Package 'packageRank'

November 10, 2023

Type Package

Title Computation and Visualization of Package Download Counts and Percentiles

Version 0.8.3

Date 2023-11-10

Maintainer Peter Li <lindbrook@gmail.com>

Description Compute and visualize the cross-sectional and longitudinal number and rank percentile of package downloads from Posit/RStudio's CRAN mirror.

URL https://github.com/lindbrook/packageRank

BugReports https://github.com/lindbrook/packageRank/issues

Depends R (>= 3.5)

License GPL (>= 2)

Encoding UTF-8

Language en-US

LazyData true

RoxygenNote 7.2.3

Imports cranlogs, curl, data.table (>= 1.12.2), ggplot2, ISOcodes, memoise, pkgsearch, RCurl, R.utils, rversions, sugrrants, tools

Suggests knitr, rmarkdown

NeedsCompilation no

Author Peter Li [aut, cre]

Repository CRAN

Date/Publication 2023-11-10 00:50:02 UTC

R topics documented:

`annualDownloads` *Count Total CRAN Download.*

Description

From RStudio's CRAN Mirror http://cran-logs.rstudio.com/

Usage

```
annualDownloads(start.yr = 2013, end.yr = 2022)
```

Arguments

`start.yr`	Numeric or Integer.
`end.yr`	Numeric or Integer.

archivePackages *Packages in CRAN archive.*

Description

Scrape https://cran.r-project.org/src/contrib/Archive/.

Usage

```
archivePackages(include.date = FALSE, multi.core = TRUE,
  dev.mode = FALSE)
```

Arguments

include.date	Logical. Return data frame with package name and last publication date.
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores.
dev.mode	Logical. Development mode uses parallel::parLapply().

bioconductorDownloads *Annual/monthly package downloads from Bioconductor.*

Description

Annual/monthly package downloads from Bioconductor.

Usage

```
bioconductorDownloads(packages = NULL, from = NULL, to = NULL,
  when = NULL, unit.observation = "month")
```

Arguments

packages	Character. Vector of package names.
from	Start date as yyyy-mm or yyyy.
to	End date as yyyy-mm or yyyy.
when	"last-year", or "year-to-date" or "ytd".
unit.observation	"year" or "month".

Examples

```
## Not run:
# all packages
bioconductorDownloads()

# entire history
bioconductorDownloads(packages = "clusterProfiler")

# year-to-date
bioconductorDownloads(packages = "clusterProfiler", when = "ytd")
bioconductorDownloads(packages = "clusterProfiler", when = "year-to-date")

# last 12 months
bioconductorDownloads(packages = "clusterProfiler", when = "last-year")

# from 2015 to current year
bioconductorDownloads(packages = "clusterProfiler", from = 2015)

# 2010 through 2015 (yearly)
bioconductorDownloads(packages = "clusterProfiler", from = 2010, to = 2015,
  unit.observation = "year")

# selected year (yearly)
bioconductorDownloads(packages = "clusterProfiler", from = 2015, to = 2015)

# selected year (monthly)
bioconductorDownloads(packages = "clusterProfiler", from = "2015-01", to = "2015-12")

# June 2014 through March 2015
bioconductorDownloads(packages = "clusterProfiler", from = "2014-06", to = "2015-03")

## End(Not run)
```

`bioconductorRank` *Package download counts and rank percentiles.*

Description

From bioconductor

Usage

```
bioconductorRank(packages = "monocle", date = "2019-01",
  count = "download")
```

Arguments

`packages`	Character. Vector of package name(s).
`date`	Character. Date. yyyy-mm
`count`	Character. "ip" or "download".

Value

An R data frame.

Examples

```
## Not run:
bioconductorRank(packages = "cicero", date = "2019-09")

## End(Not run)
```

`blog.data` *Blog post data.*

Description

archive.pkg_ver

archive.pkg_ver.filtered

cran.pkg_ver

cran.pkg_ver.filtered

dl.ct

dl.ct2

pkg.ct

pkg.ct2

oct.data

cholera.data

ggplot2.data

VR.data

smpl

smpl.histories

smpl.archive

smpl.archive.histories

ccode.ct

crosstab_2019_10_01

percentiles

top.n.oct2019

top.n.jul2020

download.country

october.downloads

july.downloads

cran.pkgs.oct
arch.pkgs.oct
cran.pkgs.jul
arch.pkgs.jul
pkg.history

Usage

```
blog.data
```

Format

A list with 29 elements.

---

countryDistribution *Tabulate package downloads by country.*

Description

From RStudio's CRAN Mirror http://cran-logs.rstudio.com/

Usage

```
countryDistribution(date = NULL, all.filters = FALSE, ip.filter = FALSE,
  triplet.filter = FALSE, small.filter = FALSE, sequence.filter = FALSE,
  size.filter = FALSE, memoization = TRUE, multi.core = TRUE,
  dev.mode = FALSE)
```

Arguments

date	Character. Date. "yyyy-mm-dd". NULL uses latest available log.
all.filters	Logical. Master switch for filters.
ip.filter	Logical.
triplet.filter	Logical.
small.filter	Logical. TRUE filters out downloads less than 1000 bytes.
sequence.filter	Logical.
size.filter	Logical.
memoization	Logical. Use memoization when downloading logs.
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores. Mac and Unix only.
dev.mode	Logical. Development mode uses parallel::parLapply().

Value

An R data frame.

countryPackage *Tabulate a country's package downloads.*

Description

From RStudio's CRAN Mirror http://cran-logs.rstudio.com/

Usage

```
countryPackage(country = "HK", date = NULL, all.filters = FALSE,
  ip.filter = FALSE, triplet.filter = FALSE, small.filter = FALSE,
  sequence.filter = FALSE, size.filter = FALSE, sort = TRUE,
  memoization = TRUE, multi.core = TRUE, dev.mode = FALSE)
```

Arguments

country	Character. country abbreviation.
date	Character. Date. "yyyy-mm-dd". NULL uses latest available log.
all.filters	Logical. Master switch for filters.
ip.filter	Logical.
triplet.filter	Logical.
small.filter	Logical.
sequence.filter	Logical. Set to FALSE.
size.filter	Logical. Set to FALSE.
sort	Logical. Sort by download count.
memoization	Logical. Use memoization when downloading logs.
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores. Mac and Unix only.
dev.mode	Logical. Development mode uses parallel::parLapply().

Note

"US" outlier 10 min with all filters!

countsRanks *Counts v. Rank Percentiles for 'cholera' for First Week of March 2020.*

Description

Document code for blog graph.

Usage

```
countsRanks(package = "cholera", size.filter = FALSE)
```

Arguments

package	Character.
size.filter	Logical.

cranDownloads *Daily package downloads from the RStudio CRAN mirror.*

Description

Enhanced implementation of cranlogs::cran_downloads().

Usage

```
cranDownloads(packages = NULL, when = NULL, from = NULL, to = NULL,
  check.package = TRUE, dev.mode = FALSE, fix.cranlogs = TRUE)
```

Arguments

packages	A character vector, the packages to query, or NULL for a sum of downloads for all packages. Alternatively, it can also be "R", to query downloads of R itself. "R" cannot be mixed with packages.
when	last-day, last-week or last-month. If this is given, then from and to are ignored.
from	Start date as yyyy-mm-dd, yyyy-mm or yyyy.
to	End date as yyyy-mm-dd, yyyy-mm or yyyy.
check.package	Logical. Validate and "spell check" package.
dev.mode	Logical. Use validatePackage0() to scrape CRAN.
fix.cranlogs	Logical. Use RStudio logs to fix 8 dates with duplicated data in 'cranlogs' results.

Examples

```
## Not run:
cranDownloads(packages = "HistData")
cranDownloads(packages = "HistData", when = "last-week")
cranDownloads(packages = "HistData", when = "last-month")

# January 7 - 31, 2019
cranDownloads(packages = "HistData", from = "2019-01-07", to = "2019-01-31")

# February through March 2019
cranDownloads(packages = "HistData", from = "2019-02", to = "2019-03")

# 2020 year-to-date
cranDownloads(packages = "HistData", from = 2020)

## End(Not run)
```

`cranInflationPlot` *CRAN inflation plot.*

Description

Document code.

Usage

```
cranInflationPlot(dataset = "october")
```

Arguments

`dataset`	Character. "october" or "july" for October 2019 or July 2020.

`cranMirrors` *Scrape CRAN Mirrors data.*

Description

https://cran.r-project.org/mirrors.html

Usage

```
cranMirrors(description = FALSE)
```

Arguments

`description`	Logical. Mirror details.

`cranPackages` *Scrape CRAN package information.*

Description

Current version, date and size (source and binary).

Usage

```
cranPackages(binary = FALSE, bytes = FALSE, multi.core = TRUE)
```

Arguments

`binary`	Logical. Compute size of binary files.
`bytes`	Logical. Compute approximate numeric file size in bytes.
`multi.core`	Logical or Numeric. `TRUE` uses `parallel::detectCores()`. `FALSE` uses one, single core. You can also specify the number logical cores. Mac and Unix only.

Value

An R data frame.

`currentTime` *Compute Current Time in Selected Time Zone.*

Description

Compute Current Time in Selected Time Zone.

Usage

```
currentTime(tz = "Australia/Sydney")
```

Arguments

`tz`	Character. Local time zone. See OlsonNames() or use Sys.timezone().

downloadsCountry *Compute Downloads by Country Code.*

Description

Compute Downloads by Country Code.

Usage

```
downloadsCountry(month_cran_log, multi.core = TRUE)
```

Arguments

month_cran_log	Object.
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores to use. Note that due to performance considerations, the number of cores defaults to one on Windows.

extractArchiveDate *Extract a package's archive date.*

Description

Date a package is moved to Archive (if available).

Usage

```
extractArchiveDate(package)
```

Arguments

package	Character. Package name.

Value

An R data frame.

fetchCranLog *Fetch CRAN Logs.*

Description

Fetch CRAN Logs.

Usage

```
fetchCranLog(date, memoization = FALSE, dev.mode = FALSE)
```

Arguments

date	Character. Date. yyyy-mm-dd.
memoization	Logical. Use memoization when downloading logs.
dev.mode	Logical. Use Base R code.

fetchRLog *Fetch R download Logs.*

Description

Fetch R download Logs.

Usage

```
fetchRLog(date)
```

Arguments

date	Character. Date. yyyy-mm-dd.

filteredDownloads *Filtered package downloads from the RStudio CRAN mirror (prototype).*

Description

ip, triplet, small, sequence and size filters.

Usage

```
filteredDownloads(packages = "HistData", date = NULL, all.filters = TRUE,
  ip.filter = FALSE, triplet.filter = FALSE, small.filter = FALSE,
  sequence.filter = FALSE, size.filter = FALSE, check.package = TRUE,
  memoization = TRUE, multi.core = TRUE)
```

Arguments

packages	Character. Vector of package name(s).
date	Character. Date. "yyyy-mm-dd". NULL uses latest available log.
all.filters	Logical. Master switch for filters.
ip.filter	Logical.
triplet.filter	Logical.
small.filter	Logical. TRUE filters out downloads less than 1000 bytes.
sequence.filter	Logical.
size.filter	Logical.
check.package	Logical. Validate and "spell check" package.
memoization	Logical. Use memoization when downloading logs.
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores. Mac and Unix only.

inflationPlot *Inflation plots of effects of "small" downloads and prior versions for October 2019: 'cholera', 'ggplot2', and 'VR'.*

Description

Document code for blog graph.

Usage

```
inflationPlot(package = "cholera", filter = "size",
  legend.loc = "topleft")
```

Arguments

package	Character.
filter	Character. Size, version, or size and version
legend.loc	Character. Location of legend.

---

inflationPlot2 *Inflation plots of effects of "small" downloads on aggregate CRAN downloads for October 2019 and July 2020.*

Description

Document code.

Usage

```
inflationPlot2(dataset = "october", filter = "small", wed = FALSE,
  subtitle = TRUE, legend.loc = "topleft")
```

Arguments

dataset	Character. "october" or "july" for October 2019 or July 2020.
filter	Character. "small", "ip", or "ip.small".
wed	Logical.
subtitle	Logical.
legend.loc	Character. Location of legend.

---

ipCount *Count number of IP addresses.*

Description

From RStudio's CRAN Mirror http://cran-logs.rstudio.com/

Usage

```
ipCount(date = NULL, memoization = TRUE, sort = TRUE)
```

Arguments

date	Character. Date. "yyyy-mm-dd". NULL uses latest available log.
memoization	Logical. Use memoization when downloading logs.
sort	Logical. Sort by download count.

ipDownloads *Unique package download counts by IP address.*

Description

From RStudio's CRAN Mirror http://cran-logs.rstudio.com/

Usage

```
ipDownloads(date = NULL, memoization = TRUE)
```

Arguments

date	Character. Date. "yyyy-mm-dd". NULL uses latest available log.
memoization	Logical. Use memoization when downloading logs.

ipFilter *Filter Out A-Z Campaigns from IPs with many unique package downloads.*

Description

Uses run length encoding, rle(), and k-means clustering, stats::kmeans().

Usage

```
ipFilter(cran_log, campaigns = TRUE, rle.depth = 100,
  case.sensitive = FALSE, multi.core = TRUE, dev.mode = dev.mode)
```

Arguments

cran_log	Object. Package log entries.
campaigns	Logical. Filter A-Z campaigns when checking IPs with high unique package download counts.
rle.depth	s Numeric. Ceiling for number of rows of run length encoding. Fewer rows means longer runs.
case.sensitive	Logical.
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores. Mac and Unix only.
dev.mode	Logical. Development mode uses parallel::parLapply().

ipPackage *Tabulate an IP's package downloads.*

Description

From RStudio's CRAN Mirror http://cran-logs.rstudio.com/

Usage

```
ipPackage(ip = 10, date = NULL, all.filters = FALSE, ip.filter = FALSE,
  triplet.filter = FALSE, small.filter = FALSE, sequence.filter = FALSE,
  size.filter = FALSE, sort = TRUE, memoization = TRUE,
  multi.core = TRUE, dev.mode = FALSE)
```

Arguments

ip	Numeric. ip_id.
date	Character. Date. "yyyy-mm-dd". NULL uses latest available log.
all.filters	Logical. Master switch for filters.
ip.filter	Logical.
triplet.filter	Logical.
small.filter	Logical. TRUE filters out downloads less than 1000 bytes.
sequence.filter	Logical.
size.filter	Logical.
sort	Logical. Sort by download count.
memoization	Logical. Use memoization when downloading logs.
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores. Mac and Unix only.
dev.mode	Logical. Development mode uses parallel::parLapply().

Note

ip = 10 is a tw top-level domain on 2020-07-09.

localTime *Compute Local Time from Coordinated Universal Time (UTC/GMT).*

Description

Compute Local Time from Coordinated Universal Time (UTC/GMT).

Usage

```
localTime(date = "2021-1-1", time = "12:00", tz = Sys.timezone())
```

Arguments

date	Character. Date "yyyy-mm-dd".
time	Character. Local time "hh:mm" or "hh:mm:ss".
tz	Character. Local time zone. See OlsonNames() or use Sys.timezone().

logDate *Compute Effective CRAN Log Date Based on Local and UTC Time (prototype).*

Description

RStudio CRAN Mirror Logs for previous day are posted at 17:00:00 UTC.

Usage

```
logDate(date = NULL, check.url = TRUE, tz = Sys.timezone(),
  upload.time = "17:00", warning.msg = TRUE, fix.date = TRUE)
```

Arguments

date	Character. Date of desired log "yyyy-mm-dd". NULL returns date of latest available log.
check.url	Logical.
tz	Character. Time zone. See OlsonNames().
upload.time	Character. UTC upload time for logs "hh:mm" or "hh:mm:ss".
warning.msg	Logical. TRUE uses warning() if the function returns the date of the previous available log.
fix.date	Logical. Fix date when directly accessing RStudio logs.

Value

An R date object.

logInfo *Compute Availability, Date, Time of "Today's" Log.*

Description

Also checks availability of Posit/RStudio logs and 'cranlogs' data.

Usage

```
logInfo(tz = Sys.timezone(), upload.time = "17:00",
  show.available = FALSE)
```

Arguments

tz	Character. Local time zone. See OlsonNames() or use Sys.timezone().
upload.time	Character. UTC upload time for logs "hh:mm" or "hh:mm:ss".
show.available	Logical. Check available logs and results.

monthlyLog *Get CRAN logs for selected month.*

Description

Compute list of log files, 'lst', for packageVersionPercent().

Usage

```
monthlyLog(yr.mo = "2020-07")
```

Arguments

yr.mo	Character. "yyyy-mm".

Note

This is computationally intensive; you're downloading 30 odd files that are each around 50 MB in size (and creating a ~1.5 GB file)! Parallelization not practical; multiple attempts to connect to website causes problems. Truncates in-progress/future dates to yesterday's date. Automatically takes care of leap days (e.g., monthlyLog("2020-02").

packageArchive *Scrape package data from Archive.*

Description

Scrape package data from Archive.

Usage

```
packageArchive(package = "cholera", check.package = TRUE, size = FALSE)
```

Arguments

package	Character. Package name.
check.package	Logical. Validate and "spell check" package.
size	Logical. Include size of source file.

Value

An R data frame or NULL.

Examples

```
## Not run:
packageArchive(package = "HistData")
packageArchive(package = "adjustedcranlogs")  # No archived versions.

## End(Not run)
```

packageCountry *Package download counts by country.*

Description

From RStudio's CRAN Mirror http://cran-logs.rstudio.com/

Usage

```
packageCountry(packages = "cholera", date = NULL, all.filters = FALSE,
  ip.filter = FALSE, triplet.filter = FALSE, small.filter = FALSE,
  sequence.filter = FALSE, size.filter = FALSE, sort = TRUE,
  na.rm = FALSE, memoization = TRUE, check.package = TRUE,
  multi.core = TRUE, dev.mode = FALSE)
```

Arguments

packages	Character. Vector of package name(s).
date	Character. Date. "yyyy-mm-dd". NULL uses latest available log.
all.filters	Logical. Master switch for filters.
ip.filter	Logical.
triplet.filter	Logical.
small.filter	Logical.
sequence.filter	Logical.
size.filter	Logical.
sort	Logical. Sort by download count.
na.rm	Logical. Remove NAs.
memoization	Logical. Use memoization when downloading logs.
check.package	Logical. Validate and "spell check" package.
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores. Mac and Unix only.
dev.mode	Logical. Development mode uses parallel::parLapply().

---

packageCRAN *Scrape package data from CRAN.*

Description

Version, date and size (source file) of most recent publication.

Usage

```
packageCRAN(package = "cholera", check.package = TRUE, size = FALSE)
```

Arguments

package	Character. Package name.
check.package	Logical. Validate and "spell check" package.
size	Logical. Include size of source file.

Value

An R data frame or NULL.

Examples

```
## Not run:
packageCRAN(package = "HistData")
packageCRAN(package = "VR") # No version on CRAN (archived)

## End(Not run)
```

packageDistribution *Package Download Distribution.*

Description

Package Download Distribution.

Usage

```
packageDistribution(package = "HistData", date = NULL,
  all.filters = FALSE, ip.filter = FALSE, small.filter = FALSE,
  memoization = TRUE, check.package = TRUE, multi.core = TRUE,
  dev.mode = FALSE, threshold = 1000L)
```

Arguments

package	Character. Vector of package name(s).
date	Character. Date. "yyyy-mm-dd". NULL uses latest available log.
all.filters	Logical. Master switch for filters.
ip.filter	Logical.
small.filter	Logical. TRUE filters out downloads less than 1000 bytes.
memoization	Logical. Use memoization when downloading logs.
check.package	Logical. Validate and "spell check" package.
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores. Mac and Unix only.
dev.mode	Logical. Development mode uses parallel::parLapply().
threshold	Numeric. Threshold for small.filter in Bytes.

packageHistory *Extract package or R version history.*

Description

Date and version of all publications.

Usage

```
packageHistory(package = "cholera", check.package = FALSE)
```

Arguments

package	Character. Vector of package names (including "R").
check.package	Logical. Validate and "spell check" package.

packageLog *Get Package Download Logs.*

Description

From RStudio's CRAN Mirror http://cran-logs.rstudio.com/

Usage

```
packageLog(packages = "cholera", date = NULL, all.filters = FALSE,
  ip.filter = FALSE, triplet.filter = FALSE, small.filter = FALSE,
  sequence.filter = FALSE, size.filter = FALSE, memoization = TRUE,
  check.package = TRUE, multi.core = TRUE, dev.mode = FALSE)
```

Arguments

packages	Character. Vector of package name(s).
date	Character. Date. "yyyy-mm-dd". NULL uses latest available log.
all.filters	Logical. Master switch for filters.
ip.filter	Logical.
triplet.filter	Logical.
small.filter	Logical. TRUE filters out downloads less than 1000 bytes.
sequence.filter	Logical.
size.filter	Logical.
memoization	Logical. Use memoization when downloading logs.
check.package	Logical. Validate and "spell check" package.
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores. Mac and Unix only.
dev.mode	Logical. Development mode uses parallel::parLapply().

Value

An R data frame.

packageRank *Package download counts and rank percentiles (prototype).*

Description

From RStudio's CRAN Mirror http://cran-logs.rstudio.com/

Usage

```
packageRank(packages = "HistData", date = NULL, all.filters = FALSE,
  ip.filter = FALSE, small.filter = FALSE, memoization = TRUE,
  check.package = TRUE, multi.core = TRUE, dev.mode = FALSE,
  threshold = 1000L)
```

Arguments

packages	Character. Vector of package name(s).
date	Character. Date. "yyyy-mm-dd". NULL uses latest available log.
all.filters	Logical. Master switch for filters.
ip.filter	Logical.
small.filter	Logical. TRUE filters out downloads less than 1000 bytes.
memoization	Logical. Use memoization when downloading logs.
check.package	Logical. Validate and "spell check" package.
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores. Mac and Unix only.
dev.mode	Logical. Development mode uses parallel::parLapply().
threshold	Numeric. Threshold for small.filter in Bytes.

Value

An R data frame.

Examples

```
## Not run:
packageRank(packages = "HistData", date = "2020-01-01")
packageRank(packages = c("h2o", "Rcpp", "rstan"), date = "2020-01-01")

## End(Not run)
```

packages_in_Archive *Packages currently in Archive*

Description

Include inactive (retired) packages and previous versions of active packages.

Usage

```
packages_in_Archive(multi.core = TRUE)
```

Arguments

multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores. See vignette("Parallelization") for details.

Value

An R vector.

packages_observed_in_logs *Packages observed in download logs.*

Description

Packages observed in download logs.

Usage

```
packages_observed_in_logs(date = NULL)
```

Arguments

date	Character. Date. "yyyy-mm-dd". NULL uses latest available log.

Value

An R vector.

packages_on_CRAN *Packages currently on CRAN.*

Description

Package name, version and date of publication.

Usage

```
packages_on_CRAN()
```

Value

An R data frame.

packages_partitioned *Partitioned CRAN and Archive Packages.*

Description

CRAN, Archive, Observed, CRAN & Archive, CRAN only and Archive only.

Usage

```
packages_partitioned(observed.downloads = FALSE, multi.core = TRUE)
```

Arguments

observed.downloads	Logical. Compute current observed package downloads.
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores. See vignette("Parallelization") for details.

Value

An R list.

packageVersionPercent *Compute data for versionPlot().*

Description

packageRank::blog.data or recompute random sample of packages.

Usage

```
packageVersionPercent(lst, yr.mo = "2020-07", multi.core = TRUE)
```

Arguments

lst	Object. List of CRAN download logs data frames. Use monthlyLog().
yr.mo	Character. "yyyy-mo". packageVersionsPercent(NULL, yr.mo)
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores. Mac and Unix only.

Examples

```
## Not run:
# To resample and recompute, set lst to NULL, specify a yr.mo:
packageVersionPercent(NULL, yr.mo = "2020-07")

Otherwise, you must provide a pre-computed lst of logs.

## End(Not run)
```

plot.annualDownloads *Plot method for annualDownloads().*

Description

Plot method for annualDownloads().

Usage

```
## S3 method for class 'annualDownloads'
plot(x, statistic = "count", pool.obs = FALSE,
  log.y = FALSE, sep.y = FALSE, nrow = 3, smooth = TRUE, span = 3/4,
  ...)
```

Arguments

x	object.
statistic	Character. "count" or "percent".
pool.obs	Logical.
log.y	Logical. Base 10 logarithm of y-axis.
sep.y	Logical. Separate, independent y-scales for each panel.
nrow	Numeric. Number of rows for ggplot2 facets.
smooth	Logical. Add smoother (loess).
span	Numeric. Smoothing parameter for geom_smooth(); c.f. stats::loess(span). 3/4 is built-in default.
...	Additional plotting parameters.

---

plot.bioconductorDownloads

Plot method for bioconductorDownloads().

Description

Plot method for bioconductorDownloads().

Usage

```
## S3 method for class 'bioconductorDownloads'
plot(x, graphics = NULL,
  count = "download", cumulative = FALSE, points = "auto",
  smooth = FALSE, f = 2/3, span = 3/4, se = FALSE, log.y = FALSE,
  r.version = FALSE, same.xy = TRUE, multi.plot = FALSE,
  legend.loc = "topleft", ...)
```

Arguments

x	object.
graphics	Character. NULL, "base" or "ggplot2".
count	Character. "download" or "ip".
cumulative	Logical. Use cumulative counts.
points	Character of Logical. Plot points. "auto", TRUE, FALSE. "auto" for bioconductorDownloads(unit.observation = "month") with 24 or fewer months, points are plotted.
smooth	Logical. Add stats::lowess smoother.
f	Numeric. smoother window for stats::lowess(). For graphics = "base" only; c.f. stats::lowess(f)
span	Numeric. Smoothing parameter for geom_smooth(); c.f. stats::loess(span).

se	Logical. Works only with graphics = "ggplot2".
log.y	Logical. Logarithm of package downloads.
r.version	Logical. Add R release dates.
same.xy	Logical. Use same scale for multiple packages when graphics = "base".
multi.plot	Logical. Plot all data in a single window frame.
legend.loc	Character.
...	Additional plotting parameters.

Examples

```
## Not run:
plot(bioconductorDownloads())
plot(bioconductorDownloads(packages = "graph"))
plot(bioconductorDownloads(packages = "graph", from = 2010, to = 2015))
plot(bioconductorDownloads(packages = "graph", from = "2014-06", to = "2015-03"))
plot(bioconductorDownloads(packages = c("graph", "IRanges", "S4Vectors"), from = 2018))

## End(Not run)
```

---

plot.bioconductorRank *Plot method for bioconductorRank().*

Description

Plot method for bioconductorRank().

Usage

```
## S3 method for class 'bioconductorRank'
plot(x, graphics = NULL, log_count = TRUE, ...)
```

Arguments

x	An object of class "bioconductor_rank" created by bioconductorRank().
graphics	Character. "base" or "ggplot2".
log_count	Logical. Logarithm of package downloads.
...	Additional plotting parameters.

Value

A base R or ggplot2 plot.

plot.countryDistribution *Plot top 10 package downloads by country domain.*

Description

Plot method for packageDistribution().

Usage

```
## S3 method for class 'countryDistribution'
plot(x, ...)
```

Arguments

x	An object of class "countryDistribution" created by `countryDistribution()`.
...	Additional plotting parameters.

plot.countsRanks *Plot method for countsRanks().*

Description

Plot method for countsRanks().

Usage

```
## S3 method for class 'countsRanks'
plot(x, ...)
```

Arguments

x	object.
...	Additional plotting parameters.

plot.cranDownloads *Plot method for cranDownloads().*

Description

Plot method for cranDownloads().

Usage

```
## S3 method for class 'cranDownloads'
plot(x, statistic = "count", graphics = "auto",
  points = "auto", log.y = FALSE, smooth = FALSE, se = FALSE,
  f = 1/3, span = 3/4, package.version = FALSE, r.version = FALSE,
  population.plot = FALSE, population.seed = as.numeric(Sys.Date()),
  multi.plot = FALSE, same.xy = TRUE, legend.location = "topleft",
  ip.legend.location = "topright", r.total = FALSE, dev.mode = FALSE,
  unit.observation = "day", multi.core = TRUE, ...)
```

Arguments

x	object.
statistic	Character. "count" or "cumulative".
graphics	Character. "auto", "base" or "ggplot2".
points	Character of Logical. Plot points. "auto", TRUE, FALSE.
log.y	Logical. Logarithm of package downloads.
smooth	Logical. Add smoother.
se	Logical. Works only with graphics = "ggplot2".
f	Numeric. smoother window for stats::lowess(). For graphics = "base" only; c.f. stats::lowess(f)
span	Numeric. Smoothing parameter for geom_smooth(); c.f. stats::loess(span).
package.version	Logical. Add latest package release dates.
r.version	Logical. Add R release dates.
population.plot	Logical. Plot population plot.
population.seed	Numeric. Seed for sample in population plot.
multi.plot	Logical.
same.xy	Logical. Use same scale for multiple packages when graphics = "base".
legend.location	Character.
ip.legend.location	Character. Location of in-progress legend.

r.total	Logical.
dev.mode	Logical. Use packageHistory0() to scrape CRAN.
unit.observation	Character. "year", "month", "week", or "day".
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores. Mac and Unix only.
...	Additional plotting parameters.

Value

A base R or ggplot2 plot.

Examples

```
## Not run:
plot(cranDownloads(packages = c("Rcpp", "rlang", "data.table")))
plot(cranDownloads(packages = c("Rcpp", "rlang", "data.table"), when = "last-month"))
plot(cranDownloads(packages = "R", from = "2020-01-01", to = "2020-01-01"))
plot(cranDownloads(packages = "R", from = 2020))

## End(Not run)
```

---

plot.packageDistribution

Plot method for packageDistribution().

Description

Plot method for packageDistribution().

Usage

```
## S3 method for class 'packageDistribution'
plot(x, ...)
```

Arguments

x	An object of class "packageDistribution" created by packageDistribution().
...	Additional plotting parameters.

plot.packageRank *Plot method for packageRank() and packageRank0().*

Description

Plot method for packageRank() and packageRank0().

Usage

```
## S3 method for class 'packageRank'
plot(x, graphics = NULL, log_count = TRUE, ...)
```

Arguments

x	An object of class "packageRank" created by packageRank().
graphics	Character. "base" or "ggplot2".
log_count	Logical. Logarithm of package downloads.
...	Additional plotting parameters.

Value

A base R or ggplot2 plot.

Examples

```
## Not run:
plot(packageRank(packages = "HistData", date = "2020-01-01"))
plot(packageRank(packages = c("h2o", "Rcpp", "rstan"), date = "2020-01-01"))

## End(Not run)
```

plot.packageVersionPercent *Plot method for packageVersionPercent().*

Description

Plot method for packageVersionPercent().

Usage

```
## S3 method for class 'packageVersionPercent'
plot(x, ...)
```

Arguments

x	An object of class "packageVersions" created by packageVersions().
...	Additional plotting parameters.

---

plot.weeklyDownloads *Plot method for weeklyDownloads().*

Description

Plot method for weeklyDownloads().

Usage

```
## S3 method for class 'weeklyDownloads'
plot(x, statistic = "percent",
  aggregation = "day", typical.value = "mean", nrow = 3L, ...)
```

Arguments

x	object.
statistic	Character. "count" or "percent".
aggregation	Character. "week" or "day".
typical.value	Character. "mean" or "median".
nrow	Numeric. Number of rows for ggplot2 facets.
...	Additional plotting parameters.

Examples

```
## Not run:
plot(weeklyDownloads())
plot(weeklyDownloads(n = 9), aggregation = "week")

## End(Not run)
```

---

plotDownloadsCountry *Plot Compute Downloads by Country Code.*

Description

Plot Compute Downloads by Country Code.

Usage

```
plotDownloadsCountry()
```

`plotTopCountryCodes` *Plot Top N Downloads by Country Code.*

Description

Plot Top N Downloads by Country Code.

Usage

```
plotTopCountryCodes(dataset = "october", second.place = FALSE)
```

Arguments

`dataset`	Character.
`second.place`	Logical. Annotate second place country.

`print.bioconductorDownloads` *Print method for bioconductorDownloads().*

Description

Print method for bioconductorDownloads().

Usage

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

Arguments

`x`	object.
`...`	Additional parameters.

print.bioconductorRank *Print method for bioconductorRank().*

Description

Print method for bioconductorRank().

Usage

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

Arguments

x	An object of class "bioconductor_rank" created by `bioconductorRank()`
...	Additional parameters.

print.cranDownloads *Print method for cranDownloads().*

Description

Print method for cranDownloads().

Usage

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

Arguments

x	object.
...	Additional parameters.

print.packageDistribution *Print method for packageDistribution().*

Description

Print method for packageDistribution().

Usage

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

Arguments

x	An object of class "packageDistribution" created by `packageDistribution()`
...	Additional parameters.

print.packageRank *Print method for packageRank().*

Description

Print method for packageRank().

Usage

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

Arguments

x	An object of class "packageRank" created by `packageRank()`
...	Additional parameters.

rstudio.logs — *Eight RStudio Download Logs to Fix Duplicate Logs Errors in 'cranlogs'.*

Description

October 6-8, 2012; October 11, 2012; December 26-28; and January 1, 20113.

Usage

```
rstudio.logs
```

Format

```
date
time
size
r_version
r_arch
r_os
package
version
country
ip_id
```

sequenceFilter — *Filter downloads of full-sized sequential versions (prototype).*

Description

Filter downloads of full-sized sequential versions (prototype).

Usage

```
sequenceFilter(dat, packages, ymd, cores, download.time = 30,
  dev.mode = dev.mode)
```

Arguments

dat	Object.
packages	Object. An R vector of package names.
ymd	Date. Log date.
cores	Numeric. Number of cores to use.
download.time	Numeric. Package download time allowance (seconds).
dev.mode	Logical. Development mode uses parallel::parLapply().

sizeFilter *Filter out size anomalies (prototype).*

Description

Logs from RStudio's CRAN Mirror http://cran-logs.rstudio.com/

Usage

```
sizeFilter(dat, packages, cores, dev.mode = dev.mode)
```

Arguments

dat	Object. Package log entries.
packages	Character. Vector of package name(s).
cores	Integer. Number of cores for parallelization.
dev.mode	Logical. Development mode uses parallel::parLapply().

smallFilter *Filter out small downloads (prototype).*

Description

Filter out small downloads (prototype).

Usage

```
smallFilter(dat, threshold = 1000L, multi.core = TRUE,
  dev.mode = dev.mode)
```

Arguments

dat	Object. Package log entries.
threshold	Numeric. Bytes.
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores. Mac and Unix only.
dev.mode	Logical. Development mode uses parallel::parLapply().

summary.bioconductorDownloads

Summary method for bioconductorDownloads().

Description

Summary method for bioconductorDownloads().

Usage

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

Arguments

object	Object.
...	Additional parameters.

summary.bioconductorRank

Summary method for bioconductorRank().

Description

Summary method for bioconductorRank().

Usage

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

Arguments

object	Object. An object of class "bioconductor_rank" created by `bioconductorRank()`
...	Additional parameters.

Note

This is useful for directly accessing the data frame.

summary.cranDownloads *Summary method for cranDownloads().*

Description

Summary method for cranDownloads().

Usage

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

Arguments

object	Object.
...	Additional parameters.

Note

This is useful for directly accessing the data frame.

summary.packageRank *Summary method for packageRank().*

Description

Summary method for packageRank().

Usage

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

Arguments

object	Object. An object of class "packageRank" created by packageRank()
...	Additional parameters.

Note

This is useful for directly accessing the data frame.

topCountryCodes *Compute Top N Downloads by Country Code.*

Description

Compute Top N Downloads by Country Code.

Usage

```
topCountryCodes(month_cran_log, top.n = 5L, multi.core = TRUE)
```

Arguments

month_cran_log	Object.
top.n	Integer.
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores to use. Note that due to performance considerations, the number of cores defaults to one on Windows.

tripletFilter *Filter out small downloads triplets (prototype).*

Description

Logs from RStudio's CRAN Mirror http://cran-logs.rstudio.com/

Usage

```
tripletFilter(dat, time.window = 2, multi.core = TRUE,
  dev.mode = dev.mode)
```

Arguments

dat	Object. Package log entries.
time.window	Numeric. Seconds.
multi.core	Logical or Numeric. TRUE uses parallel::detectCores(). FALSE uses one, single core. You can also specify the number logical cores. Mac and Unix only.
dev.mode	Logical. Development mode uses parallel::parLapply().

utc — *Compute Coordinated Universal Time (UTC/GMT) for Your Local Time.*

Description

Compute Coordinated Universal Time (UTC/GMT) for Your Local Time.

Usage

```
utc()
```

utc0 — *Compute Coordinated Universal Time (UTC/GMT) for Specified Local Time.*

Description

Compute Coordinated Universal Time (UTC/GMT) for Specified Local Time.

Usage

```
utc0(date = "2020-01-01", time = "12:00:00", tz = "Europe/Vienna")
```

Arguments

date	Character. Date "yyyy-mm-dd".
time	Character. Local time "hh:mm" or "hh:mm:ss".
tz	Character. Local time zone. See OlsonNames() or use Sys.timezone().

versionPlot — *Version Plot.*

Description

Document code for blog graph.

Usage

```
versionPlot()
```

`weeklyDownloads` *Sample Weekly CRAN Downloads Data.*

Description

From RStudio's CRAN Mirror http://cran-logs.rstudio.com/

Usage

```
weeklyDownloads(start.yr = 2013, n = 50, multi.core = TRUE)
```

Arguments

`start.yr`	Numeric or Integer.
`n`	Numeric or Integer. Number of weeks (samples).
`multi.core`	Logical or Numeric. `TRUE` uses `parallel::detectCores()`. `FALSE` uses one, single core. You can also specify the number logical cores. Mac and Unix only.

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