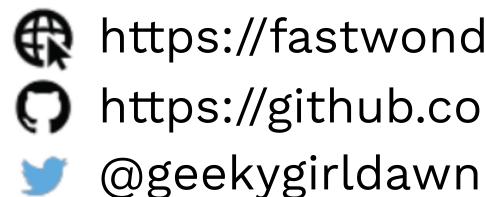
Contributor Growth Strategies for OSS Projects

FOSSY Portland July 2023 Dr. Dawn M. Foster **Director of Data Science for CHAOSS**



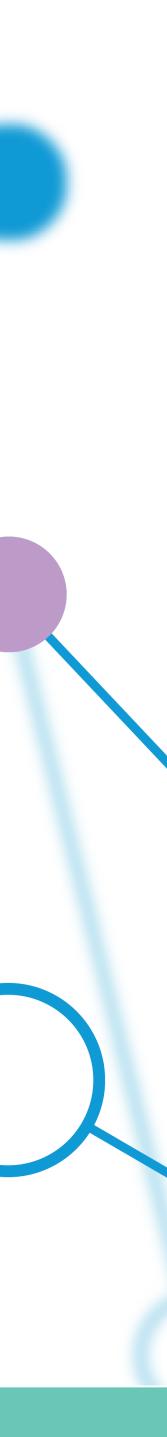


🔰 @CHAOSSproj





https://fastwonderblog.com/ https://github.com/geekygirldawn



Thank you for the grant that funds my work

ALFRED P. SLOAN FOUNDATION

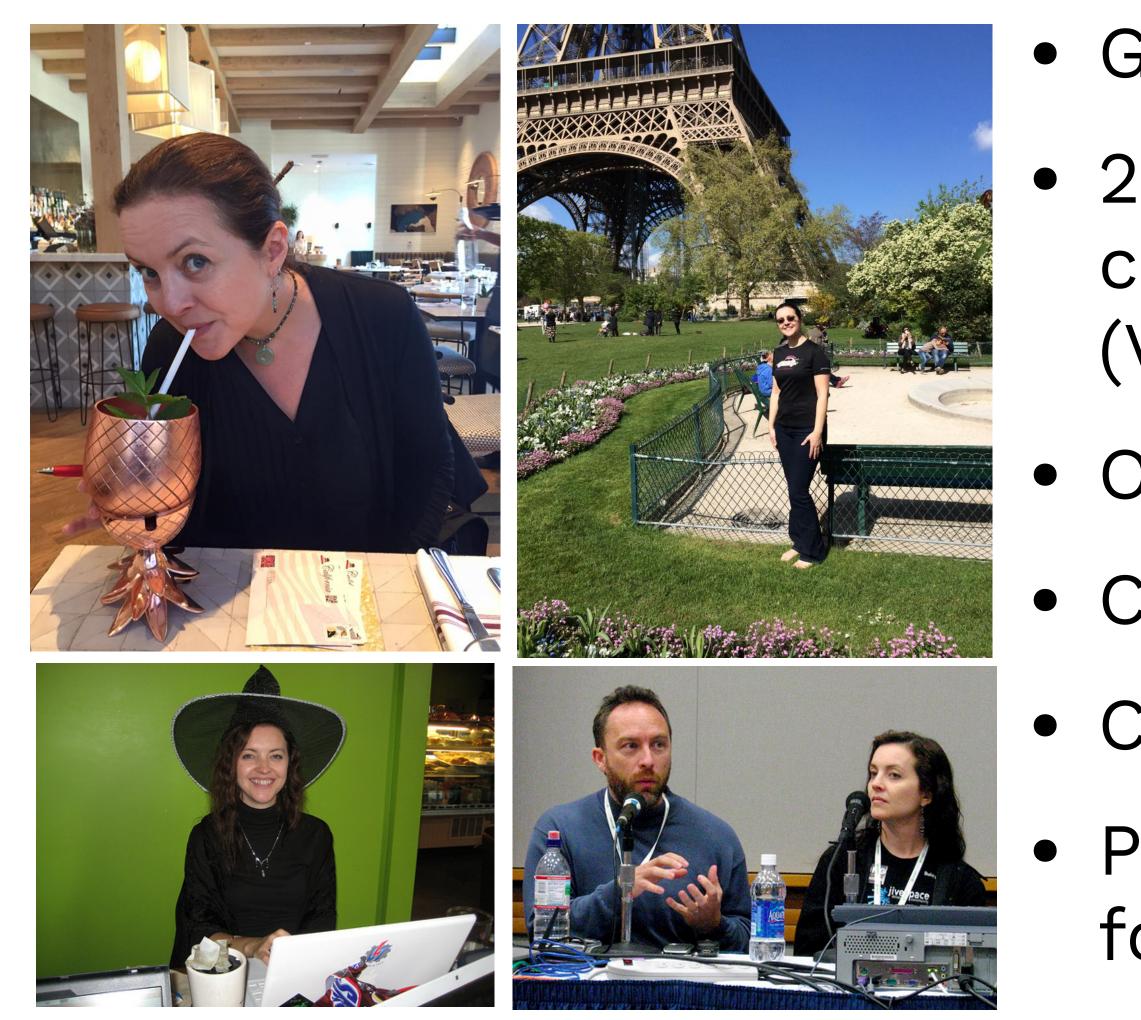








Whoami



Photos by Mom, <u>Josh Bancroft</u>, <u>Don Park</u>



- Geek, traveler, reader
- 20+ yr tech career focused on community & open source (VMware, Intel, Puppet, ...)
- OpenUK Board
- CHAOSS Board and Maintainer
- CNCF TAG Contrib Strategy co-chair
- PhD from the University of Greenwich focused on Linux kernel collaboration





The Problem is Hard

Humans are squishy. We have feelings and bad days.



Photo by <u>Magnet.me</u> on <u>Unsplash</u>





The Problem is Hard

Action: Be proactive and encourage people to participate.



Photo by <u>Magnet.me</u> on <u>Unsplash</u>





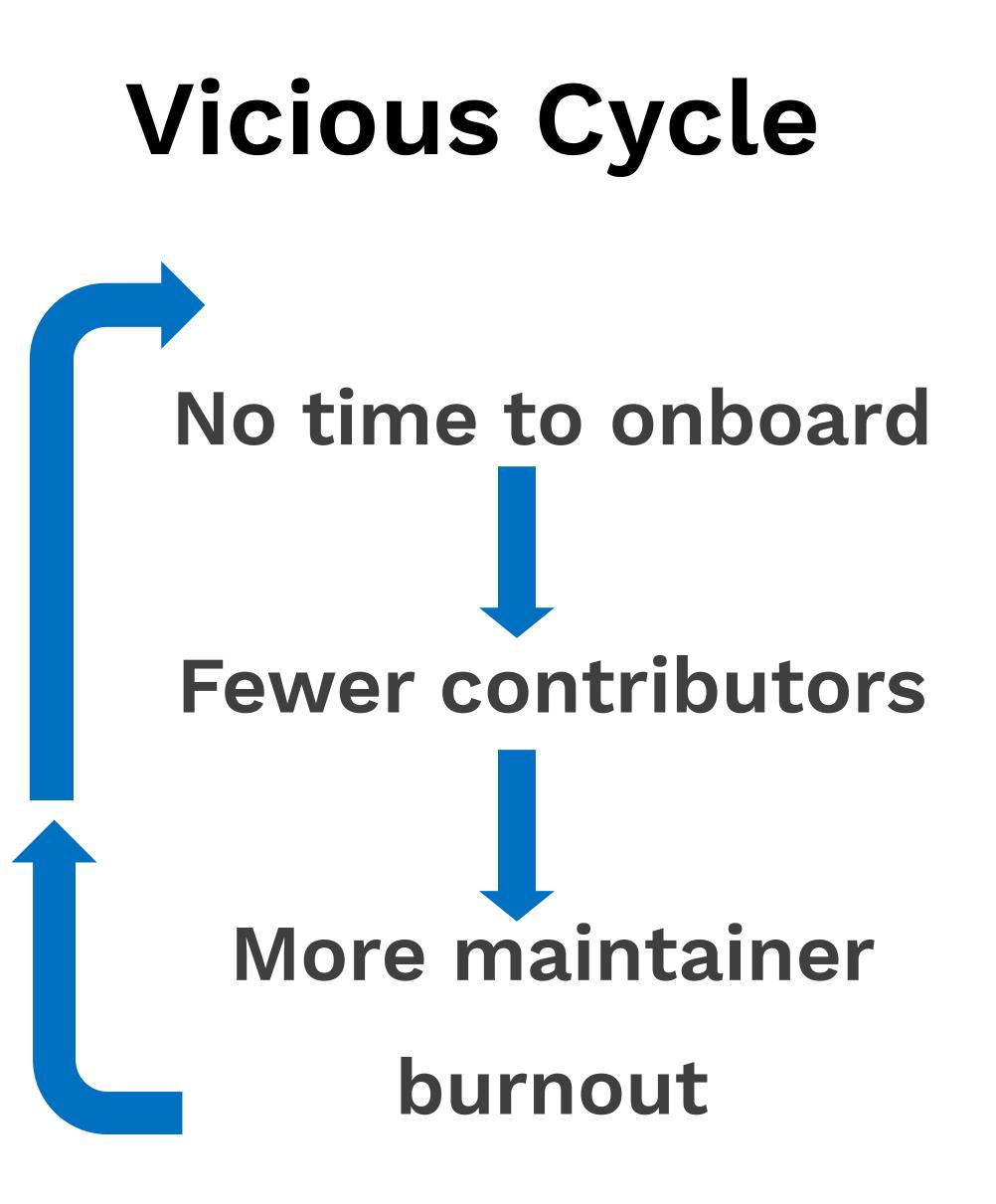






Photo by <u>Tine Ivanič</u> on <u>Unsplash</u>









 Factors that Impact Contributor Growth Contributor Growth Strategies Contributor Ladders and Leadership Metrics for Measuring Project Sustainability Resources and Final Thoughts

Photo by Marco Verch - CC BY 2.0



Developing and Executing on Contributor Growth Strategies







Motivation

Squishy humans have complex motivations. We want to feel useful and appreciated.

<u>contribute.cncf.io/maintainers/community/contributor-growth-framework/motivation</u>





YOU

GOT

THIS



Motivation

Action: Be proactive and ask specific people for help on individual tasks.

<u>contribute.cncf.io/maintainers/community/contributor-growth-framework/motivation</u>





YOU

GOT

THIS



Governance is all about the Humans Set expectations for how people collaborate & make decisions

<u>contribute.cncf.io/maintainers/templates/governance-intro</u>









Governance is all about the Humans Action: Clearly document project governance (templates avail)

<u>contribute.cncf.io/maintainers/templates/governance-intro</u>







Be Explicit

Explicit, documented governance makes it easier for the humans to contribute.











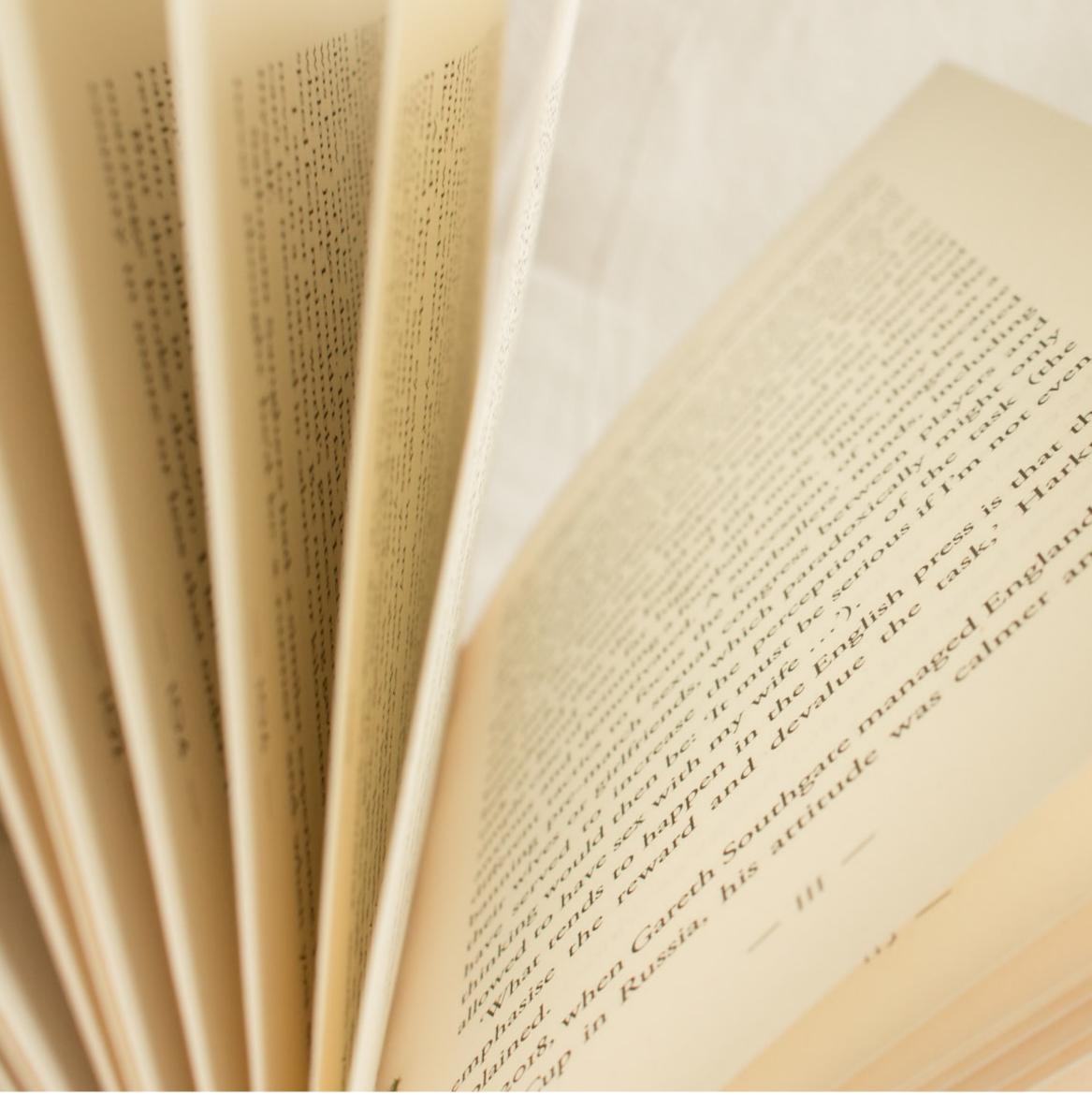
Onboarding Docs

Good docs for onboarding new contributors is step #1 toward scaling maintainers.

<u>contribute.cncf.io/maintainers/templates/contributing/</u>



Photo by <u>Olga Tutunaru</u> on <u>Unsplash</u>





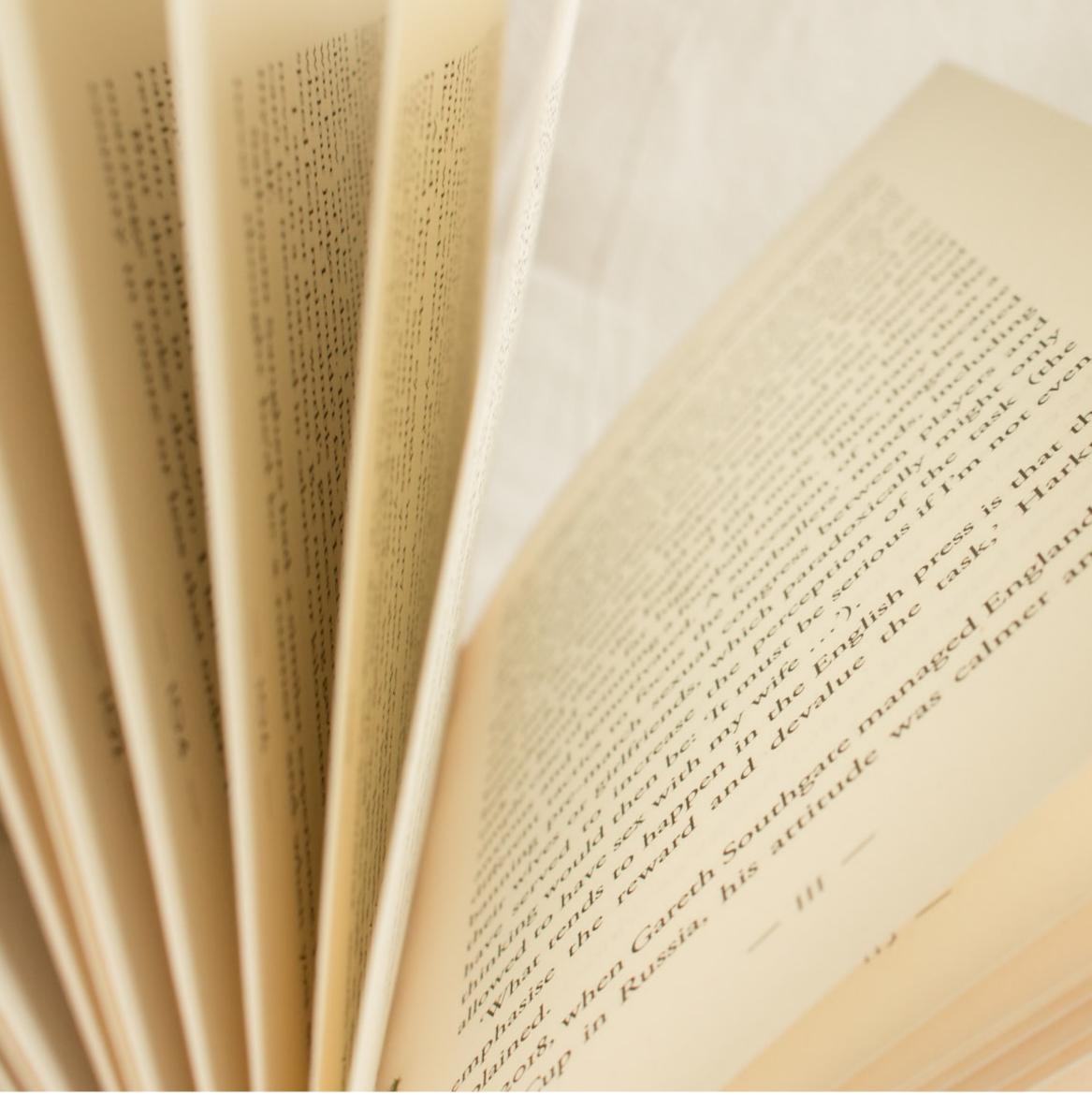
Onboarding Docs

Action: Make sure to include dev env setup, running tests, and other requirements (template available).

contribute.cncf.io/maintainers/templates/contributing/



Photo by <u>Olga Tutunaru</u> on <u>Unsplash</u>





Diversity, Equity and Inclusion

Build a welcoming and

inclusive community.

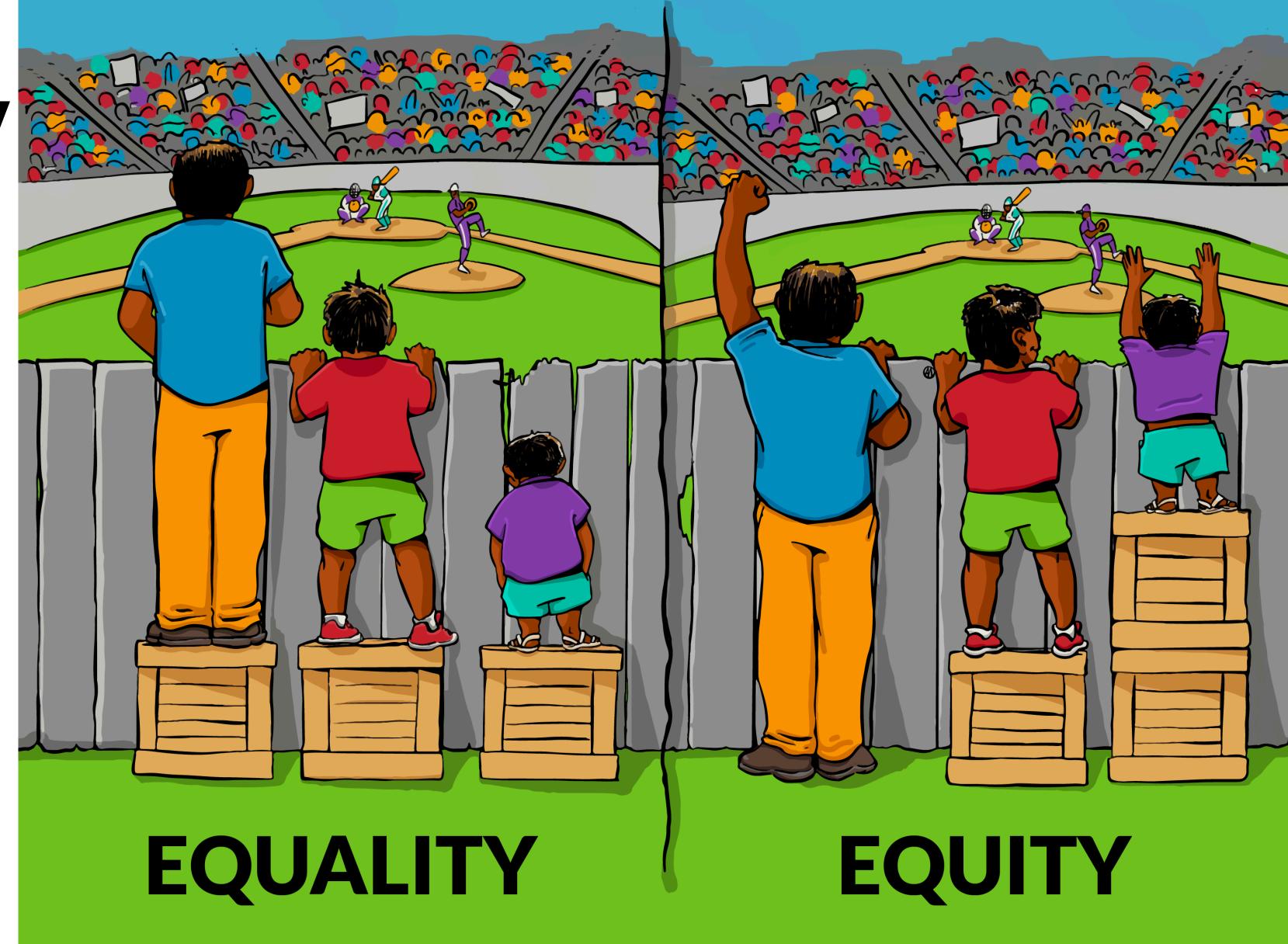


Image courtesy of the Interaction Institute for Social Change | Artist: Angus Maguire.







Diversity, Equity and Inclusion

Action: Be proactive about including people and moving them into leadership roles.

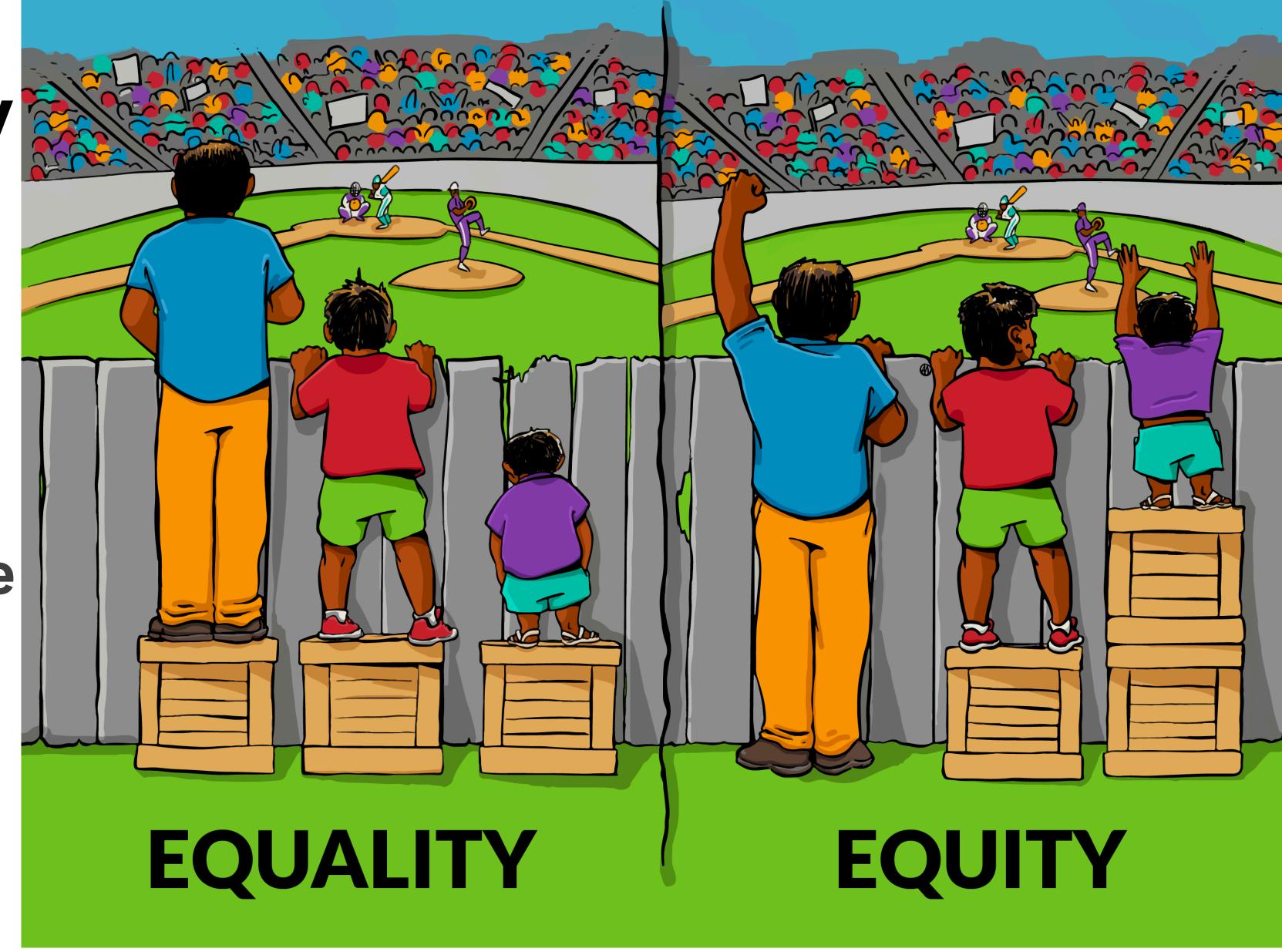


Image courtesy of the Interaction Institute for Social Change | Artist: Angus Maguire.







Contributor Ladders and Leadership



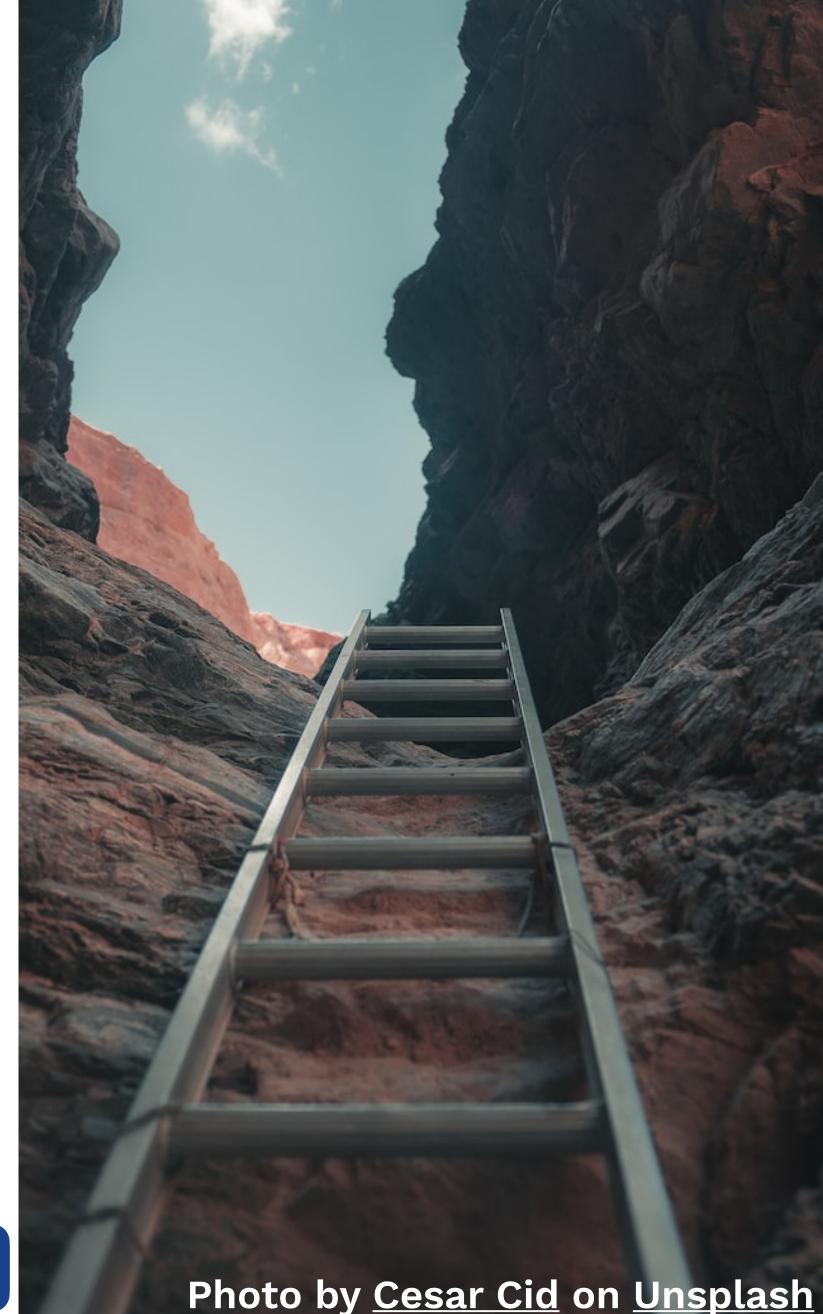


Contributor Ladders

Defining a ladder of leadership roles helps recruit new humans to reduce maintainer workload.

github.com/cncf/project-template/blob/main/CONTRIBUTOR_LADDER.md







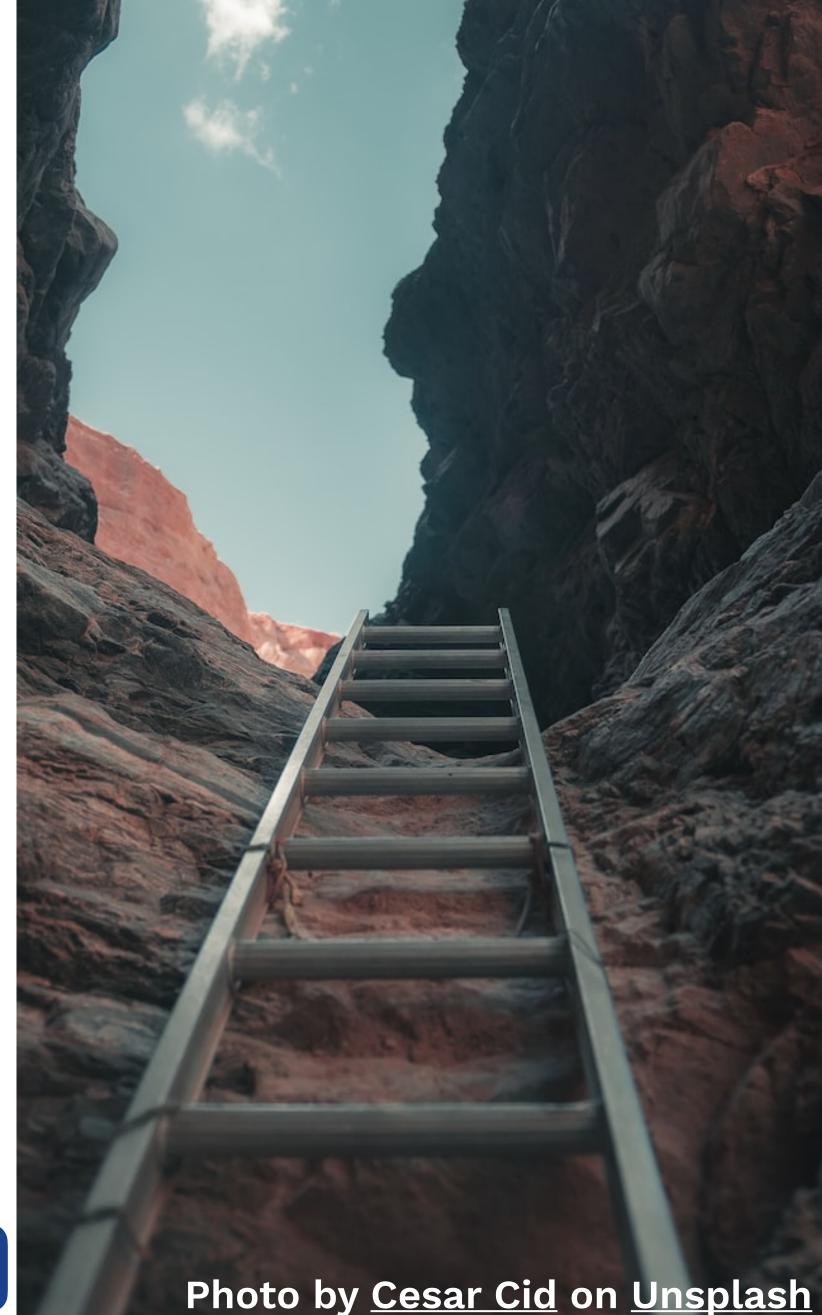


Contributor Ladders

Action: proactively recruit new humans to move up the ladder into leadership roles (template available).

github.com/cncf/project-template/blob/main/CONTRIBUTOR_LADDER.md









Leadership

Humans can climb the ladder into leadership to reduce maintainer burden.



contribute.cncf.io/maintainers/governance/leadership-selection



Leadership

Action: Define a fair and transparent process for how new leaders are selected.



contribute.cncf.io/maintainers/governance/leadership-selection



Mentoring

Help the humans become more productive contributors.



fithub.com/cncf/mentoring





Mentoring

Action: Carve out time for mentoring, shadowing or 1:1 time with another human.









Emeritus as a Goal

Set your project up for success after maintainers move on.





Emeritus as a Goal

Action: Be proactive about promoting new humans so that maintainers can move into emeritus roles.



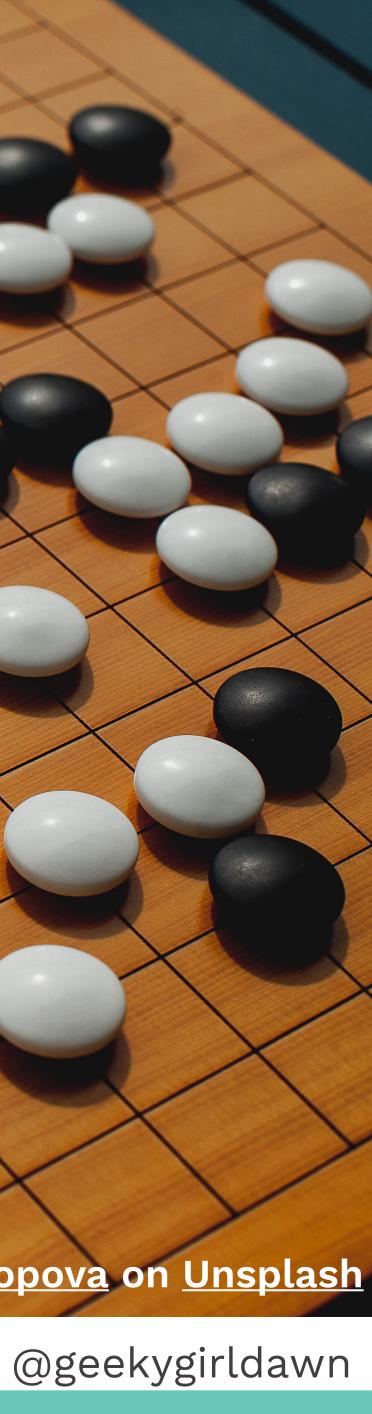


Be Strategic

Think about where you can best spend your time to grow your contributor base.



Photo by <u>Elena Popova</u> on <u>Unsplash</u>

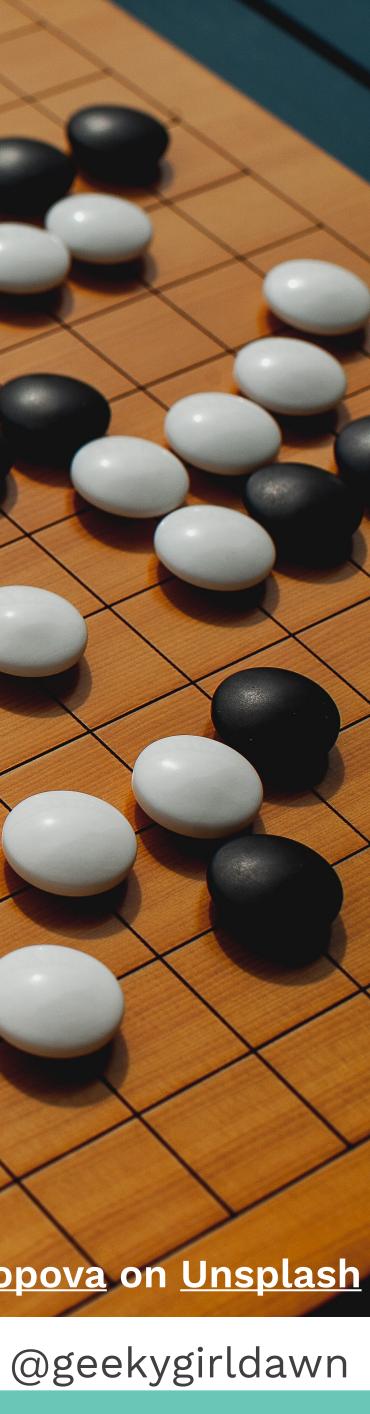


Be Strategic

Action: Find people to help with documentation, marketing, community, and similar activities.

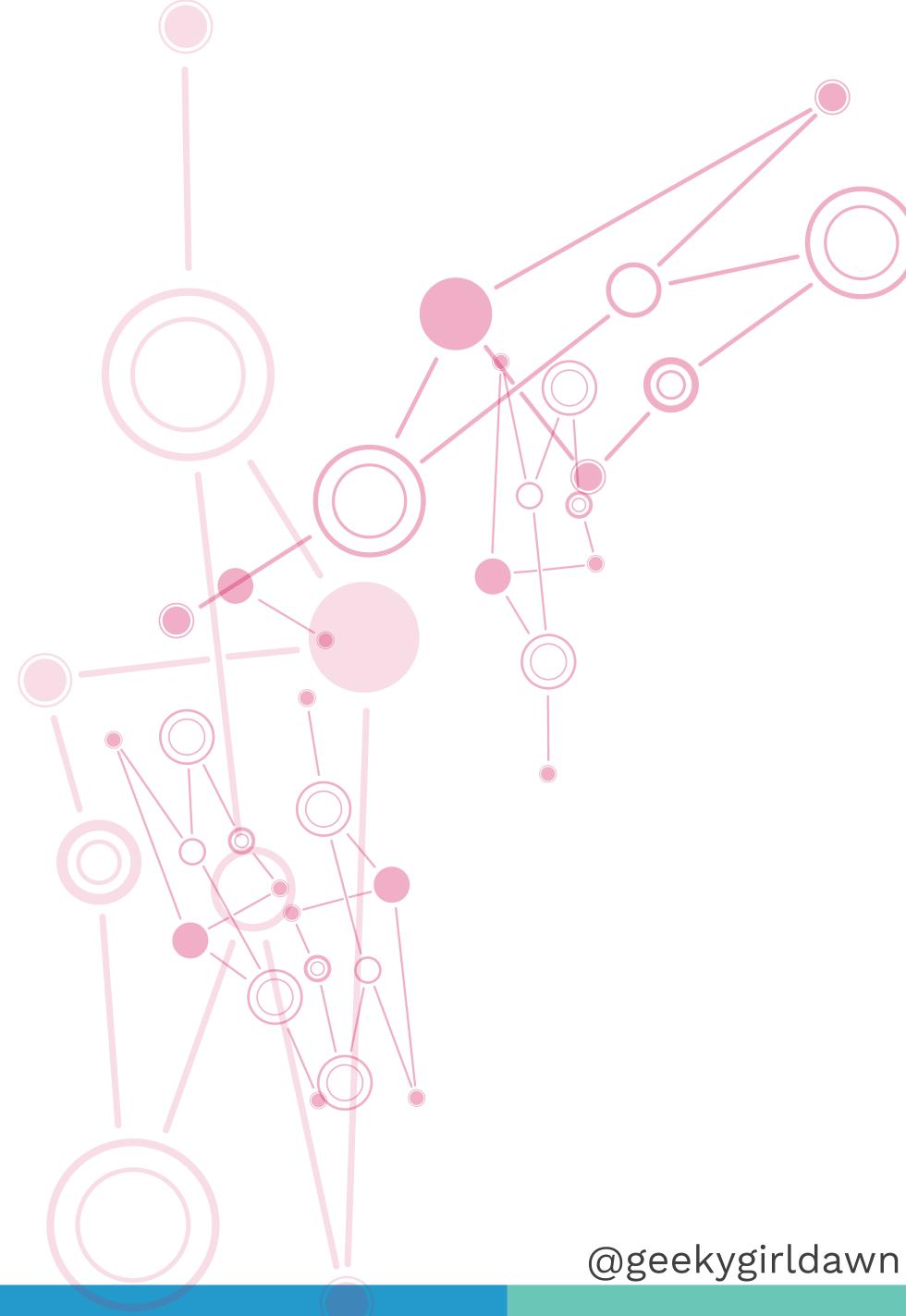


Photo by <u>Elena Popova</u> on <u>Unsplash</u>



Measuring Project Sustainability



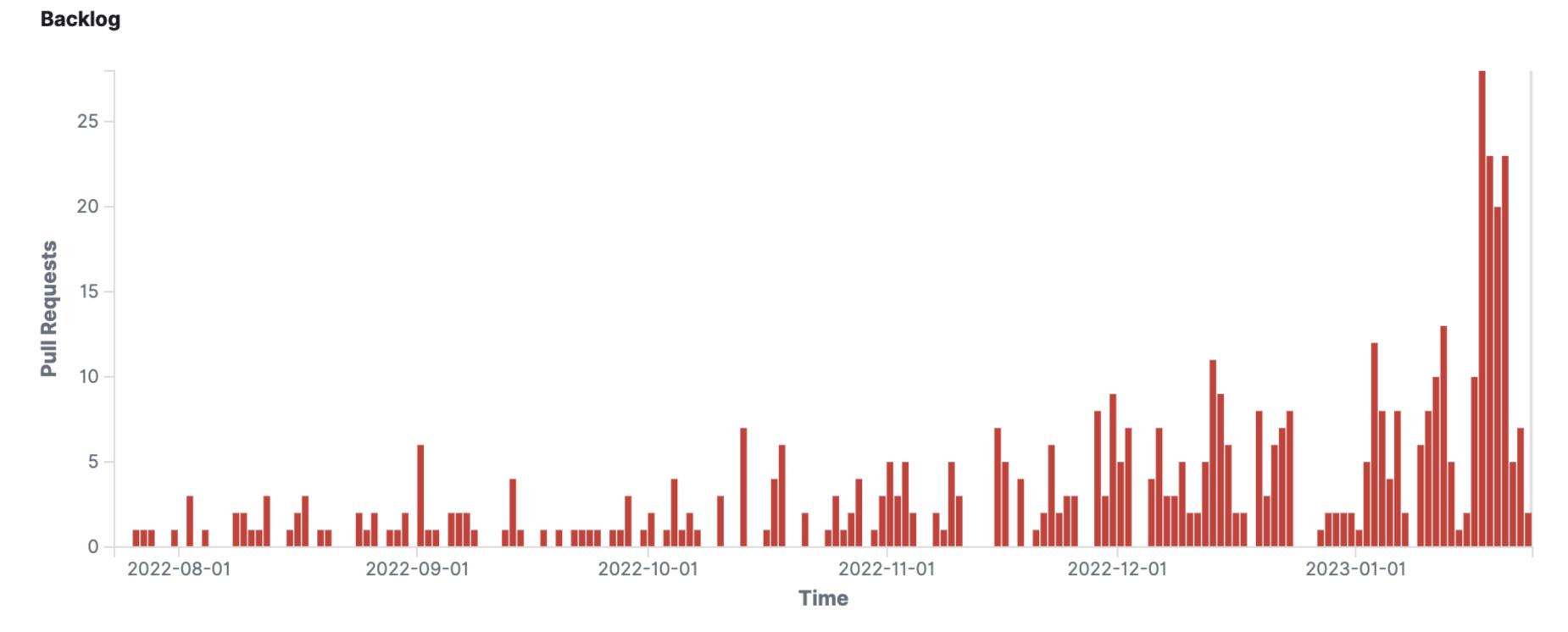






Responsiveness

Contributors submitting PRs with no one to resolve / close them -> may need to move more people into leadership.







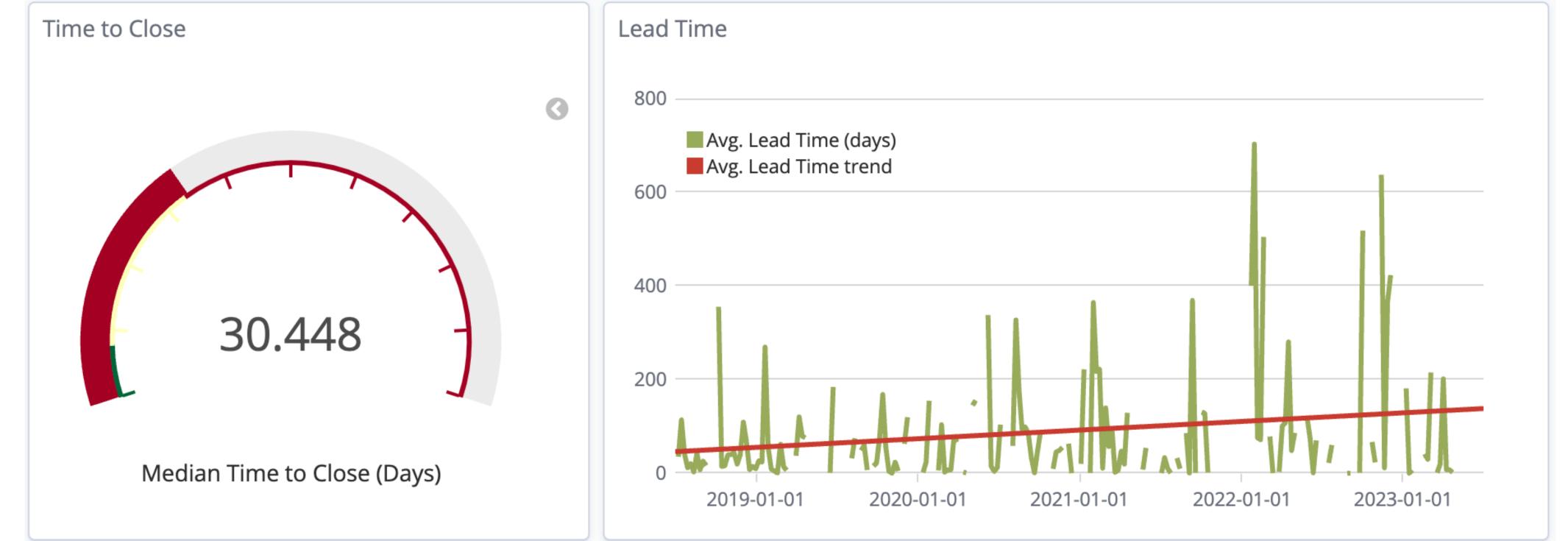






Responsiveness

Time it takes for maintainers to close PRs / issues is increasing -> may need to move more people into leadership.



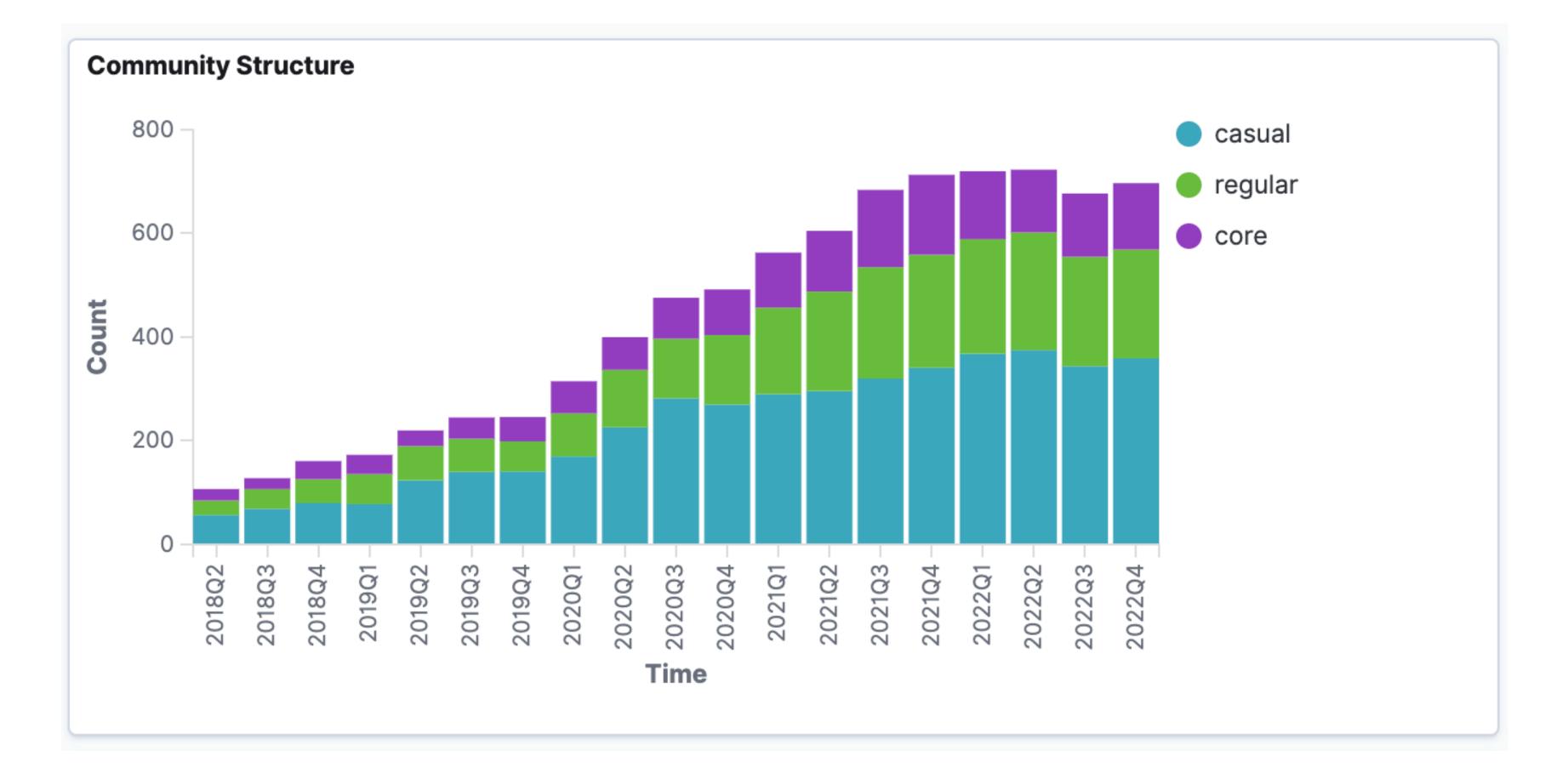








Types of Contributors Few casual /regular contributors -> improve onboarding docs.



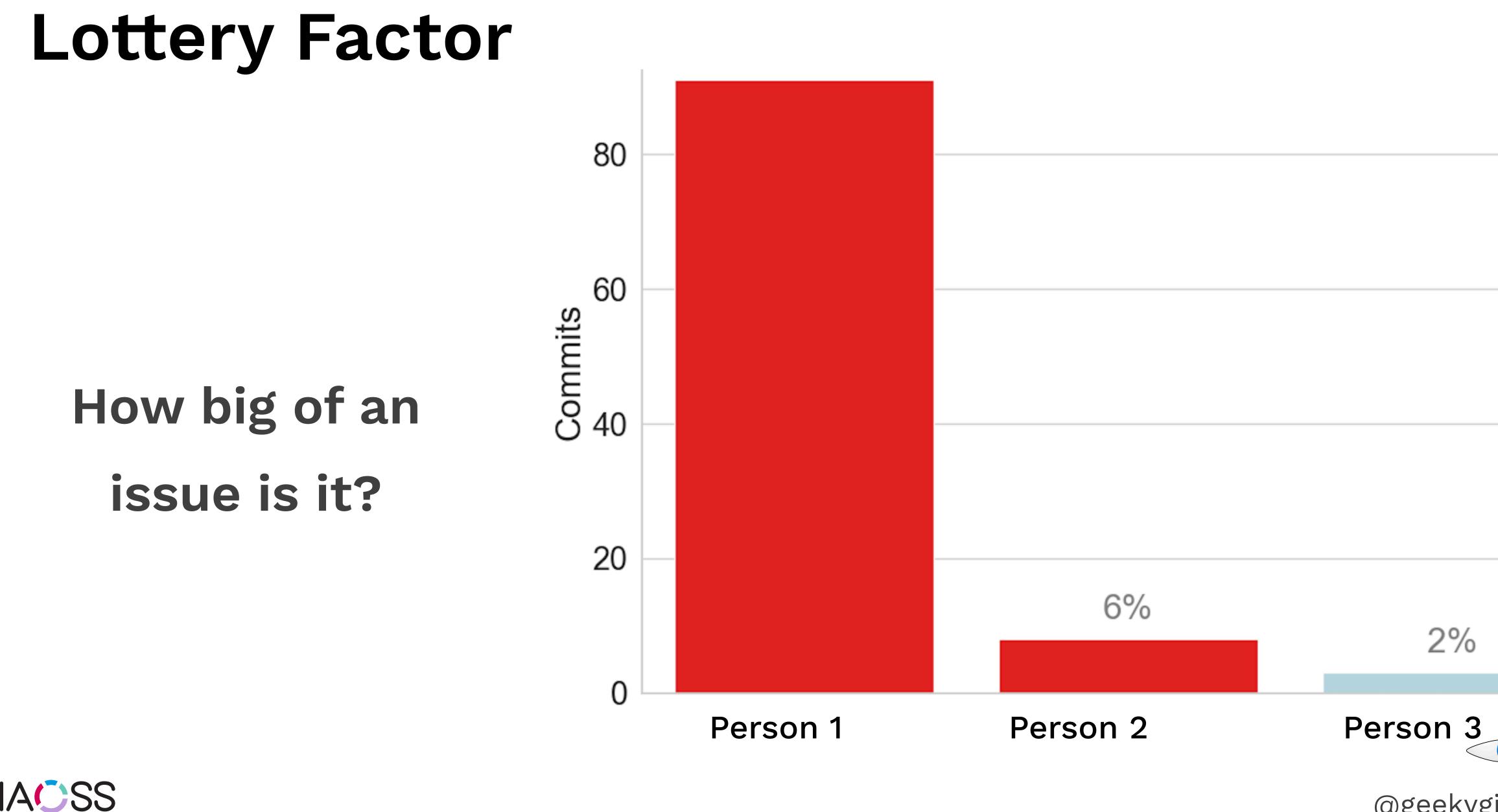




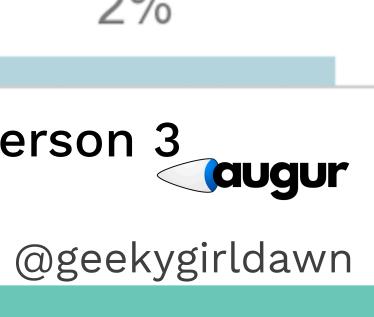






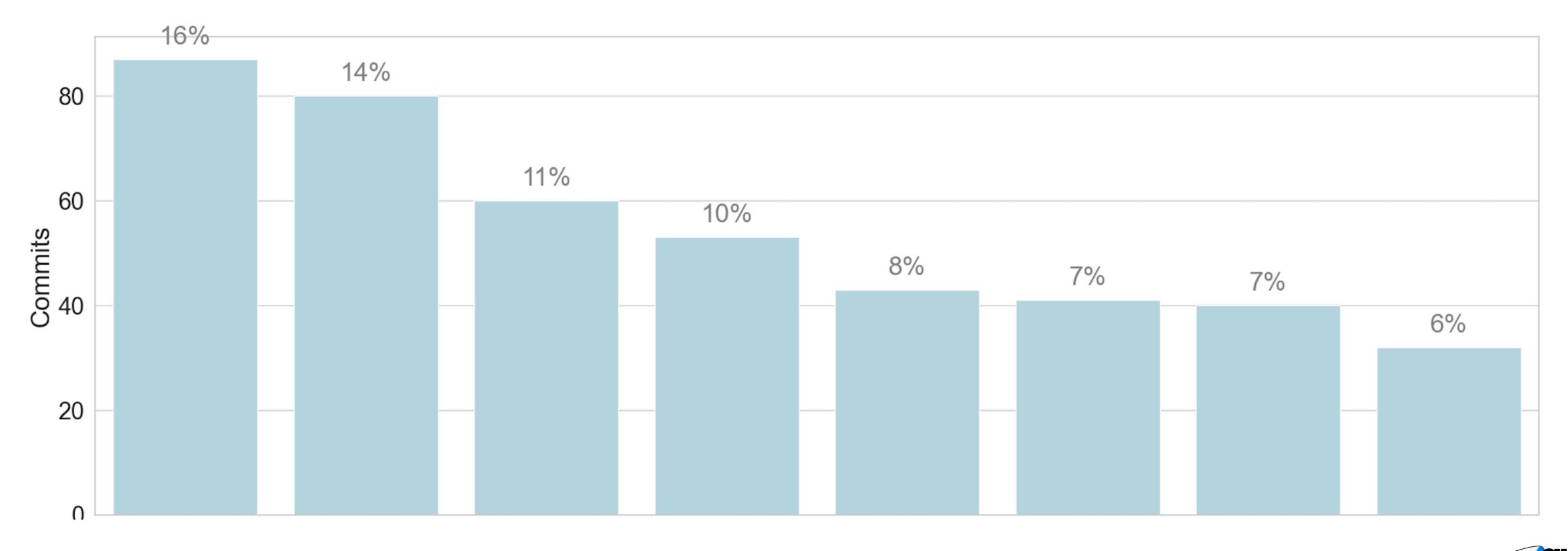






Lottery Factor

Who might be ready to move into a leadership position?









<u> Photo by Vicente – CC BY-NC-I</u>

CNCF Contributor Strategy TAG Docs & Templates contribute.cncf.io/maintainers/

<u>contribute.cncf.io/maintainers/community/contributor-growth-framework/</u>

<u>github.com/cncf/project-template</u>

The Open Source Way Guidebook github.com/theopensourceway/guidebook/

CHAOSS Metrics https://chaoss.community/



CNCF TAG Contributor Strategy Needs more Humans

#tag-contributor-strategy (CNCF Slack) Join our **Slack channel**

Sign up for our **mailing list** <u>lists.cncf.io/g/cncf-tag-contributor-strateg</u>

Drop in to our **meetings**

Go to cncf.io/calendar/ and search for contributor strategy!

Learn about the TAG and how to participate: <u>cncf.io/contributor-strategy</u>.











Final Thoughts

Humans can be difficult and growing your contributor base is hard. It takes time now, but it is worth it later.









Action Item

Carve out 1 hour a week to improve contributor documentation or help someone learn something new.





THANK YOU! Any Questions?



https://chaoss.community/

https://github.com/chaoss

@CHAOSSproj

https://github.com/geekygirldawn

@geekygirldawn



Proprietary Software Used: MacOS & Keynote

https://fastwonderblog.com/

