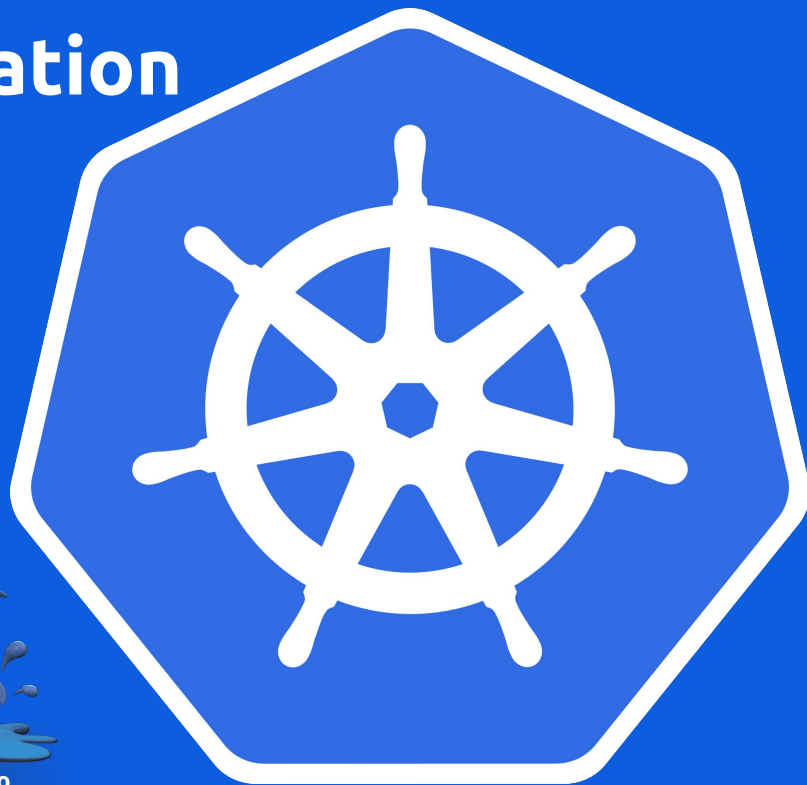


Kubernetes

New Contributor Orientation

September 2024



Phippy & Friends are Open Source (CC-BY) CNCF mascots. Learn more at: <https://phippy.io>

Housekeeping

- This meeting is recorded and will be published on YouTube.
- This meeting abides by a [Code of Conduct](#).
- Please **use the chat to ask questions** throughout!
 - There will be a chance to ask questions verbally at the end.
- You can find these slides at **[insert repo/drive link here]**

<https://kubernetes.io/community/code-of-conduct/>

Agenda

This meeting is meant to **orient** you in the Kubernetes community.

Presentation (40 min)

- Welcome to Kubernetes!
- What is Kubernetes?
- Kubernetes Community Structure
- What does it mean to be a “Contributor”?
- How to Start Contributing
- Current Work Opportunities
- Contribution Pitfalls

Q&A (20 min)

- 10min recorded
- 10min unrecorded
- Ask Us Anything!



Today's Hosts (AMER)



Kaslin Fields

SIG ContribEx Co-Chair
Comms Subproject Co-Lead
CNCF Ambassador

Today's Hosts (EMEA/APAC)



Mario Fahlandt

Comms Subproject Tech Lead

Today's Hosts (EMEA/APAC)



Mario Fahlandt

SIG K8s Infra
SIG ContribEx



Name

Kubernetes Org Member
Subproject/SIG



Name

Kubernetes Org Member
Subproject/SIG



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Today's Hosts (AMER)



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Subproject/SIG

Meet Kubernetes!





Kubernetes Contributor Summit NA 2023

Community Snapshot - March 2024



86.6K

Contributors

4.13M

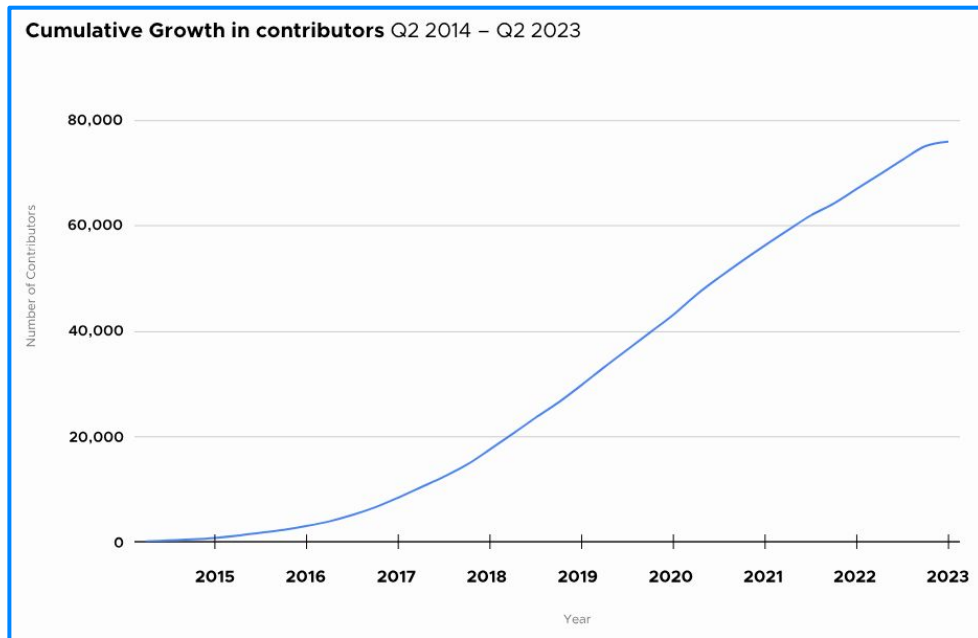
Contributions

6.5K

Reviewers

Stats from [Kubernetes Devstats](#), March 15 2024

Community Snapshot - March 2024



Graph from the [2023 Kubernetes Project Journey Report](#)

What is Kubernetes?

(Koo-bur-neh-tees)

Open-Source Project

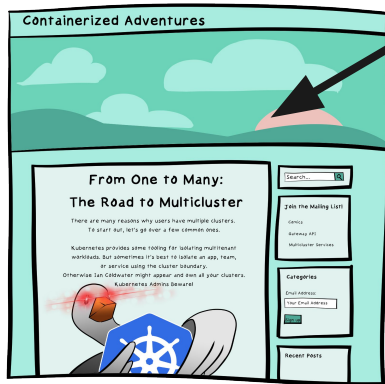
The open source project is hosted by the Cloud Native Computing Foundation (CNCF).

Kubernetes is the second-largest open-source project in the world after Linux.

Container Orchestration Platform

Kubernetes, also known as k8s, is an open source container orchestration engine for automating deployment, scaling, and management of containerized applications.

Kubernetes in a Nutshell



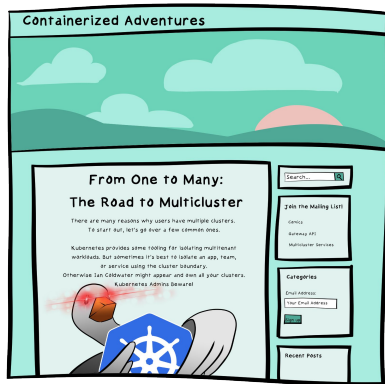
Businesses have a lot of apps they need to run, like:

- Websites, wikis
- HR/Payroll applications
- Inventory Management Applications
- etc

App

(The thing you want to run)

Kubernetes in a Nutshell



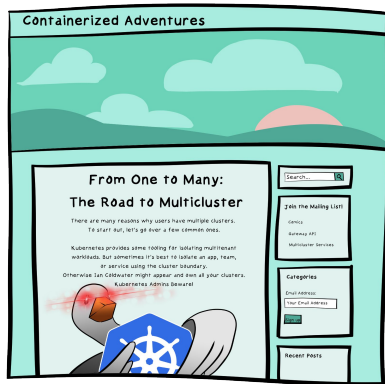
App

(The thing you want to run)

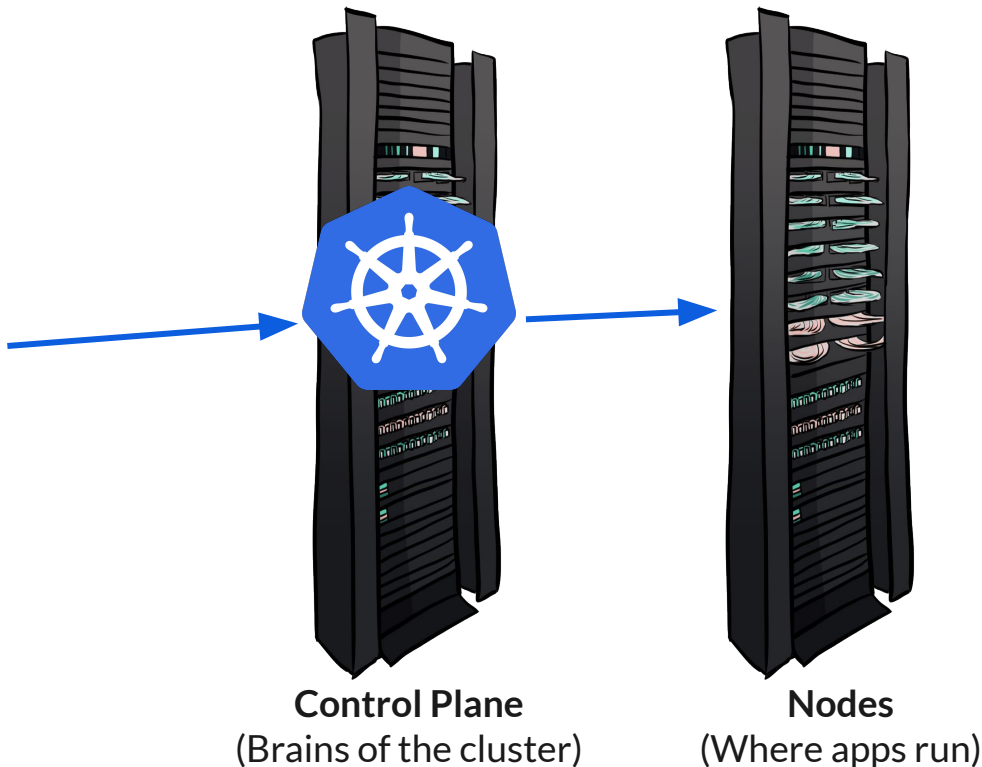


Businesses also have a lot of computers to run these applications on.
(Yes, these are computers.)

Kubernetes in a Nutshell



App
(The thing you want to run)



Kubernetes Community Structure



Community Structure



- The Foundation which Kubernetes is part of.
- Non-Profit Organization
- Provides/manages funding & various guidance & services

Steering Committee

- 7 Members
- Elected by Kubernetes Org Members
- Interfaces with CNCF
- Whole-Project Scope

SIGs / WGs Special Interest / Working Groups

- Work Areas within Kubernetes
- IE. Networking, Release, Docs, etc.
- SIGs = constant
- WGs = topical/temporary

Subprojects

- Created by SIGs.
- Groups that execute on specific work/projects.

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Kubernetes Community Structure



24

Special Interest Groups

7

Working Groups

3

Committees

Kubernetes Community Structure

Project

Does work that affects/supports the entire project.
Collaborates with all other groups.
All other groups depend on the work of these groups.

Horizontal

Has deep, broad technical focus.
Owns core functionality from a project architecture perspective.
Depends on the work of the “Project” groups.

Vertical

Has deep, specific technical focus.
Depends on work of the “Horizontal” and “Project” groups.

Key

SIG

Working Group

Kubernetes Community Structure

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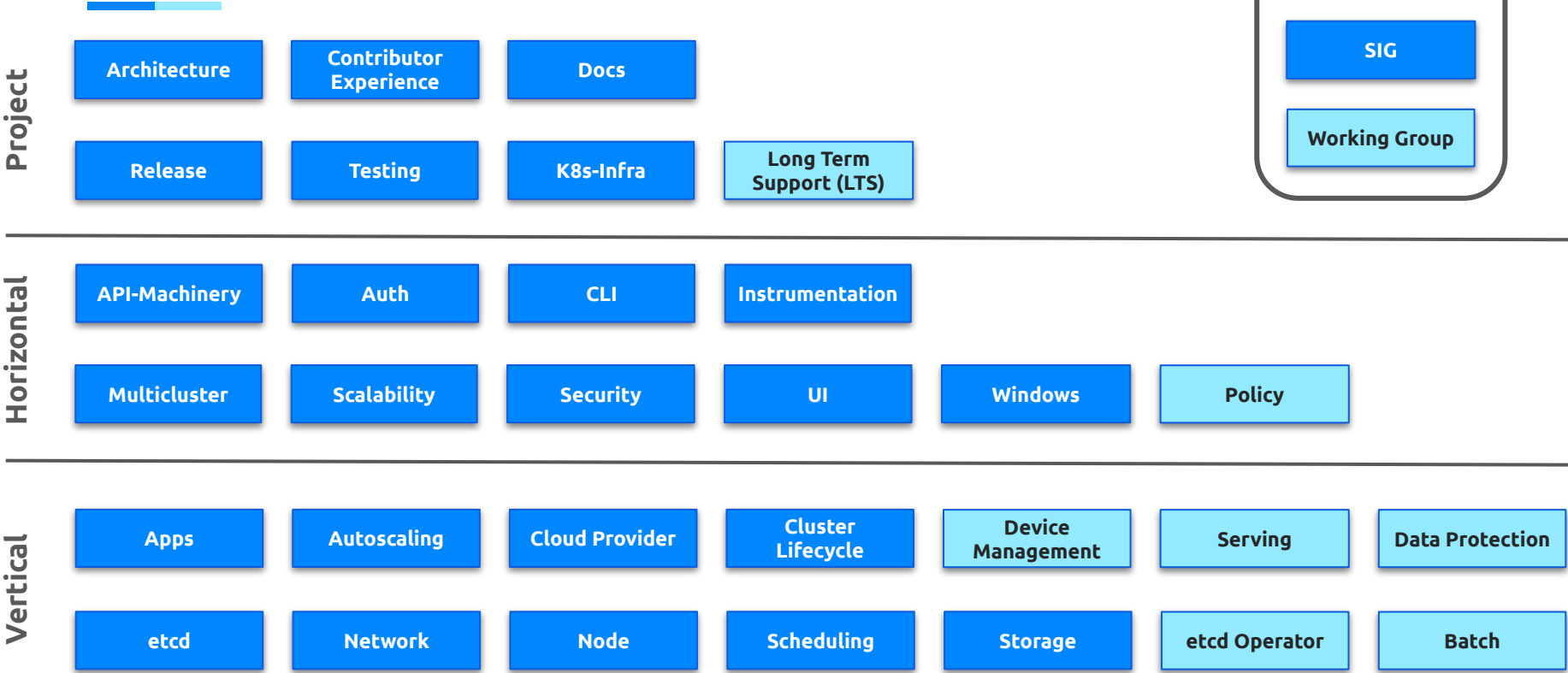
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Key

SIG

Working Group

Kubernetes Community Structure



Kubernetes SIGs

September 2024

| | | | | |
|---------------|-----------------|-------------------|------------------------|-------------|
| API-Machinery | Apps | Architecture | Auth | Autoscaling |
| CLI | Cloud Provider | Cluster Lifecycle | Contributor Experience | Docs |
| etcd | Instrumentation | K8s-Infra | Multicluster | Network |
| Node | Release | Scalability | Scheduling | Security |
| Storage | Testing | UI | Windows | |

Kubernetes WGs

| | | | | |
|-------------------|---------------|-----------------------|-----------------|---------|
| | | Batch | Data Protection | |
| Device Management | etcd Operator | LTS Long Term Support | Policy | Serving |

Why Contribute?

There are many reasons to contribute!



- Your job requires it
- Grow specific career-related skills
- Network & make connections with other professionals
- Cool Technology
- Enjoy being part of the community

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- Your job requires it
- Grow specific career-related skills
- Network & make connections with other professionals
- Cool Technology
- Enjoy being part of the community

Think carefully about why you want to contribute!

**What does it mean to be a
“Contributor”?**



What Counts as a “Contribution”?



What Counts as a “Contribution”?



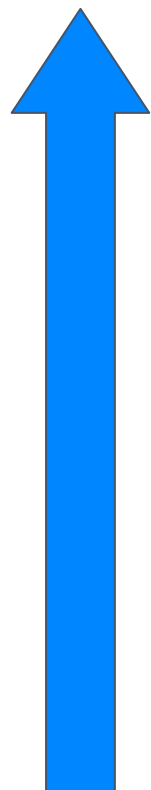
Any work that you do to support the open source
Kubernetes project!

What Counts as a “Contribution”?



- Taking notes during a community meeting
- Asking a question on Slack
- Correcting a grammatical or spelling error in documentation
- Implementing a new feature, or part of a feature
- Commenting on a KEP (Kubernetes Enhancement Proposal) or issue
- Filing an issue
- Writing a blog post
- Helping a fellow contributor work through a problem
- ... and much more!

The Contributor Ladder



SIG Chair / Tech Lead

- Set priorities and manage the SIG and its subprojects
- Interface with the Steering Committee

Subproject Lead

- Set priorities and approve proposals for subproject
- Responsibility & leadership for entire project across all repos/directories

Subproject Owner

- Subject matter expert for repository/directory
- Highly experienced, aids in triage & mentorship for scoped area

Approver

- Approve contributions for acceptance
- Highly experienced reviewer and contributor in subproject

Reviewer

- History of reviewing; reviews frequently
- Authorship in subproject

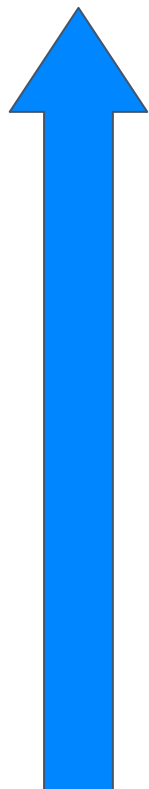
Member

- Active contributor to the project
- Sponsored by two Reviewers

**You
Are
Here**

Non-member Contributors

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You'll be ready for **Org Membership** when the contributors you work with know your work and will vouch for you as sponsors.

for repository/directory
in triage & mentorship for scoped area

for acceptance
reviewer and contributor in subproject

reviews frequently

Reviewer

- Authorship in subproject

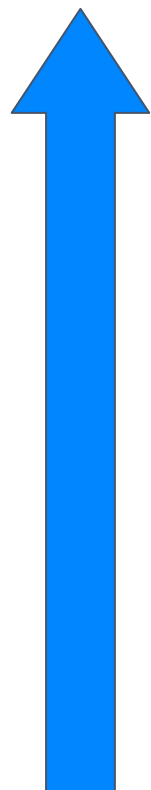
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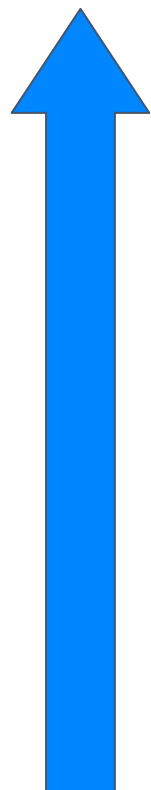
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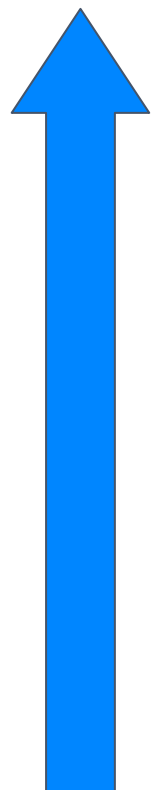
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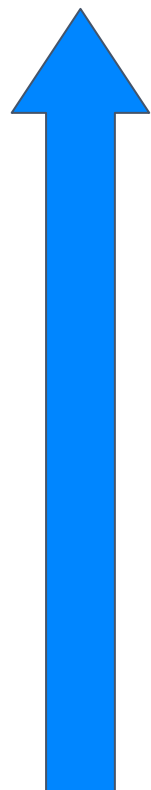
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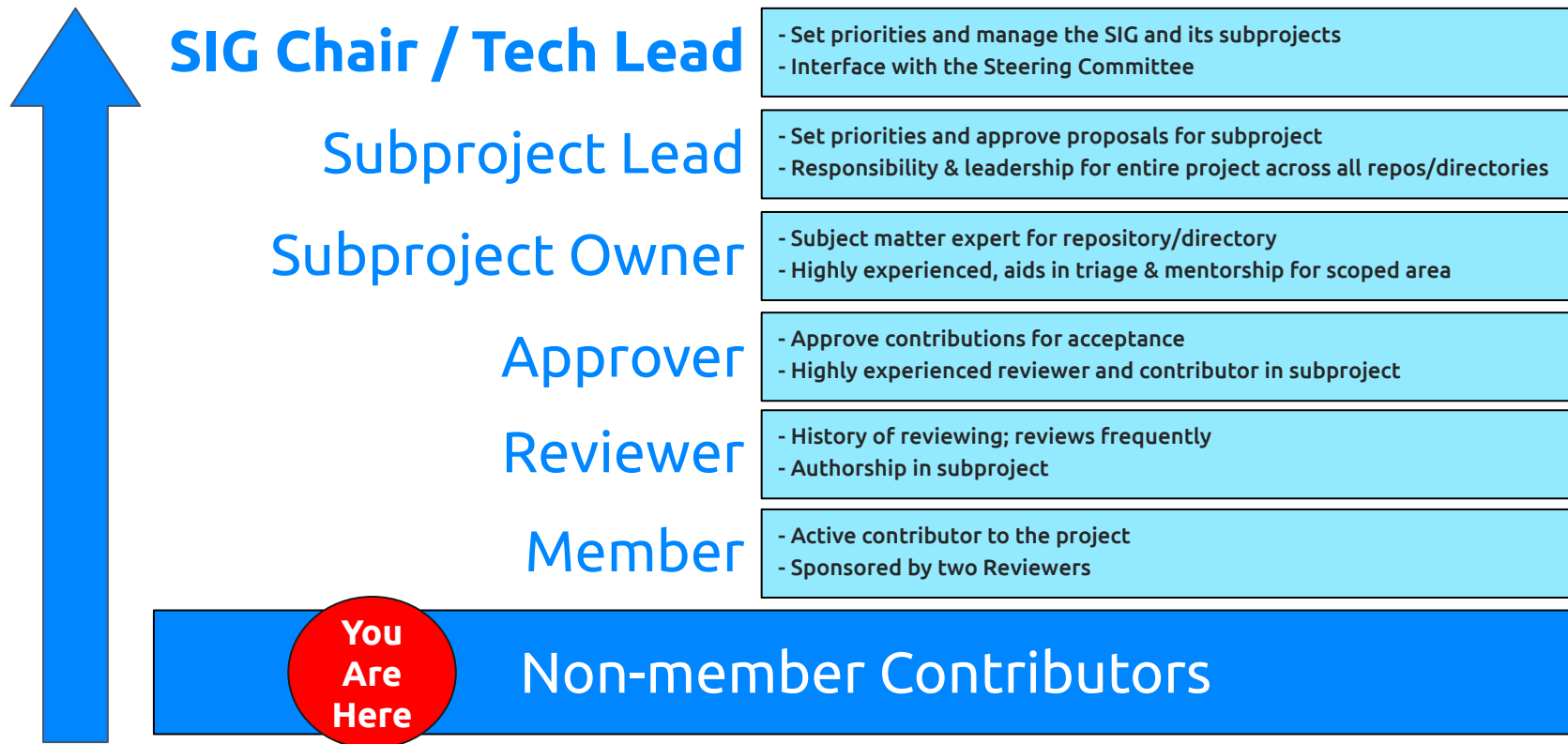
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Are
Here

Non-member Contributors

The Contributor Ladder



You're not tied to one SIG or Project!



The ladder represents how ownership might build, but
paths are not always so linear!

How to Start Contributing



Just Join a SIG!



The fastest way to learn and make yourself useful is to find a SIG and/or subproject you're interested in, start attending meetings, and KEEP attending meetings.

Join the Kubernetes Slack & the K-Dev mailing list!



The Kubernetes Slack is the primary way the community communicates casually.

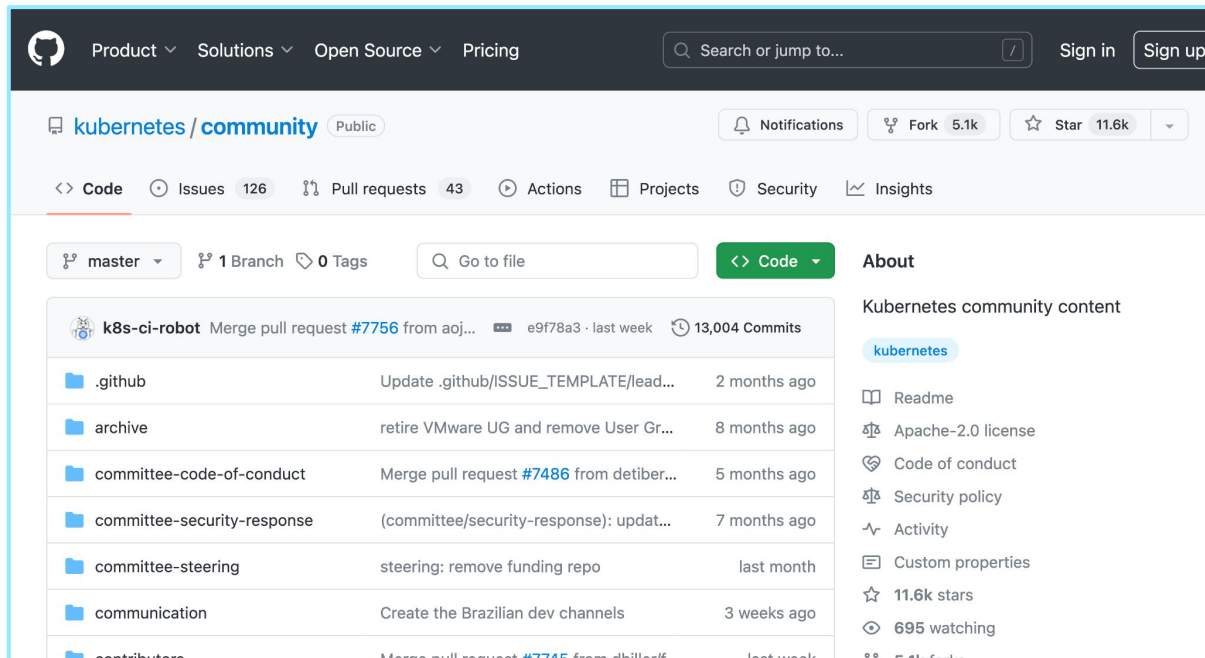
<https://slack.k8s.io>

The Kubernetes Developer Google Group is the primary way the community shares announcements <https://groups.google.com/a/kubernetes.io/g/dev>

How to Learn About SIGs



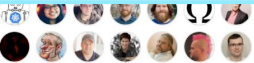
Find Info About All the SIGs & WGs in k/community



<https://git.k8s.io/community>


Find Info About All the SIGs & WGs in k/community

| | | |
|----------------------------|--|-------------|
| sig-api-machinery | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-apps | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-architecture | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-auth | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-autoscaling | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-cli | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-cloud-provider | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-cluster-lifecycle | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-contributor-experience | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-docs | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-etcd | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-instrumentation | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-k8s-infra | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-multicluster | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-network | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-node | generate 2023 Annual Report boilerplates | 2 weeks ago |
| sig-release | generate 2023 Annual Report boilerplates | 2 weeks ago |



+ 1,265 contributors

Languages



- Jupyter Notebook 51.9%
- Python 24.6%
- Go 18.8%
- Shell 4.2%
- Other 0.5%

<https://git.k8s.io/community>

Example SIG Repo Walkthrough

What
does the
group
do?

README.md



Contributor Experience Special Interest Group

Developing and sustaining a healthy community of contributors is critical to scaling the project and growing the ecosystem. We need to ensure our contributors are happy and productive, and that there are not bottlenecks hindering the project in, for example: feature velocity, community scaling, pull request latency, and absolute numbers of open pull requests and open issues.

The [charter](#) defines the scope and governance of the Contributor Experience Special Interest Group.

Meetings

Joining the [mailing list](#) for the group will typically add invites for the following meetings to your calendar.

- Regular SIG Meeting: [Wednesdays at 9:00 PT \(Pacific Time\)](#) (Biweekly). [Convert to your timezone.](#)
 - [Meeting notes and Agenda.](#)
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- Regular SIG Meeting (APAC/J/NZ timezone friendly): [Wednesdays at 7:30 UTC](#) (Biweekly, interleaved with the Regular SIG Meeting). [Convert to your timezone.](#)
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Example SIG Repo Walkthrough

README.md



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When do they meet?

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Example SIG Repo Walkthrough

Leadership

Chairs

The Chairs of the SIG run operations and processes governing the SIG.

- Kaslin Fields ([@kaslin](#)), Google
- Nabarun Pal ([@palnabarun](#)), VMware

*Who are
the points
of contact?*

Technical Leads

The Technical Leads of the SIG establish new subprojects, decommission existing subprojects, and resolve cross-subproject technical issues and decisions.

- Madhav Jivrajani ([@MadhavJivrajani](#)), VMware
- Priyanka Saggu ([@Priyankasaggu11929](#)), SUSE

Example SIG Repo Walkthrough

Contact

- Slack: [#sig-contribex](#)
- [Mailing list](#)
- [Open Community Issues/PRs](#)
- GitHub Teams:
 - [@kubernetes/sig-contributor-experience](#) - General Discussion
 - [@kubernetes/sig-contributor-experience-leads](#) - Chairs and Technical Leads
 - [@kubernetes/sig-contributor-experience-pr-reviews](#) - PR Reviews
- Steering Committee Liaison: Bob Killen ([@mrboobytables](#))

Join by visiting
slack.k8s.io!

*How do I
reach out?*

Example SIG Repo Walkthrough

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Join for announcements,
the SIG calendar, & access
to some docs.

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Google Group (k-dev)!

[https://groups.google.com/a/kubernetes.io/g/
dev](https://groups.google.com/a/kubernetes.io/g/dev)

Where to Find SIG Meetings - k8s.dev/calendar

 KUBERNETES CONTRIBUTORS

WelcomeBlogDocumentationCommunityResourcesEventsSearch this site...

Search this site...

Resources
Community Calendar
Services and Requests
Kubernetes 1.31
Release Information
Default Branch
Migration
Enhancements

Community Calendar

Meetings in the Kubernetes Community

Displayed times are in your local timezone

listdayweekmonth

Sep 1 – 7, 2024

<today>

| Monday, September 2, 2024 | |
|---------------------------|---|
| 7:00am - 7:25am | SIG autoscaling |
| 8:00am - 9:00am | SIG Docs Localization Subgroup Monthly Meeting |
| 9:00am - 10:00am | AWS Cluster API Meeting (bi-weekly) |
| 9:00am - 10:00am | KCSNA2024 Planning |
| 9:00am - 10:00am | Kubernetes SIG Apps |
| 9:00am - 9:30am | [sig-auth] Public Issues & PRs Triage |
| 1:00pm - 1:30pm | Deadline for SIG Testing agenda items |
| 3:00pm - 4:00pm | [SIG-NETWORK] Gateway API Meeting |
| 9:30pm - 10:30pm | Cluster API Provider for IBM Cloud Bi-Weekly Meetings |

Current Work Opportunities



Evergreen Opportunities



Most SIGs

- Meeting Note Taking
 - Always available
 - Subproject: Most that have meetings
 - No Experience Required
 - See the meeting invite/attend the meeting for details

SIG ContribEx

- SIG Spotlight Blog
 - Always available
 - Subproject: Comms
 - No Experience Required
 - More Info: [SIG Spotlight Blog Process](#)
- Kubernetes Contributor Summit Staff
 - 2x per year
 - Subproject: Events
 - Org Membership Required
 - More Info: [Events Team](#)

Evergreen Opportunities



SIG Docs

- PR Reviews - anyone can review
- New Contributor Meet & Greet
 - First Tuesday of the Month at 10:30 UTC
 - More info on [k/community/sig-docs](https://www.reddit.com/r/kubernetes/comments/sig-docs/)

Tasks with Skill Requirements



Can I pick up this task?

Often, the community needs help with important tasks that **require certain skills** to complete. If a task mentions required skills, that usually means the group **doesn't have someone who can teach you those skills**. Ask questions before picking up a task with skill requirements!

The following calls for help have skill requirements.

These tasks are not likely to be a good fit for you if you do not already have the requested skills.

Current Calls for Help



SIG ContribEx

- Website Maintenance
 - Help maintain k8s.dev
 - **Skills:** Knowledge of Hugo Docsy required
- Mentoring Program Management
 - NEW ! ○ Help setup, support and execute the Kubernetes group mentoring program.
 - **Skills:** Organization skills, planning, communications.
 - Help the community keep track of the various mentoring programs we work with (ie. LFX, Google Summer of Code, etc.)
 - **Skills:** Familiarity with the Kubernetes community (org membership?), program management, communications

Current Calls for Help



SIG Docs

- Blog Reviews
 - Help review proposed blog PRs
 - **Skills:** Familiarity with the [style guide](#), [content guide](#), [submitting a blog page](#), and [reviewing PR guide](#)

Common Contribution Pitfalls



The “Good First Issue Trap”

- Decide to Contribute
- Pick Up a “Good First Issue”
- ???
- Profit!!!

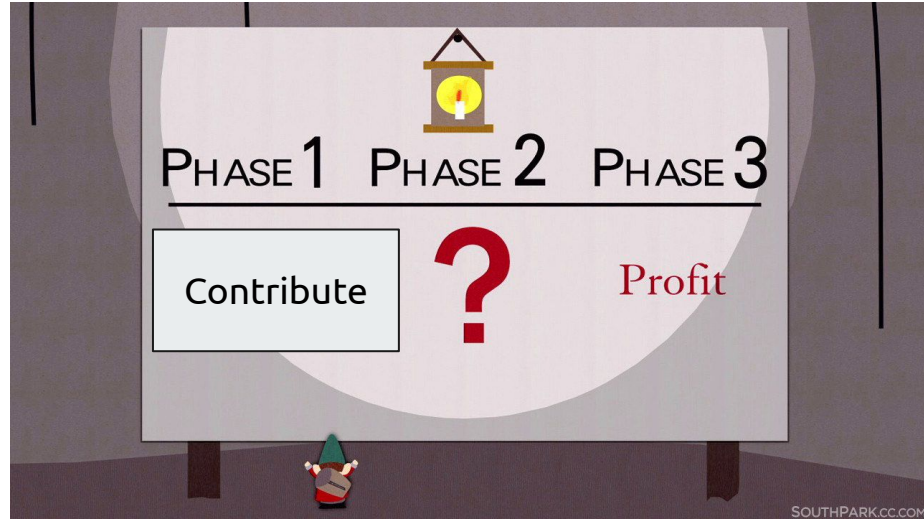
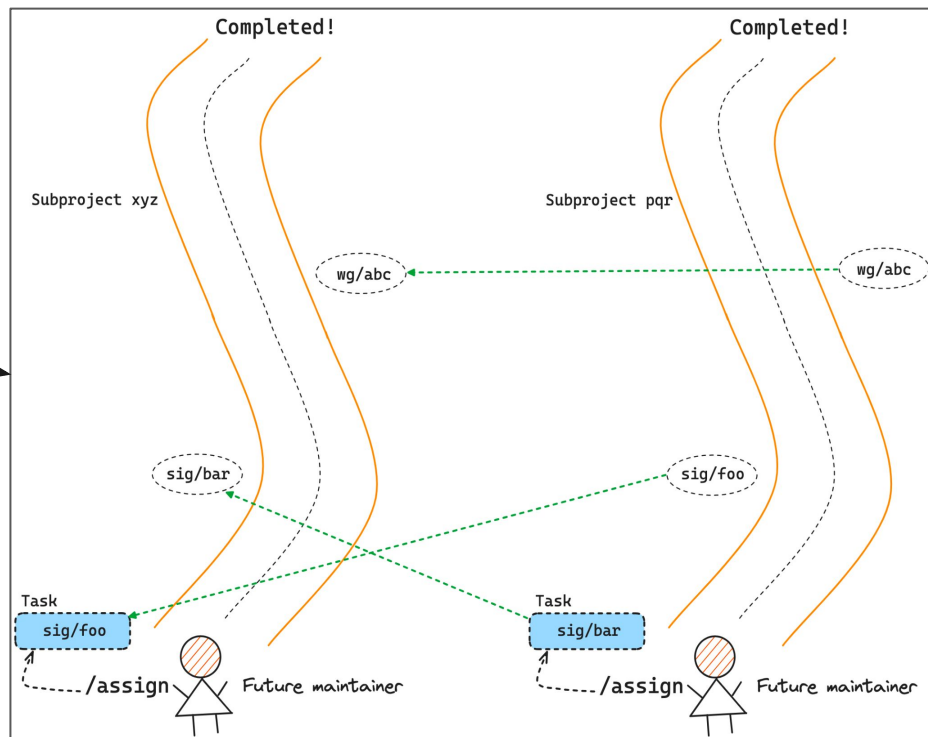


Image from: <https://knowyourmeme.com/memes/profit>

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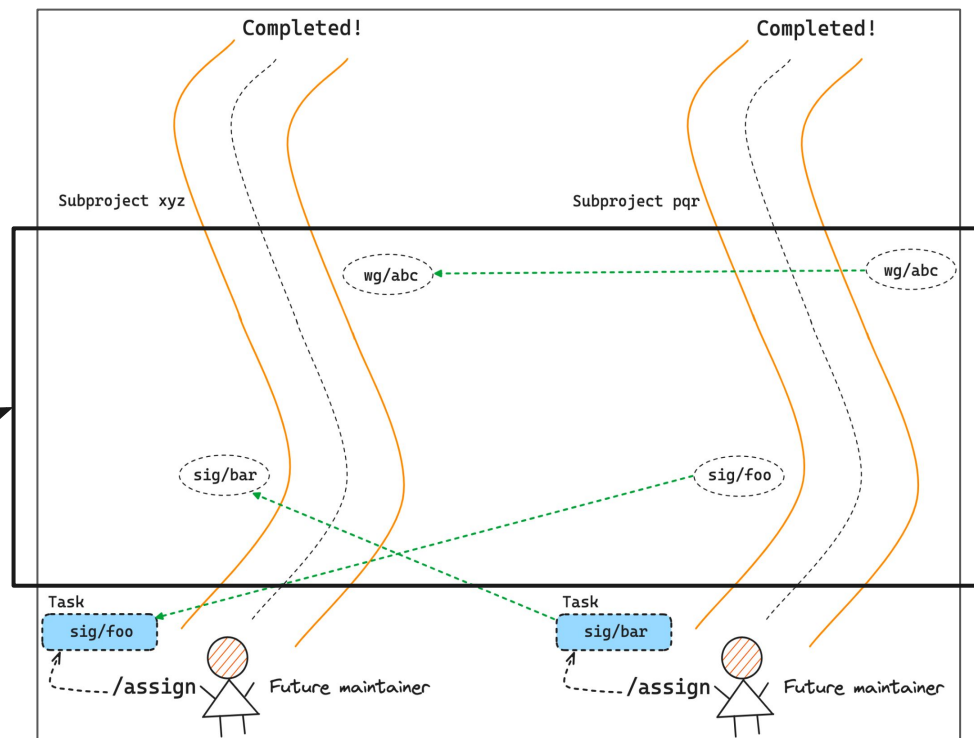


Often, more collaboration is required than you expect.

The “Good First Issue Trap”

- Decide to Contribute
- Pick Up a “Good First Issue”
- ???

Most new contributors get lost somewhere in here.



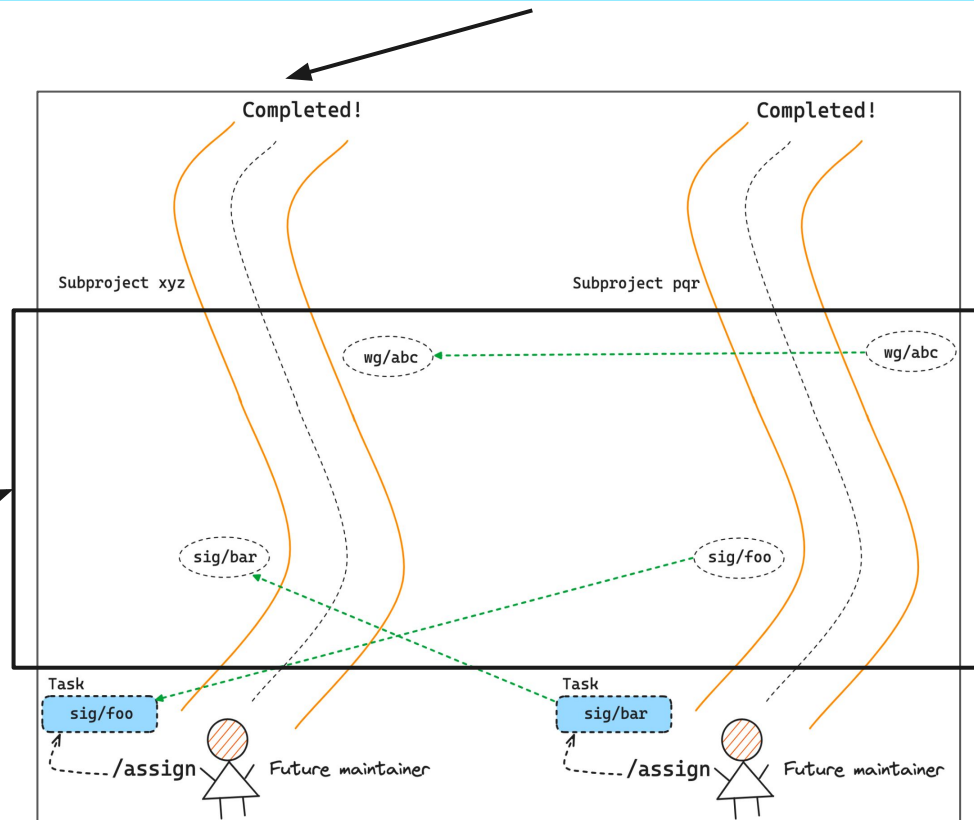
Often, more collaboration is required than you expect.

And never make it here.

The “Good First Issue Trap”

- Decide to Contribute
- Pick Up a “Good First Issue”
- ???

Most new contributors get lost somewhere in here.



Often, more collaboration is required than you expect.

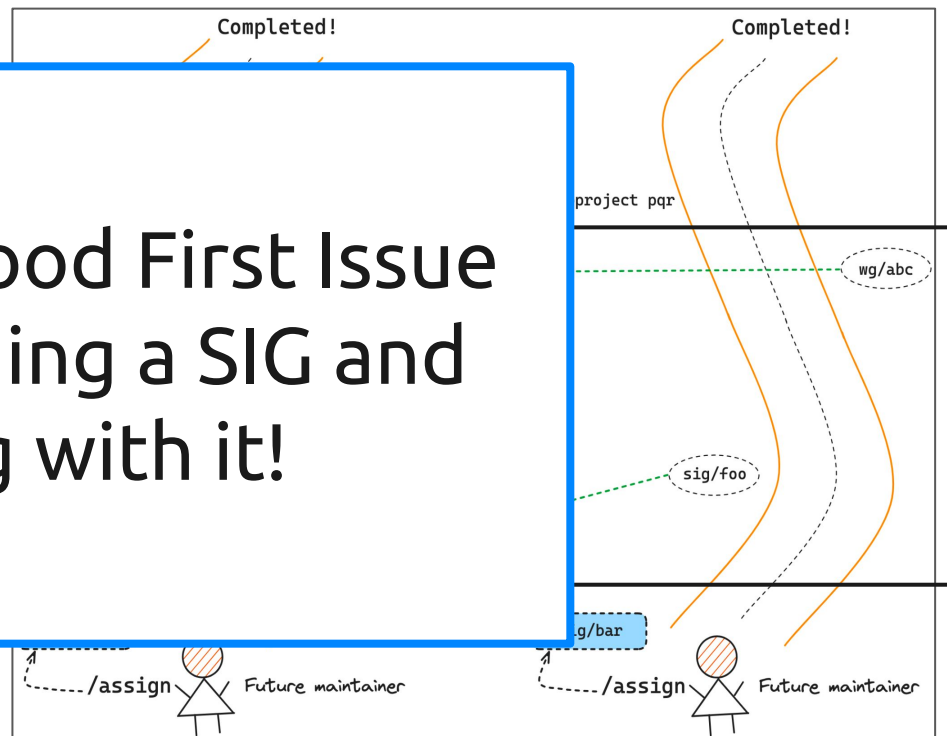
And never make it here.

The “Good First Issue Trap”

- Decide
- Pick U
- ???

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Avoid the “Good First Issue Trap” by joining a SIG and sticking with it!



Often, more collaboration is required than you expect.

Embracing The Entropy



If you're feeling overwhelmed, you're doing something right!

- Kubernetes has a lot of moving parts, and picking up a task that might seem tangible can also prove to be overwhelming! There are a few reasons:
 - Undocumented context
 - Alien terms and language
 - Long and multiple review cycles
- But there is good news: if you decide to embrace this entropy, the results of sticking around will compound.

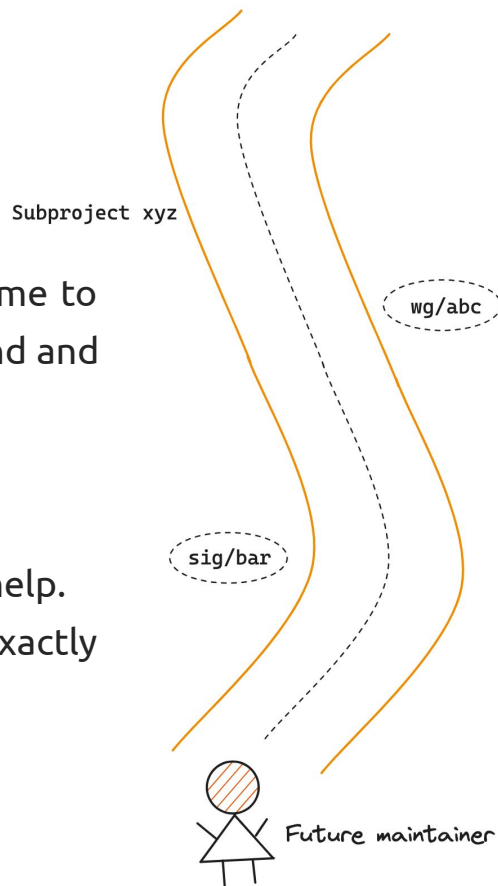
Finding Your Place in the Community

Law of Mobility!

As you're starting off in a large project like Kubernetes, it takes time to figure out what is the best fit for you, so take your time, float around and keep learning!

We need your help!

Regardless of your skillset or background, we could really use your help. We just might need to work together for a while to figure out exactly *how*.



Resources & Come Join Us!

- Join the Kubernetes Developer Google Group (k-dev): <https://groups.google.com/a/kubernetes.io/g/dev>
- Check out [kubernetes/community](https://kubernetes.io/community/) for an overview of our community.
- Follow the New Contributor Guide (k8s.dev/guide) to get familiar with various contributor tools and processes.
- The First Contribution Guide(k8s.dev/guide/first-contribution/) will walk you through the process for your first Pull Request (PR)
- Check out the Resources List at <https://bit.ly/kubernetes-resources>
- Come join us in the Kubernetes slack: <https://www.slack.k8s.io>
 - Join the [#kubernetes-new-contributors](#) channel
 - Join the channels of 1 or more SIGs you're interested in

It's not always too easy to get started and its understandably frustrating, but if you can stick around, it's vastly worth it.

We would love to help you stick around, so please join us!

We look forward to working with you, learning from you, and welcoming you as future maintainers!

Q&A