

Navigating open source

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Agenda

1. The numbers on open source
2. Case study: Kubernetes community and CNCF
3. How can you get involved?



Cheryl Hung (@oicheryl)

Xoogle software engineer,
now I advocate for
Kubernetes, cloud native
and open source.

Founder of Cloud Native
London.

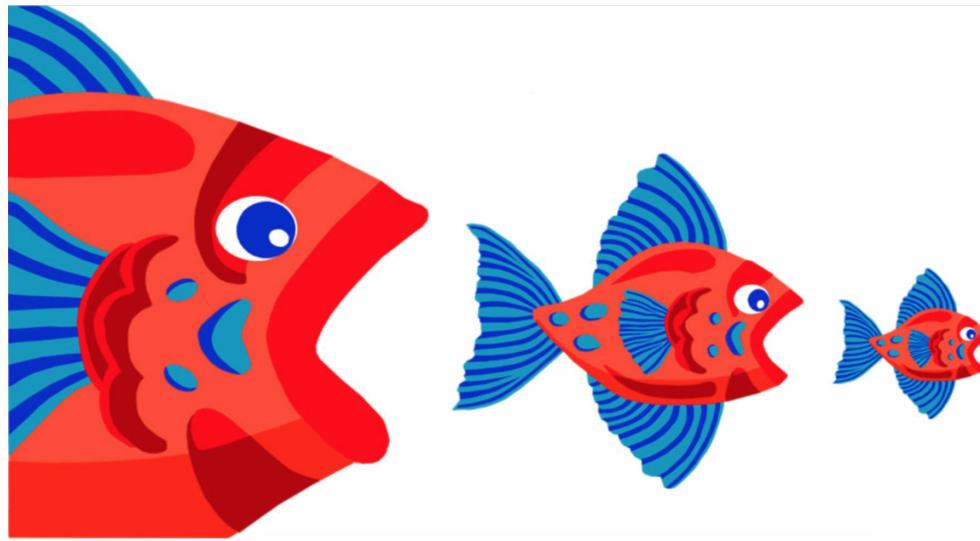


The numbers on open source



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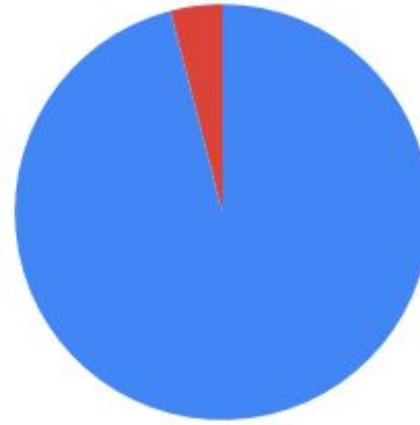
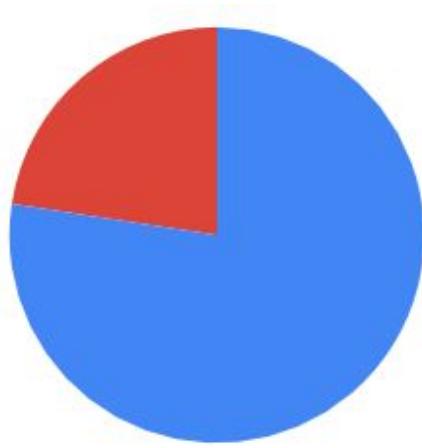
Open source is eating the world



78% of companies [use](#) and 63% [participate](#) in open source.



Diversity in open source is even worse than tech overall



Women vs men developers, professional US (23%) and open source (4%)



Women are just as interested as men in contributing to open source, but are

2x

as likely to have a negative encounter

2x

as likely to seek help from people they already know



Impact is both personal and universal

“Half of contributors say that their open source work... [helped] get their current role”



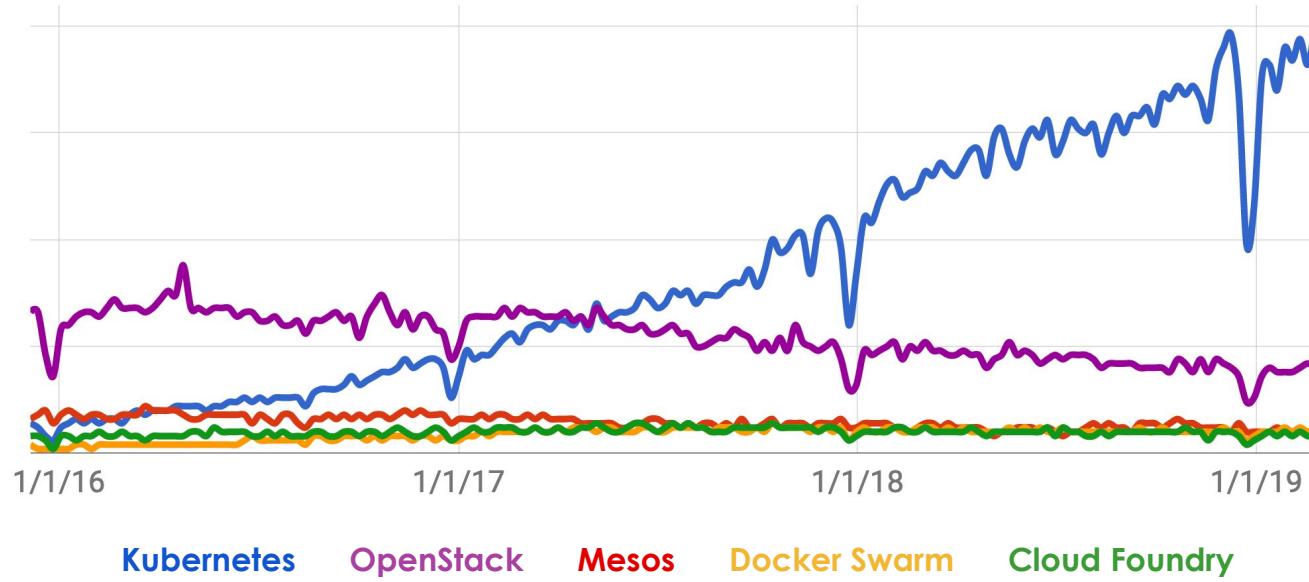
Case study: Kubernetes community and CNCF



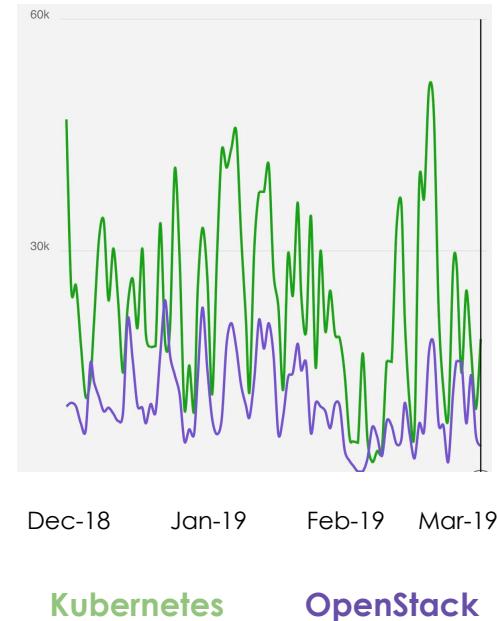
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Kubernetes in Search Trends

Google Trends



WeChat



Github + Slack

77,370 commits

2,104 contributors

#kubernetes-users

☆ | ⚡ 61,804 | ⚡ 6 | Ne

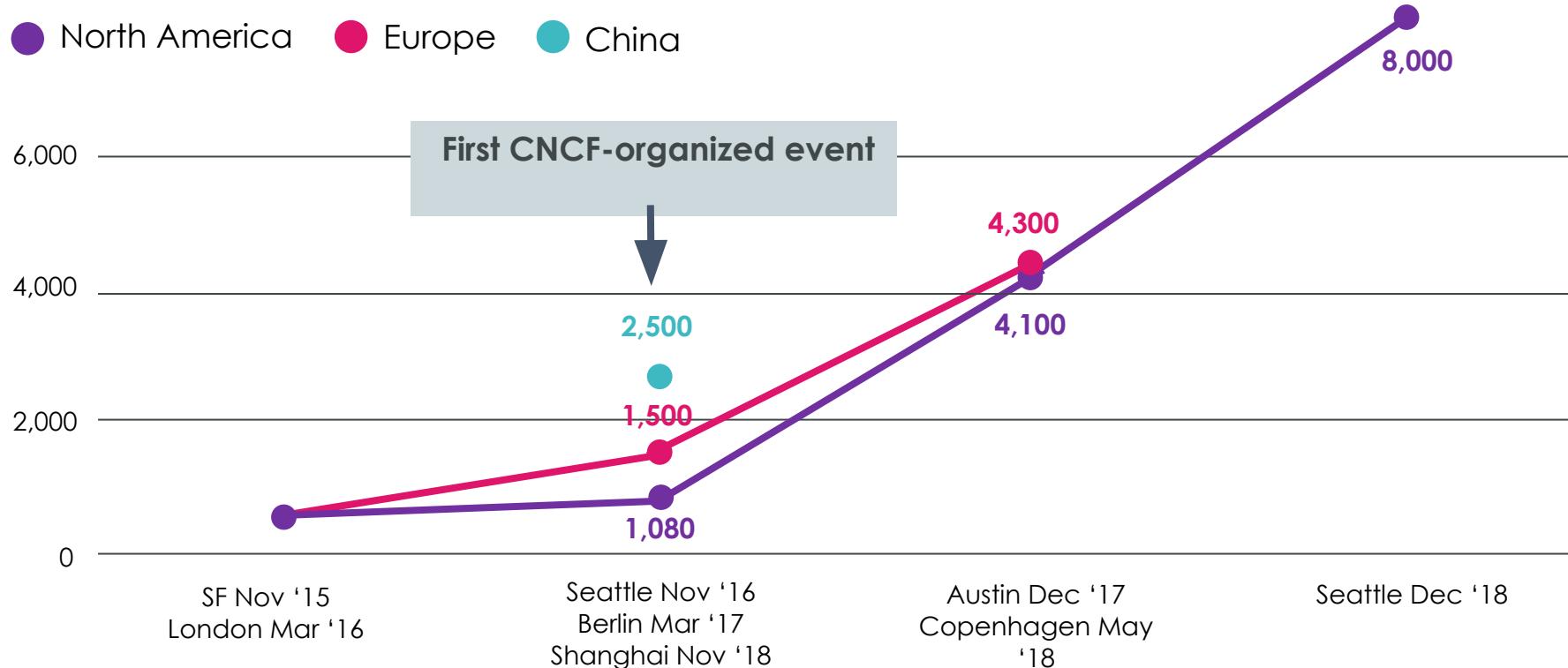
Author	Projects	Labels	Milestones	Reviews	Assignee	Sort
Andrew Sykim	area/cloudprovider area/kubelet	cncf-cla: yes kind/feature priority/important-longterm release-note sig/node size/L	#75229	2 hours ago	andrewsykim	5
Haian Meng	area/kubelet	cncf-cla: yes kind/feature needs-priority ok-to-test release-note none sig/node size/L	#75228	2 hours ago	haiyameng	7
Tal Clair	area/api-machinery	cncf-cla: yes kind/feature kind/flake priority/important-soon release-note sig/auth sig/testing size/XL	#75226	2 hours ago	tallclair	3
Jing Xu	area/kubelet	approved cncf-cla: yes kind/bug lgmt release-note-none sig/storage sig/windows size/XS	#75225	2 hours ago	jingxu97	1 v1.14
Neolit123	area/kubeadm	approved cncf-cla: yes do-not-merge/hold kind/bug lgmt priority/critical-urgent release-note-none sig/cluster-lifecycle size/S	#75224	2 hours ago	neolit123	3
Sjennings	area/kubelet	cncf-cla: yes lgmt needs-kind needs-priority release-note sig/apps sig/node size/M	#75223	3 hours ago	sjennings	2
Ostromart	area/kubelet	cncf-cla: yes do-not-merge/cherry-pick-not-approved kind/cleanup needs-priority ok-to-test release-note-none sig/cluster-lifecycle size/XXL	#75221	3 hours ago	ostromart	7
Izang	area/network	cncf-cla: yes do-not-merge/cherry-pick-not-approved do-not-merge/release-note-label-needed needs-kind needs-ok-to-test needs-priority sig/testing size/XS	#75219	4 hours ago	izang	4



Meetups in 48 countries, 106k members



KubeCon + CloudNativeCon Attendance



The mission of the CNCF is to foster and sustain open source projects around cloud native



kubernetes



Prometheus



envoy



CoreDNS



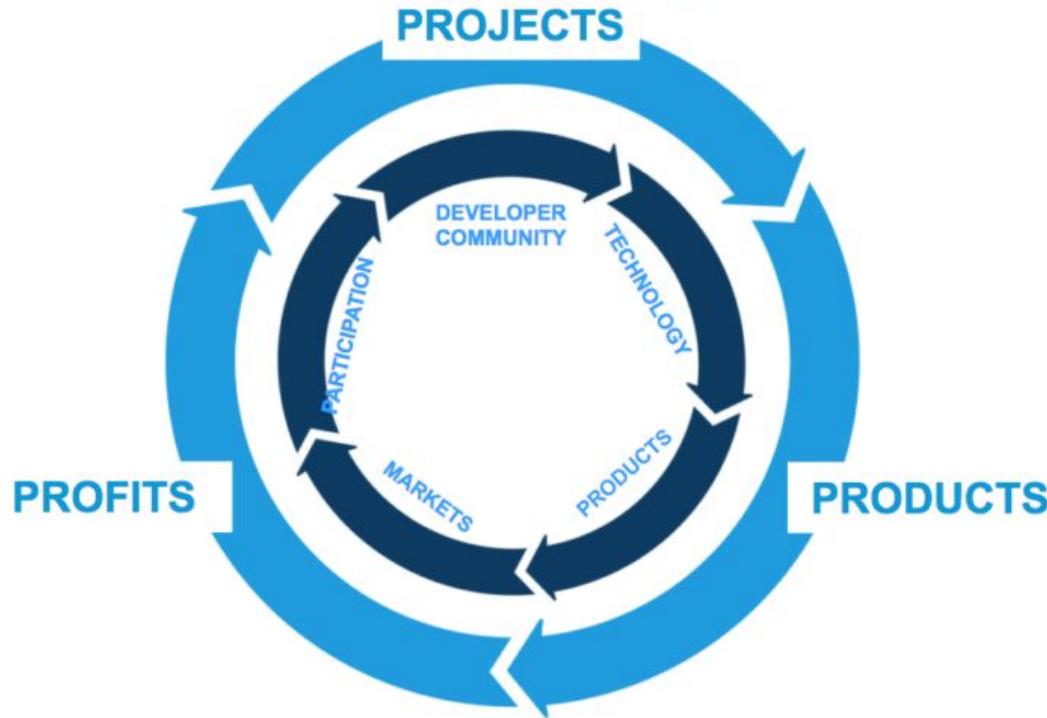
containerd



fluentd



Non-profit, founded December 2015



375+ Members

Platinum Members

Alibaba Cloud



DELL Technologies



Microsoft Azure

ORACLE

Pivotal



vmware

Gold Members



Baidu 百度



inspur 浪潮



End User Members



End User Supporters

Academic/Nonprofit



375+ Members (Silver 1)



375+ Members (Silver 2)

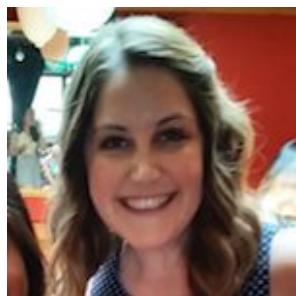


In practice

- Community
- Documentation
- Translation
- Security audits
- Certification
- Legal
- Marketing & PR
- Events



8 staff

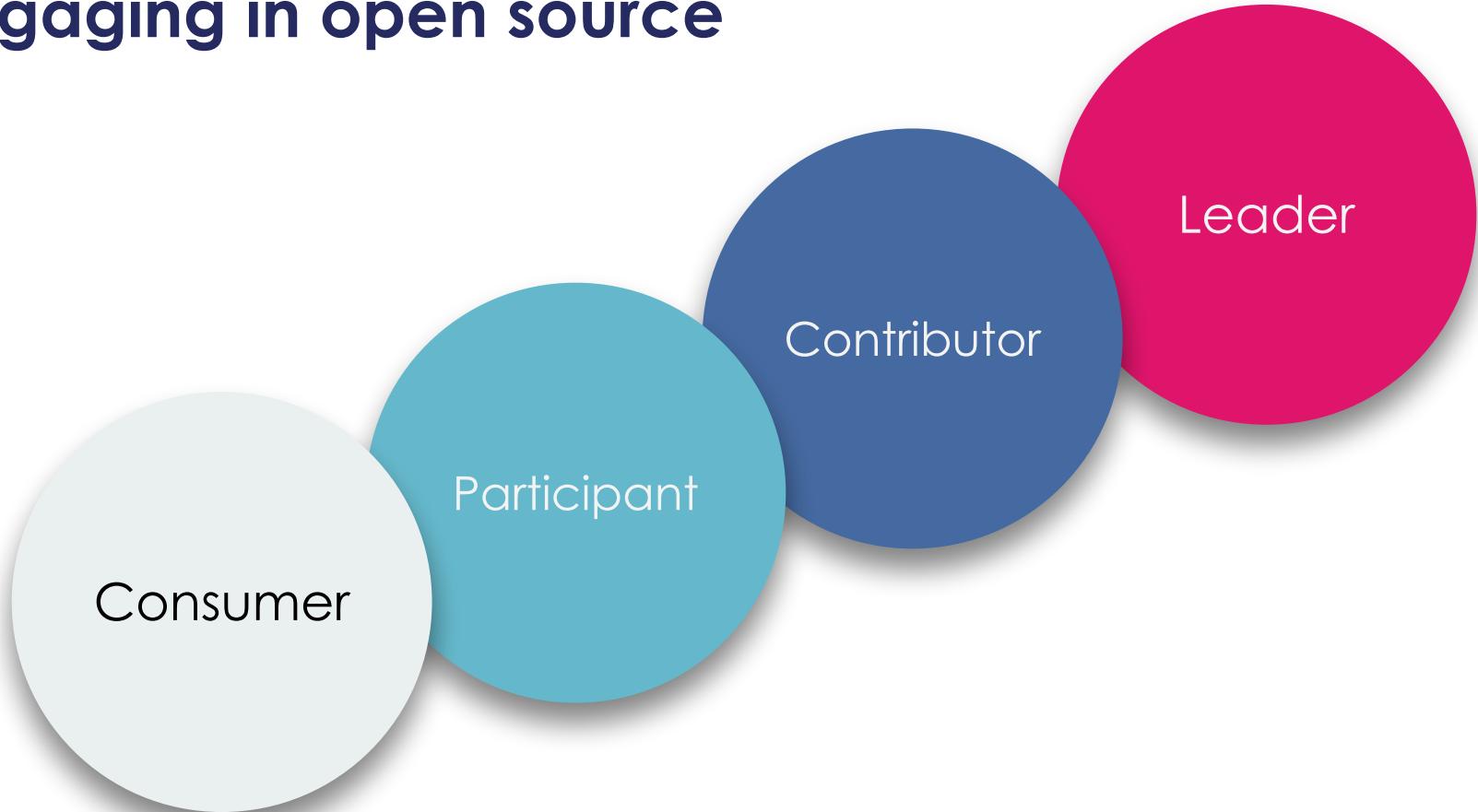


How can you get involved?



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Engaging in open source





Consumer

Evaluate and use open source
tools

File bug reports

Attend events





- Speak at meetups
- Run events
- Answer others' questions
- Moderate discussions
- Curate





Write and translate
documentation

Improve user experience and
design

Code and review code

Improve tooling and testing





Leader

Organize issues

Mentor others

Governance

Formalize open source at your
company



Pitfalls

- A lot of unspoken rules in open source and on Github
- High barrier to entry and inertia in large projects
- Very few independent maintainers (70% are employed)



1. Find an open source friendly employer



2. Find what you're good in, and specialize



3. Find a sponsor



Summary

The impact of open source is both personal and universal.

Understand how you want to engage.

Find sponsors to help you with the unspoken rules.



Resources

opensourcesurvey.org/2017

opensource.guide, todogroup.org,
chaoss.community

github.com/cncf/contribute, cncf.io/about/join



Thanks!

Slides at oicheryl.com



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