() or the version(s) before a given date. It combines 3 functions: p_archive_lst lists the packages stored in CRAN archive and their version numbers, l_targz extracts the appropriate version numbers available before a given date, targz_down downloads the tar.gz files in the selected directory (default is the current directory).

targz_down downloads the tar.gz files from CRAN archive to the selected directory (default is the current directory).

Usage

```
p_down(..., char = NULL, index = TRUE, manual = TRUE, vignettes = TRUE,
   README = TRUE, NEWS = FALSE, ChangeLog = FALSE, checks = FALSE,
   targz = FALSE, binary = FALSE, type = "binary", script = FALSE,
   dir = ".", crandb = get("crandb", envir = .GlobalEnv),
   repos = getOption("repos")[1])

p_down0(..., char = NULL, index = FALSE, manual = FALSE,
   vignettes = FALSE, README = FALSE, NEWS = FALSE, ChangeLog = FALSE,
   checks = FALSE, targz = FALSE, binary = FALSE, type = "binary",
   script = FALSE, dir = ".", crandb = get("crandb", envir = .GlobalEnv),
   repos = getOption("repos")[1])

p_downarch(..., char = NULL, before = Sys.Date(), dir = ".",
   url = "https://cran.r-project.org/src/contrib/Archive")

targz_down(ptargz, dir = ".",
   url = "https://cran.r-project.org/src/contrib/Archive")
```

Arguments

•••	any format recognized by cnsc, including list. A vector or packages or a named list of packages (with names being the keywords).
char	(name to) a character vector or a list. Use this argument if \dots fails or if you call the function from another function. If used, argument \dots is ignored.
index	logical. Download the html index page of each package.
manual	logical. Download the pdf manual.
vignettes	logical. Download the html and pdf vignettes, if they exist.
README	logical. Download the README file, if it exists.
NEWS	logical. Download the NEWS file, if it exists.
ChangeLog	logical. Download the ChangeLog file, if it exists.
checks	logical. Download the CRAN checks file.
targz	logical. Download the *.tar.gz source file.

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binary logical. Download the *.tgz (Mac OSX) or *.zip (Windows) binary file, depending the type value. character. Either "mac.binary", "mac.binary.el-capitan", or "win.binary". type The default, "binary", automatically detects the local OS and the variants between R-3.6.3, R-4.0.0 or (for Windows) gcc8. See the type section of utils::install.packages. logical. Create a mini-script and save it in a *.R file. script dir character. The directory in which the files are saved. Default value "." is the current directory. data.frame crandb. The data.frame of CRAN packages. crandb repos character. The address of your local CRAN. before character which can be converted to a Date, for instance "2017-05-14". Extract from CRAN archive the package(s) available before this date. Can be synchronized with the release dates of base-R versions listed at: https://CRAN. R-project.org/src/contrib/ and https://CRAN.R-project.org/package= rversions/readme/README.html character. The url address of CRAN archive html file. url

character. A vector of package(s) with their version number and tar.gz extension stored in CRAN archive. These packages can be identified with l_targz.

Examples

ptargz

```
## In real life, download crandb from CRAN or load it from your directory
## with functions crandb_down() or crandb_load().
## In this example, we use a small file.
crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))
## Download the documentation in the "dirpkgs" directory. Flat representation.
dir <- file.path(tempdir(), "dirpkgs")</pre>
p_down(RWsearch, pdfsearch, sos, dir = dir, repos = "https://cloud.r-project.org")
list.files(dir, recursive = TRUE, full.names = TRUE)
## Download the documentation in subdirectories named after the keywords.
dir <- file.path(tempdir(), "dirpkgslist")</pre>
(lst <- s_crandb_list(thermodynamic, "chemical reaction"))</pre>
system.time(
 p_down(lst, dir = dir, repos = "https://cloud.r-project.org")
list.files(dir, recursive = TRUE, full.names = TRUE)
## Download tar.gz files stored in CRAN archive.
dir <- file.path(tempdir(), "targzip")</pre>
p_downarch(fitur, zmatrix, NotAPkg, before = "2017-05-14", dir = dir)
targz_down("SVN_1.0.tar.gz", dir = dir)
list.files(dir, recursive = TRUE, full.names = TRUE)
```

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p_graph

Network and Graphs of Package Dependencies

Description

p_graphF calculates the (recursive/reverse) dependencies of a (vector of) package(s) and displays in the default browser a standard graph (F/Force in the networkD3 terminology) of the package dependencies. It combines the p_network and n_graphF functions.

p_graphF calculates the (recursive/reverse) dependencies of a (vector of) package(s) and displays in the default browser a Sankey graph (in the networkD3 terminology) of the package dependencies. It combines the p_network and n_graphS functions.

p_network returns the (recursive/reverse) dependencies of a (vector of) package(s) as a network of nodes and links.

n_graphF taks as input a network of package nodes and links and displays them in the default browser as a standard graph (F/Force in the networkD3 terminology) representing the package dependencies.

n_graphF taks as input a network of package nodes and links and displays them in the default browser as a Sankey graph (in the networkD3 terminology) representing the package dependencies.

Remember that the option exclpkgs = ... whose default value TRUE is equivalent to exclpkgs = c("graphics", "grDevices", "methods", "stats", "tools", "utils"), can substantially modify the aspect of the graph, especially for reverse = FALSE.

```
p_graphF(..., char = NULL, which = "DIL", recursive = TRUE,
  reverse = FALSE, exclpkgs = TRUE, group = 2, fontFamily = "serif",
  fontSize = 11, linkDistance = 50, charge = -100,
    crandb = get("crandb", envir = .GlobalEnv))

p_graphS(..., char = NULL, which = "DIL", recursive = TRUE,
  reverse = FALSE, exclpkgs = TRUE, group = 2, fontFamily = "serif",
  fontSize = 14, nodeWidth = 30, nodePadding = 10,
    crandb = get("crandb", envir = .GlobalEnv))

p_network(..., char = NULL, which = "DIL", recursive = TRUE,
  reverse = FALSE, exclpkgs = TRUE, crandb = get("crandb", envir = .GlobalEnv))

n_graphF(netw, group = 2, fontFamily = "serif", fontSize = 11,
  linkDistance = 50, charge = -100)

n_graphS(netw, group = 2, fontFamily = "serif", fontSize = 14,
  nodeWidth = 30, nodePadding = 10)
```

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Arguments

any format recognized by cnsc. Lists are accepted for p_graphF and p_graphS (and will result in multiple html pages) but not in p_network. A vector or a list of package(s) listed in crandb or in installed.packages(). (name to) a character vector. Use this argument if ... fails or if you call the char function from another function. If used, argument . . . is ignored. which character vector. A sub-vector of c("Depends", "Imports", "LinkingTo", "Suggests", "Enhances"). The short forms "D", "I", "L", "S", "N", "DL", "DI", "DIL", "DILS", "DILN", "DILSN", "SN" are accepted. "N" is for "Enhances" as the single letter "E" is used by R as a shortcut to EXPR, a reserved word. recursive logical. Search for (reverse) dependencies of (reverse) dependencies. logical. Search for reverse dependencies. reverse logical or character vector. TRUE excludes from the network of nodes and links exclpkgs the dependencies c("graphics", "grDevices", "methods", "stats", "tools", "utils"). FALSE includes them. You can provide your own vector of packages to exclude them from the network of nodes and links. integer, currently 1, 2 or 3. The suffix of the "NGroup" column in netw. Define group a scheme for colouring the nodes. fontFamily character. Either "serif" or "sans-serif". fontSize integer. The size of the font. linkDistance integer. The minimal distance of a link between two nodes. integer. A repulsive value between two nodes. charge crandb data.frame crandb. Also accepted is NULL which will search in the local installed.packages(). This later form allows (private) packages that are not listed in crandb.

nodeWidth integer. The width of the rectangular nodes in the Sankey graph.

nodePadding integer. The vertical space between two nodes in the same column of a Sankey

graph.

netw a list of class "pkgsnetwork" produced by p_network that describes the depen-

dencies of one or several packages with nodes and links (a network).

Examples

```
## In real life, download crandb from CRAN or load it from your directory
## with functions crandb_down() or crandb_load().
## In this example, we use a small file.
crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))
lst <- as.list(cnsc(RWsearch, visNetwork)); lst
p_graphF(lst)

p_graphF(RWsearch, visNetwork)
p_graphS(RWsearch, visNetwork)
p_graphF(actuar, fitdistrplus, reverse = TRUE)

netw <- p_network(actuar, fitdistrplus, reverse = TRUE); netw</pre>
```

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```
n_graphF(netw)
n_graphS(netw)
```

p_html

HTML Help Page, PDF Manual and Vignettes

Description

p_page opens the default browser, connects to your local CRAN and displays the home page of the package(s). An internet connexion is required.

p_html and p_html2 open the default browser and display the html help page of the package, if it is installed. On Windows, p_html returns a local server address http://127.0.0.1:*.html and subfunctions listed in the page can be explored whereas p_html2 returns a file address file:///C:/*.html with no links to the subfunctions.

p_htmlweb opens the default browser and displays the html help page of the package housed by the University of Pennsylvania. An internet connexion is required.

p_pdf displays in a pdf reader the pdf manual of the package, or generates it on the fly in the current directory if the package is installed. Miktex or Texlive is required. This is a very fast function if the files already exist (and overwrite= FALSE) and a (relatively) slow function if the files needs to be generated, usually much slower than:

p_pdfweb downloads from you local CRAN the pdf manual of the package, saves it in the current directory and opens it in the pdf application of your browser. An internet connexion is required.

p_vig is a wrapper of utils::browseVignettes. It opens the default browser and displays a list of the vignettes related to a package, if they exist.

p_vig_all wraps utils::browseVignettes(NULL). It opens the default browser and displays all vignettes available in the computer. This can be a very large html file.

Use p_archive or p_archive to display in the browser or in the console the package archives. An internet connexion is required.

```
p_page(..., char = NULL, repos = getOption("repos")[1])
p_html(..., char = NULL)

p_html2(..., char = NULL)

p_htmlweb(..., char = NULL)

p_pdf(..., char = NULL, overwrite = FALSE, dir = ".")

p_pdfweb(..., char = NULL, repos = getOption("repos")[1])

p_vig(..., char = NULL)

p_vig_all()
```

p_inun

Arguments

... any format recognized by cnsc, except list. A vector of packages.

char (name to) a character vector. Use this argument if ... fails or if you call the

function from another function. If used, argument . . . is ignored.

repos character. The address of your local CRAN.

overwrite logical. Overwrite already existing file (and use LaTeX intensively).

dir character. The directory in which the files are read or written. Default value "."

is the current directory.

Examples

```
p_page(RWsearch, sos, repos = "https://cloud.r-project.org")
p_html(RWsearch, sos)
p_htmlweb(RWsearch)
p_vig(RWsearch)
p_pdfweb(sos, repos = "https://cloud.r-project.org")
p_pdf(sos, dir = file.path(tempdir(), "ppdf"))
```

p_inun

List of Installed, Uninstalled and Non-Existing Packages

Description

p_incrandb returns TRUE if all packages are listed in crandb and a vector of FALSE with the names of the packages not listed in crandb.

p_inun returns a list of packages installed or not installed in the computer.

p_inun_crandb checks if the packages exist or do not exist in crandb (see CRAN archives, Bioconductor, Github, your own packages).

The missing packages available on CRAN can be downloaded with p_down0, downloaded and checked (by R CMD check) with xfun::rev_check or installed with install.packages. The packages removed from CRAN but available in CRAN archive can be downloaded with p_downarch.

```
p_incrandb(..., char = NULL, crandb = get("crandb", envir = .GlobalEnv))
p_inun(..., char = NULL)
p_inun_crandb(..., char = NULL, crandb = get("crandb", envir = .GlobalEnv))
```

p_table2pdf 33

Arguments

... any format recognized by cnsc, including list. A vector or a list of packages. char (name to) a character vector or a list. Use this argument if ... fails or if you call

the function from another function. If used, argument . . . is ignored.

crandb data.frame crandb.

Examples

```
## In real life, download crandb from CRAN or load it from your directory
## with functions crandb_down() or crandb_load().
## In this example, we use a small file.
crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))

## Check if packages are installed or not, and exist or not in crandb
p_incrandb(RWsearch, NotAPkg1, pacman, NotAPkg2, sos)
p_inun(RWsearch, NotAPkg1, pacman, NotAPkg2, sos)
p_inun_crandb(RWsearch, NotAPkg1, pacman, NotAPkg2, sos)
```

p_table2pdf

Package Information in Console and PDF Files

Description

p_table returns a subset of crandb for the given packages and the selected columns, by default the Package name, the Title and the Description.

p_table2 has a preset value to 2 columns: "Package", "Title" and prints the results in the console with a left alignment.

p_table5 has a preset value to 5 columns: "Package", "Title", "Description", "Author", "Maintainer".

p_table7 has a preset value to 7 columns: "Package", "Version", "Published", "Title", "Description", "Author", "Maintainer".

table_pdf prints the results of p_table, p_table5 or p_table7 in pdf file(s). Miktex or Texlive is required.

p_table2pdf, p_table3pdf, p_table5pdf, p_table7pdf combine the above functions.

```
p_table(..., char = NULL, columns = c("Package", "Title", "Description"),
    crandb = get("crandb", envir = .GlobalEnv))

p_table2(..., char = NULL, crandb = get("crandb", envir = .GlobalEnv))

p_table5(..., char = NULL, crandb = get("crandb", envir = .GlobalEnv))
```

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```
p_table7(..., char = NULL, crandb = get("crandb", envir = .GlobalEnv))
table_pdf(x, filename = "SelectedPkgs.tex", dir = ".",
  texops = "a4paper,landscape,10pt", pdf = TRUE, cleantex = TRUE,
  openpdf = TRUE, verbose = TRUE)
p_table2pdf(..., char = NULL, filename = "Selectedpkgs", dir = ".",
  texops = "a4paper,landscape,10pt", pdf = TRUE, cleantex = TRUE,
  openpdf = TRUE, verbose = TRUE, crandb = get("crandb", envir =
  .GlobalEnv))
p_table3pdf(..., char = NULL, filename = "Selectedpkgs", dir = ".",
  texops = "a4paper,landscape,10pt", pdf = TRUE, cleantex = TRUE,
  openpdf = TRUE, verbose = TRUE, crandb = get("crandb", envir =
  .GlobalEnv))
p_table5pdf(..., char = NULL, filename = "Selectedpkgs", dir = ".",
  texops = "a4paper,landscape,10pt", pdf = TRUE, cleantex = TRUE,
  openpdf = TRUE, verbose = TRUE, crandb = get("crandb", envir =
  .GlobalEnv))
p_table7pdf(..., char = NULL, filename = "Selectedpkgs", dir = ".",
  texops = "a4paper,landscape,10pt", pdf = TRUE, cleantex = TRUE,
  openpdf = TRUE, verbose = TRUE, crandb = get("crandb", envir =
  .GlobalEnv))
```

Arguments

	any format recognized by cnsc, including list. A vector or a list of packages.
char	(name to) a character vector. Use this argument if fails or if you call the function from another function. If used, argument is ignored.
columns	character vector. A sub-vector of colnames (crandb). The short form "P", "T", "D", "PT", "PD", "TD", "PTD", "A", "M", "AM" describing the Package name, Title, Description, Author, Maintainer or a combination of them is accepted.
crandb	data.frame crandb. The data.frame of CRAN packages.
х	(list of) data.frame produced by p_table (with 3 columns), p_table5 (5 columns) or p_table7 (7 columns). If x is a list, the names of the list will be appended to filename.
filename	character. The file name (with or without extension).
dir	character. The directory in which the files are read or written. Default value "." is the current directory.
texops	character vector. Options passed to instruction documentclass in *.tex file.
pdf	logical. FALSE generates the *.tex file. TRUE generates both the *.tex and *.pdf files.
cleantex	logical. Remove the . tex file(s) (only if $pdf = TRUE$).
openpdf	logical. Open the generated *.pdf file(s) in a pdf viewer (only if pdf = TRUE).
verbose	logical. Print the path(s) to the generated file(s).

 p_{text} 2pdf 35

Examples

```
## In real life, download crandb from CRAN or load it from your directory
## with functions crandb_down() or crandb_load().
## In this example, we use a small file.
crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))

## Use a large console (useful for p_table2())
p_table2(pacman, pdfsearch, sos)
(lst <- s_crandb_list("thermodynamic", "chemical reaction", "distillation"))
p_table2(lst)
dir <- file.path(tempdir(), "ppdf")

## print the tables as pdf files and open them in a pdf viewer.
p_table5pdf(pacman, pdfsearch, sos, dir = dir)
p_table7pdf(lst, dir = dir, cleantex = FALSE, openpdf = TRUE)</pre>
```

p_text2pdf

Download Package Documentation in Text Files

Description

p_text extracts from CRAN the most relevant information related to one or several packages and print them in a text file which can be tailored to various formats: *.txt, *.md, *.tex for further treatment.

p_text2md has preset values for markdown files.

p_text2tex has preset values for latex files.

p_text2pdf has preset values for pdf files.

```
p_text(..., char = NULL, filename = "txtpkgs.txt", dir = ".",
  beforetext = "", f_maintext = funmaintext, sep1 = "== ",
  sep2 = " ==", eol = "\n", README = TRUE, NEWS = TRUE,
  vignettes = TRUE, aftertext = "", editor = FALSE, pager = FALSE,
  verbose = TRUE, crandb = get("crandb", envir = .GlobalEnv),
  repos = getOption("repos")[1])

p_text2md(..., char = NULL, filename = "mdpkgs.md", dir = ".",
  beforetext = funheadermd(), f_maintext = funmaintext, sep1 = "# ",
  sep2 = " ", eol = " \n", README = TRUE, NEWS = TRUE,
  vignettes = TRUE, aftertext = "", editor = FALSE, pager = FALSE,
  verbose = TRUE, crandb = get("crandb", envir = .GlobalEnv),
  repos = getOption("repos")[1])

p_text2tex(..., char = NULL, filename = "texpkgs.tex", dir = ".",
```

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```
beforetext = funheadertex(), f_maintext = funmaintex,
    sep1 = "\\section{", sep2 = "}", eol = " \\\\n",
    README = TRUE, NEWS = TRUE, vignettes = TRUE,
    aftertext = funfootertex(), editor = FALSE, pager = FALSE,
    verbose = TRUE, crandb = get("crandb", envir = .GlobalEnv),
    repos = getOption("repos")[1])

p_text2pdf(..., char = NULL, filename = "pdfpkgs.pdf", dir = ".",
    beforetext = funheadertex(), f_maintext = funmaintex,
    sep1 = "\\section{", sep2 = "}", eol = " \\\\n",
    README = TRUE, NEWS = TRUE, vignettes = TRUE,
    aftertext = funfootertex(), cleantex = TRUE, openpdf = FALSE,
    verbose = TRUE, crandb = get("crandb", envir = .GlobalEnv),
    repos = getOption("repos")[1])
```

Arguments

... any format recognized by cnsc, including list. A vector or packages or a named

list of packages (with names being the keywords).

char (name to) a character vector or a list. Use this argument if . . . fails or if you call

the function from another function. If used, argument . . . is ignored.

filename character. The file name with extension. If ... (or ...) is a list, the names of

the list will be appended to filename.

dir character. The directory in which the files are read or written. Default value "."

is the current directory.

beforetext character. The text written at the beginning of the file.

f_maintext function name. The function used to extract the main text from crandb (supplied

with no parenthesis).

sep1 character. The symbols written just before each package name.

sep2 character. The symbols written just after each package name. If used with with

mardkdown, add two blank characters at the end to force a new line.

eol character. The end of line for the main text (but not for the header and the

footer). "\n" for text, " \n" for rmarkdown, " \\ \n" for latex.

README logical. Write the line related to the README page, if it exists.

NEWS logical. Write the line related to the NEWS page, if it exists.

vignettes logical. Write the lines related to the vignette(s), if they exist.

aftertext character. The text written at the end of the file.

editor logical. Open the text file with editor.
pager logical. Open the text file with pager.

verbose logical. List the generated file(s).

crandb data.frame crandb. The data.frame of CRAN packages.

repos character. The address of your local CRAN.

cleantex logical. Remove the . tex file(s).

openpdf logical. Open the pdf files in the default pdf viewer.

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Examples

p_vers

Package Version

Description

Return a data.frame with the version number of each package. NA and a warning is issued if the package is not installed. A vectorized version of utils::packageVersion.

Usage

```
p_vers(..., char = NULL)
```

Arguments

any format recognized by cnsc, except list. A vector of packages.
 (name to) a character vector. Use this argument if ... fails or if you call the function from another function. If used, argument ... is ignored.

```
p_vers(RWsearch, MASS, Matrix, survival, R)
```

 s_{c} and s_{c}

s_crandb

Search Packages by Keywords in data.frame crandb

Description

The most important functions in this package along with p_down.

Search packages in data.frame crandb that contain one or several keywords in the columns "Package", "Title", "Description", "Author" or "Maintainer".

- s_crandb returns a vector of the packages that contain the keywords.
- s_crandb_list returns a list where each element of the list is one of the keywords.
- s_crandb_PTD returns a list split by results in columns "Package", "Title" and "Description". Option mode = "and", "relax" is ignored.
- s_crandb_AM returns a list split by results in columns "Author" and "Maintainer". Option mode = "and", "relax" is ignored.

Use p_table2 to print the results of s_crandb and s_crandb_list in the console. Use p_text to send the results in txt, md or pdf files. Use p_display to visualize the results in html pages in the browser.

Usage

Arguments

```
... any format recognized by cnsc, except list. One or several keywords.
```

char (name to) a character vector. Use this argument if ... fails or if you call the function from another function. If used, argument ... is ignored.

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character vector. A sub-vector of colnames(crandb). The short form "P", "T",
"D", "PT", "PD", "TD", "PTD", "A", "M", "AM" describing the Package name,
Title, Description, Author, Maintainer or a combination of them is accepted.

mode character among "or", "and", "relax". The search mode. "relax" is for 3 words

and more. It is an intermediate between "or" and "and" as it requires just 2 matching words: ("word1" AND "word2") OR ("word1" AND "word3") OR

("word1" AND "word3").

sensitive logical. TRUE forces the search to be case sensitive.

perl logical. Used only if fixed = FALSE. TRUE uses Perl-compatible regex. FALSE

uses default regexps.

fixed logical. TRUE matchs the keywords as is (and sensitive is forced to TRUE).

FALSE allows grep or Perl regexps. See grep. Not used by agrep.

agrep logical. For approximate matching, use agrep function rather than grep.

max.distance integer or numeric. See agrep.
costs NULL or list. See agrep.
crandb data.frame crandb.

```
## In real life, download crandb from CRAN or load it from your directory
## with functions crandb_down() or crandb_load().
## In this example, we use a small file.
crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))
## Search using standard or non-standard content
s_crandb(c("thermodynamic", "chemical reaction", "distillation"))
s_crandb_list(thermodynamic, "chemical reaction", distillation)
## Search using the various options
s_crandb(pH, sensitive = TRUE)
s_crandb_PTD(pH, sensitive = TRUE)
s_crandb_PTD("C++", fixed = TRUE)
s_crandb(search, find, cran, web, select = "PD", mode = "and")
s_crandb(search, find, cran, web, select = "PD", mode = "relax")
s_crandb(search, find, cran, web, select = "PD", mode = "or")
## Search for some authors using the various options
s_crandb_AM(Kiener, Dutang, ORPHANED)
## Non-standard content can be unquoted words or objects in .GlobalEnv
## They are transformed into character or are evaluated
## Here, the searched keywords are "find" and "search".
OTHER <- "search"
(lst <- s_crandb_list(find, OTHER, select = "P", sensitive = TRUE))</pre>
## Display in the browser this list of packages
p_display5(lst, dir = tempdir())
```

40 s_crandb_tvdb

s_crandb_tvdb	Search For Recent Packages In crandb And In Task View

Description

This is a function for task view maintenance.

Search packages in a subset of crandb within dates from and to that contain one or several keywords in the columns "Package", "Title", "Description", 'Author" or "Maintainer", then verify if these packages are already refereed in one of the task views stored in tvdb.

Usage

```
s_crandb_tvdb(..., char = NULL, tv = "Distributions", from = -10,
  to = Sys.Date(), select = "PTD", mode = "or", sensitive = FALSE,
  perl = FALSE, fixed = FALSE, agrep = FALSE, max.distance = 0.1,
  costs = NULL, crandb = get("crandb", envir = .GlobalEnv),
  tvdb = get("tvdb", envir = .GlobalEnv))
```

Arguments

	any format recognized by cnsc, except list. One or several keywords.
char	(name to) a character vector. Use this argument if fails or if you call the function from another function. If used, argument is ignored.
tv	character. One task view among those listed in tvdb.
from	character representing a date earlier than date to. Or a negative integer representing the number of days preceding the date to.
to	date. The upper date in the search.
select	character vector. A sub-vector of colnames (crandb). The short form "P", "T", "D", "PT", "PD", "TD", "PTD", "A", "M", "AM" describing the Package name, Title, Description, Author, Maintainer or a combination of them is accepted.
mode	character among "or", "and", "relax". The search mode. "relax" is for 3 words and more. It is an intermediate between "or" and "and" as it requires just 2 matching words: ("word1" AND "word2") OR ("word1" AND "word3") OR ("word1" AND "word3").
sensitive	logical. TRUE forces the search to be case sensitive.
perl	logical. Used only if fixed = FALSE. TRUE uses Perl-compatible regex. FALSE uses default regexps.
fixed	logical. TRUE matchs the keywords as is (and sensitive is forced to TRUE). FALSE allows grep or Perl regexps. See grep. Not used by agrep.
agrep	logical. For approximate matching, use agrep function rather than grep.
max.distance	integer or numeric. See agrep.
costs	NULL or list. See agrep.
crandb	data.frame crandb.
tvdb	list. The list of the task views.

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Value

A list with the following vectors:

- spkgs: The selected packages that contain the keyword(s).
- inTV: The packages that contain the keyword(s) already refereed in the task view.
- notinTV: The packages that contain the keyword(s) not (yet) refereed in the task view.
- inTV_in: Among the packages available in the task view, those installed in the computer.
- inTV un: Among the packages available in the task view, those not installed in the computer.
- notinTV_in: Among the packages not refereed in the task view, those installed in the computer.
- notinTV_un: Among the packages not refereed in the task view, those not installed in the computer.

Examples

```
### TASK VIEW MAINTENANCE (tvdb + crandb)
## In real life, download crandb and tvdb from CRAN or load them from your directory
## with functions crandb_down(), crandb_load(), tvdb_down(), tvdb_load().
## In this example, we use small files.
crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))
tvdb_load(system.file("data", "ztvdb.rda", package = "RWsearch"))

## List the task views
tvdb_vec()

## Search for the recent packages in crandb that contain the keyword
## and verify the packages already refereed in the task view.
(lst <- s_crandb_tvdb("distribution", tv = "Distributions", from = "2018-01-01"))
p_display7(lst[c("inTV", "notinTV")], dir = tempdir())</pre>
```

s_hs

Search Packages and Functions in Installed Packages

Description

s_hs is a wrapper of the well known function ?? and its parent function help.search. Visit the help page help.search for details on the various arguments.

Usage

```
s_hs(..., char = NULL, fields = c("alias", "concept", "title"), apropos,
keyword, whatis, ignore.case = TRUE, package = NULL, agrep = NULL,
use_UTF8 = FALSE)
```

42 s_sos

Arguments

	one single character string recognized by cnsc. One and only one pattern	
char	(name to) a single character string. Use this argument if fails or if you call the function from another function. If used, argument is ignored.	
fields	See help.search.	
apropos	See help.search.	
keyword	See help.search.	
whatis	See help.search.	
ignore.case	See help.search.	
package	See help.search.	
agrep	See help.search.	
use_UTF8	See help.search.	
s_sos	Search Packages and Functions in U. of Pennsylvania and RDocumentation	

Description

s_sos searchs in all R documentation packages and functions that contain one or several keywords, open the default browser and display the results in a html page. For one or two keywords, s_sos may find more results than s_crandb as it goes deeper in the documentation, down to the function level. An internet connection is required to reach the website maintained by the University of Pennsylvania.

s_sos is a minimal wrapper of the function *sos::findFn*. Use directly the package *sos* and read its vignette for advanced search options.

Usage

```
s_sos(..., char = NULL)
```

Arguments

... any format recognized by cnsc, except list. One or several keywords.

char (name to) a character vector. Use this argument if ... fails or if you call the

function from another function. If used, argument . . . is ignored.

See Also

http://finzi.psych.upenn.edu,

```
https://CRAN.R-project.org/package=sos (index and vignette).
```

s_tvdb

Examples

```
## Search using standard or non-standard content
## and display the results in a browser.
s_sos("chemical reaction")
(res <- s_sos(distillation))
data.frame(res)</pre>
```

 s_tvdb

Search Packages in Task Views

Description

s_tvdb searchs if one or several package(s) are referred in some task views and lists these task views.

Usage

```
s_tvdb(..., char = NULL, tvdb = get("tvdb", envir = .GlobalEnv))
```

Arguments

... any format recognized by cnsc, except list. The names of one or several task

views.

char (name to) a character vector or a list. Use this argument if . . . fails or if you call

the function from another function. If used, argument . . . is ignored.

tvdb list. The list of the task views.

```
## In real life, download tvdb from CRAN or load it from your directory
## with functions tvdb_down() or tvdb_load().
## In this example, we use a small file.
tvdb_load(system.file("data", "ztvdb.rda", package = "RWsearch"))
tvdb_dfr()
s_tvdb(actuar, FatTailsR, MASS, zoo, NotAPkg)
```

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|--|

Description

tvdb_down downloads from CRAN the file "Views.rds", a file refreshed every day that describes the task views available in CRAN for this day, rearranges the list in an alphabetical order and gives names to the list names, then loads in .GlobalEnv this list (of class ctvlist) under the name tvdb and saves it with the filename tvdb.rda.

tvdb_load loads the file filename in .GlobalEnv under the name tvdb. Equivalent to load("tvdb.rda").

tvdb_vec displays the list of the task views. There are 36 task views in August 2018.

tvdb_dfr extracts from tvdb a data.frame version, name, topic of the task views.

tvdb_list extracts from tvdb the list of the task views and the referenced packages.

tvdb_pkgs displays the packages referenced by one or several task views.

Visit s_crandb_tvdb to conduct task view maintenance.

Usage

```
tvdb_down(dir = ".", repos = getOption("repos")[1])
tvdb_load(filename = "tvdb.rda")

tvdb_vec(tvdb = get("tvdb", envir = .GlobalEnv))

tvdb_dfr(tvdb = get("tvdb", envir = .GlobalEnv))

tvdb_list(tvdb = get("tvdb", envir = .GlobalEnv))

tvdb_pkgs(..., char = NULL, tvdb = get("tvdb", envir = .GlobalEnv))
```

Arguments

dir	character. The directory where "tvdb.rda" is saved. Default value "." is the current directory.
repos	character. The address of your local CRAN.
filename	character. The path to file "tvdb.rda". The default is to read in the current directory.
tvdb	list. The list of the task views.
•••	any format recognized by cnsc, except list. The names of one or several task views.
char	(name to) a character vector or a list. Use this argument if fails or if you call the function from another function. If used, argument is ignored.

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Examples

```
### DOWNLOAD AND VISUALIZE THE TASK VIEWS (tvdb)
## In real life, download tvdb from CRAN or load it from your directory
## with functions tvdb_down() or tvdb_load().
## In this example, we use a small file.
tvdb_load(system.file("data", "ztvdb.rda", package = "RWsearch"))
length(tvdb)
## List the task views
tvdb_vec()
tvdb_dfr()
tvdb_pkgs("Genetics")
lengths(tvdb_list())
## Here, 'lst' is subsetted from the small crandb file.
crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))
'%in2%' <- function (x, y) x[match(x, y, nomatch = 0) > 0]
        <- lapply(tvdb_list()[1:3], '%in2%', crandb$Package) ; lst</pre>
lst
p_display7(lst, dir = file.path(tempdir(), "pdisp"), verbose = TRUE)
```

zcrandb

File zcrandb.rda: A Subset of crandb Dataset

Description

File *zcrandb.rda* loads in .Globalenv as crandb, a data.frame of dim 50 x 65. It contains 50 packages that match the keywords used in the examples of this package.

File *zcrandb.rda*, 22 ko, acts as a replacement of the original but large file *crandb.rda* to be downloaded from CRAN. The weight of *crandb.rda* was 4.3 Mo with 13001 packages on August 31, 2018 and 6.7 Mo with 13902 packages on March 17, 2019. The use of zcrandb.rda avoids inappropriate connections to CRAN and increases the speed in the examples.

Examples

```
crandb_load(system.file("data", "zcrandb.rda", package = "RWsearch"))
```

ztvdb

File ztvdb.rda: A Subset of tvdb Dataset

Description

File *ztvdb.rda* is a small file of 5 ko that contains 6 task views and acts as a replacement of the large file *tvdb.rda* downloaded from CRAN that contains 36 task views. It loads in .GlobalEnv as tvdb. The use of *ztvdb.rda* avoids inappropriate connections to CRAN and increases the speed in the examples.

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```
tvdb_load(system.file("data", "ztvdb.rda", package = "RWsearch"))
```

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