

Sustaining Free and Open Source Software

Exploring Community, Financial, and Technical Practices

Abigail Cabunoc Mayes (@abbycabs) Open Source Maintainer Programs, GitHub Organizer, SustainOSS

Thank You!

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Background

Why I care about FOSS



Sustaining FOSS

Supporting maintainers



Community Succession planning

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Financial Pay maintainers



Technical

Easy to use & get started

Agenda



Background

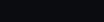
Why I care about free and open source software

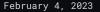




Sustaining FOSS

Supporting maintainers







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In open source, **the maintainers** working on the source code are the scarce resource that needs to be protected and nurtured.

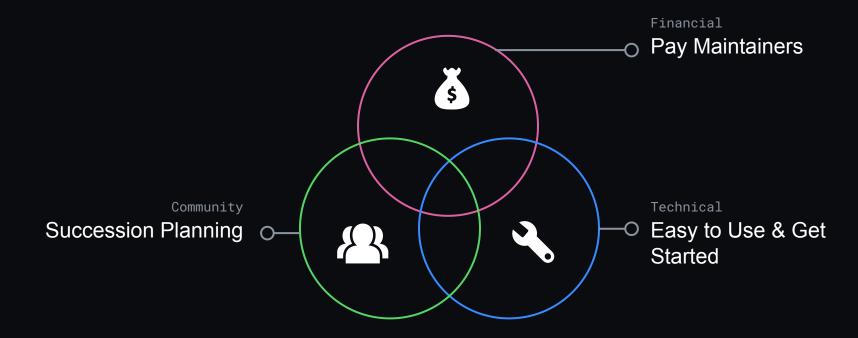


Tobie Langel

@tobie



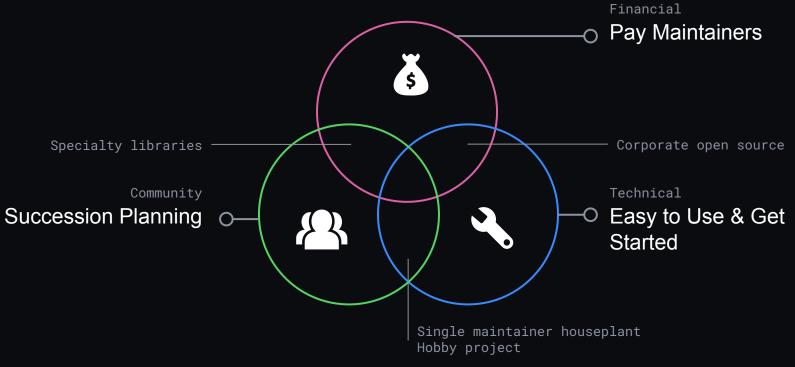
Supporting maintainers







Supporting maintainers





Succession Planning

Community Practices



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A successful project has to be able to change the leadership. Otherwise the leadership becomes deadwood, which leaves the project rudderless.



Kirk McKusick

Building and Running an Open-Source Community - The FreeBSD Project

Photo CC-BY-NC-SA Faces of Open Source





Be intentional about succession planning when selecting mentees

Suggested criteria to identify emerging leaders

1. Mission-Aligned

They care about this work & want it to succeed

2. Available

They have the time & resources to contribute

3. Willing to Learn From whoever is mentoring them



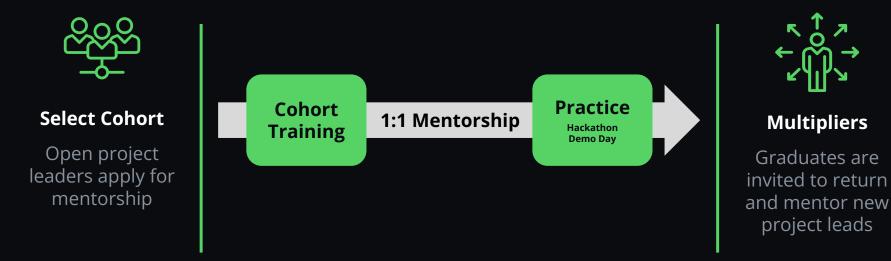
Fueling the Movement We're growing & retaining our graduates

Case study Past work with Mozilla Open Leaders

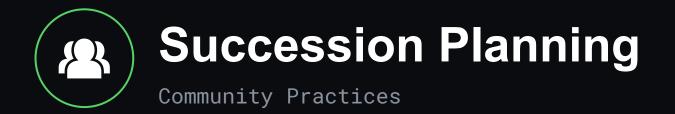
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Mozilla Open Leaders

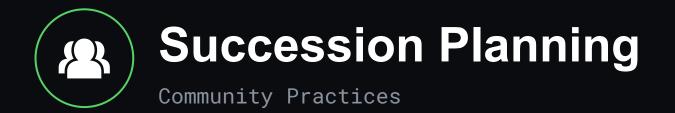
14 weeks of open leadership training & mentorship







- Adding a selection step & criteria will help prioritize investing in future maintainers
- You can't mentor everyone



Success planning can be helpful when considering FOSS incubated at a company (corporate open source)

Not key to the core business?

- Move out to a foundation (example: Rust)
- Partner with other companies on shared governance (example: Kubernetes)







Pay Maintainers

Financial Practices







Pay Maintainers

Financial Practices



















If you told me 10 years ago we would have multiple businesses building services to help sustain open source projects I would have been skeptical. Can't imagine the next 10.



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Pay Maintainers

Financial Practices

GitHub Sponsors Community

Fund the work of developers and projects you depend on.							
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github.com/sponsors/explore

Projects your accounts depend on & which ones are eligible for sponsorship





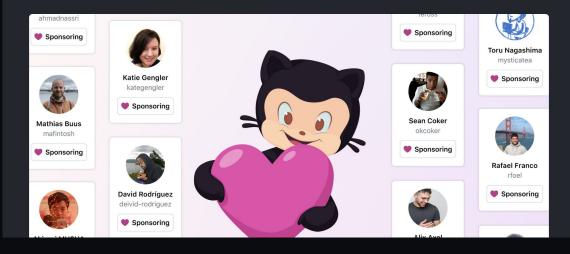
Pay Maintainers

Financial Practices

Open Source

Thank you to our maintainers

To celebrate Maintainer Month, GitHub has invested an additional \$500,000 to help sponsor the open source projects that it depends on.



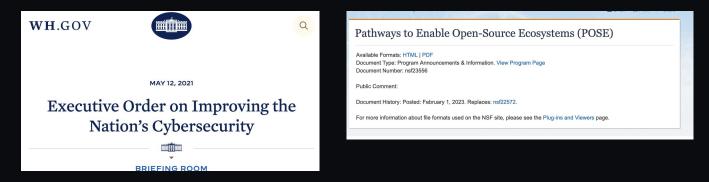
Maintainer Month Sponsorship

Bulk sponsorships coming soon!

@abbycabs



- Funding landscape has changed dramatically in the past year or so
- More money available for open source
 - Open Source Collective: 30% increase in payment to maintainers
 - Securing the supply chain







How can we set up projects in a way that has ongoing support for maintainers?

 Complicated question! We have some models, but we need to be innovating more here.

Q / Accelerator	Program	More ∨		Apply now
GitHub Accelerator Jumpstar careers in				
The world runs on open without the global team time and energy to pusl forward	n of contrib	utors who freely	devote their	





Some models that can work today:

- 1. Tips & Donations
- 2. Get hired at a company to do FOSS
- 3. Company does FOSS





- 1. Tips & Donations
 - Can be donations to a foundation or an individual
 - \circ $\,$ Works well for
 - i. visible projects (Vue),
 - ii. content creators (Caleb Porzio), and
 - iii. maintainers in lower cost of living areas (Kovid Goyal, Calibre)





Pay Maintainers

Financial Practices

<u>"Expanding GitHub Sponsors</u> globally"

- Kovid Goyal, Calibre maintainer
- Carlos Becker, GoReleaser maintainer

Both agreed the strength of the USD helps. Kovid was able to go full time on open source when he moved back to India from the States.





- 2. Get hired at a company to do FOSS
 - Great way for a company to have a direct line to a project
 - Electron (slack, Microsoft)
 - Many others!





- 3. Company does FOSS
 - Core business model (next.js / Vercel sells hosting services)
 - Consulting services (Janus WebRTC Server)





Some models that can work today:

- 1. Tips & Donations
- 2. Get hired at a company to do FOSS
- 3. Company does FOSS





Technical Practices



February 4, 2023

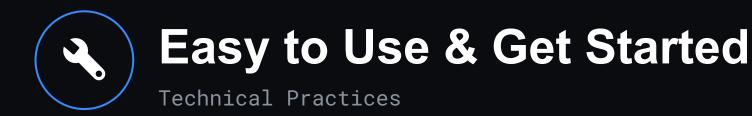


Technical Practices

- Documentation
- Testing
- CI/CD
- Cloud developer environment

Reduces maintainer burden and helps ensuring the code could live on if suddenly left unmaintained.





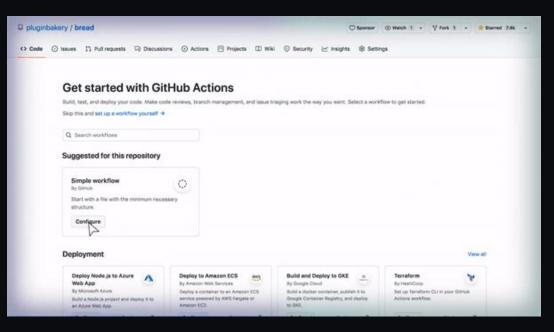
- Documentation
 - **"Emphasized documentation from the start**." Kirk McKusick on what FreeBSD did well early on that led to where it is today?





Technical Practices

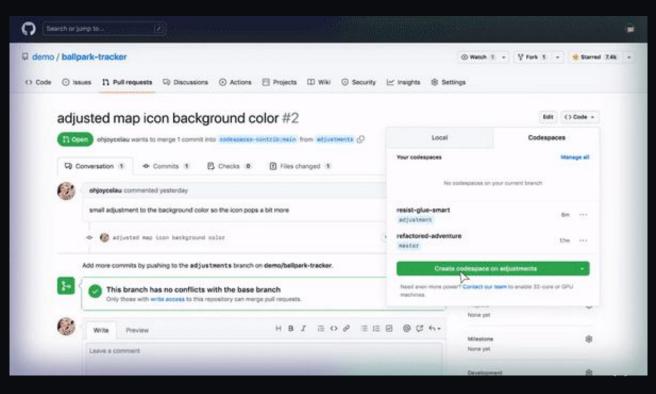
- Testing
- CI/CD





Technical Practices

 Cloud developer environment





Technical Practices

Chat with Craig!

With up to 60 hours a month free, new contributors can use a dev environment that just works!



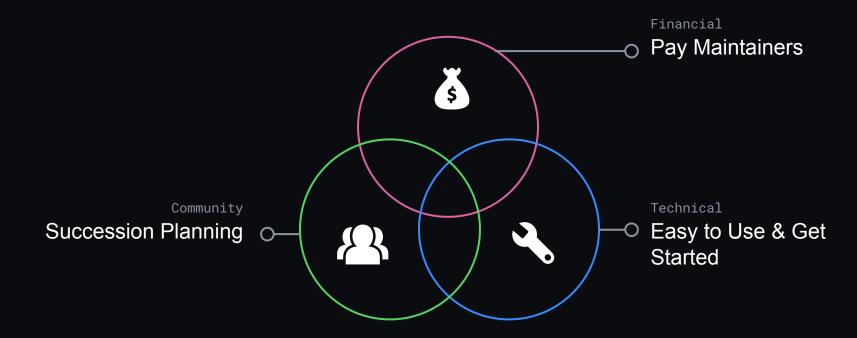
Craig Peters Staff Product Manager GitHub Codespaces

github.co/codespaces-chat



@abbycabs

Supporting maintainers



Sustain Together

Casual chat with the SustainOSS community on these topics every other Friday

discourse.sustainoss.org



maintainers.github.com



February 4, 2023

Thank you!

Questions / Comments?

Abigail Cabunoc Mayes @abbycabs @abbycabs@hachyderm.io



February 4, 2023

Brand guidelines & accessibility



This template is based on our core brand elements to assist Hubbers in producing communications that align with the GitHub brand system.



The colors and font sizing have been approved by the accessibility team to ensure we are actively being inclusive.

Our goal is to create a user friendly template so all Hubbers have the opportunity to create a presentation that looks as if a designer created it. Please be sure to follow guidelines and template structures to ensure brand and accessibility compliance.

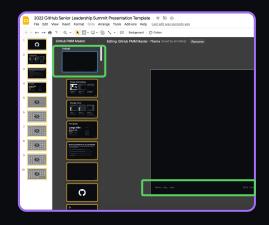


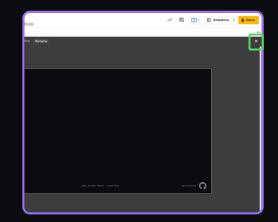
If you have issues with the template, please reach out to via our slack channel <u>#visual-communications</u>



Footer instructions

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Click "Slide" then "Edit theme"

Found at the top of the tool bar

Edit the footer on Slide 0 of the theme

By changing the date, talk title, and GitHub handle of the speaker(s) Click the X at the top right to close out and return to presentation



Font guide

X-large # Large title Medium title **Small title** X-small title Large dates, usernames Information

Small information, supporting descriptions X-small information, supporting descriptions Small dates, usernames, information Arial Bold 60pt

Arial Bold 44pt

Arial Bold 36pt

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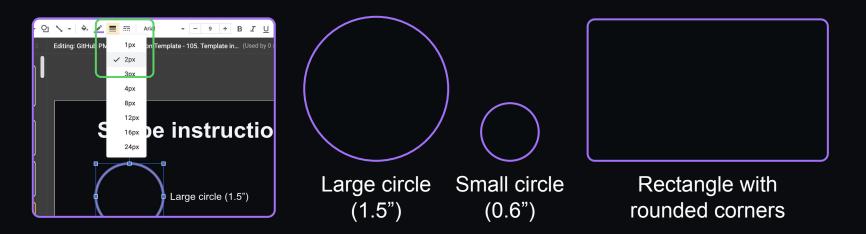
Color palette

You can also always find the color palette here!



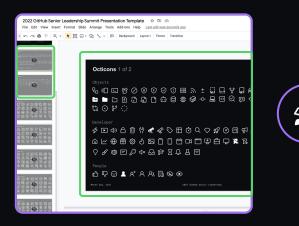


Shape instructions



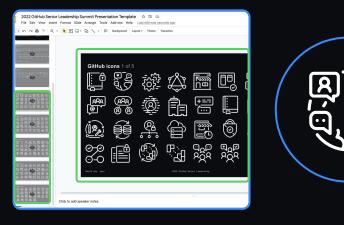
When creating rounded corner rectangles, lines, or circles, all line widths or outlines should be 2px Either create your own shape and follow the shape instructions or feel free to copy and paste from here! Click "Slide" then "Edit theme" and then copy and paste the intended shape. Click the "x" at the top right to exit theme and return to presentation view.

Icon instructions



Small circle (0.6")

When you see the small circle, find an Octicon from the Octicon pages and copy/paste into the center of the circle. No need to resize.



Large circle (1.5")

When you see the large circle, find a GitHub icon from the GitHub icon pages and copy/paste into the center of the circle. No need to resize.



Octicons 1 of 2

Objects

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Octicons 2 of 2

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GitHub icons 1 of 5

















API

Accelerated SDLC



Automate your workflow

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Actions

Add tasks to columns

Blockchain

Career Ladder

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Administration

All for one





Any language





Augmented reality

CLI easy creation



CLI seamless navigation



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Code diff





CVE record



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Admin mentoring







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Business

Build





Code Nav



Community actions





Bug Hunter





Collection

















GitHub icons 2 of 5



Community management



Community-led

security approach

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Community-powered

Dependency insight

dashboard

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Configuration as code



Continuous integration



Customized training





Data-driven recommendations

Data-driven



Dependencies





Dependencies 2



Double ship it

Fettnterprise4dinnaer23



Dreamlifter

Enterprise





Ecosystem

Existing vulnerability

DevOps workflow



Developer identity

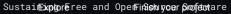


Education













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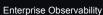














Flexible permission





Enterprise Server Enterprise availability

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Disaster recovery







GitHub icons 3 of 5





Git + GitHub



GitHub Archive Program



services

Innersource starter

GitHub for business



GitHub for teams



Innersource





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Locked documents



Insights

Locked repo



GitHub Arctic

Code Vault

Integrations



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Hosting



GitHub Mobile







GitHub One

GitHub Pages



Implementation



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Learning Lab

Maintainer

Marketplace trial



GitHub icons 4 of 5









Migration

Org wide security policies





Multi-container testing



Multiple OS & Containers





Nested teams

New user



Platform



Revolutionary security engine



Matrix build

Metrics implementation





Org insights dashboard

Newsfeed

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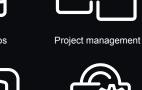
Private pages



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Private repos

Secret store





Security advisory API



Organized by project status

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Protected branches



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Required status check









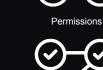




















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Packages







Premium support



GitHub icons 5 of 5

















Security

See project activity

Service account engineer

Share work

Team metrics

Skywalker



Sponsors





Team activity

Team discussions

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Topic

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Track progress



Workflow consultation



Unified business



Unified contributions



Used by





Vulnerability data



Webhooks



Workflow settings February 4, 2023



Team mentions

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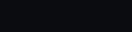


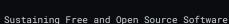




















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Feedback survey

