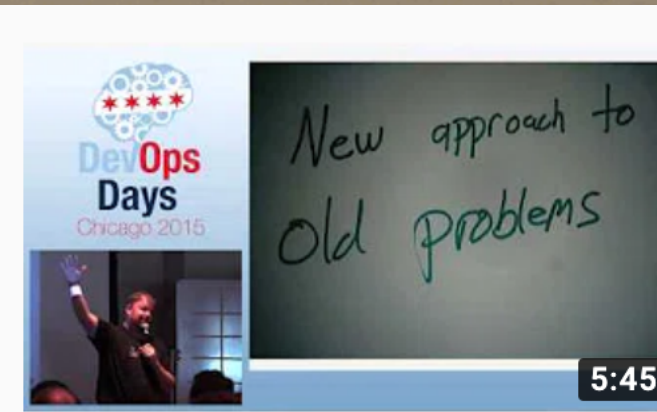
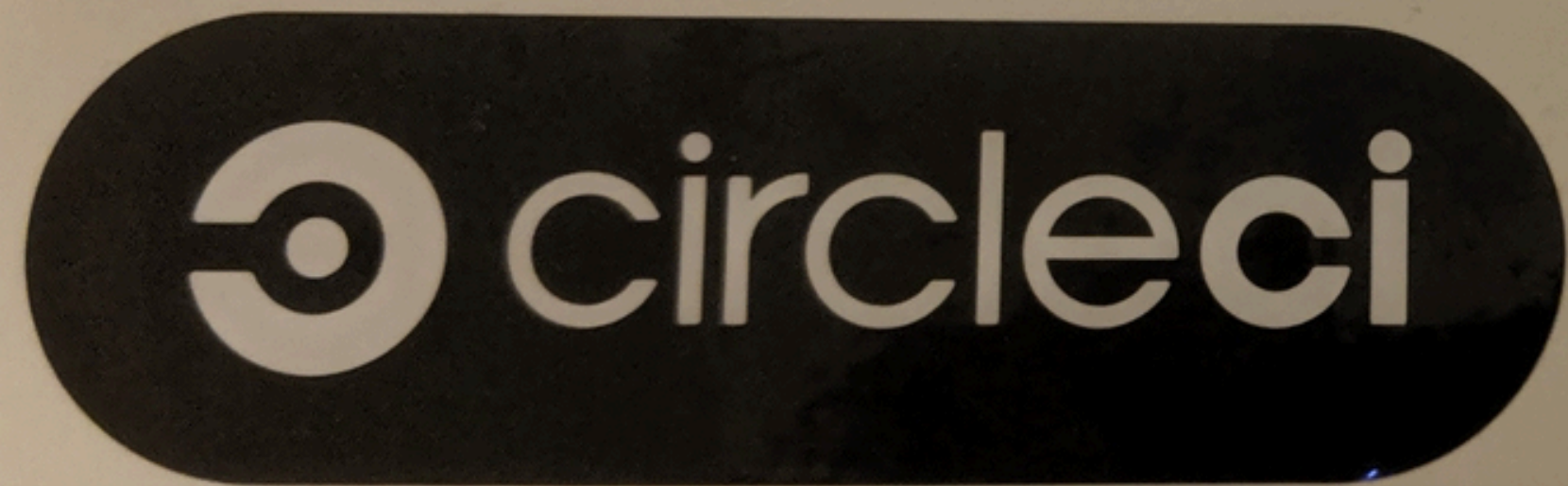


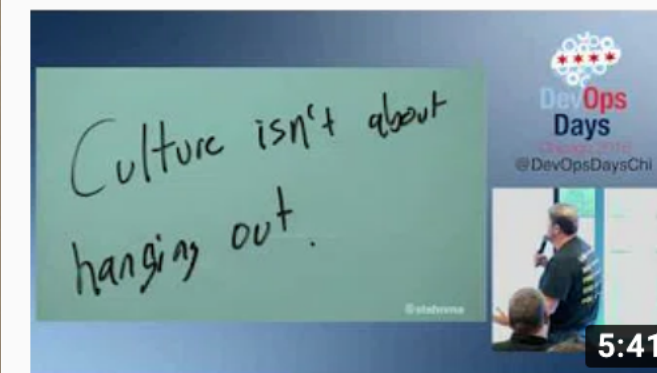
Michael Stahnke  
VP Platform  
@stahnma



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2018



@stahnma





# Data Sets

1.5m jobs per day

10s of thousands of orgs

10s of thousands of projects

Data from a few sets





# Hard Hitting Stats

- The most common length of a repository name is 17.6 characters
- The most common project name is “api”, followed by “terraform”, “infrastructure”, and “web”
- After environmental names (e.g dev, test, stage) the most common branch name is “update-readme”
- 0.01% of workflows have English curse words in the name of the branch

Create a new repository

A repository contains all project files, including the revision history. Already have a repository elsewhere? [Import a repository.](#)

---

Owner: circleci / Repository name: api-terraform-infrastructure-wek ✓

Great repository names are short and memorable. Need inspiration? How about [au](#)

Description (optional)

The "John" of Github repo names

---

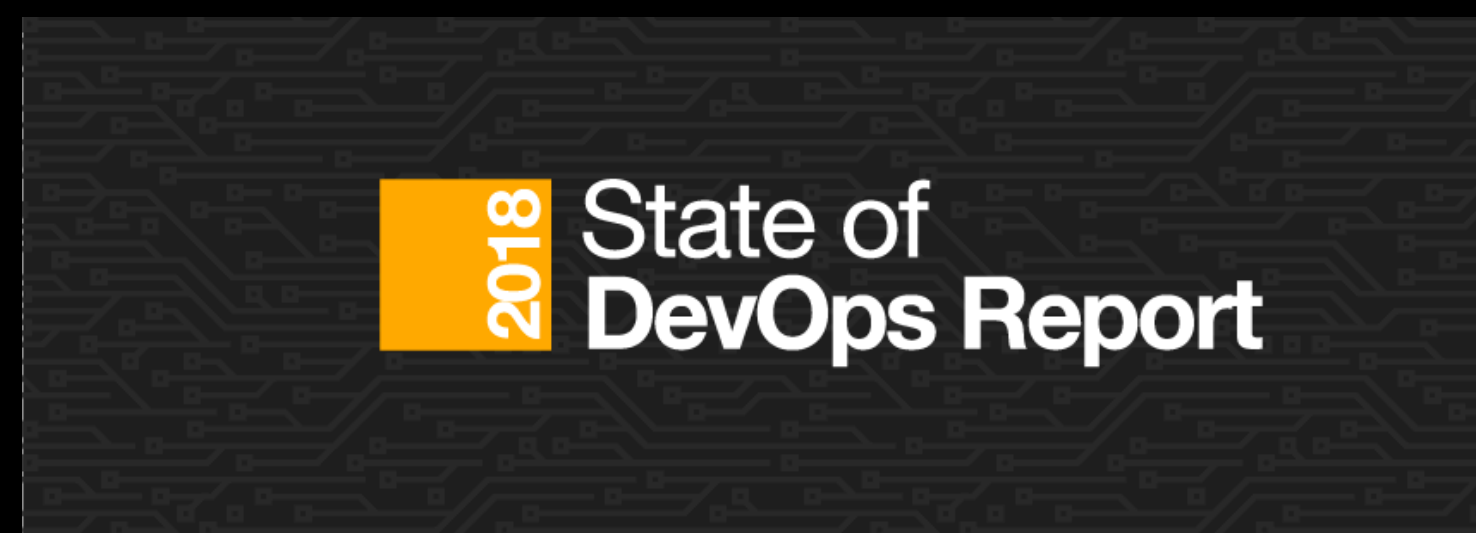
☐ Public  
Anyone can see this repository. You choose who can commit.

☒ Private  
You choose who can see and commit to this repository.







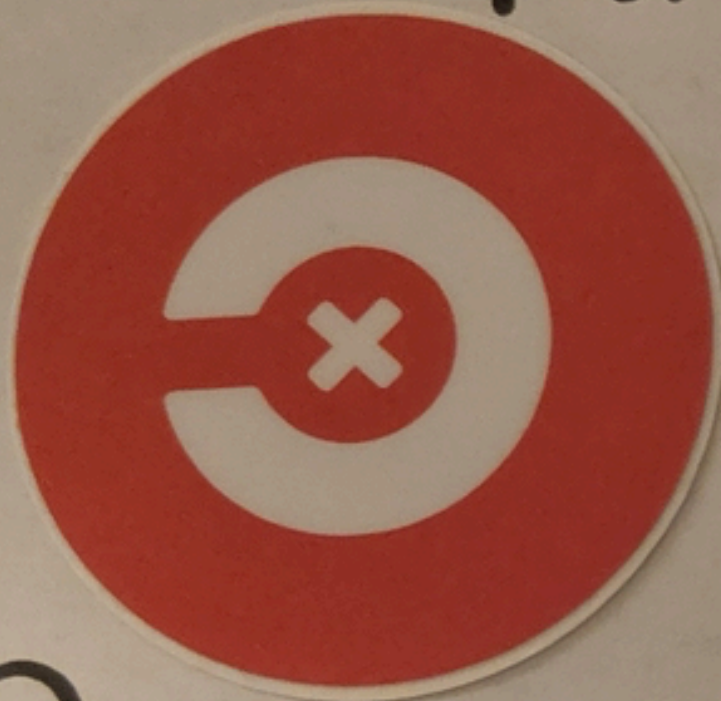




# Mapping Metrics

MTTR

Time from  
red to green



Deployment  
Frequency

How often are  
workflows running

Delivery Lead Time

Workflow  
Duration

Change failure  
rate

Workflow  
failure rate



# MTTR

Fastest Recovery < 1 second

Worst Recovery 30 days

Median work for recovery time

17.5 hours





# MTTR

Fastest Recovery < 1 second

Worst Recovery 30 days

Median work for recovery time

17.5 hours









# Lead Time

Min	SOP	95p	Max
2.1s	3m27s	28m45s	3.3days

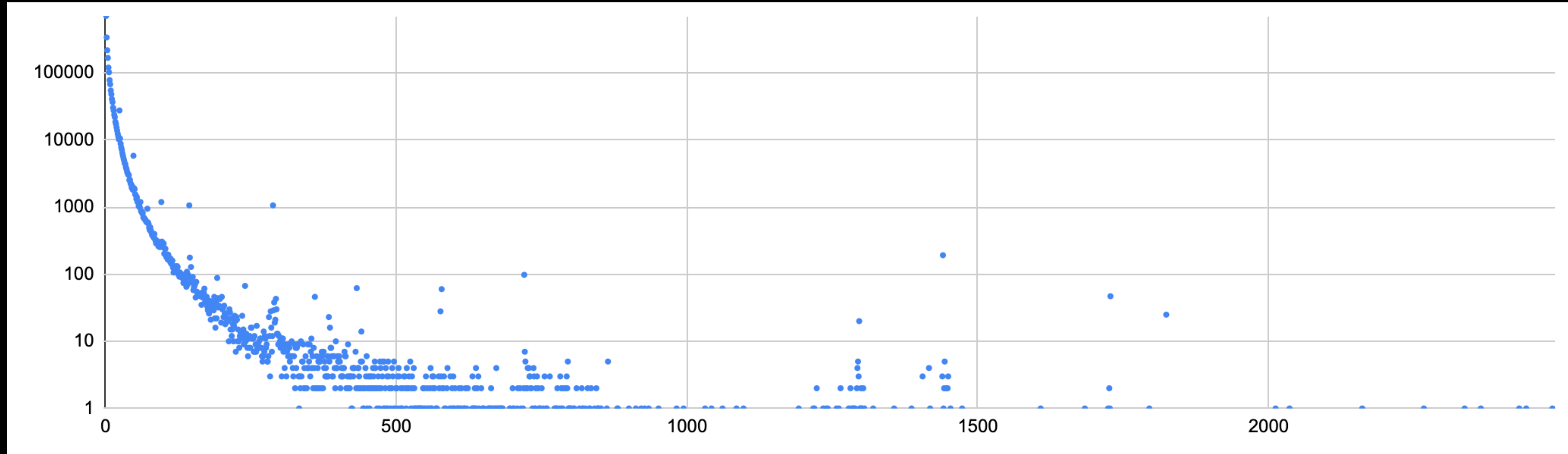


# Lead Time

Min	SOP	95p	Max
2.1s	3m27s	28m45s	3.3days



# Deployment Frequency



Number of projects building this many  
times per day

Number of runs per day per project



# Deployment Frequency

	50p	95p	99p	Max
workflows per day per project	3	29	74	2488
workflows per org per day	6	85	250	3036
workflows per project on master branch per day	1	13	39	2443



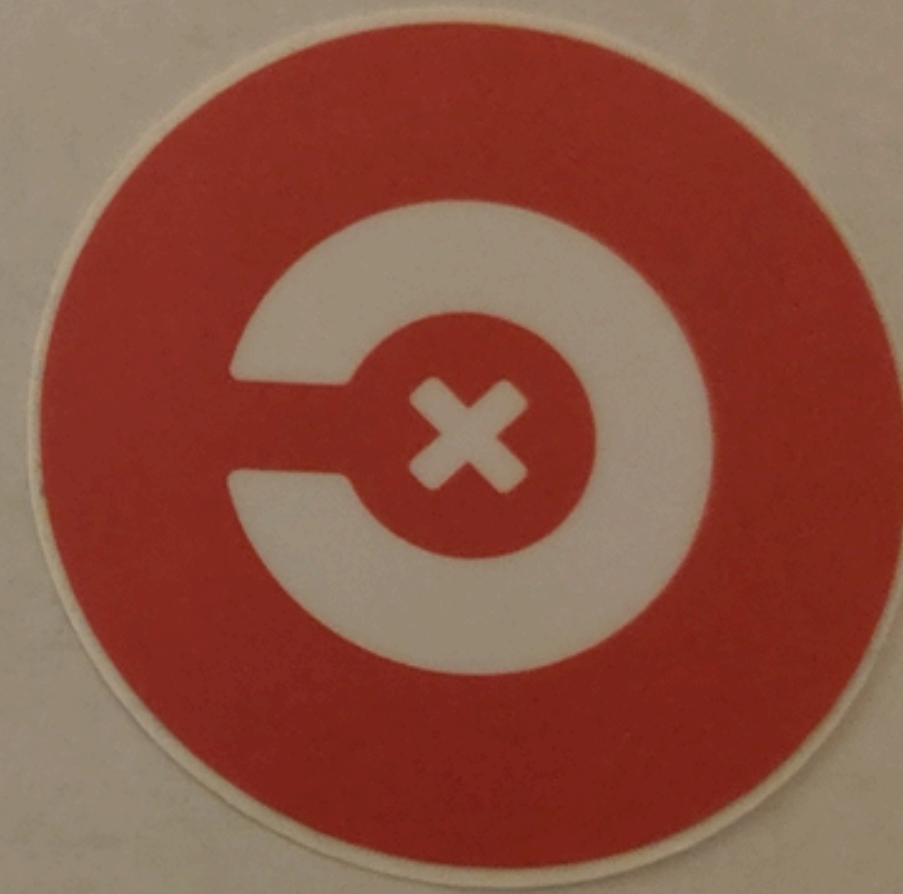
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Change Failure

Rate



~20% overall



# Manual Approvals

- SOp of approvals is 3.53 minutes
- 20% for all workflows (fail rate)
- 3% for workflows w/ manual Approval



## More on approvals

- SOp length 3m 27s
- SOp length w/ Approvals 14m 38s
- Some workflow have more than one approval
- 3.5% workflows had approvals



Language	Fail rate on master	Median branches	Median users
PHP	7.0%	5	2
JavaScript	9.5%	5	2
Python	10.6%	5	2
Ruby	10.9%	9	3
Go	12.4%	4	2
Java	13.1%	4	2



Language	Fail rate on master	Median branches	Median users
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Ruby	10.9%	9	3
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Java	13.1%	4	2



# Thank you. ■



## Open Space?

