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# The Python Software Foundation

[python.org/psf-landing/](https://python.org/psf-landing/)



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# What is the PSF?



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## What is the PSF?

The 501(c)(3) non-profit behind the Python programming language and its community.



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## Who is the PSF?

The PSF is run by paid staff, a board of directors, and volunteers.



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## What does the PSF do?

The PSF is the legal entity that holds & protects Python community trademarks such as “Python”, “PyPI”, “PyLadies” & “PyCon”.



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## What does the PSF do?

Underwrites & produces PyCon US, which generates more than 65% of the PSF's revenue.

(With PyCon US 2020 and 2021 happening virtually, the PSF may lose \$1.2 million USD of expected revenue for those two years).



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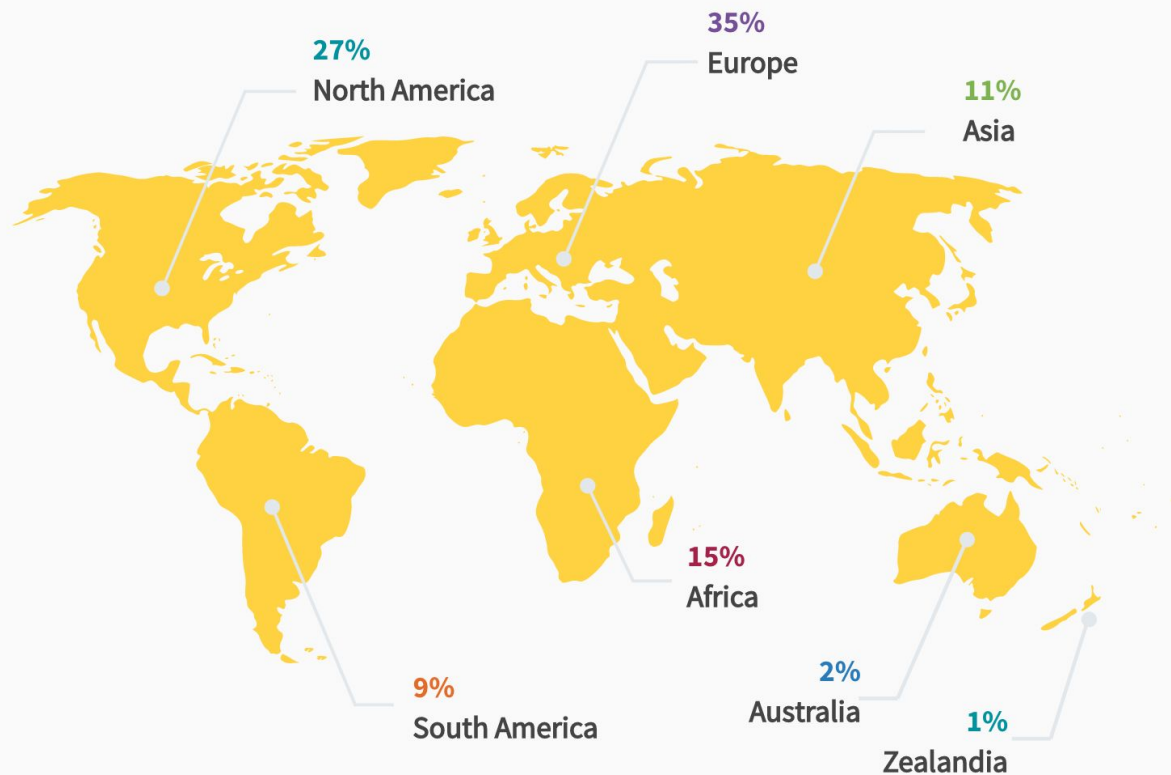
# What does the PSF do?

Runs an international grants program, distributing hundreds of thousands of dollars.

Top funded grants in 2019 were:

- 60% - Grants to support global Python conferences
- 13% - Workshops (including Django Girls workshops)
- 10% - Python development sprints
- 5% - Training





The PSF supports a global network of Python User Groups and regional conferences.



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# What does the PSF do?

Owns and operates community infrastructure.

- Python.org
  - Python documentation ([docs.python.org](https://docs.python.org))
  - Python job board ([jobs.python.org](https://jobs.python.org))
- The Python Package Index ([pypi.org](https://pypi.org))
- Regional conference websites ([\\*.pycon.org](https://*.pycon.org))
- Python core developer infrastructure
- Other community infrastructure



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# What does the PSF do?

Houses community projects through fiscal sponsorship.

The PSF supports 11 projects which support the Python community and manages \$200,000 of their funds, giving them non-profit status as a sub-entity of the PSF.



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# What is the Steering Council?



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# What is the Steering Council?

Created to solve the governance problem when the creator of Python, Guido van Rossum retired as Benevolent Dictator For Life (BDFL), on July 12, 2018.



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## What is the Steering Council?

Proposed in PEP 8016 (“The Steering Council Model”) and accepted by a core developer vote described in PEP 8001 (“Python Governance Voting Process”) in December 2018.

Constitution codified in PEP 13.



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# What is the Steering Council?

A 5-person committee of core developers, nominated & voted on by active core developers.

Elections held after every Python release (now yearly as of PEP 602 / Python 3.9). Currently open for 2021 SC.



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# What is the Steering Council?

Mandate (from PEP 13):

- Maintain the quality and stability of the Python language and CPython interpreter,
- Make contributing as accessible, inclusive, and sustainable as possible,
- Formalize and maintain the relationship between the core team and the PSF,
- Establish appropriate decision-making processes for PEPs,
- Seek consensus among contributors and the core team before acting in a formal capacity,
- Act as a "court of final appeal" for decisions where all other methods have failed.



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# What is the Steering Council?

Given power to oversee the development of Python.

- Accept or reject PEPs
- Enforce or update the project's code of conduct
- Work with the PSF to manage any project assets
- Delegate parts of their authority to other subcommittees or processes
- **CANNOT** change PEP 13 without vote of core membership



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# What is the Board of Directors?



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# What is the Board of Directors?

Created to oversee and supervise the operation, management and activities of the Python Software Foundation.



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# What is the Board of Directors?

A governing body consisting of 11 elected members of the Python community, which meets monthly to set overall direction for the PSF.

Elections occur yearly, voted on by PSF members, and directors serve for a 3 year term.



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# Projects of the PSF - CPython



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# CPython Project Updates

## Release of Python 3.9 in October 2020

- PEP 584, Union operators in dict
- PEP 585, Type hinting generics in standard collections
- PEP 602, Python adopts a stable annual release cadence
- PEP 614, Relaxed grammar restrictions on decorators
- PEP 615, Support for the IANA Time Zone Database in the Standard Library
- PEP 617, New PEG parser for CPython
- ... and much more



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# CPython Project Updates

Other changes coming soon

- PEP 581, Using GitHub Issues for CPython



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# CPython Project Updates

## Release of Python 3.10 in October 2021

- Postponed evaluations of annotations is now the default
- PEP 613, TypeAlias annotation
- PEP 604, New type union operator
- ... and lots more to come (first beta in May 2021)



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# Projects of the PSF - Packaging



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# Packaging Project Updates

Rewrite & relaunch of the Python Package Index in 2018.

Thanks in part to a \$170,000 USD award from the Mozilla Open Source Support program





# Find, install and publish Python packages with the Python Package Index



Or [browse projects](#)

276,229 projects

2,239,257 releases

3,590,642 files

469,993 users



The Python Package Index (PyPI) is a repository of software for the Python programming language.

PyPI helps you find and install software developed and shared by the Python community. [Learn about installing packages](#).

Package authors use PyPI to distribute their software. [Learn how to package your Python code for PyPI](#).

The all-new Python Package Index



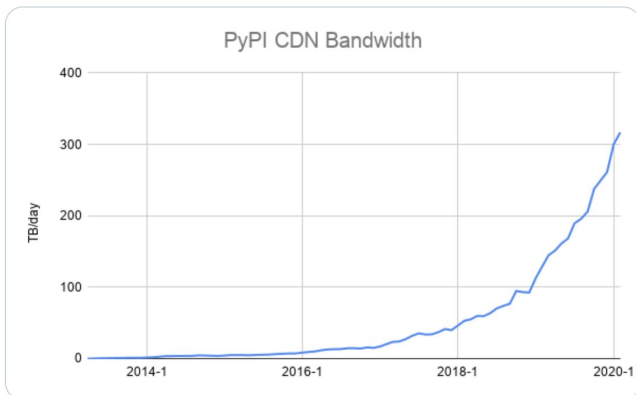


Dustin Ingram  
@di\_codes



This is... mind boggling. The bandwidth consumed by @pypi's CDN crossed 300TB/day last month. More than twice (almost 3x!) in the last year. More than 100x what it was in 2014. 📈

(shoutout to @EWDurbin for pulling these stats)



5:24 PM · Mar 5, 2020 · Twitter Web App

||| View Tweet activity

62 Retweets 10 Quote Tweets 145 Likes

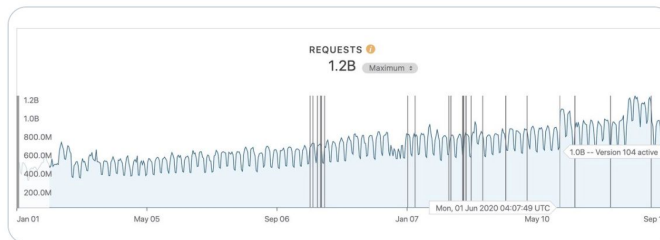


Dustin Ingram  
@di\_codes



Wow, blew right past this milestone and didn't even notice: @pypi served more than 1 billion requests in a single day for the first time on June 1st.

As usual, shoutout to our sponsor/CDN @fastly who handled almost 99% of these requests for us, at zero cost.



5:21 PM · Sep 10, 2020 · Twitter Web App

||| View Tweet activity

35 Retweets 4 Quote Tweets 203 Likes

PyPI milestones in 2020



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# Packaging Project Updates

## New packaging features

- Localization & Internationalization for PyPI
  - \$80,000 via the Open Tech Fund
- PEP 458, Secure PyPI downloads with signed repository metadata
  - \$100,000 award from Facebook
- New dependency resolver for pip
  - \$207,000 award from Mozilla
  - \$200,000 award from Chan-Zuckerberg Foundation
- Additional upcoming security improvements
  - \$500,000+ award (to be announced!)



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# Future of the PSF



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# Future of the PSF

Creating new revenue streams for the PSF.

- New paid features for the Python Package Index
- Researching a Python certification and educational programs



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# Future of the PSF

Increasing diversity & inclusion.

- Creation & launch of the PSF's D&I Work Group
- Expansion of grants program and the global Python community



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# Future of the PSF

Making strategic partnerships with organizations that use Python to support and improve the language & ecosystem in a targeted way.

- Foundation sponsors including Facebook, Capital One, Fastly, Salesforce, AWS and Google
- Infrastructure sponsors including Fastly, AWS, Google, Sentry
- Project sponsors including Facebook, Mozilla, OTF, CZI
- CPython Developer in Residence



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# Future of the PSF

Increasing individual support of our community.

- Ongoing volunteer development and maintenance of the PSF's key projects & the wider ecosystem
- Volunteer support through local user groups, conferences, and work groups
- Individual financial support via PSF membership
- Making the Python community warm and inviting
  - "Come for the Language, Stay for the Community" -- Naomi Ceder



HAPPY  
**ANNIVERSARY**  
TO PYTHON & THE PSF!

Python is 30 & the PSF is 20  
years old this year! Your support  
is what makes Python and its  
community so extraordinary.



# INVEST IN THE PSF & HELP US BUILD a better Python community!

THE PSF DISBURSED \$1,752,000 USD IN FINANCIAL  
SUPPORT TO ORGANIZERS & DEVELOPERS ALL OVER  
THE WORLD BETWEEN 2014-19!



[bit.ly/psf-donate](https://bit.ly/psf-donate)



# Thanks!

## More details:

- Get involved: [python.org/psf/get-involved](https://python.org/psf/get-involved)
  - PSF Blog: [pyfound.blogspot.com](https://pyfound.blogspot.com)
  - PSF News: [python.org/psf/newsletter](https://python.org/psf/newsletter)
  - Become a PSF member:  
[python.org/psf/membership](https://python.org/psf/membership)
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## Follow us on Twitter:

- The PSF: [@thePSF](https://twitter.com/thePSF)
- PyCon: [@pycon](https://twitter.com/pycon)
- PyPI: [@pypi](https://twitter.com/pypi)

