

Package: osscontribs (via r-universe)

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Title Commit and Contributor Statistics for Major Open Source Projects

Version 0.1.0

Description Over 30 years of daily commit activity and contributor growth for FreeBSD, OpenBSD, NetBSD, and PostgreSQL. Built from cloned git repositories for complete coverage -- not limited by API quotas. Includes daily commits, daily new committers, weekly aggregates, and Phabricator signup data. Designed for time series analysis, growth modeling, and cross-project comparison. Contains no personal data.

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Depends R (>= 3.5.0)

URL <https://github.com/chrislongros/osscontribs>

BugReports <https://github.com/chrislongros/osscontribs/issues>

Repository <https://chrislongros.r-universe.dev>

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oss_commits	<i>Individual Commit Timestamps (from git repositories)</i>
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Description

Every commit from FreeBSD, OpenBSD, NetBSD, and PostgreSQL with full timestamps and anonymized author IDs. Extracted from cloned git repositories.

Usage

```
data(oss_commits)
```

Format

A data frame with 2068717 rows and 3 variables:

project character, project name

timestamp POSIXct, commit timestamp in UTC

author_id character, anonymized 12-character author hash

Source

Cloned from <https://github.com/freebsd/freebsd-src>, <https://github.com/openbsd/src>, <https://github.com/NetBSD/src>, <https://github.com/postgres/postgres>

Examples

```
data(oss_commits)
fb <- oss_commits[oss_commits$project == "freebsd", ]
hours <- as.integer(format(fb$timestamp, "%H"))
hist(hours, breaks = 0:24, main = "FreeBSD Commits by Hour of Day",
      xlab = "Hour (UTC)", col = "steelblue")
```

oss_contributors	<i>Open Source Project Contributor Signups (Monthly)</i>
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Description

Monthly new contributor signup counts for open source projects. No personal information included.

FreeBSD data represents Phabricator account registrations. Other projects approximate signup date as the date of each author's first commit on GitHub (top 100 contributors).

Note: signups and commit activity are different metrics.

Usage

```
data(oss_contributors)
```

Format

A data frame with 447 rows and 5 variables:

project character, project name
source character, data source (phabricator or github)
month Date, first day of each month
new_contributors integer, new contributors that month
cumulative integer, running total for that project

Source

FreeBSD: <https://reviews.freebsd.org>

GitHub: <https://github.com/freebsd/freebsd-src>, <https://github.com/openbsd/src>, <https://github.com/NetBSD/src>, <https://github.com/postgres/postgres>

Examples

```
data(oss_contributors)
projects <- split(oss_contributors, oss_contributors$project)
plot(NULL, xlim = range(oss_contributors$month),
      ylim = c(0, max(oss_contributors$cumulative)),
      xlab = "Date", ylab = "Total Contributors",
      main = "Open Source Contributor Signups")
cols <- c(freebsd = "red", openbsd = "orange",
          netbsd = "blue", postgresql = "purple")
for (p in names(projects)) {
  d <- projects[[p]]
  lines(d$month, d$cumulative, col = cols[p], lwd = 2)
}
legend("topleft", names(cols), col = cols, lwd = 2)
```

oss_contributors_daily

Open Source Project Contributor Signups (Daily, FreeBSD only)

Description

Daily signup counts for the FreeBSD Phabricator code review platform. Represents account registrations, not commit activity. Suitable for time series analysis. No personal information included.

Usage

```
data(oss_contributors_daily)
```

Format

A data frame with 2531 rows and 5 variables:

project character, always "freebsd"
source character, always "phabricator"
date Date, the signup date
new_contributors integer, new signups that day
cumulative integer, running total

Source

Aggregated from public Phabricator user data at <https://reviews.freebsd.org>

Examples

```
data(oss_contributors_daily)
plot(oss_contributors_daily$date,
     oss_contributors_daily$new_contributors,
     type = "h", xlab = "Date", ylab = "New Signups",
     main = "FreeBSD Daily Phabricator Signups")
```

oss_daily_authors *Daily New Committers (from git repositories)*

Description

Daily counts of authors making their first commit to each project. Extracted from cloned git repositories. Includes all authors.

Usage

```
data(oss_daily_authors)
```

Format

A data frame with 2932 rows and 4 variables:

project character, project name
date Date, date of first commit
new_authors integer, new committers that day
cumulative_authors integer, running total of unique committers

Source

Cloned from <https://github.com/freebsd/freebsd-src>, <https://github.com/openbsd/src>,
<https://github.com/NetBSD/src>, <https://github.com/postgres/postgres>

Examples

```

data(oss_daily_authors)
projects <- split(oss_daily_authors, oss_daily_authors$project)
plot(NULL, xlim = range(oss_daily_authors$date),
      ylim = c(0, max(oss_daily_authors$cumulative_authors)),
      xlab = "Date", ylab = "Total Unique Committers",
      main = "Cumulative Committers Over Time")
cols <- c(freebsd = "red", openbsd = "orange",
          netbsd = "blue", postgresql = "purple")
for (p in names(projects)) {
  lines(projects[[p]]$date, projects[[p]]$cumulative_authors,
        col = cols[p], lwd = 2)
}
legend("topleft", names(cols), col = cols, lwd = 2)

```

oss_daily_commits *Daily Commit Activity (from git repositories)*

Description

Daily commit counts for FreeBSD, OpenBSD, NetBSD, and PostgreSQL, extracted directly from cloned git repositories. Includes all commits from all authors.

Usage

```
data(oss_daily_commits)
```

Format

A data frame with 44939 rows and 4 variables:

project character, project name

date Date, commit date

commits integer, commits that day

cumulative_commits integer, running total

Source

Cloned from <https://github.com/freebsd/freebsd-src>, <https://github.com/openbsd/src>, <https://github.com/NetBSD/src>, <https://github.com/postgres/postgres>

Examples

```

data(oss_daily_commits)
fb <- oss_daily_commits[oss_daily_commits$project == "freebsd", ]
plot(fb$date, fb$cumulative_commits, type = "l",
      xlab = "Date", ylab = "Total Commits",
      main = "FreeBSD Cumulative Commits")

```

oss_weekly_commits *Open Source Project Commit Activity (Weekly)*

Description

Weekly commit counts for major open source projects from GitHub. Measures actual code activity (not signups). Counts are aggregated across the top 100 contributors per project (GitHub API limitation). No personal information included.

Usage

```
data(oss_weekly_commits)
```

Format

A data frame with 6307 rows and 5 variables:

project character, project name
source character, always "github"
date Date, start of the week (Sunday)
commits integer, commits that week
cumulative_commits integer, running total of commits

Source

GitHub: <https://github.com/freebsd/freebsd-src>, <https://github.com/openbsd/src>, <https://github.com/NetBSD/src>, <https://github.com/postgres/postgres>

Examples

```
data(oss_weekly_commits)
fb <- oss_weekly_commits[oss_weekly_commits$project == "freebsd", ]
plot(fb$date, fb$commits, type = "l",
     xlab = "Date", ylab = "Commits per Week",
     main = "FreeBSD Weekly Commit Activity (top 100 authors)")
```

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