

The State of OSS Funding data: Insights from ecosyste.ms



CHAOSScon North America 2025

Denver, CO

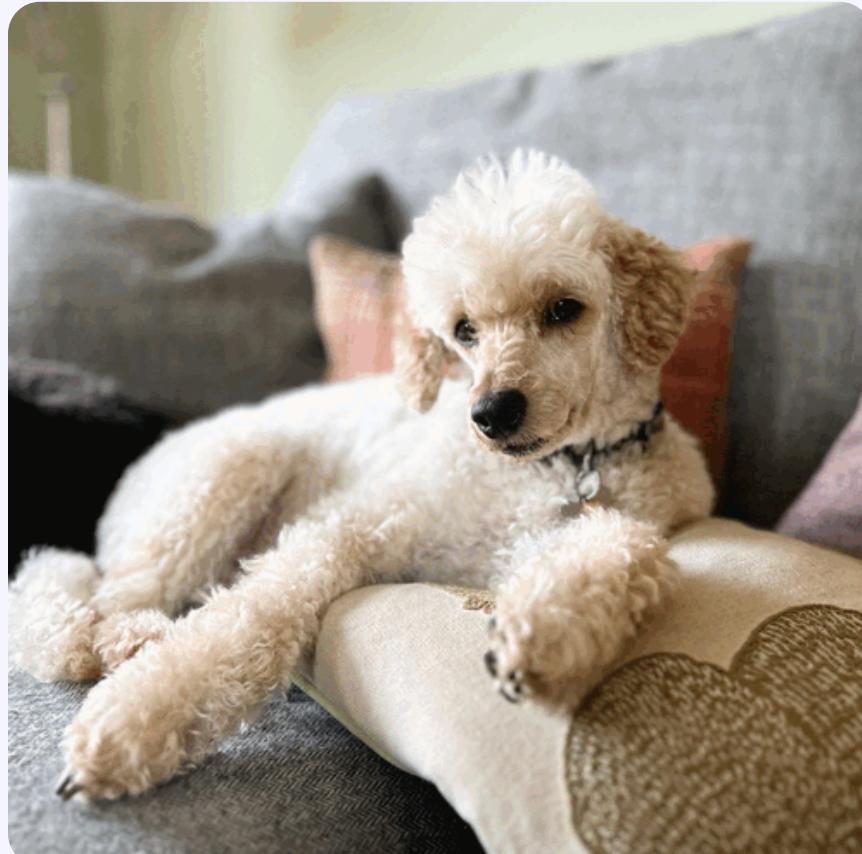
Pop Quiz Warning

There will be a pop quiz at the end of this talk, pay close attention!

Andrew Nesbitt



I have poodles



ecosyste.ms

The screenshot shows the homepage of the ecosyste.ms website. At the top, there's a navigation bar with icons for search, refresh, and user profile. The main header "ecosyste.ms" is in blue with a small logo to its left. To the right of the header is a dropdown menu "All services". Below the header, there's a sub-header "ecosyste.ms" and a description "Tools and datasets to support, sustain, and secure critical digital infrastructure." On the right side of the header, there are links for "Support", "GitHub", and "Contact". The main content area features a large, bold title "Open source intelligence for your project" in black. Below it is a subtext "Build open source intelligence into your application, research, or policy." To the right of the text are three overlapping 3D geometric shapes: a purple hexagon, a red triangle, and a green circle. A blue banner at the bottom displays four key statistics: "11.4 million", "262 million", "22 billion", and "1.7 million", each with a corresponding category: Packages, Repositories, Dependencies, and Maintainers. Below the banner, a paragraph explains the dataset: "The world's most comprehensive and accurate dataset about open source production and use, **for free**". It also includes a smaller text block: "ecosyste.ms has indexed over six billion events across nearly two thousand sources to create the world's most comprehensive and accurate dataset about open source production and use."

ecosyste.ms stats

11.4M

Packages

132M

Versions

2.0T

Downloads

1.7M

Maintainers

262M

Repositories

22B

Dependencies

Funding in Open Source



What data can we see in the ecosyste.ms dataset about funding
in open source?

Different kinds of funding metadata

- Funding links in package metadata
- Funding links in maintainer/org profiles
- Funding.yml files in repositories

FUNDING.yml

```
github: andrew
ko_fi: andrewnez
polar: andrew
buy_me_a_coffee: andrewnez
```

Funding metadata in Package Managers

- Rubygems: ["funding_uri"]
- npm: ["funding"]
- PyPI: ["funding"]
- Packagist: ["info"]["project_urls"]["Funding"]

Funding metadata in Maintainer Profiles

The screenshot shows a GitHub user profile for [andrew](#). The profile picture is a photo of a person with glasses. Below the picture, the name **Andrew Nesbitt** and handle [andrew](#) are displayed. A red circle highlights the **Sponsor** button, which is located next to the **Follow** button. The bio section includes a message about being a software engineer in the UK, working with Ruby and Rails, and mentions [Ecosyste.ms](#), [Octobox](#), and [24 Pull Requests](#). The "Projects" section lists several repositories: [ecosyste-ms/packages](#), [octobox/octobox](#), [ultimate-awesome](#), [splitrb/split](#), [24pullrequests/24pullrequests](#), and [first-pr](#).

Funding Links

→ <https://github.com/sponsors/andrew>

→ <https://ko-fi.com/andrewnez>

→ <https://polar.sh/andrew>

→ <https://buymeacoffee.com/andrewnez>

→ <https://paypal.me/andrewnez>

→ <https://sindresorhus.com/donate>

→ <https://tidelift.com/funding/github/npm/gzip-size>

→ <https://donate.pypi.org>

→ <https://www.patreon.com/garbagebrainuniversity>

Lets go through some data!



Here's something I prepared earlier...

I've been mining the ecosyste.ms datasets for funding links in
open source packages.

Funding links in all packages

376,892

Packages

3.26%

Percent

Most Popular Funding Domains

→ [github.com](#) — 315,034 funded packages (83.59%)

→ [opencollective.com](#) — 49,467 funded packages (13.12%)

→ [patreon.com](#) — 26,929 funded packages (7.15%)

→ [ko-fi.com](#) — 17,674 funded packages (4.69%)

→ [paypal.me](#) — 15,170 funded packages (4.03%)

→ [buymeacoffee.com](#) — 11,497 funded packages (3.05%)

→ [tidelift.com](#) — 10,686 funded packages (2.84%)

→ [liberapay.com](#) — 6,353 funded packages (1.69%)

→ [paypal.com](#) — 3,505 funded packages (0.93%)

→ [donate.pypi.org](#) — 3,179 funded packages (0.84%)

→ [sindresorhus.com](#) — 2,442 funded packages (0.65%)

Top Ecosystems by Number of Funded Packages

→ [npmjs.org](#) — 150,926 funded packages (3.0%)

→ [pypi.org](#) — 49,172 funded packages (7.07%)

→ [proxy.golang.org](#) — 40,169 funded packages (2.11%)

→ [packagist.org](#) — 29,776 funded packages (6.49%)

→ [repo1.maven.org](#) — 25,560 funded packages (4.88%)

→ [nuget.org](#) — 18,964 funded packages (2.61%)

→ [crates.io](#) — 18,899 funded packages (9.74%)

→ [rubygems.org](#) — 7,068 funded packages (3.56%)

→ [bower.io](#) — 3,143 funded packages (4.48%)

→ [github actions](#) — 2,946 funded packages (9.22%)

→ [pub.dev](#) — 2,803 funded packages (4.24%)

Critical Packages

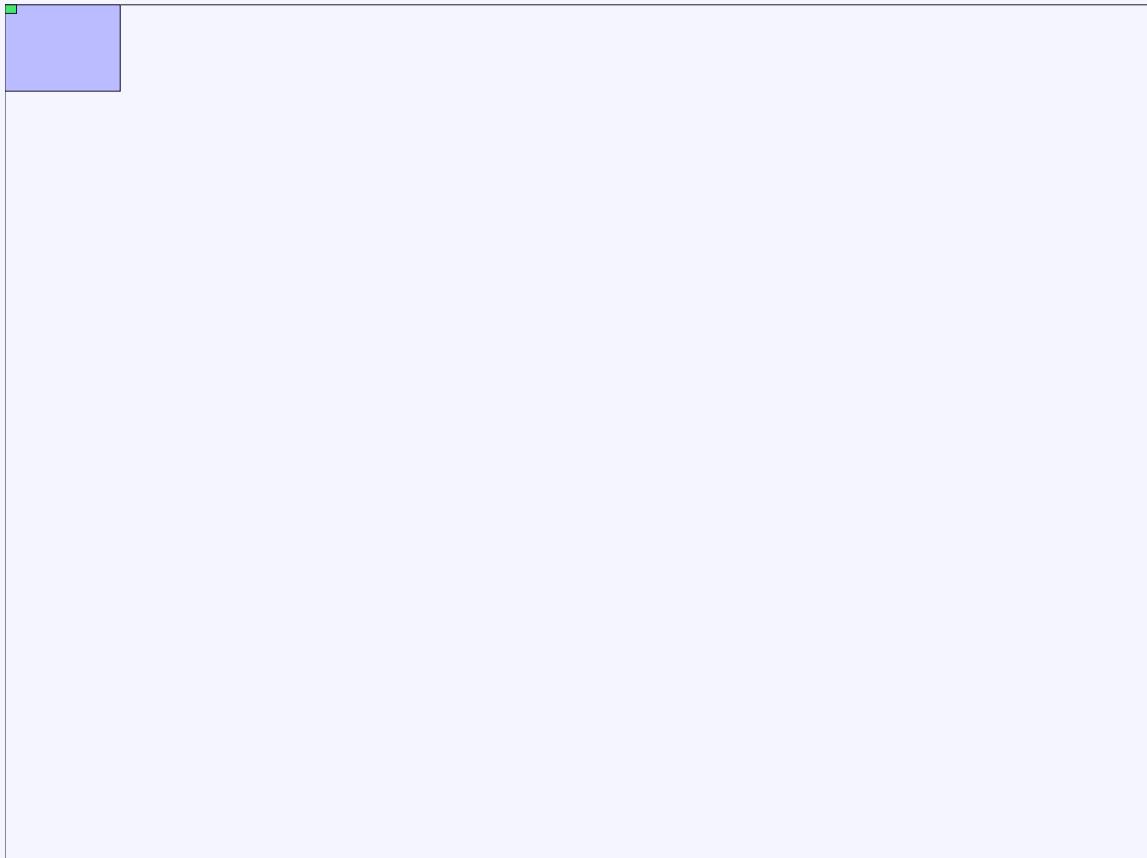
The critical packages are the top **~10,000** most used packages.

"**Most Used**" a combination of the number of packages, repositories that depend on them and the number of downloads.

This small group of packages represent over **~80%** of all usage.

That means only **0.0865%** of all packages are critical.

1% of the 1%



80% of all usage



Critical Package Funding Links

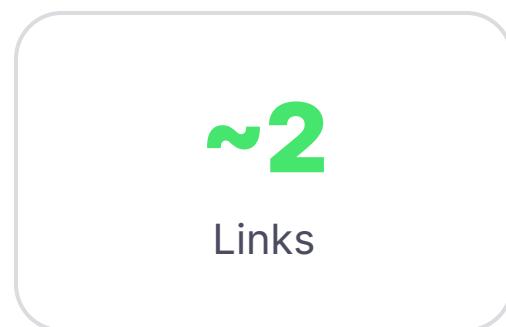
2,661

Packages

27.2%

Percent

Average Funding Links per Critical Packages



Critical Packages with more than One Funding Link

1,411

Packages

Funding Domains in Critical Packages

→ [github.com](#) — 2,288 funded packages (86.0%)

→ [opencollective.com](#) — 851 funded packages (32.0%)

→ [tidelift.com](#) — 571 funded packages (21.5%)

→ [sindresorhus.com](#) — 182 funded packages (6.8%)

→ [patreon.com](#) — 129 funded packages (4.8%)

→ [symfony.com](#) — 98 funded packages (3.7%)

→ [buymeacoffee.com](#) — 91 funded packages (3.4%)

→ [thanks.dev](#) — 61 funded packages (2.3%)

→ [ko-fi.com](#) — 61 funded packages (2.3%)

→ [liberapay.com](#) — 50 funded packages (1.9%)

→ [paypal.me](#) — 45 funded packages (1.7%)

Ecosystems by Funded Critical Packages

→ [npmjs.org](#) — 1,252 of 2,289 critical packages have funding (54.7%)

→ [packagist.org](#) — 303 of 548 critical packages have funding (55.29%)

→ [crates.io](#) — 197 of 813 critical packages have funding (24.23%)

→ [pypi.org](#) — 196 of 525 critical packages have funding (37.33%)

→ [rubygems.org](#) — 183 of 974 critical packages have funding (18.79%)

→ [conda-forge.org](#) — 102 of 390 critical packages have funding (26.15%)

→ [clojars.org](#) — 81 of 280 critical packages have funding (28.93%)

→ [repo1.maven.org](#) — 79 of 704 critical packages have funding (11.22%)

→ [proxy.golang.org](#) — 68 of 645 critical packages have funding (10.54%)

→ [swiftpackageindex.com](#) — 38 of 97 critical packages have funding (39.18%)

→ [juliahub.com](#) — 19 of 173 critical packages have funding (10.98%)

Let's go deeper into data



What data is available for some of these funding platforms.

Open Collective

The future is collective

We make it easy to **raise, manage, and disburse money with full transparency**. Start your open collective, apply to a Fiscal Host, and unlock funding for your community—free from red tape.

[Start Now](#) [Watch Video](#)

Budget Transparent and open finances.

TRANSACTION DETAILS
\$500.00 - \$19.40 (payment processor fees)
This transaction includes \$50.00 host fees

CONTRIBUTION [View Details](#)

Development and support (February 2022)
By Thomas Anderson • March 12, 2022
(INVOICE #3844) [open source - design](#)

Financial contribution
From Gretchen Curtis to Collective • March 23, 2022

CONTRIBUTION [View Details](#)

Office equipment
From Jason Serris to Accountable • March 23, 2022
(REIMBURSEMENT #2424) [Anarchy](#)

FINANCIAL HOST
Open Collective
PAID WITH Credit card

Payment Processing Fee - \$19.40 Completed

\$ TODAY'S BALANCE
\$54,830.00 USD

▼ TOTAL RAISED
\$183,628.86 USD

▼ TOTAL DISBURSED
\$128,798.86 USD

ESTIMATED ANNUAL BUDGET
~ \$92,304.62 USD

\$

Collectives linked in Critical Packages

150

Collectives

Average Packages from a Collective

→ Mean: 5.78

→ Median: 1.0

→ Mode: 1

→ Min: 1

→ Max: 182

→ Std-dev: 19

→ 90th percentile: 8

→ 95th percentile: 20

Donation stats in Critical Collectives

→ Total donations: \$11,070,063

→ Total expensed: \$9,393,780

→ Current balance: \$2,401,580

→ Total transactions: 221,238

→ Average transaction: \$90

Collective Donations

→ Mean: \$82,612.41

→ Median: \$12,889.20

→ Mode: \$42,746.16

→ Min: \$0.00

→ Max: \$1,665,827.27

→ Std-dev: \$217,800.24

→ 90th percentile: \$177,971.63

→ 95th percentile: \$343,736.23

Top Critical Collectives

→ webpack: \$1,665,827.27

→ babel: \$1,383,653.29

→ eslint: \$922,377.59

→ vuejs: \$728,887.79

→ generator-jhipster: \$420,678.85

→ mui-org: \$394,203.27

→ homebrew: \$343,736.23

→ curl: \$341,781.62

→ numpy: \$297,794.59

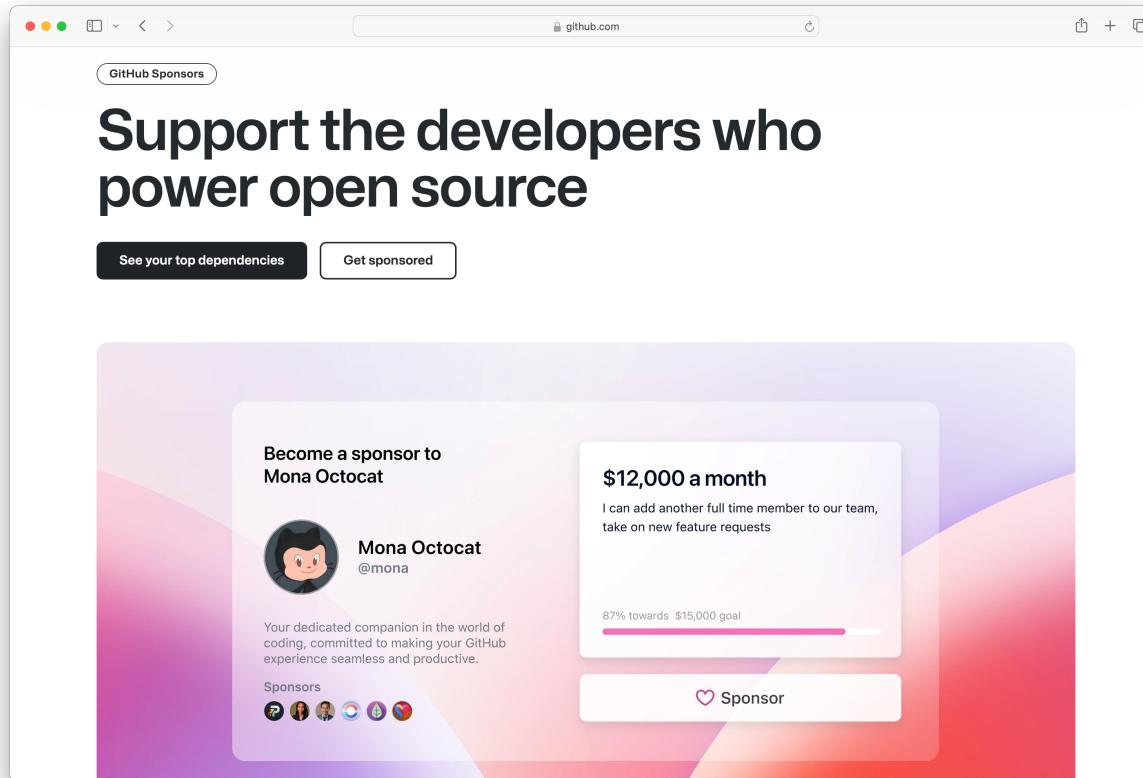
→ date-fns: \$273,985.56

Critical Collectives with Zero Donations

2

Collectives

GitHub Sponsors



GitHub Sponsors linked from Critical Packages

667

Sponsored

GitHub Sponsor Averages

→ Mean: 3.7

→ Median: 1

→ Max: 190

→ Std-dev: 11.9

→ 95% have ≤ 10 packages

GitHub Sponsor Stats

- number of accounts with active sponsors: 580
- number of the accounts with any sponsors: 607
- number of accounts with no sponsors: 60
- number of accounts with no active sponsors: 87

Organisations vs User GitHub Sponsor Accounts

→ Organisations: 122 (18%)

→ Users: 519 (78%)

→ Not on GitHub Sponsors: 19 (3%)

GitHub Accounts with Most Active Sponsors

→ homebrew - 791 active sponsors

→ antfu - 213 active sponsors

→ sebastianbergmann - 209 active sponsors

→ sindresorhus - 207 active sponsors

→ python - 197 active sponsors

→ yx990803 - 191 active sponsors

→ tiangolo - 157 active sponsors

→ dtolnay - 156 active sponsors

→ django - 155 active sponsors

→ tokio-rs - 138 active sponsors

GitHub Accounts with Most Sponsors over all time

→ homebrew - 2,787 total sponsors

→ sindresorhus - 1,792 total sponsors

→ livewire - 1,691 total sponsors

→ yx990803 - 1,252 total sponsors

→ antfu - 975 total sponsors

→ python - 865 total sponsors

→ babel - 834 total sponsors

→ tiangolo - 769 total sponsors

→ sebastianbergmann - 615 total sponsors

→ django - 567 total sponsors

Sponsor Breakdown

21,942

Total

20,455

Users

1,401

Organization

Let's look at Owners



Who owns these packages? Who are the maintainers? Who are the organisations?

Critical Package Owners

9,780

Packages

6,390

Repositories

2,812

Owners

Breakdown of Owners of critical packages

65%

Organisations

35%

Users

Unique Owners of critical packages

1,312

Organisations

1,500

Users

Top Organisation Owners

- aws - 287 packages (3.5%)
- babel - 139 packages (1.7%)
- symfony - 98 packages (1.2%)
- spring-projects - 91 packages (1.11%)
- googleapis - 78 packages (0.95%)
- DefinitelyTyped - 75 packages (0.92%)
- r-lib - 69 packages (0.84%)
- google - 62 packages (0.76%)
- dart-lang - 60 packages (0.73%)
- smithy-lang - 59 packages (0.72%)

Top User Owners

→ sindresorhus - 181 packages (2.21%)

→ jonschlinkert - 57 packages (0.7%)

→ ekmett - 44 packages (0.54%)

→ dtolnay - 32 packages (0.39%)

→ ljharp - 32 packages (0.39%)

→ isaacs - 31 packages (0.38%)

→ vincenthz - 28 packages (0.34%)

→ sebastianbergmann - 26 packages (0.32%)

→ snoyberg - 24 packages (0.29%)

→ evanw - 24 packages (0.29%)

Unique Owners with Funding Links

415

Users

359

Organisations

Organisation Owners with Funding Links

- babel - 139 packages (5.26%)
- symfony - 98 packages (3.71%)
- jestjs - 49 packages (1.85%)
- inspect-js - 49 packages (1.85%)
- es-shims - 30 packages (1.14%)
- cssnano - 30 packages (1.14%)
- tokio-rs - 28 packages (1.06%)
- csstools - 26 packages (0.98%)
- micromark - 21 packages (0.79%)
- getsentry - 20 packages (0.76%)

User Owners with Funding Links

→ sindresorhus - 181 packages (6.85%)

→ jonschlinkert - 57 packages (2.16%)

→ ljharb - 32 packages (1.21%)

→ dtolnay - 32 packages (1.21%)

→ isaacs - 31 packages (1.17%)

→ sebastianbergmann - 26 packages (0.98%)

→ weavejester - 21 packages (0.79%)

→ mafintosh - 18 packages (0.68%)

→ blakeembrey - 17 packages (0.64%)

→ mathiasbynens - 16 packages (0.61%)

User Owners by "company" field

- brandscale - 61 critical packages (0.62%)
- google - 60 critical packages (0.61%)
- groq - 44 critical packages (0.45%)
- 0xf9ba143b95ff6d82 - 32 critical packages (0.33%)
- herodevs tc39 - 32 critical packages (0.33%)
- vlt.sh - 31 critical packages (0.32%)
- coretype - 28 critical packages (0.29%)
- thephpcc - 26 critical packages (0.27%)
- fpcō - 26 critical packages (0.27%)
- boolean knot ltd - 21 critical packages (0.21%)
- holepunchto - 18 critical packages (0.18%)

Summary

- **35% of critical packages** are owned by individual maintainers, not organizations
- Only **27.2% of critical packages** have any funding links at all
- **72.8% of critical packages** have no obvious way to financially support them
- The maintainers with the **most** funding success have **more** critical packages
- **Concentration effect:** Well-funded maintainers can afford to maintain more projects, while unfunded maintainers struggle with even one
- **Potential gamification:** Some maintainers might strategically break packages into smaller dependencies to increase their critical package count

Things that didn't fit in a 15 min talk

→ Foundations

→ Grants

→ Contributors

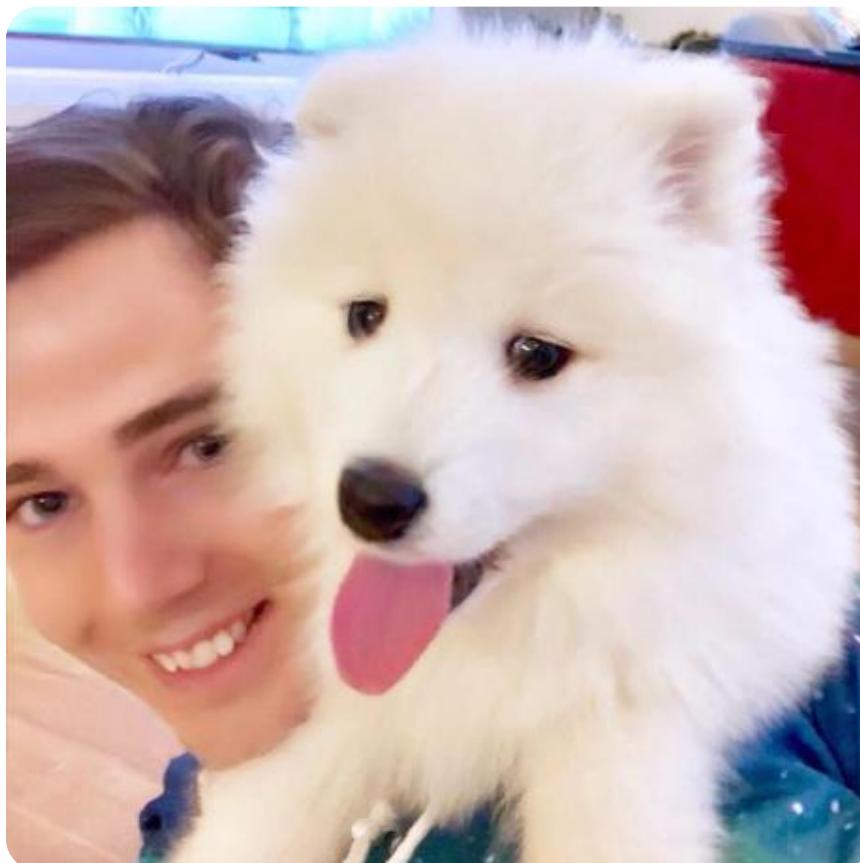
→ Commit data

→ Issue data

→ Dependency linking data

Pop Quiz

How many times was sindresorhus mentioned in the talk?



Answer: 7

- Funding Links: - <https://sindresorhus.com/donate>
- **Funding domains in all packages: sindresorhus.com** — 2,442 funded packages (0.65%)
- **Funding domains in critical packages: - sindresorhus.com** — 182 funded packages (6.8%)
- GitHub accounts with most active sponsors:- sindresorhus - 207 active sponsors
- GitHub accounts with most sponsors all time: - sindresorhus - 1792 total sponsors
- Top user owners: - sindresorhus - 181 packages (2.21%)
- User owners with funding links: - sindresorhus - 181 packages (6.85%)

Links

- <https://packages.ecosyste.ms>
- <https://packages.ecosyste.ms/funding>
- <https://packages.ecosyste.ms/critical>
- <https://opencollective.ecosyste.ms>
- <https://sponsors.ecosyste.ms>

We won't have time for questions!

- Web: <https://ecosyste.ms>
- Email: hello@ecosyste.ms
- GitHub: <https://github.com/ecosyste-ms>
- Mastodon: <https://mastodon.social/@ecosystems>
- Slides: <https://github.com/andrew/state-of-oss-funding>