

Welcome!

This is the slidedeck I used when giving this talk during Kubecon Barcelona 2019.

For an up-to-date version, complete with errata and additional resources, visit http://bit.ly/kubecon-what-goes-in-a-release .

Thanks! Maria







@ntallaki



@maria



- Community aspect of open source Kubernetes
 - Collaboration
 - Priorities
 - Discussion
 - Implementation

The data



During 1.14 release (Jan-March 2019)

During 1.14 release (Jan-March 2019)

Github

Slack

And more!





Europe 2019



Warning: sweeping aggregation ahead



Warning: sweeping aggregation ahead

Warning #2: human bias ahead



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Warning #2: human bias ahead

Warning #3: approximation ahead





github.com/kubernetes

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- 68 public repos
 - most with activity during 1.14



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 "kubernetes"/"k8s" bring 10's of 1000's external results

- 1 particularly interesting one;
 - kubernetes/kubernetes

kubernetes/kubernetes



• 1038 issues (481 still open)

2047 PRs (295 still open)

kubernetes/kubernetes



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370 contributors

Github: More in detail





Europe 2019 -

Github: More in detail



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- Most active areas:
 - kubelet, kubectl, scheduler



- ~6k unique files changed
 - Some multiple times
 - Total: >31k files changed

Go(2598), bash(315), docs(61), yaml(120)



- Test vs Source code
 - overall: 2206 over 6100
 - .go: 855 over 2598



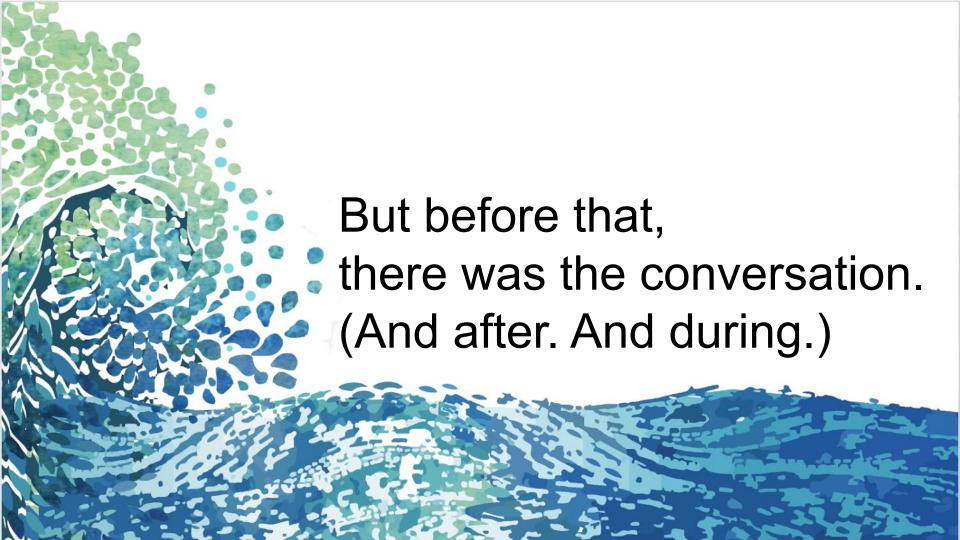
Who are these people?



 A total of 370 contributors opened PRs during 1.14

173 org members/not-yet-org

197 not -yet-org-members



Github in words



- 18708 comments across 3085 issues/PRs
 - Lots of them come from bots (~50/h)

Average PR lifetime: 552 hours



Total of 1231 reactions in k/k PRs



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834





Total of 1231 reactions in k/k PRs

834 15





Total of 1231 reactions in k/k PRs

834 15 44





Total of 1231 reactions in k/k PRs

834 15 44 156











Total of 1231 reactions in k/k PRs

834 15 44 156 41













Total of 1231 reactions in k/k PRs

834 15 44 156 41 141













k8s.slack.io

- 267 public channels
 - all but a few had some activity

- Most active:
 - sig-testing, followed by sig-release

180k conversations during 1.14

6243 mentions of github.com/kubernetes



6000+ of "What do you think?"



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- 129 bikeshed alerts

Slack: more than words





Europe 2019 -







Europe 2019 -

• 300 emails in SIG mailing lists

- Chain lengths between [1-57]
 - averaging at 3-4 messages

Viewership: ~20-30*



Real-time





Europe 2019 -

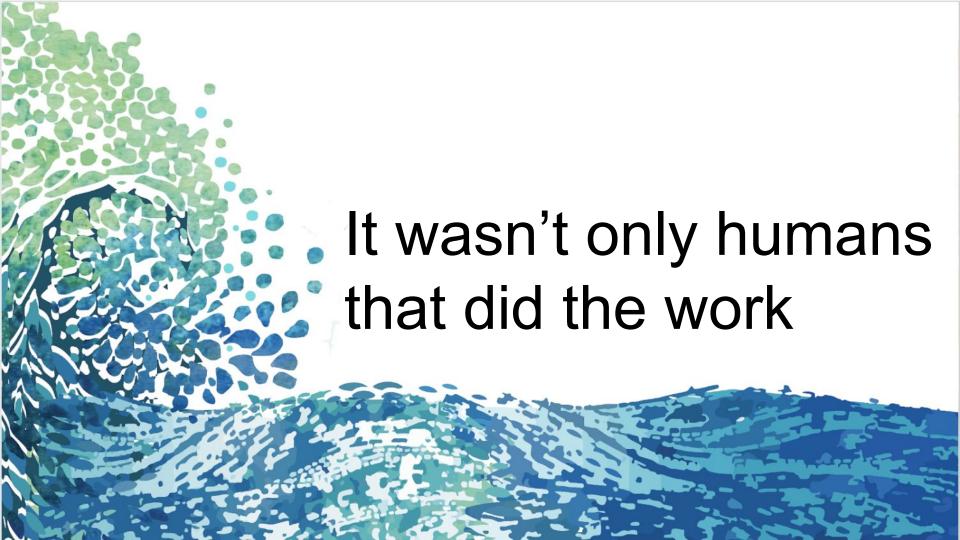
Real-time



140 publicly recorded meetings

~100 hours

Viewership: 0-300



- Participating in conversations
- Managing issue and PR creation process



k8s-ci-robot commented on 10 Jan

Member



...

Thanks for your pull request. Before we can look at your pull request, you'll need to sign a Contributor License Agreement (CLA).

Please follow instructions at https://git.k8s.io/community/CLA.md#the-contributor-license-agreement to sign the CLA.



fejta-bot commented on 19 Mar



. . .

/retest

This bot automatically retries jobs that failed/flaked on approved PRs (send feedback to fejta).

Review the full test history for this PR.

Silence the bot with an /lgtm cancel or /hold comment for consistent failures.





Europe 2019

/pony computer

k8s-ci-robot commented on 18 Dec 2018

Member



. . .

erfcdv djkkk kkk ewrrrfch tvhbbl guiinhmedx jhjjy gggg mh bnnnnjm cfgcfrxcc mk umjnhmyircx imnhnmkinh

- Participating in conversations
 - CLAs
 - rerunning tests
 - posting pony pictures



Building, testing, merging

1125 test jobs

Artifacts, logs, test summaries

- Over 161k build & test job runs
 - >123k total hours
 - …in 2 weeks

- ~40% (71k hours/2 weeks) failed
 - e.g. bugs, no longer valid tests, flakes
 - PRs in flight: 1130500 hours





With a mix of folks who have been around longer, and contributors earlier on on their kubernetes journey.



With lots and lots of conversation, iteration, different views, and questions.



And finally, with a whole lot of help from their robot friends.





Europe 2019

¡Gracias!

