Package 'packageRank'

October 15, 2025

Type Package

Title Computation and Visualization of Package Download Counts and Percentile Ranks

Version 0.9.7

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Maintainer Peter Li <lindbrook@gmail.com>

Description Compute and visualize package download counts and percentile ranks 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)

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

Suggests knitr, rmarkdown

NeedsCompilation no

Author Peter Li [aut, cre]

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`packageRank-package` *packageRank*

Description

Compute and Visualize Package Download Counts and Percentile Ranks.

Details

- Download counts via cranDownloads().
- Percentile ranks of download counts via packageRank() and packageLog().
- Download count inflation filters.
- Availability of results via logInfo().
- Reverse lookup of counts, ranks and percentile ranks.
- Data fixes for logs and 'cranlogs' R package.
- Note Sunday and Wednesday spikes in Windows R Application Nov 2022 - Mar 2023.
- Discuss country code top-level domains, memoization and internet connection timeout problem.
- Graphical fix for missing logs: August 25-26, 29-31 2025; September 1-2, 2025.

Author(s)

Maintainer: Peter Li <lindbrook@gmail.com>

See Also

Useful links:

- https://github.com/lindbrook/packageRank
- Report bugs at https://github.com/lindbrook/packageRank/issues

---

`annualPlot` *Download plot with annual and weekly data.*

Description

Download plot with annual and weekly data.

Usage

```
annualPlot(package = "packageRank", from = 2019, to = NULL,
  check.package = TRUE, pro.mode = FALSE, sunday.week = TRUE)
```

Arguments

`package`	Character Package name, "R" (for R application) or NULL (for total CRAN package downloads).
`from`	Numeric or Integer Year. "yyyy".
`to`	Numeric or Integer. Year. "yyyy"; NULL uses current year.
`check.package`	Logical. Validate and "spell check" package.
`pro.mode`	Logical.
`sunday.week`	Logical. TRUE: week starts on Sunday. FALSE: week starts on Monday.

Note

Adapted from Vesuvius plot at https://github.com/nrennie/tidytuesday/blob/main/2025/2025-05-13/20250513.R

`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,
  sequence.filter = FALSE, size.filter = FALSE, small.filter = FALSE,
  version.filter = FALSE, memoization = TRUE, multi.core = FALSE)
```

Arguments

`date`	Character. Date. "yyyy-mm-dd". NULL uses latest available log.
`all.filters`	Logical. Master switch for filters.
`ip.filter`	Logical.
`sequence.filter`	Logical.
`size.filter`	Logical.

small.filter	Logical. TRUE filters out downloads less than 1000 bytes.
version.filter	Logical. TRUE selects only most recent version.
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.

Value

An R data frame.

Note

all.filters = TRUE only enables IP and small filters.

---

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, sequence.filter = FALSE, size.filter = FALSE,
  small.filter = FALSE, version.filter = FALSE, sort.count = TRUE,
  memoization = TRUE, multi.core = 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.
sequence.filter	Logical.
size.filter	Logical.
small.filter	Logical. TRUE filters out downloads less than 1000 bytes.
version.filter	Logical. TRUE selects only most recent version.
sort.count	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.

Note

all.filters = TRUE only enables IP and small filters. "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.

cranDistribution *CRAN distribution (prototype).*

Description

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

Usage

```
cranDistribution(date = NULL, all.filters = FALSE, ip.filter = FALSE,
  small.filter = FALSE, memoization = TRUE, multi.core = FALSE)
```

Arguments

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.
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.

`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,
  pro.mode = FALSE)
```

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.
`pro.mode`	Logical. Faster but fewer checks/features. Closer to cranlogs::cran_downloads() but with cranDownloads()'s plot method.

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")

# 2024 year-to-date
cranDownloads(packages = "HistData", from = 2024)

## 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.

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 = FALSE)
```

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.

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

Description

ip, small, sequence and size filters.

Usage

```
filteredDownloads(packages = "HistData", date = NULL, all.filters = TRUE,
  ip.filter = FALSE, sequence.filter = FALSE, size.filter = FALSE,
  small.filter = FALSE, version.filter = FALSE, check.package = TRUE,
  memoization = 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.
sequence.filter	Logical.
size.filter	Logical.
small.filter	Logical. TRUE filters out downloads less than 1000 bytes.

version.filter	Logical. TRUE selects only most recent version.
check.package	Logical. Validate and "spell check" package.
memoization	Logical. Use memoization when downloading logs.

`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.count = TRUE)
```

Arguments

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

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,
  sequence.filter = FALSE, size.filter = FALSE, small.filter = FALSE,
  version.filter = FALSE, sort.count = TRUE, memoization = TRUE,
  multi.core = FALSE)
```

Arguments

ip	Numeric. ip_id. Positive integer.
date	Character. Date. "yyyy-mm-dd". NULL uses latest available log.
all.filters	Logical. Master switch for filters.
ip.filter	Logical.
sequence.filter	Logical.
size.filter	Logical.
small.filter	Logical. TRUE filters out downloads less than 1000 bytes.
version.filter	Logical. TRUE selects only most recent version.
sort.count	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.

Note

all.filters = TRUE only enables IP and small filters. 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(details = FALSE, tz = Sys.timezone(), upload.time = "17:00",
  check.days = 7)
```

Arguments

details	Logical. Check available logs and results.
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".
check.days	Numeric or Integer. Number of days back to check.

missing.dates *Missing/NA Posit/RStudio logs.*

Description

August 25-26, 29-31 2025; September 1-2, 2025. 7 days.

Usage

```
missing.dates
```

Format

An object of class Date of length 7.

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").

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, sequence.filter = FALSE, size.filter = FALSE,
  small.filter = FALSE, version.filter = FALSE, sort = TRUE,
  na.rm = FALSE, memoization = TRUE, check.package = TRUE,
  multi.core = 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.
sequence.filter	Logical.

size.filter	Logical.
small.filter	Logical. TRUE filters out downloads less than 1000 bytes.
version.filter	Logical. TRUE selects only most recent version.
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.

---

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 = FALSE)
```

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.

packageHistory *Extract package or R version history.*

Description

Date and version of all publications.

Usage

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

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, sequence.filter = FALSE, size.filter = FALSE,
  small.filter = FALSE, version.filter = FALSE, memoization = TRUE,
  check.package = TRUE, multi.core = 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.
sequence.filter	Logical.
size.filter	Logical.
small.filter	Logical. TRUE filters out downloads less than 1000 bytes.
version.filter	Logical. TRUE selects only most recent version.
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.

Value

An R data frame.

---

packageRank *Package download counts and rank percentiles.*

Description

From Posit/RStudio's CRAN Mirror (CDN) http://cran-logs.rstudio.com/

Usage

```
packageRank(packages = "packageRank", date = NULL, all.filters = FALSE,
  ip.filter = FALSE, small.filter = FALSE, memoization = TRUE,
  check.package = TRUE, rank.ties = TRUE, multi.core = 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.
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.
rank.ties	Logical. TRUE uses competition ranking ("1224") for ties. FALSE uses nominal rank (no ties).
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.

Examples

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

## End(Not run)
```

packageVersionPercent *Compute data for versionPlot().*

Description

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

Usage

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

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.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.y = TRUE, ...)
```

Arguments

x	An object of class "bioconductor_rank" created by bioconductorRank().
graphics	Character. "base" or "ggplot2".
log.y	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 countryDistribution().

Usage

```
## S3 method for class 'countryDistribution'
plot(x, N = 10, ...)
```

Arguments

x	An object of class "countryDistribution" created by countryDistribution().
N	Integer. Top N countries.
...	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.cranDistribution *Plot method for cranDistribution().*

Description

Plot method for cranDistribution().

Usage

```
## S3 method for class 'cranDistribution'
plot(x, type = "count", ...)
```

Arguments

x	An object of class "cranDistribution" created by `cranDistribution()`.
type	Character. "histogram" or "count".
...	Additional plotting parameters.

Value

A base R plot.

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", chatgpt = "line", weekend = FALSE,
  multi.core = FALSE, ...)
```

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 or "line". Add package release dates and vertical lines.
r.version	Logical or "line". Add R release dates and vertical lines.
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".
chatgpt	Logical or "line". Add intitial availability date and vertical line for ChatGPT.
weekend	Logical. Highlight weekends (pch = 1) when unit.observation = "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.y = TRUE, ...)
```

Arguments

x	An object of class "packageRank" created by `packageRank()`.
graphics	Character. "base" or "ggplot2".
log.y	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 "packageVersionPercent".
...	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.countryDistribution` *Print method for countryDistribution().*

Description

Print method for countryDistribution().

Usage

```
## S3 method for class 'countryDistribution'
print(x, N = 10, ...)
```

Arguments

`x`	object.
`N`	Integer. Top N countries.
`...`	Additional parameters.

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

Description

Print method for cranDistribution().

Usage

```
## S3 method for class 'cranDistribution'
print(x, top.n = 20, ...)
```

Arguments

`x`	object.
`top.n`	Numeric or Integer.
`...`	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.

queryCount *Query download count.*

Description

Query download count.

Usage

```
queryCount(count = 1, date = NULL, all.filters = FALSE,
  ip.filter = FALSE, small.filter = FALSE, memoization = TRUE,
  multi.core = FALSE)
```

Arguments

count	Numeric or Integer. whole number.
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.
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.

queryPackage *Query package name.*

Description

Query package name.

Usage

```
queryPackage(packages = "packageRank", date = NULL, all.filters = FALSE,
  ip.filter = FALSE, small.filter = FALSE, memoization = TRUE,
  check.package = TRUE, multi.core = FALSE)
```

Arguments

packages	Character..
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.

Value

An R data frame.

queryPercentile *Percentile-rank query.*

Description

Percentile-rank query.

Usage

```
queryPercentile(percentile = 50, lo = NULL, hi = NULL, date = NULL,
  all.filters = FALSE, ip.filter = FALSE, small.filter = FALSE,
  memoization = TRUE, multi.core = FALSE)
```

Arguments

percentile	Numeric. 50 uses median().
lo	Integer.
hi	Integer
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.
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.

---

queryRank *Rank query.*

Description

Rank query.

Usage

```
queryRank(num.rank = 1, rank.ties = FALSE, date = NULL,
  all.filters = FALSE, ip.filter = FALSE, small.filter = FALSE,
  memoization = TRUE, multi.core = FALSE)
```

Arguments

num.rank	Numeric or Integer.
rank.ties	Logical. TRUE uses ties. FALSE does not.
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.
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.

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

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.cranDistribution *Summary method for cranDistribution().*

Description

Five number (+ mean) summary of download count distribution

Usage

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

Arguments

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

Value

A base R vector

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 = FALSE)
```

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.

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 = FALSE)
```

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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