

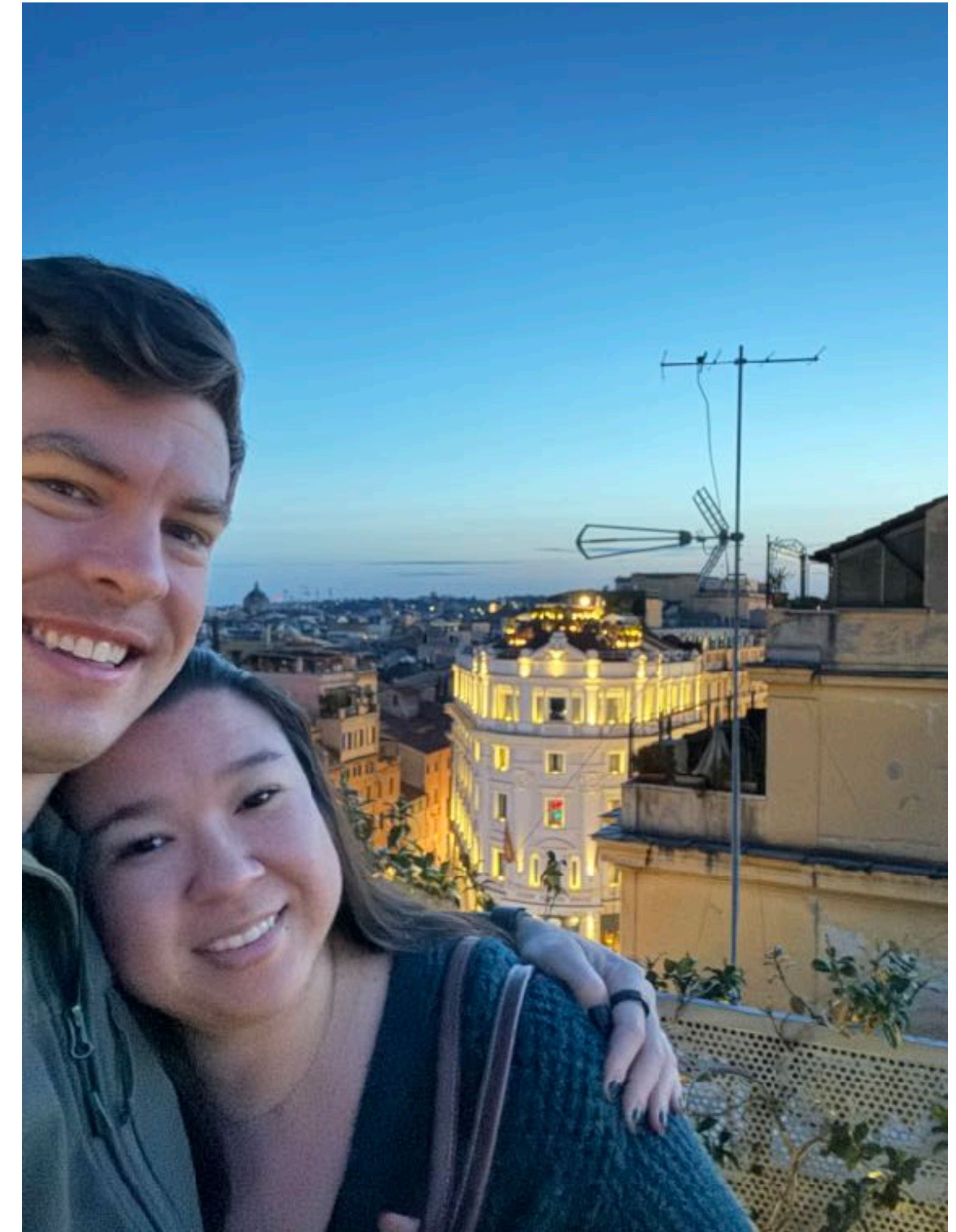
State of Pallets 2024



PALLETS

Hello 🖐️

- David Lord
- <https://davidism.com>
- <https://github.com/davidism>
- <https://mas.to/@davidism>



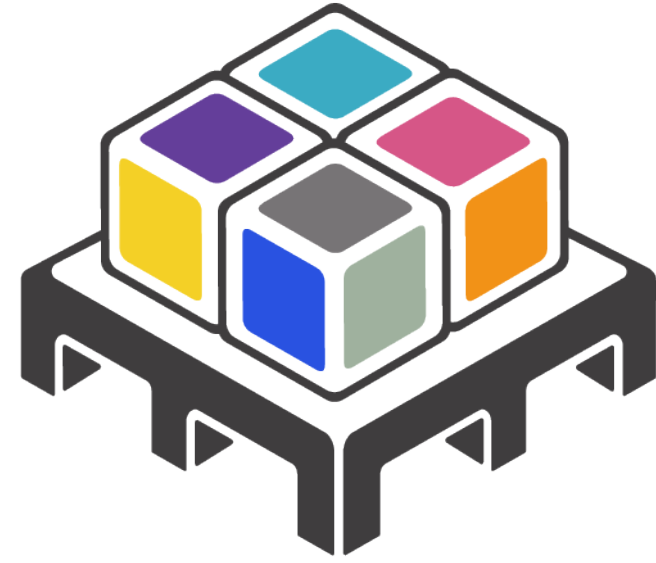


Welcome to FlaskCon!

<https://flaskcon.com/2024>







PALLETS

- <https://palletsprojects.com>, <https://github.com/pallets/>
- Flask, Jinja, Click, Quart, Werkzeug, MarkupSafe, ItsDangerous
- Open source community organization. Not a company!
- You can contribute! Join <https://discord.gg/pallets>, use GitHub's "watch repository" feature to keep up with issues and PRs.



The Pallets Team

- Core maintainers
 - David Lord @davidism, Phil Jones @pgjones, Adrian Monnich @ThiefMaster
- Moderators
 - Kara, Carson, Guillaume, Radoslov
- Community team
 - Adam Englander, David Carmichael, Abdur-Rahmaan Janhangeer
 - And more!
- Contributors, too many to count! Join us!



Funding

- PSF Donations
<https://palletsprojects.com/donate>
- GitHub Sponsors
<https://github.com/sponsors/pallets/>
- Tidelift
<https://tidelift.com>
- Read the Docs + Ethical Ads
<https://ethicalads.io>





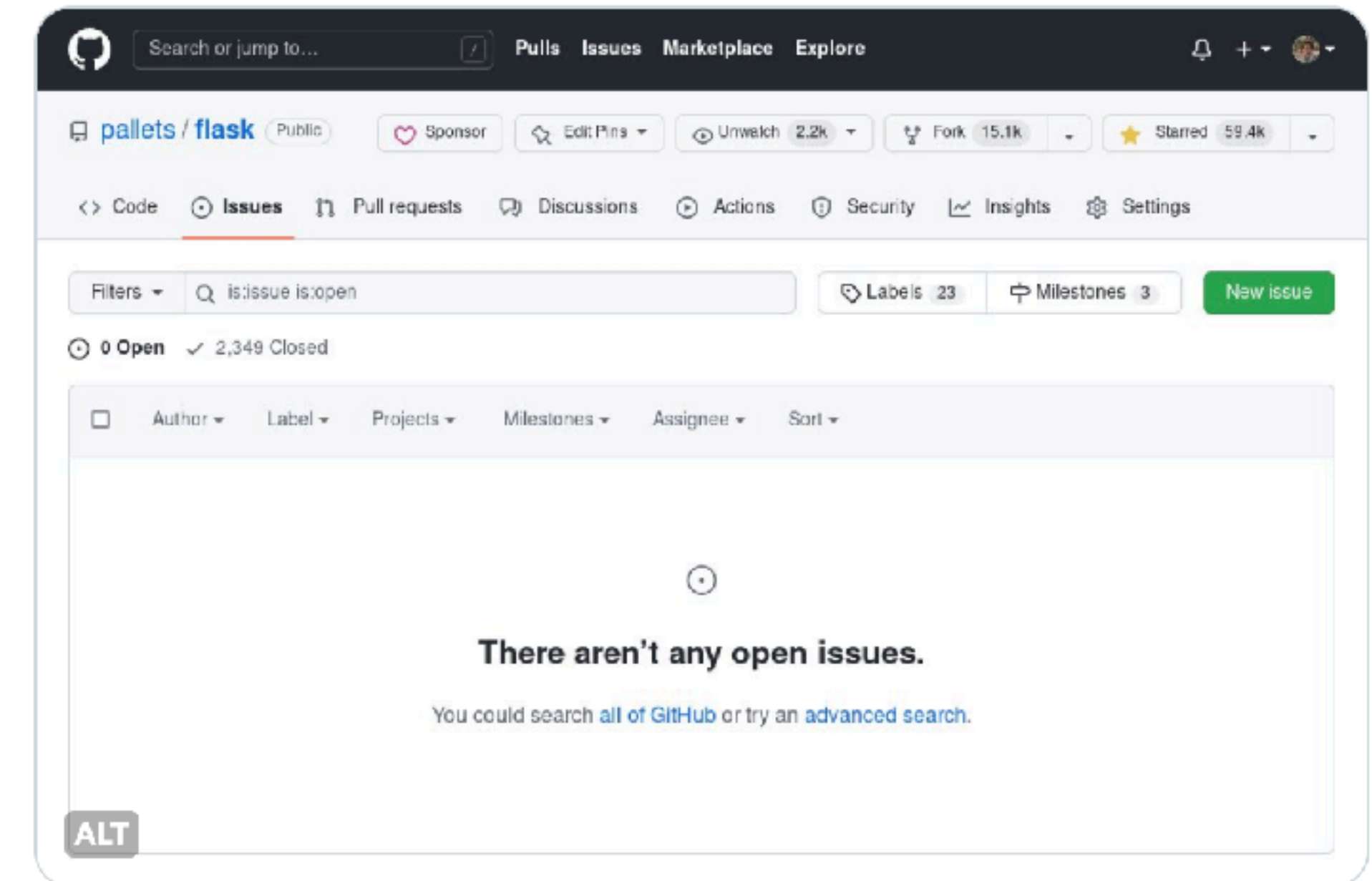
Flask

- Flask is a small web application framework
- ~75 million downloads per month
- Features are stable, but there's always more to improve.
- Improving async support



David Lord 
@davidism

I've done it. I've achieved the open source maintainer platinum trophy. There are ✨no open issues or pull requests on Flask ✨, a framework downloaded 75 million times in the last month.



3:41 PM · Jul 1, 2022

View post engagements

169

688

8.2K

102



Werkzeug

- Werkzeug provides WSGI and HTTP request/response utilities and a development server. Flask is built on top of it.
- ~90 million downloads per month
- ~50% request/response processing speedup after refactoring to remove legacy bytes/str support and replace our urllib copy with Python's
- Faster route dispatching
- Improving async support with SansIO base classes



Quart

- Quart is an ASGI (async) framework with the same API as Flask.
- Now an officially supported Pallets project.
- ~500 thousand downloads per month
- Working to unify Flask and Quart as one library that supports both WSGI (sync) and ASGI (async).
- Working to figure out how to update Flask extensions to be compatible with both.



It's Dangerous



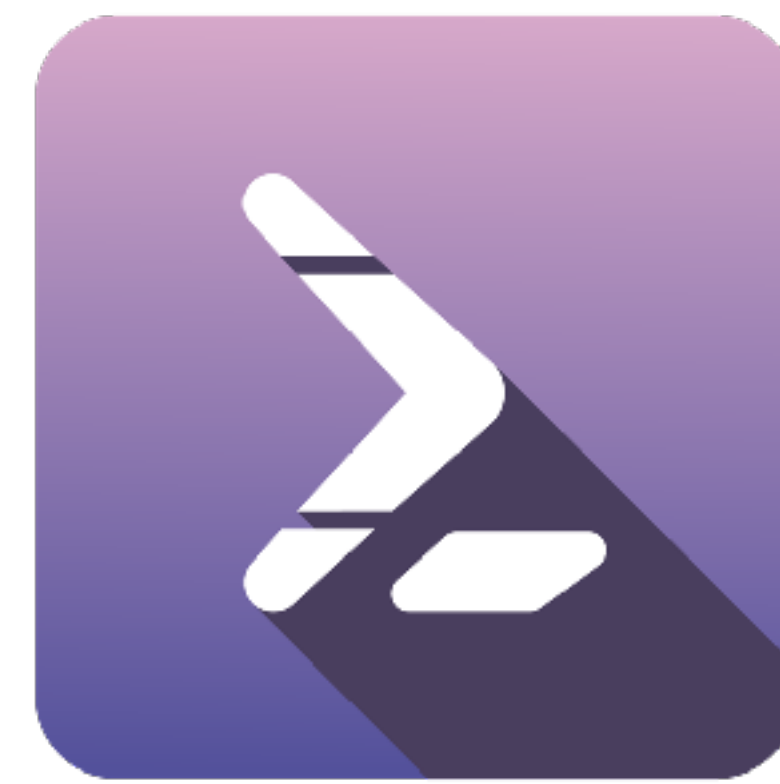
Markup Safe

- ItsDangerous securely signs and serializes data so it can be passed back and forth in cookies and email URLs.
- MarkupSafe escapes untrusted user input to be safe in HTML.
- ~60 million and ~174 million downloads per month
- Inbox zero
- Recently sped up MarkupSafe's C speedups. Potentially rewriting in Rust.



Jinja

- Jinja is a very fast templating engine. It is its own language, and gets compiled to Python.
- ~170 million downloads per month
- Used by many system configuration tools like Ansible and Salt, so it doesn't show up as a direct dependency for many.
- Needs more attention, reviewing PRs, triaging bugs and identifying fixes.
- Language does not have a grammar spec. The current compiler is difficult to reason about. This doesn't affect end users, but makes maintaining more difficult. Would like to improve this.



click

- Click is a CLI (command line interface) framework with powerful input parsing and command nesting.
- ~200 million downloads per month
- Needs more attention, reviewing PRs, triaging bugs and identifying fixes.
- A new parser, instead of our modified optparse copy, may unblock a number of tricky issues. Currently about 90% implemented.



Project Improvements

- pyproject.toml for project metadata
- flit_core instead of setuptools for build backend
 - Except MarkupSafe, which builds 59 platform wheels with cibuildwheel
- Pinning development environment dependencies with pip-compile
- Dependabot updates
- Type annotations
- Automated publishing workflow
- PyPI 2FA and trusted publishing
- SLSA build provenance attestation
- GitHub security advisories

 [flask-3.0.3-py3-none-any.whl](#)

 [flask-3.0.3.tar.gz](#)

 [multiple.intoto.jsonl](#)

 [Source code \(zip\)](#)

 [Source code \(tar.gz\)](#)



Security policy • **Enabled**

View how to securely report security vulneral

Security advisories • **Enabled**

View or disclose security advisories for this r

Private vulnerability reporting • **Enabled**

Allow users to privately report potential secu

Dependabot alerts • **Enabled**

Get notified when one of your dependencies



Pallets-Eco

- <https://github.com/pallets-eco>
- Community maintenance of important extensions
- Core maintainers can jump in with emergency fixes and releases
- Community members can be added as maintainers to projects they use
- Flask-SQLAlchemy, Flask-Session, Flask-Classful, Blinker, Flask-DebugToolbar, Flask-Mail, and more
- Add yours, or join a project to help it thrive



My Time and Goals

- I love the Pallets projects and community and want to see it succeed. My free time is becoming more limited.
- Document our project layout, tools, and configurations.
- Document the Pallets organization and our policies.
- Get all the knowledge out of my head and into public maintainer documentation.



Get Involved

- Office hours today from 15:30 to 18:00
- Sprints on at least Monday and Tuesday
- Anyone is qualified to contribute! Not just code, but documentation, test coverage, issue triage, automation, ideas, translations, research, etc.
- Participate in the #questions and #contributing channels on our Discord chat <https://discord.gg/pallets>
- Participate in Q&A on each project's GitHub Discussions page

Thank You!



PALLETS

