Building a Sustainable CNCF Project Contributor Base

Cloud Native Rejekts NA 2023 Dr. Dawn M. Foster Director of Data Science for CHAOSS



https://github.com/chaoss

@CHAOSSproj



https://fastwonderblog.com/



https://github.com/geekygirldawn

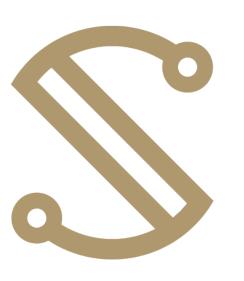


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Thank You!



ALFRED P. SLOAN FOUNDATION







Whoami









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

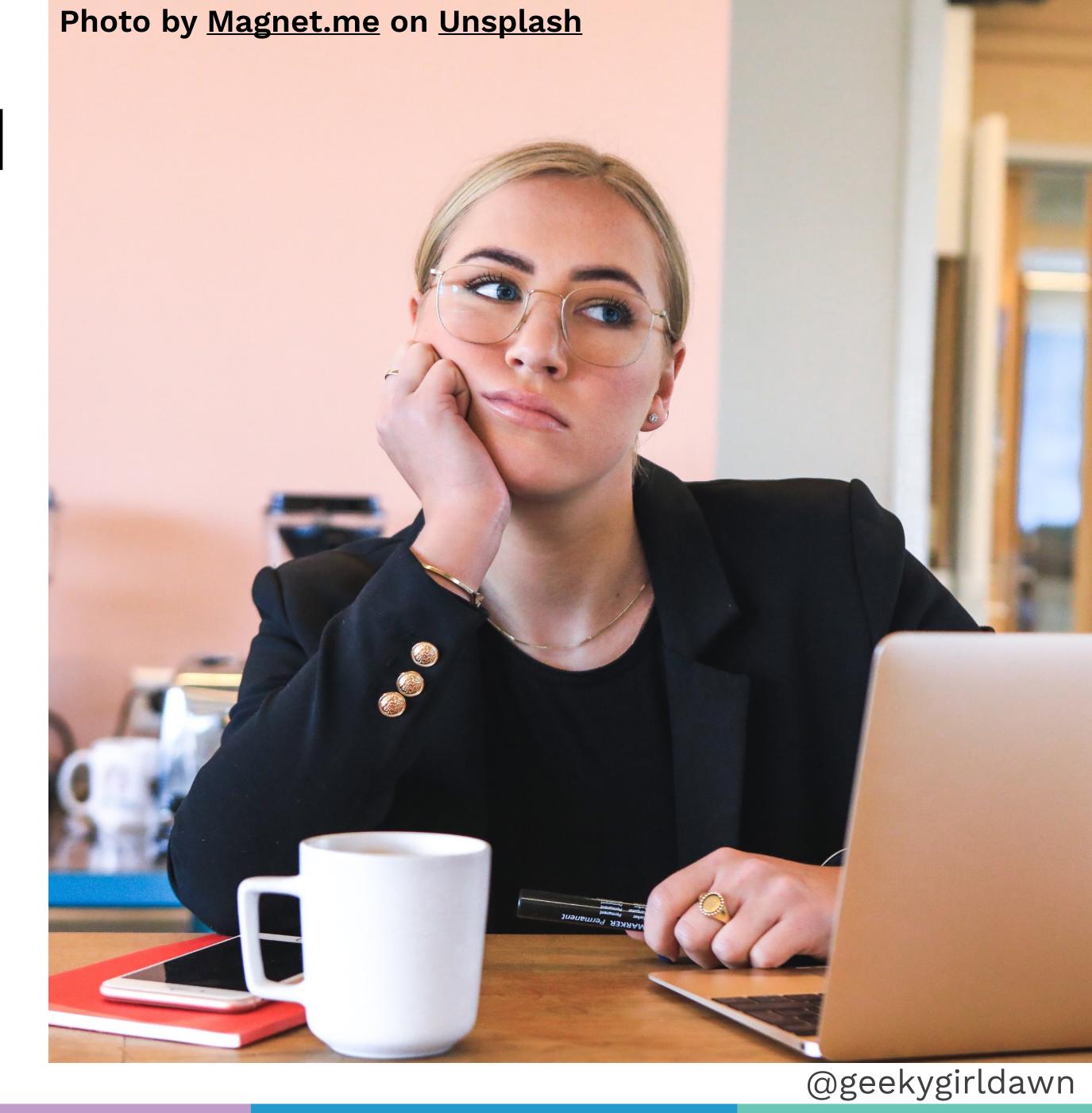
- Geek, traveler, reader
- 20+ yr tech career focused on community & open source (VMware, Intel, Puppet, ...)
- OpenUK Board
- CHAOSS Board and Maintainer
- CNCF TAG Contrib Strategy co-chair
- PhD from the University of Greenwich focused on Linux kernel collaboration

The Problem is Hard

Humans are squishy.

We have feelings

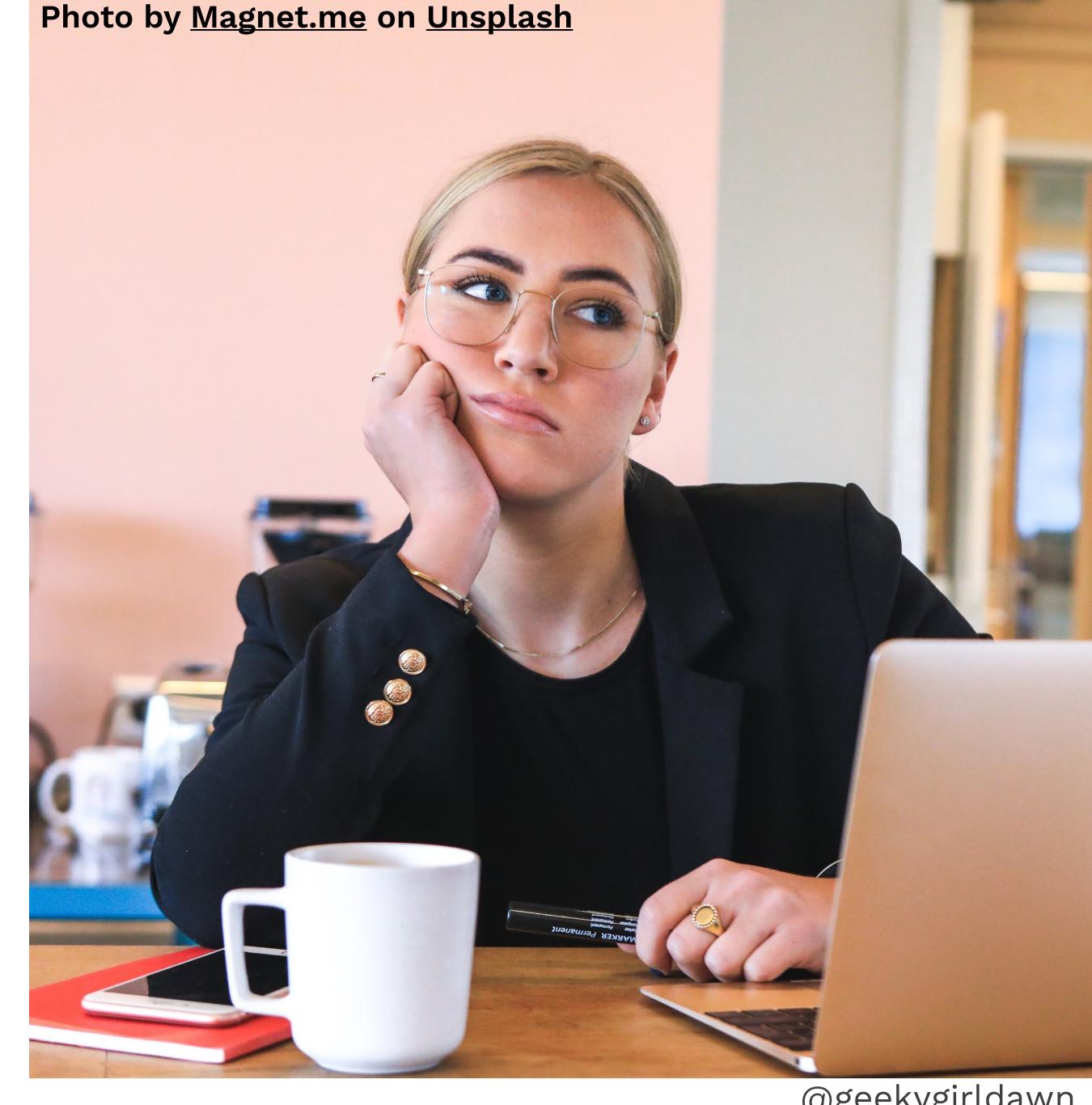
and bad days.





The Problem is Hard

Action: Be proactive and encourage people to participate.

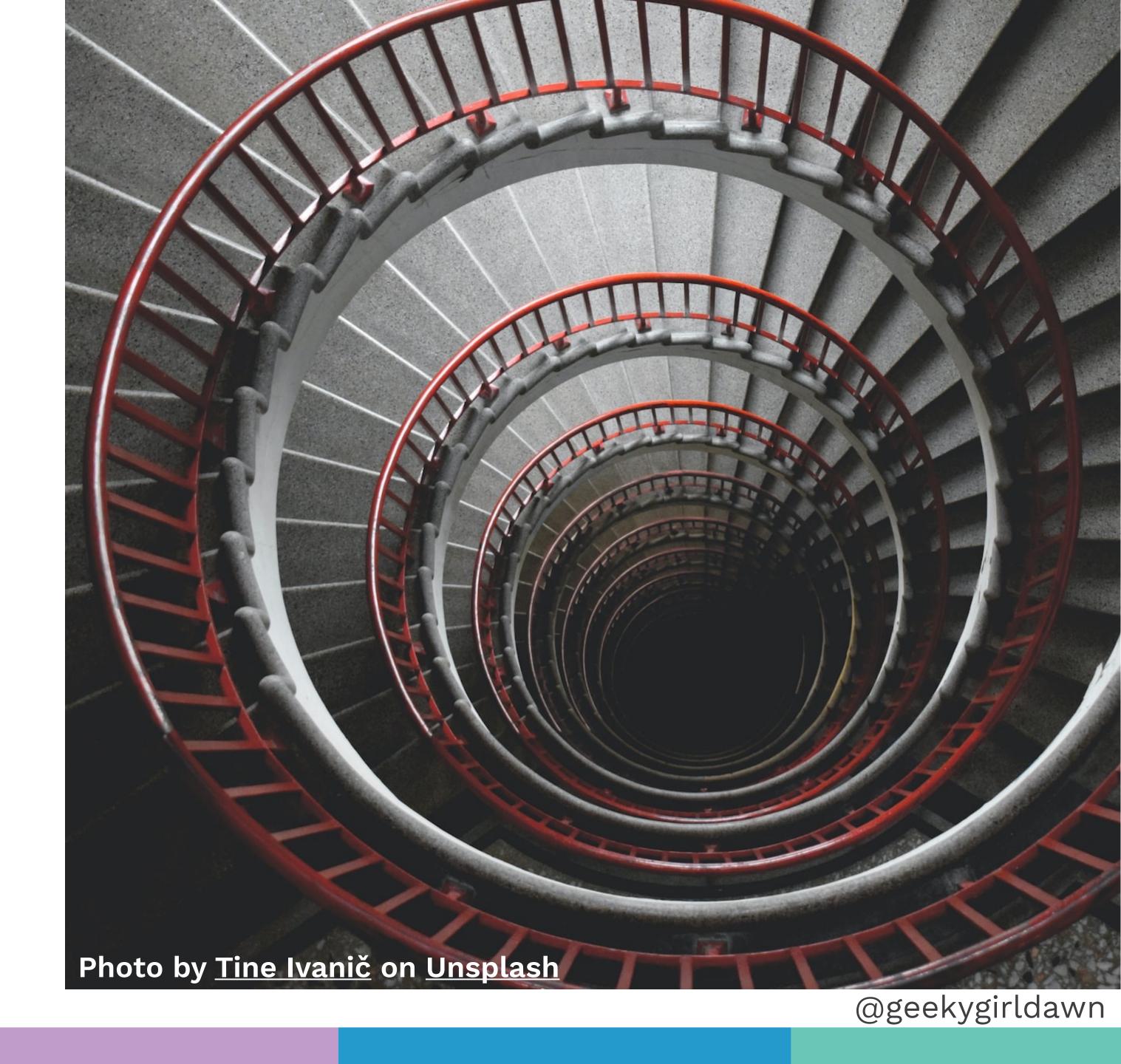




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Vicious Cycle

No time to onboard Fewer contributors More maintainer burnout





Agenda

- 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.





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



Motivation

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





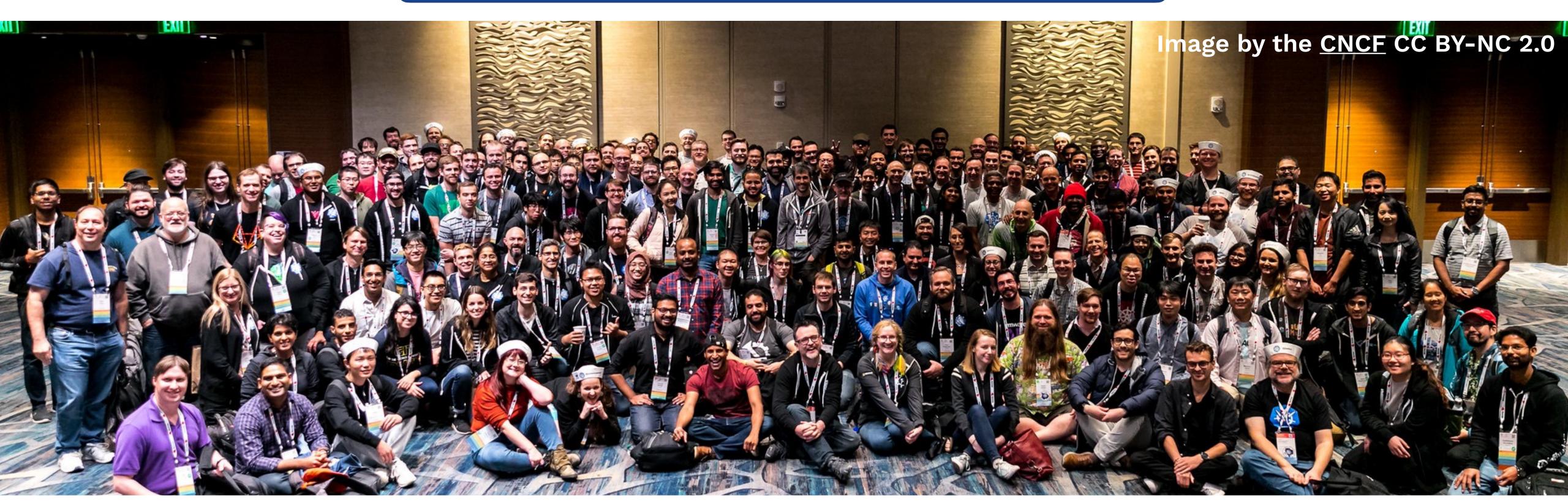
contribute.cncf.io/maintainers/community/contributor-growth-framework/motivation



Governance is all about the Humans

Set expectations for how people collaborate & make decisions

contribute.cncf.io/maintainers/templates/governance-intro





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.





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



Onboarding Docs

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





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



Diversity, Equity and Inclusion

Build a welcoming and

inclusive community.

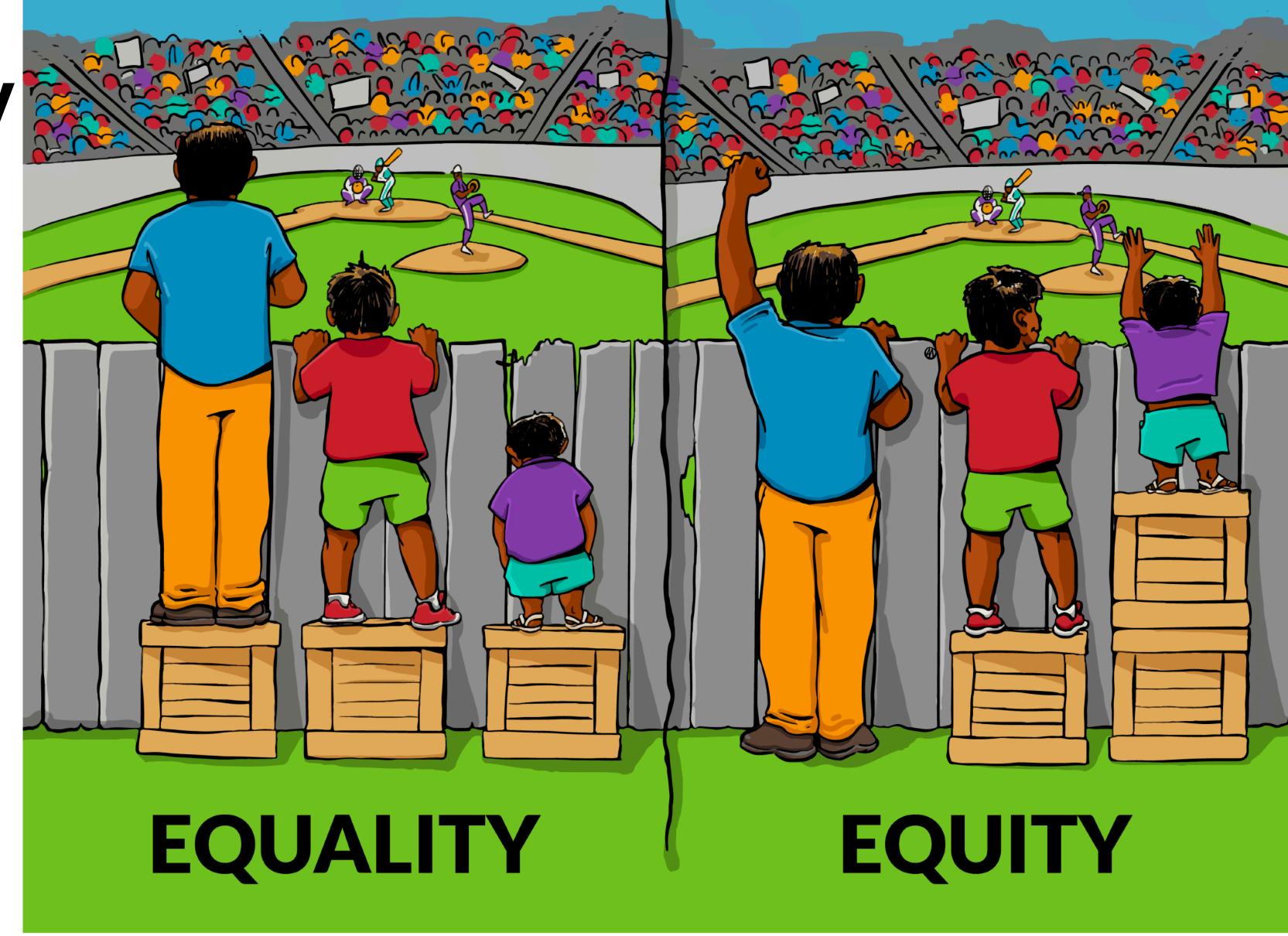


Image courtesy of the <u>Interaction Institute for Social Change</u> | Artist: <u>Angus Maguire</u>.



Diversity, Equity and Inclusion

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

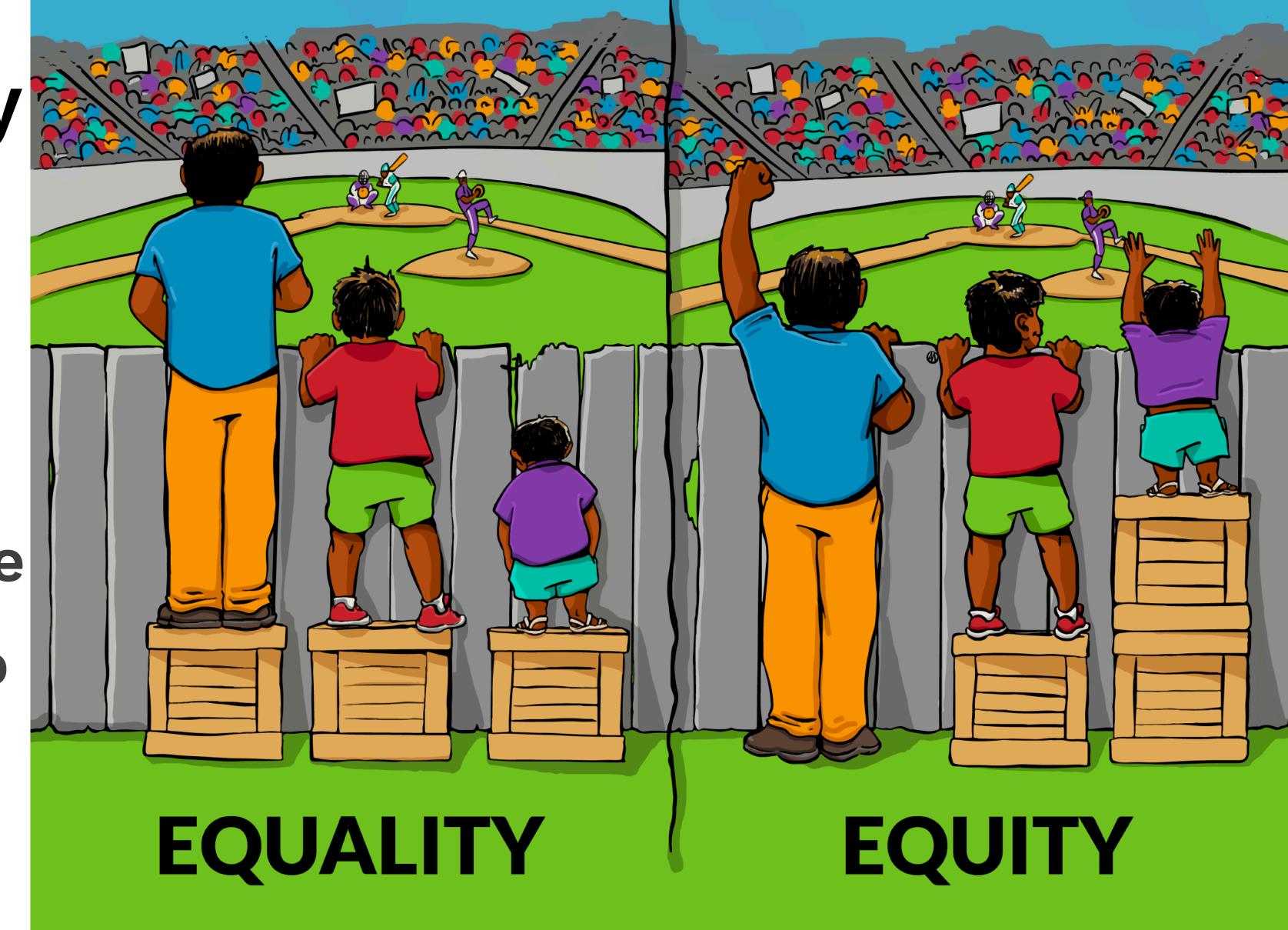


Image courtesy of the Interaction Institute for Social Change | Artist: Angus Maguire.



Contributor Ladders

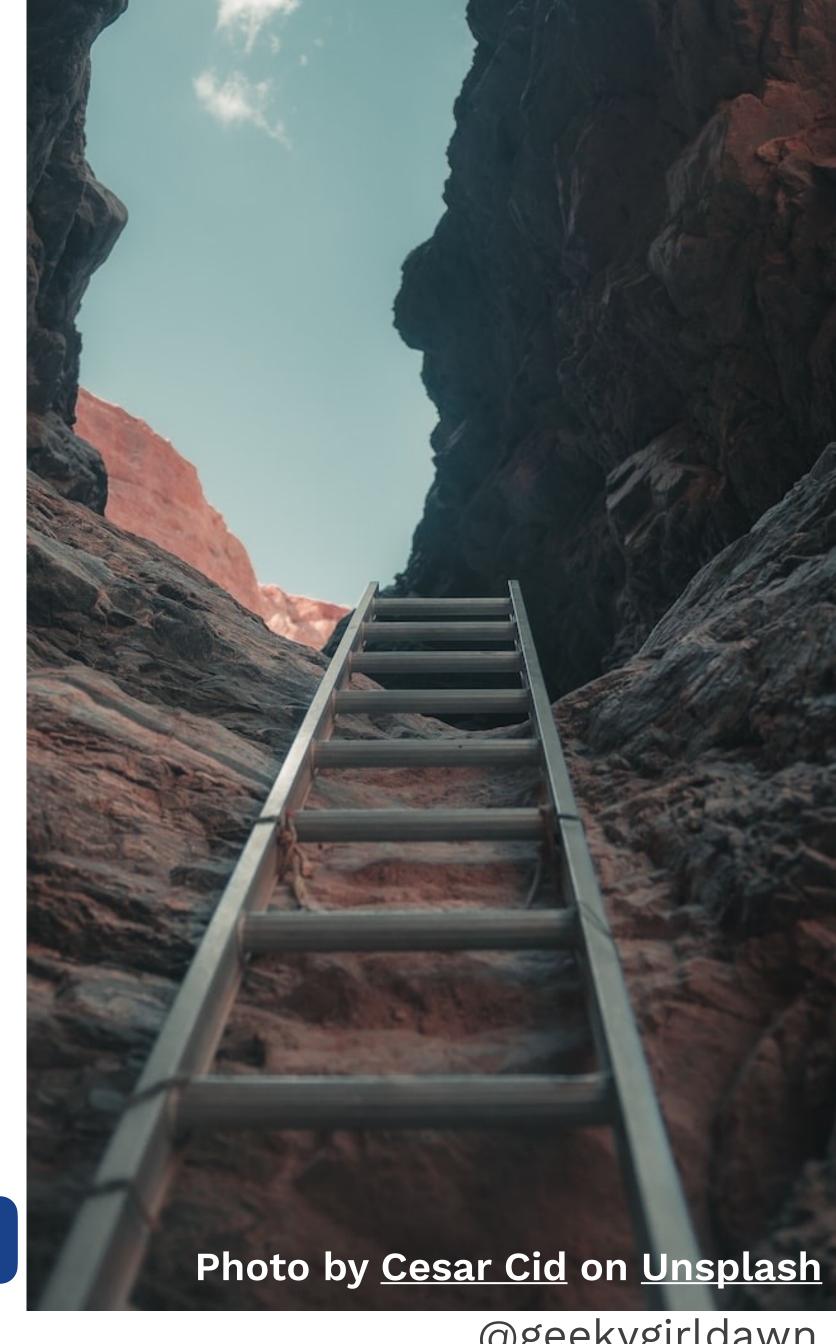
and Leadership





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



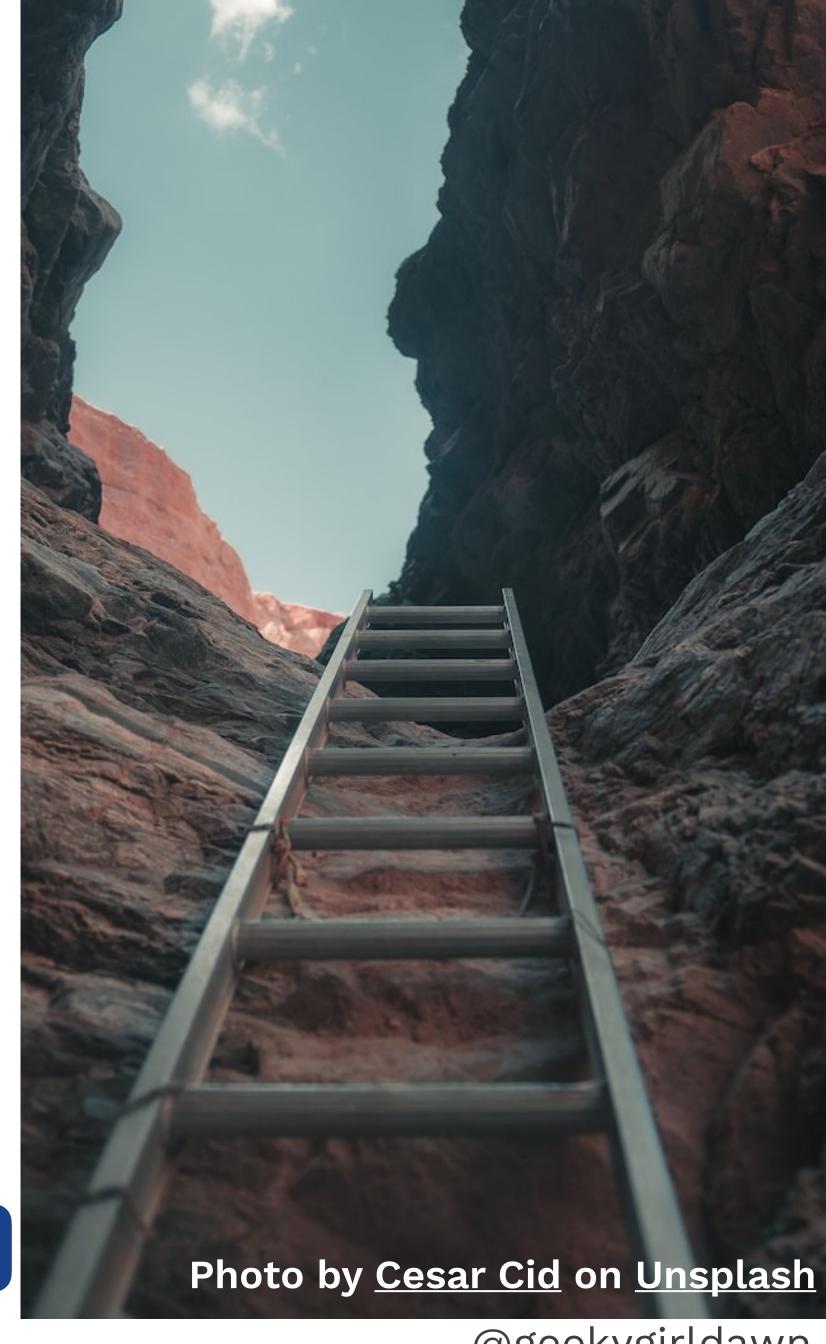
Contributor Ladders

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









Leadership

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





Leadership

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





Mentoring

Help the humans become more productive contributors.





github.com/cncf/mentoring



Mentoring

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



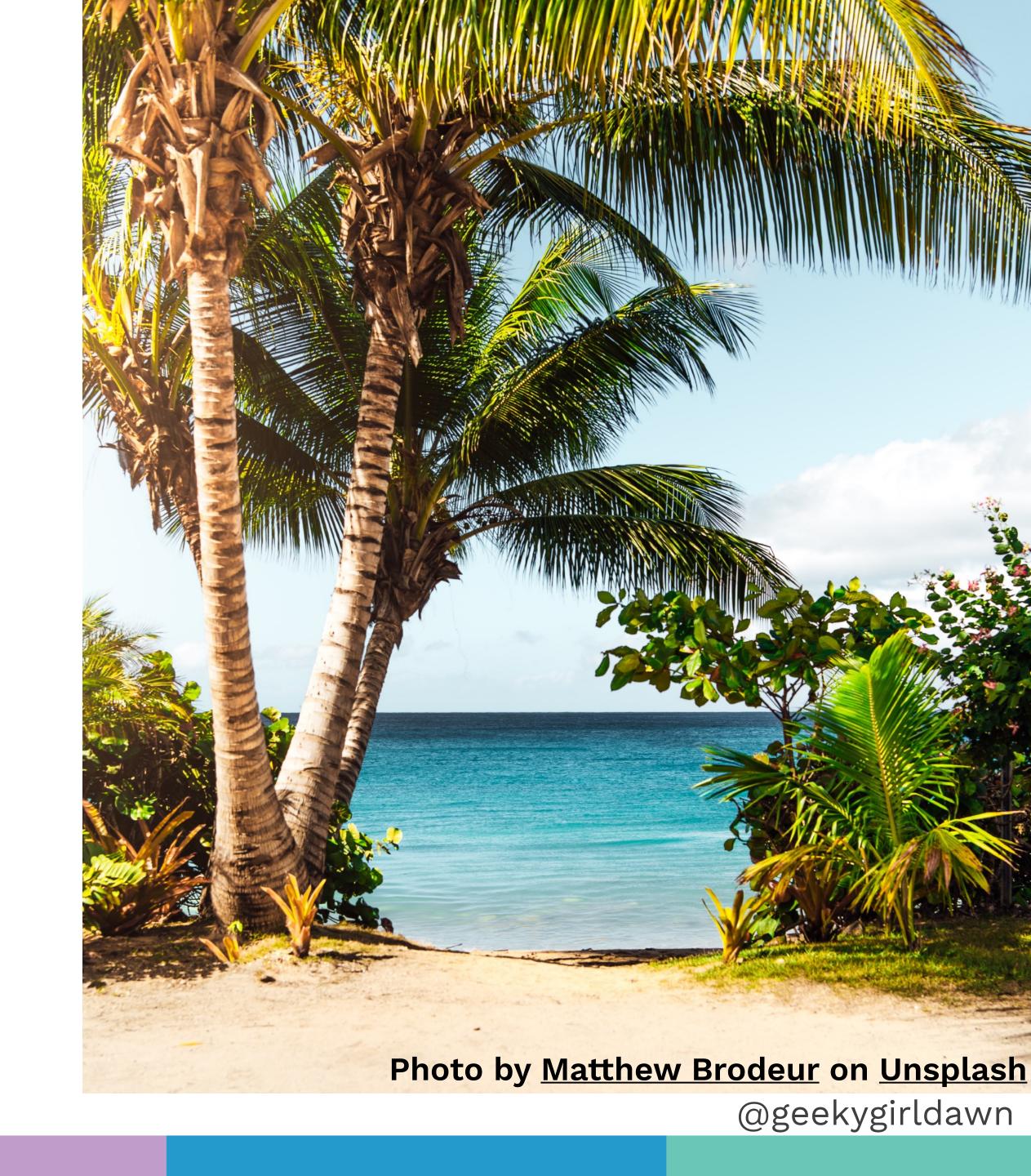


github.com/cncf/mentoring



Emeritus as a Goal

Set your project up for success after maintainers move on.





Emeritus as a Goal

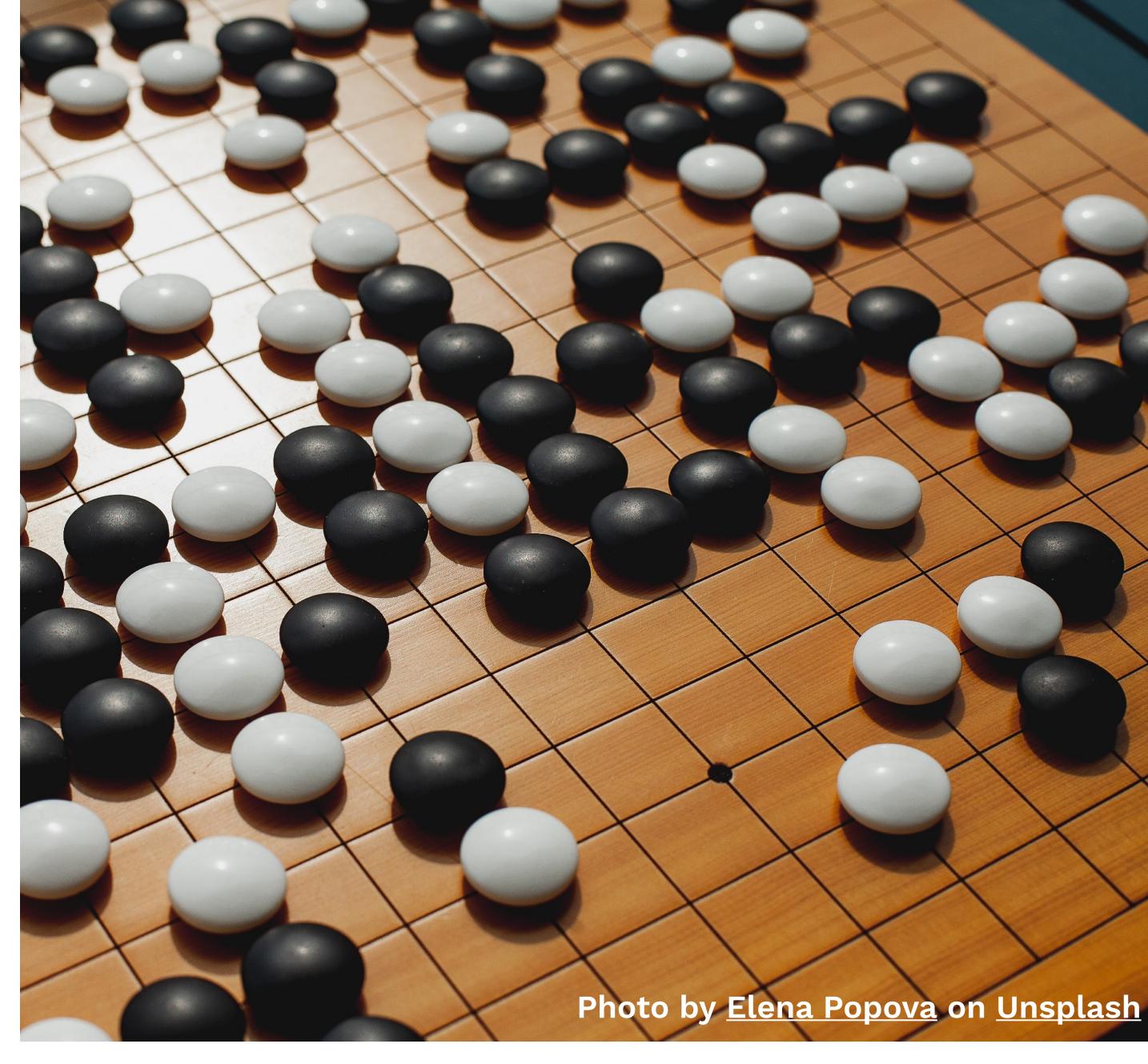
Action: Be proactive about promoting new humans so that maintainers can move into emeritus roles.





Be Strategic

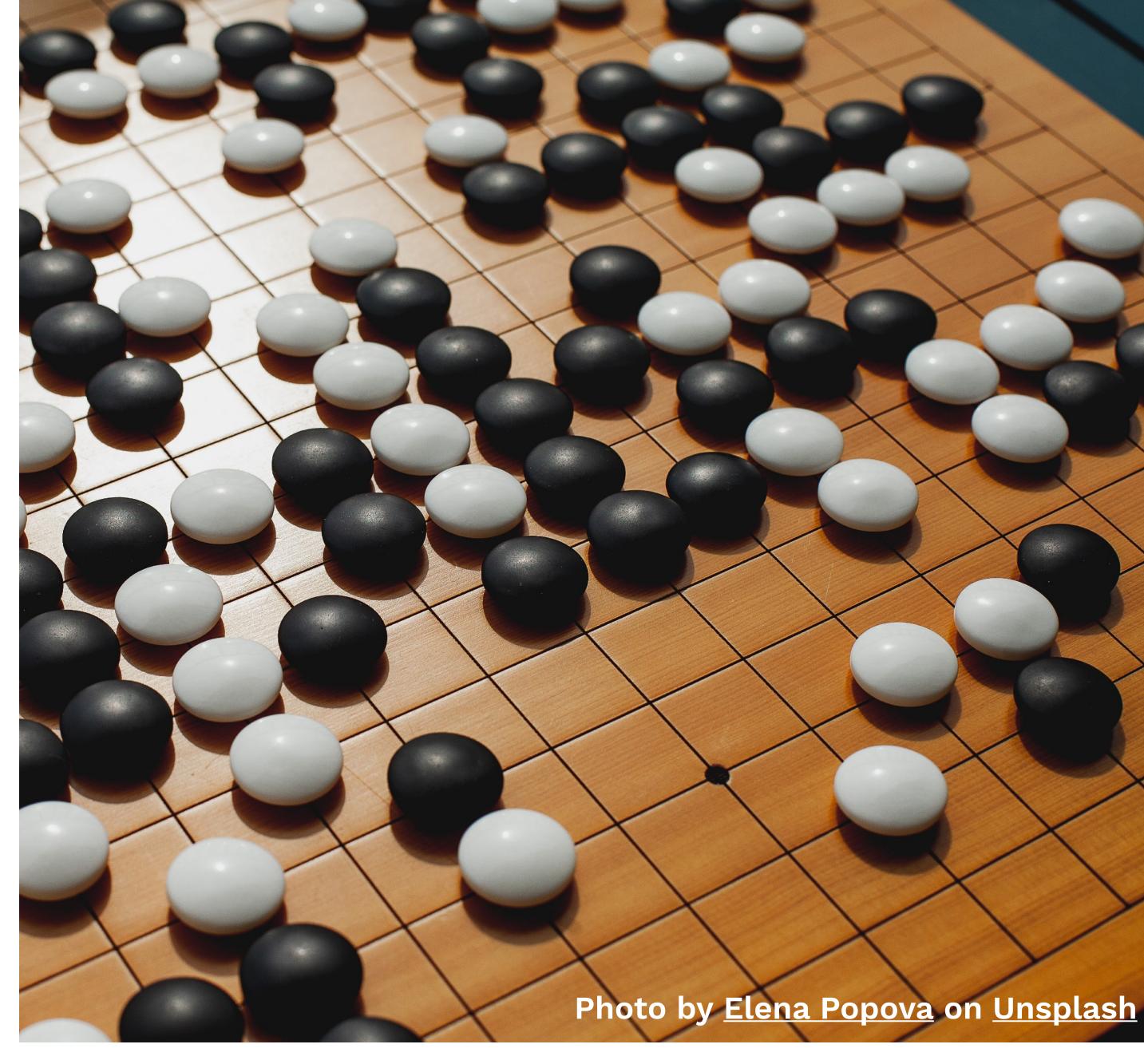
Think about where you can best spend your time to grow your contributor base.





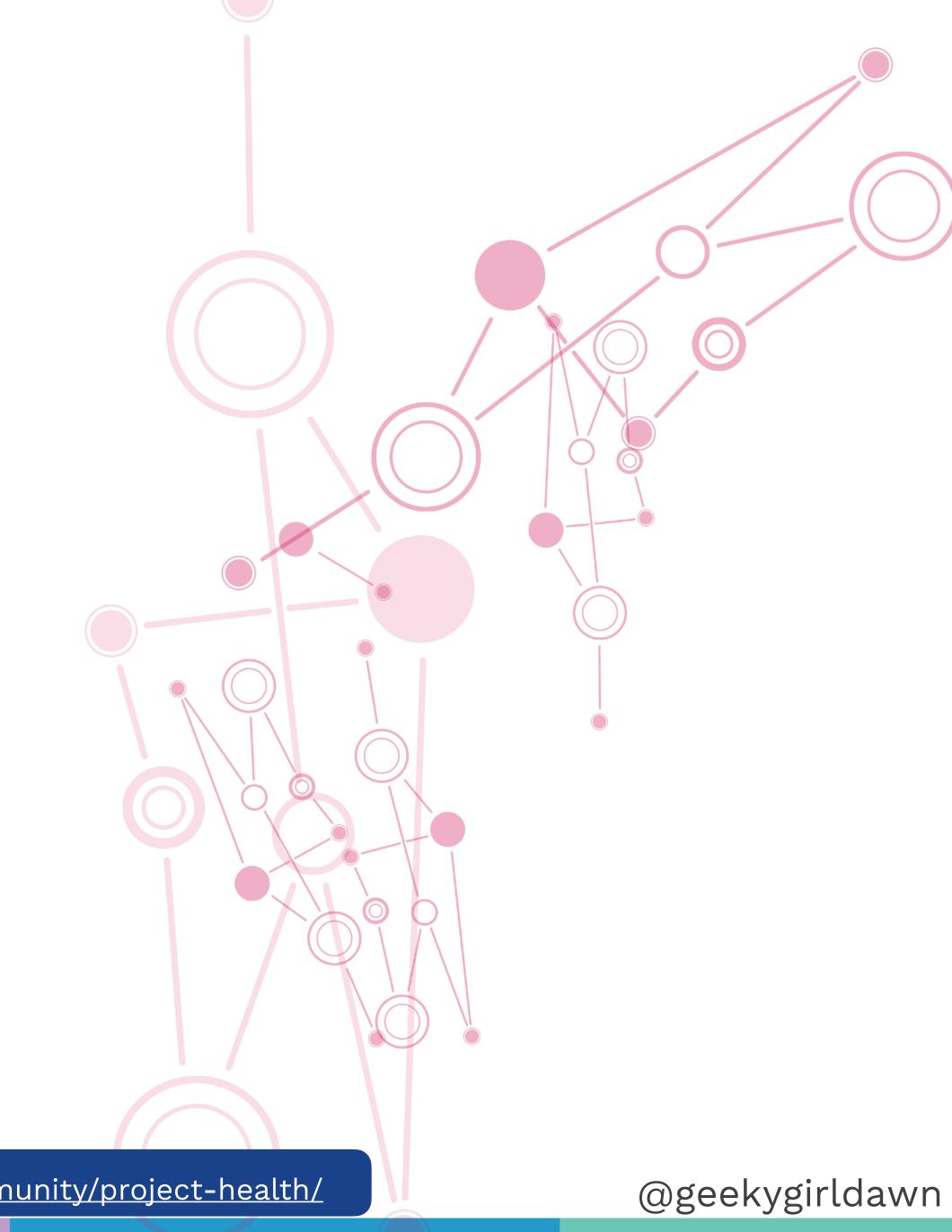
Be Strategic

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





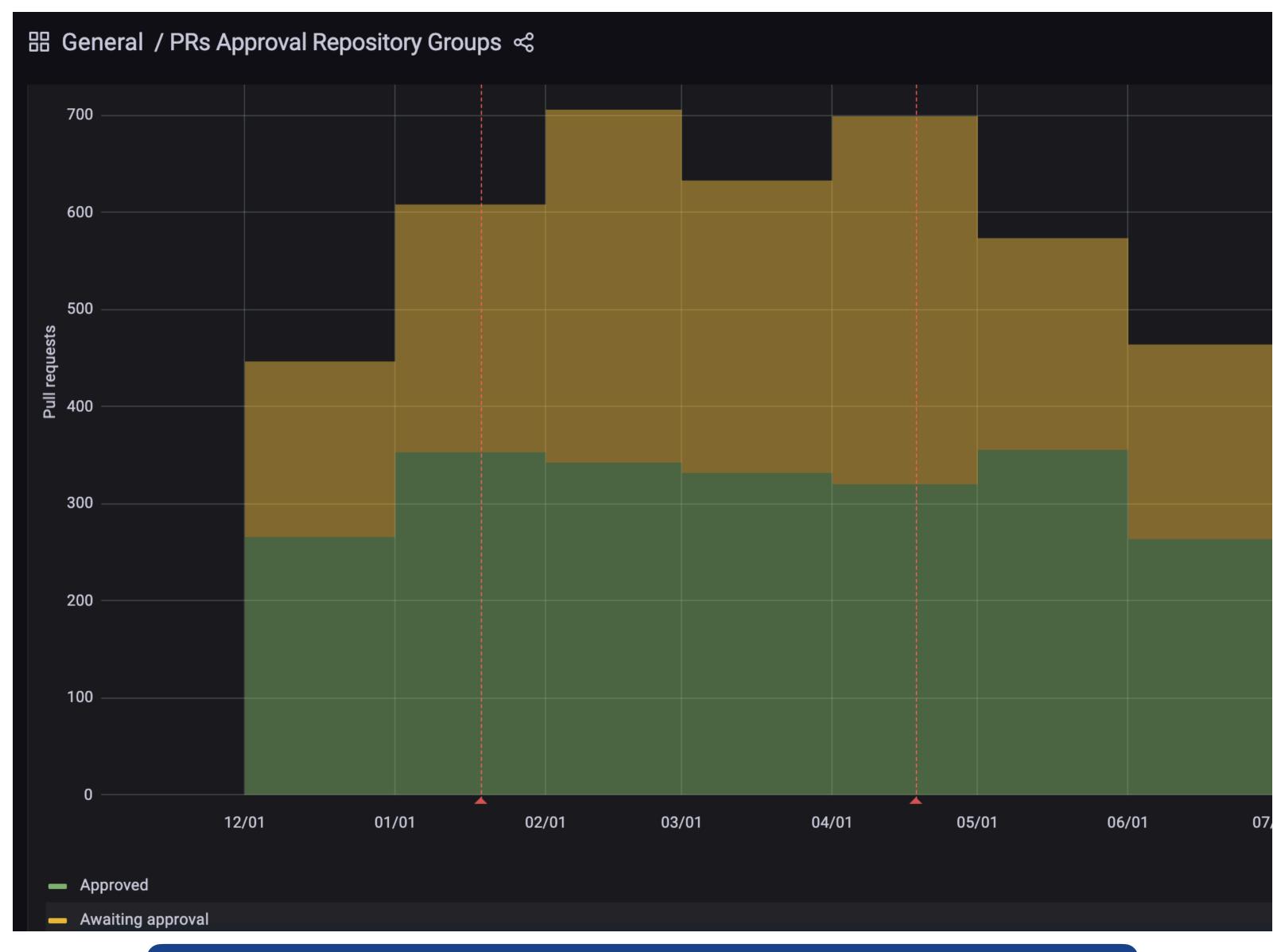
Measuring Project Sustainability







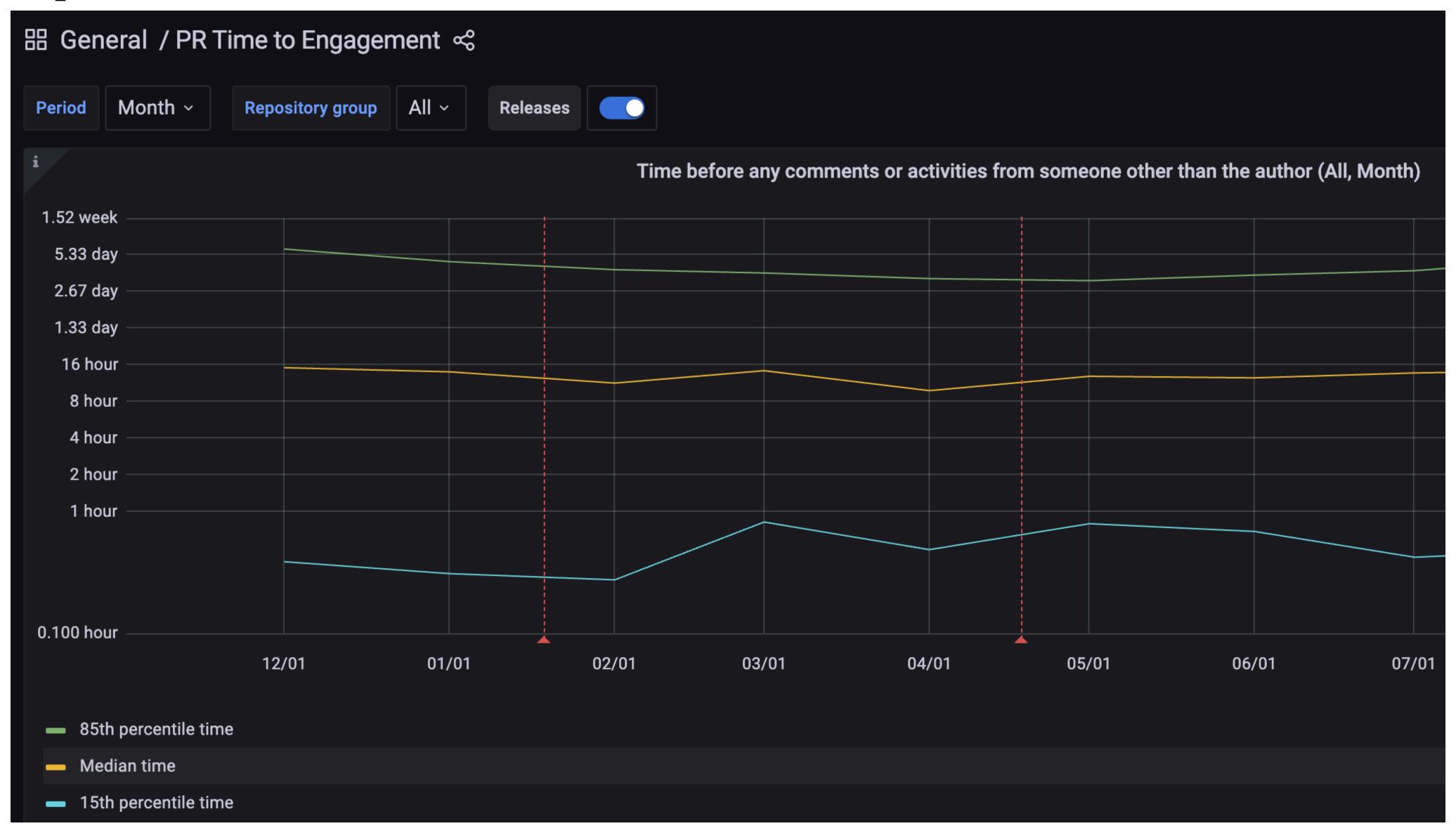
Responsiveness







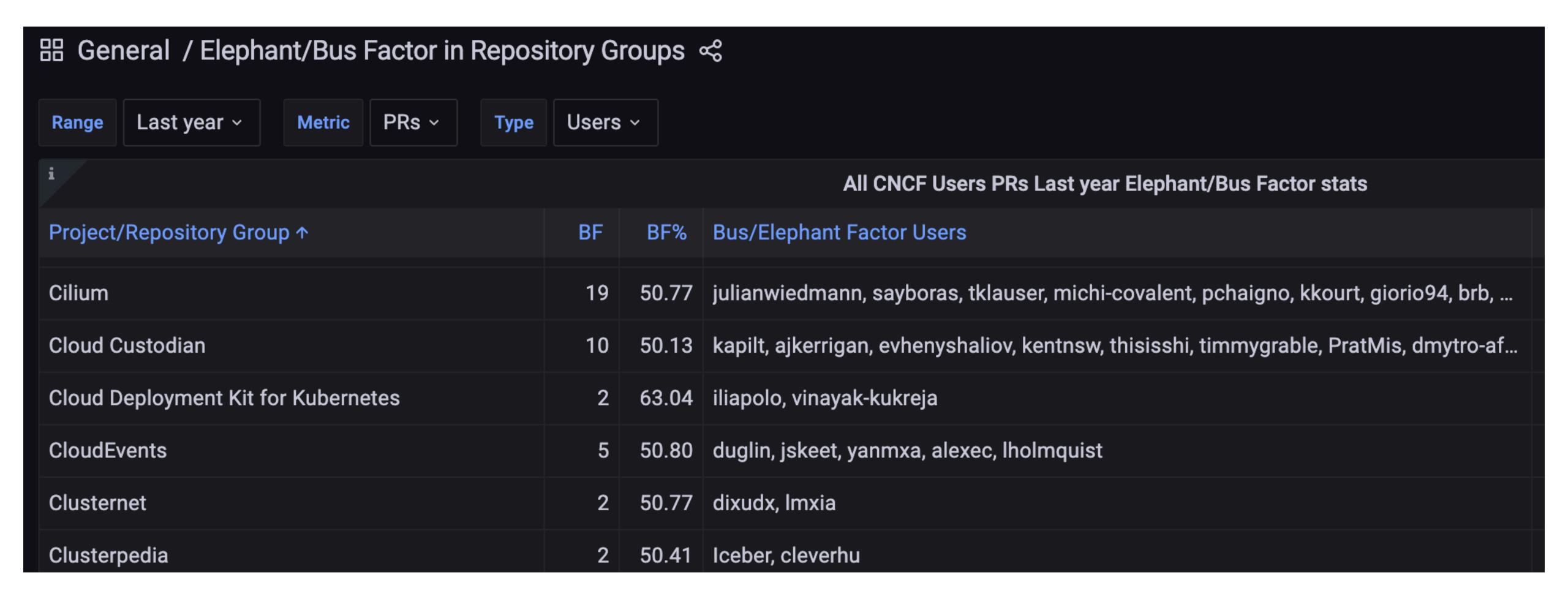
Responsiveness







Responsiveness











CNCF TAG Contributor Strategy Needs more Humans

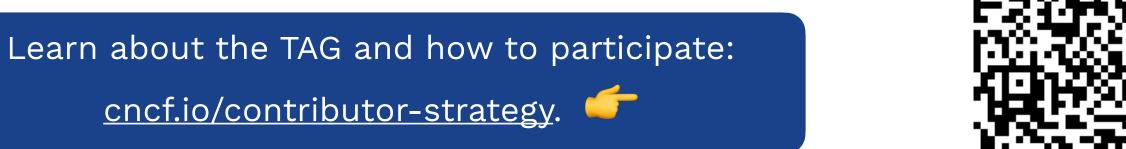
Join our Slack channel

#tag-contributor-strategy (CNCF Slack)

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

Drop in to our **meetings**

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









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://github.com/chaoss



https://github.com/geekygirldawn

@geekygirldawn



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