



Selenium Testing your Kubernetes Apps with Machine Learning & Testim



 **code**fresh

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testim

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 @TodayWasAwesome



Over 3.5 million images built

Customers





Oren Rubin

 @shexman

Testim.io

CEO

Mentor

Google Launchpad

Applitools

Director of R&D

Developer Expert

Google

Wix

Web Architect

External Lecturer

Technion University

Cadence

Compiler Engineer

Meetup Co-Organizer

Selenium IL, GDG, Ember.js

IBM

Cloud Engineer

Agenda

- Benefits, Challenges of UI/E2E Testing
- How to do it better w/ Machine Learning
- Dealing w/Microservices
- Demo

Why Test?

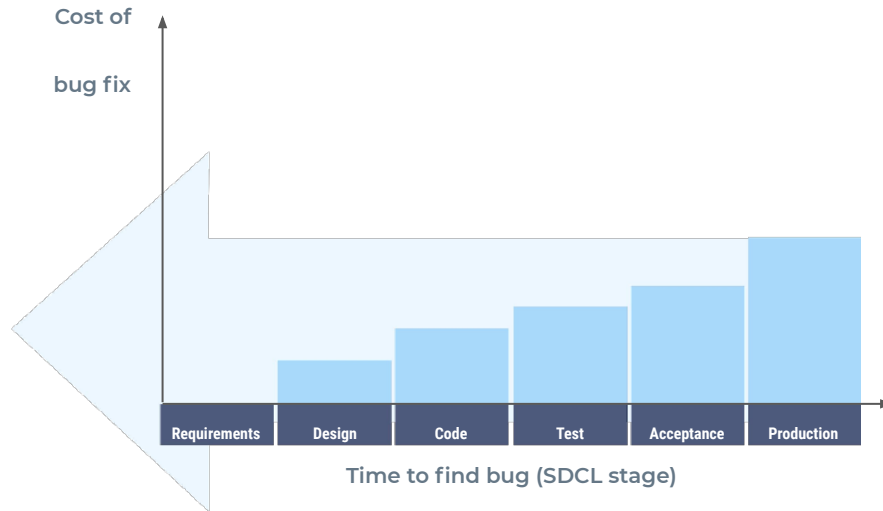
Unit Tests: 2

Integration Tests: 0

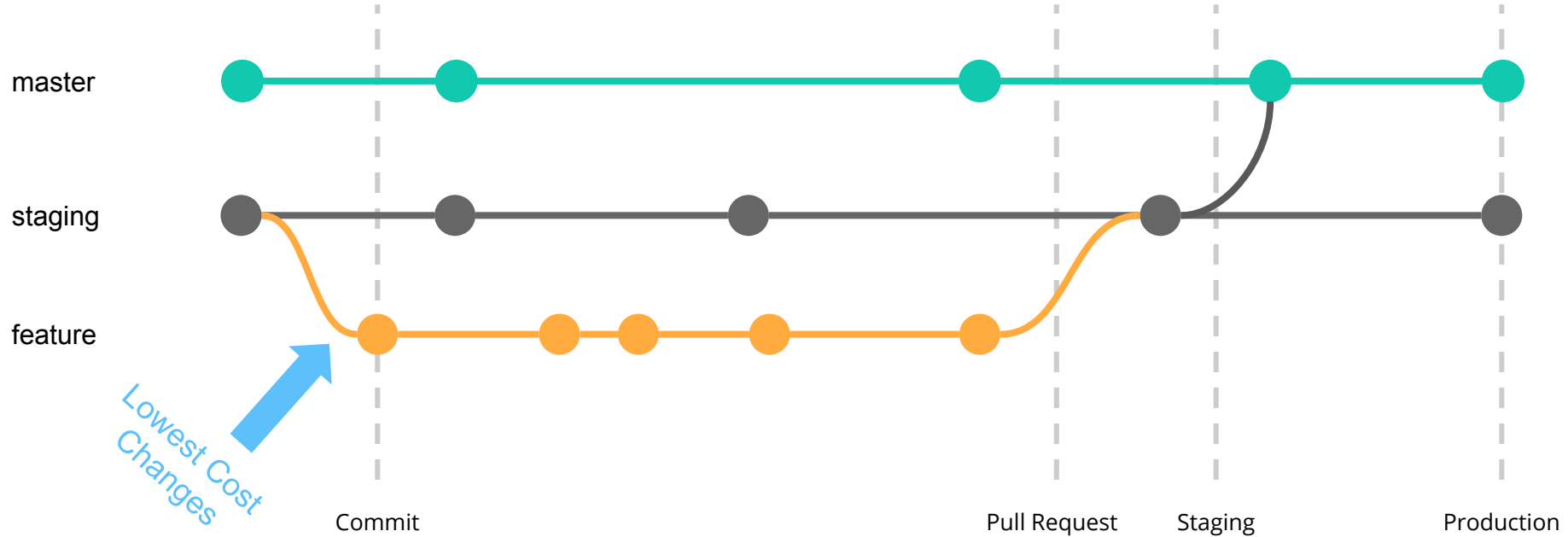


Shift Left

COST OF A BUG FIX ACROSS DEVELOPMENT LIFE CYCLE

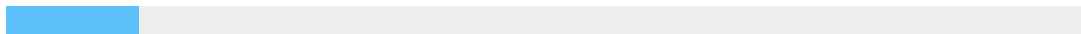


Shift Left - When do the tests happen?



How far have you shifted left?

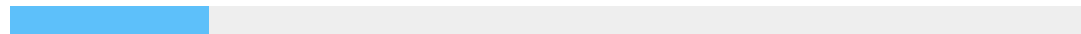
Not at all, we test last, we test quality into the product **13%**



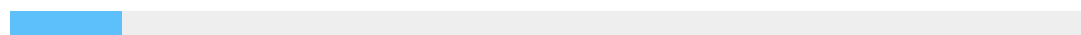
Testing involved early, but still have an extended test phase before release **57%**



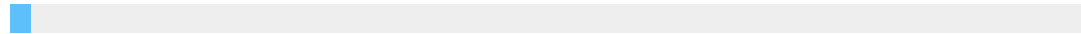
We could probably release after every sprint **19%**



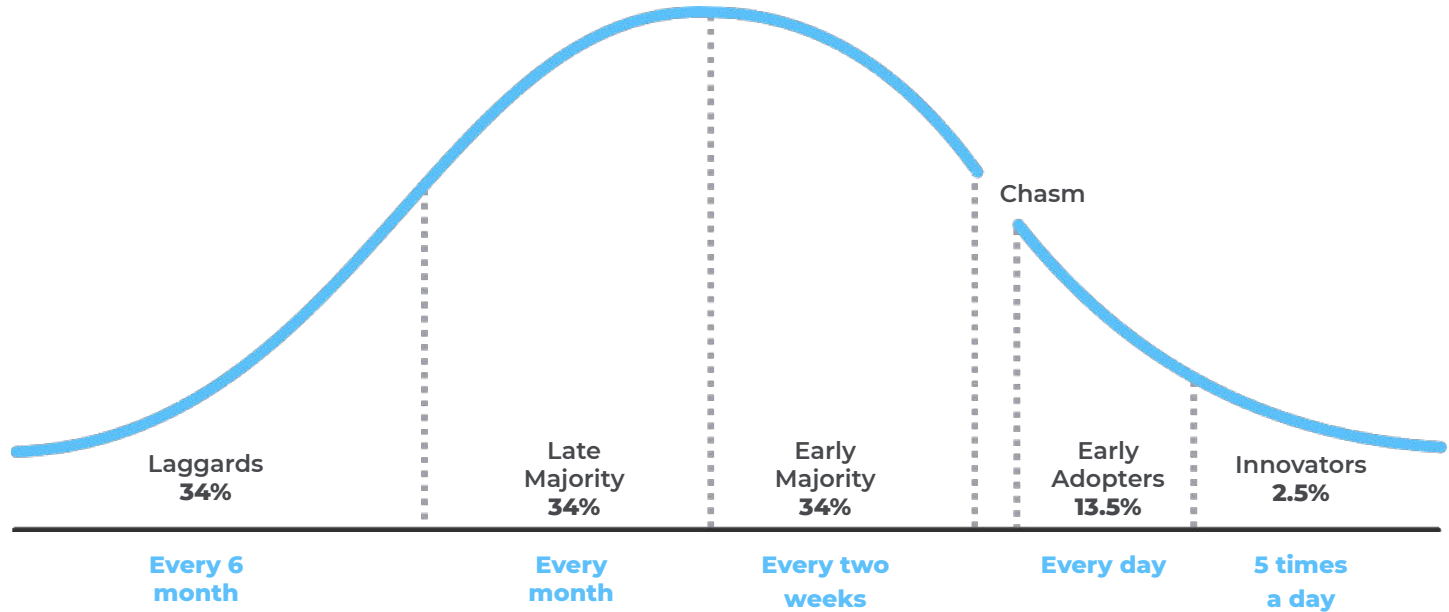
We could ship daily if we wanted to **10%**



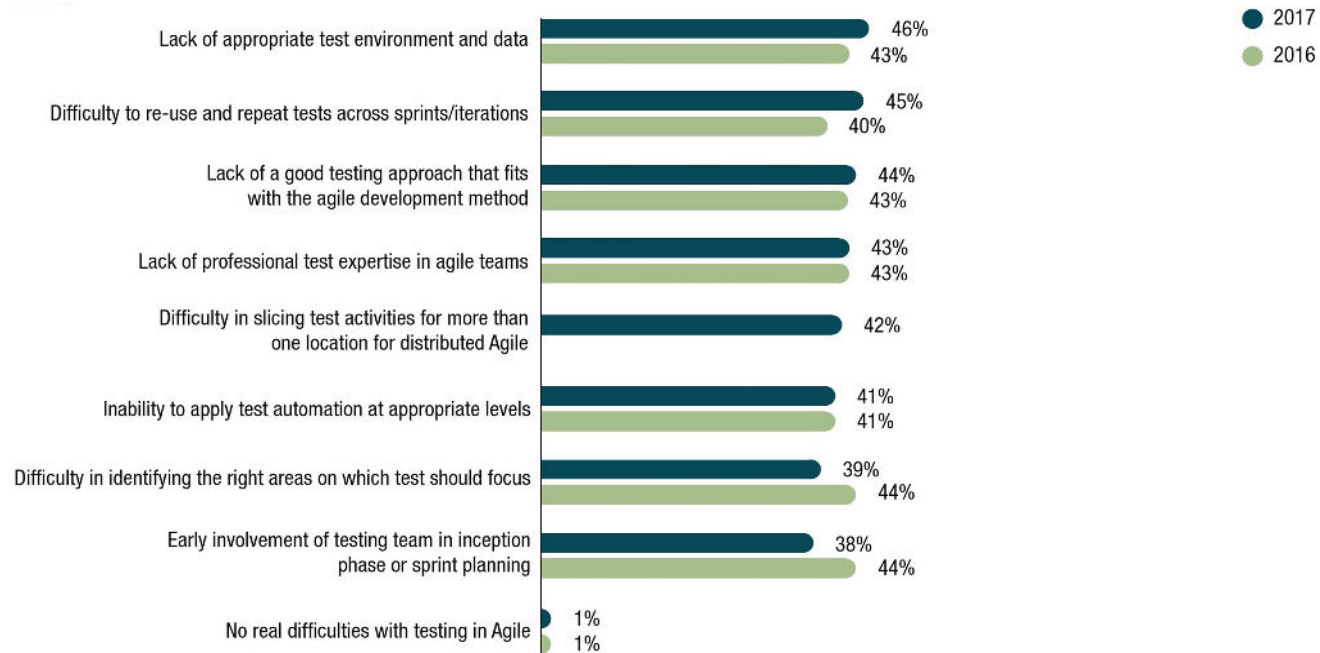
We could deploy any minute of any day **2%**



Where it's going: Rapid Release Cycles

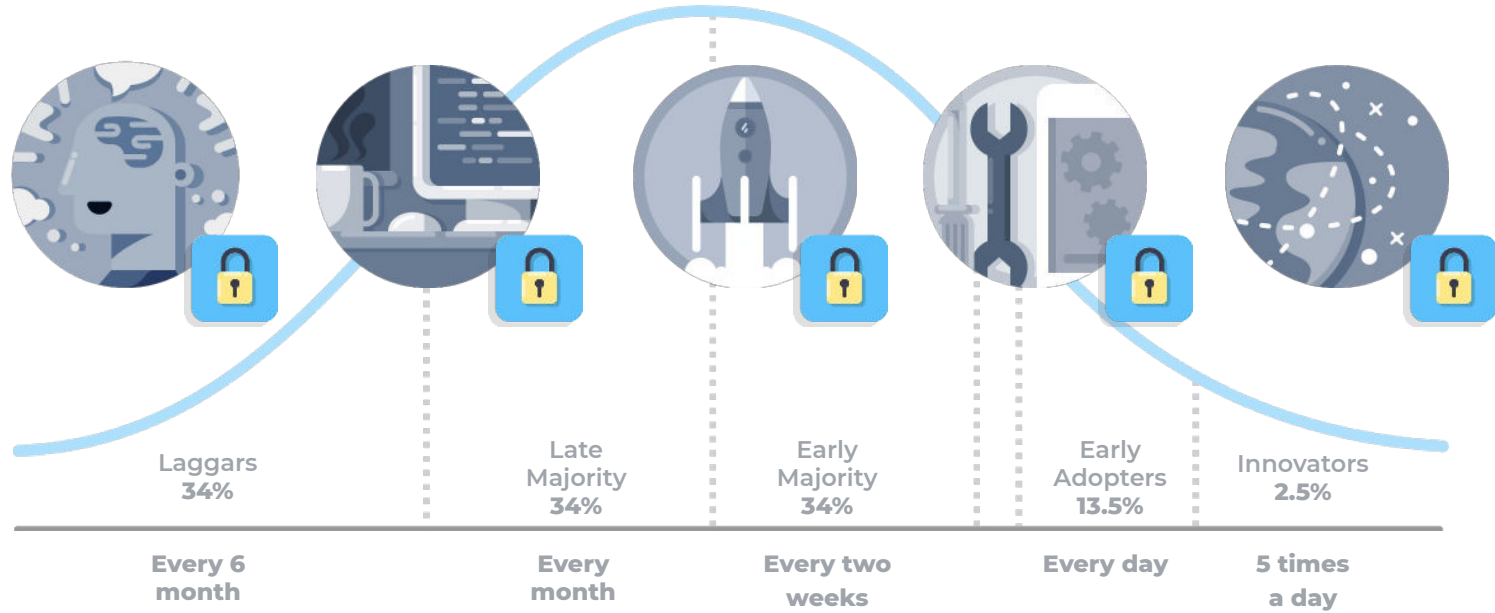



Challenges




FROM WQR 2017

Challenges












My Project


DOCSFORKADD USERNEW TEST

MY TEST › CLICK ON LOGIN


SAVE









Your App Login

john@myapp.com

●●●●●●●●

LOGIN
















← ADVANCED

Target Element

Locators Rankings
















☒ Class

BlueButton


















☒ Text

Login


















☒ Tag


Button





☒ ID


md-6345



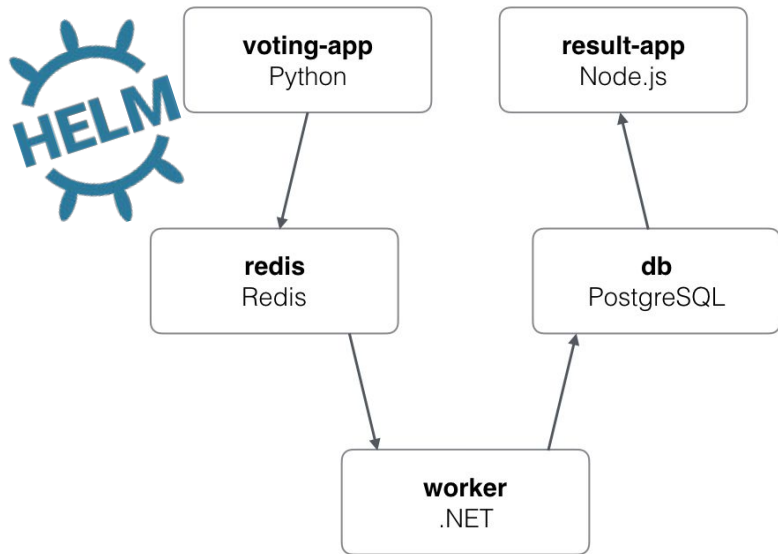
Target Parent 2

Target Parent 3

Target Parent 4

Target Parent 5

Demo Application - Voting App

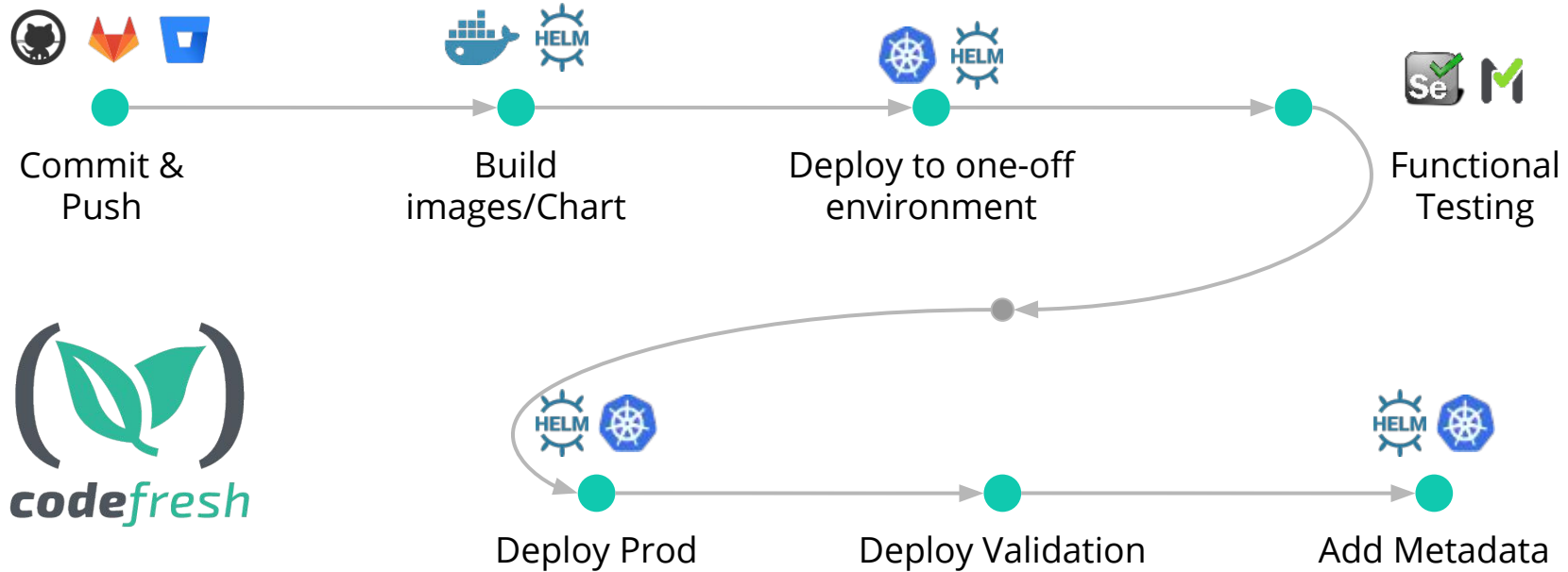


- 12-Factor Microservice App
- Packaged as a Helm Chart
- Helm makes Shift Left with Kubernetes a lot easier

<https://github.com/todaywasawesome/example-voting-app>

[Vote](#) [View Results](#)

Continuous Delivery Pipeline w/Testim UI



Lets Make Some Tests!



Demo the Pipeline



Questions?

testim ✓

Schedule a Demo!

Contact us at:

[Testim.io](https://testim.io)



() **codefresh**

Schedule a 1:1

Get in touch at:

[Codefresh.io](https://codefresh.io)

