Code Smaller as a

Minimum Viable Continuous Delivery

@lukeludwig

sportsengine

“Continuous Delivery is the ability to get changes of all types—including new features, configuration changes, bug fixes and experiments—into production, or into the hands of users, safely and quickly in a sustainable way..”

– Jez Humble - http://continuousdelivery.com

2012 - TST Media

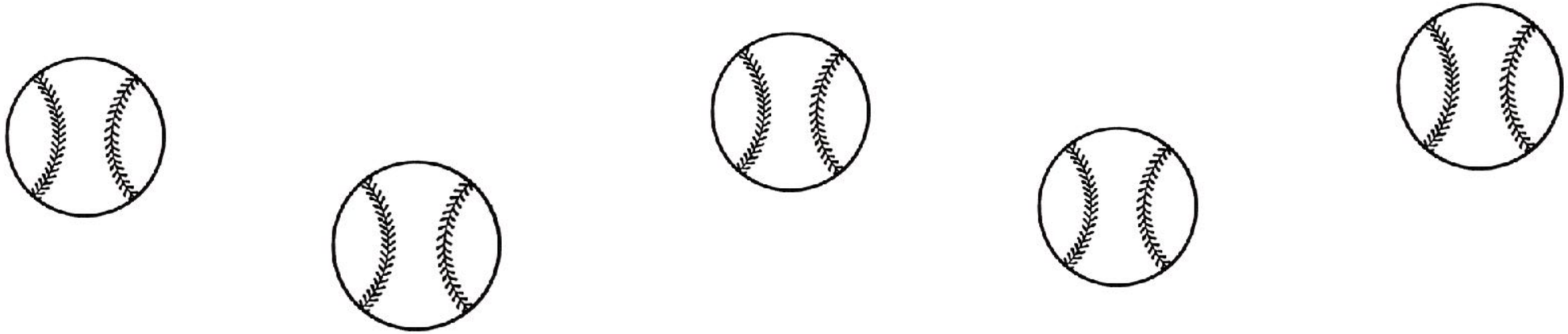
- 12 developer team
- Deployed 3 or 4 times a week
- Does it matter if we deploy multiple times a day?

Why do we care?

- Shorten those feedback loops!
- Say good-bye to integration problems

Code Smaller

- Break problems down into small pieces!
- Drive each piece through your pipeline



The *ideal* continuous delivery team

- Has a comprehensive test suite
- Works on mainline branch - no branching!
- Deploys code changes one at a time

We are far from the ideal!

- Test coverage: 50% - 90%
- Branch frequently - only one long running branch
- Deploy multiple code changes together

Minimum Viable Continuous Delivery

Step 1: Criteria all code changes must meet prior to deploy

The Big Three

1. Test Suite passes
2. Code review sign-off - Any developer on the team
3. QA sign-off - Anyone on the team

Minimum Viable Continuous Delivery

Step 2: Ability to deploy on demand

Minimum Viable Continuous Delivery

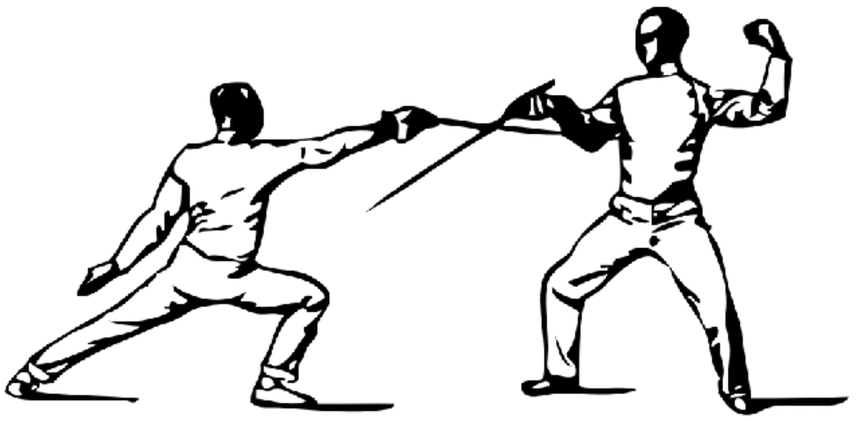
Step 3: A team that actually codes small

Coding small is a skill

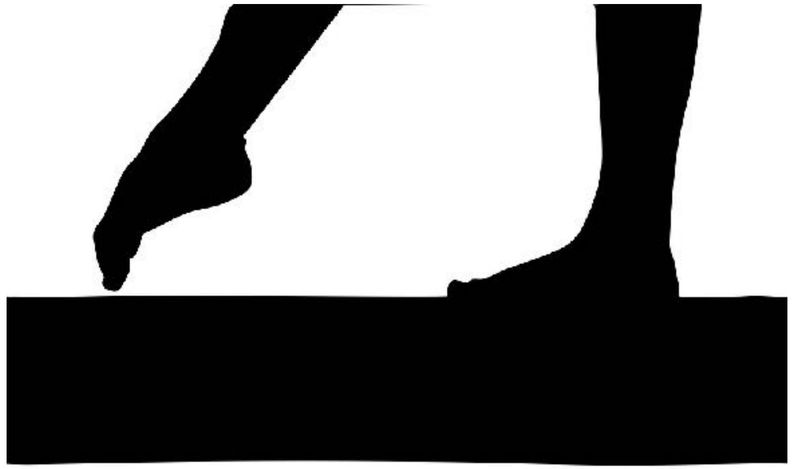
How frequently does your team deploy code to production?

In 2016 SportsEngine has averaged 22 code changes a day deployed to production

Is this good?



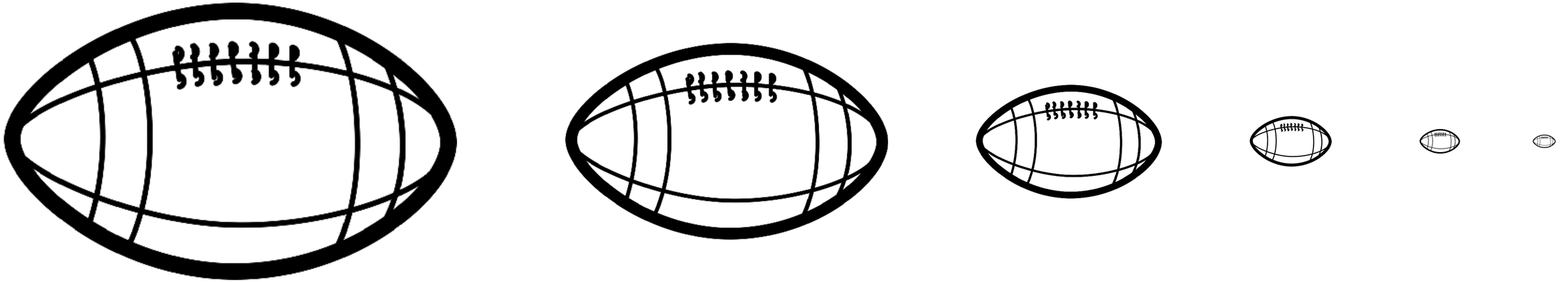
Amazon deploys once every 11.7 seconds!



How **SMALL** is Good?

Code for 1 to 2 days and then deploy!

How can we measure this?



How **SMALL** does your team code?

Code changes per developer day - CCDD

SportsEngine in 2016

0.67 - Code changes per developer day

2/3rds of our team members deploy a code change every day

Open Source Tools

- **Octopolo** - Github Workflow tools for Coding Small https://github.com/sportngin/octopolo
- Hubstats - Rails Engine for tracking Github pull request metrics https://github.com/sportngin/hubstats

@lukeludwig

Links

- Jez Humble's Continuous Delivery site: https://continuousdelivery.com/
- Martin Fowler's Continuous Delivery article: http://martinfowler.com/bliki/ContinuousDelivery.html
- Code Smaller: http://www.codinginthecrease.com/news_article/show/316512
- Mitigate Risk by Optimizing the Development Workflow and Trusting Your Team: http://www.codinginthecrease.com/news_article/show/662050

Thanks!