



Research into DevOps bottlenecks



Why “research”?

We interview people

- 
- VP R&D @ JFrog
 - CTO @ Bugsee
 - CTO @ Top Israeli Finance Firm
 - VP Engineering at CA Technologies
 - CTO @ ScentBird
 - Architect, a top Fortune-Rated Privately-Held Tech Firm
 - Applications Engineering Manager at Fortune 500 SW Company
 - Architect, US Army (Contractor)

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What is DevOps?



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This is devops*

Deep specialization

Ops

Dev

QA

Common
goals, tools,
culture

*Unless you're Netflix

**You're not

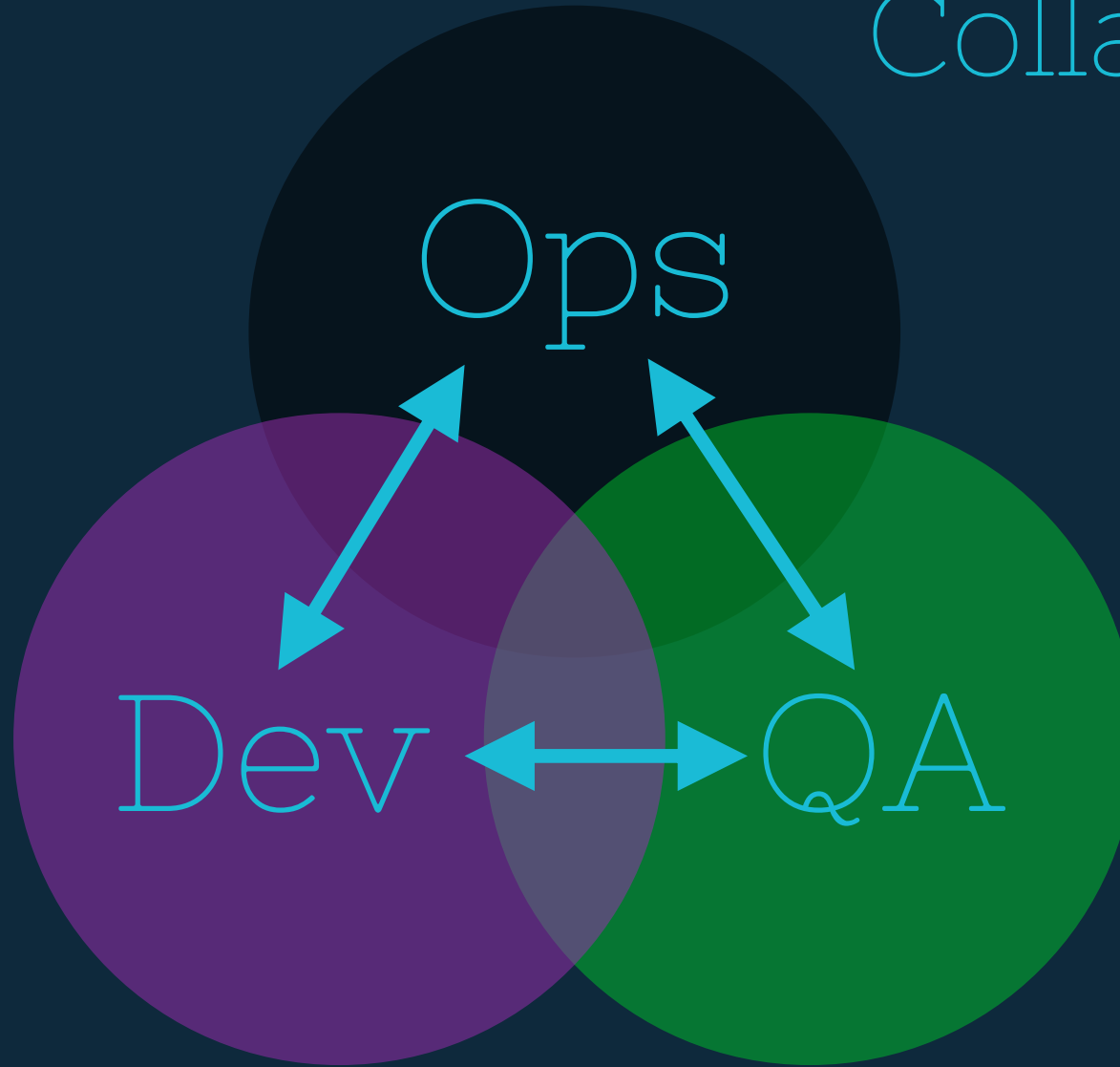
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Collaboration



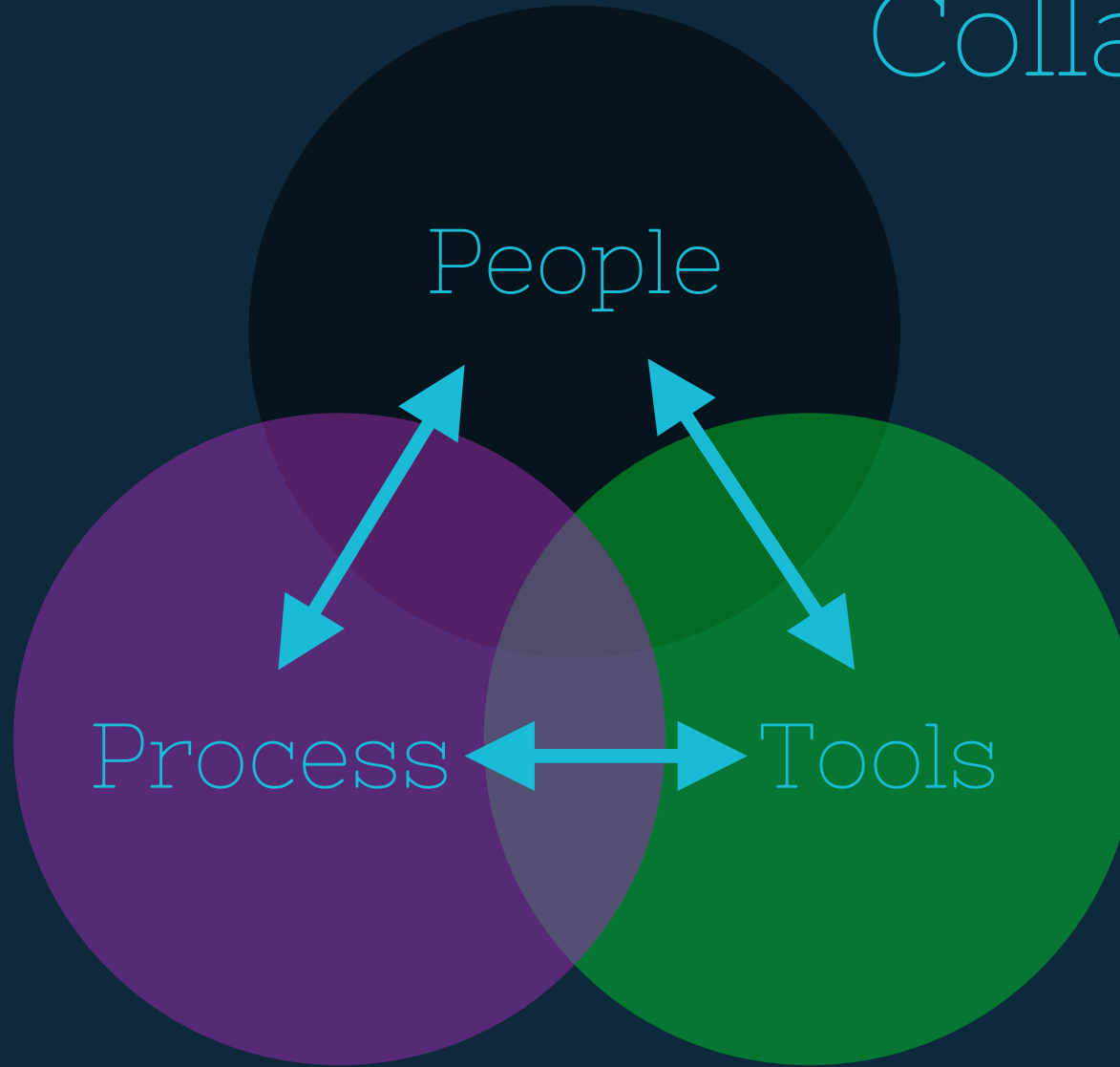
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Collaboration



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BARUCH SADOGURSKY

CHIEF STICKER OFFICER

(ALSO 🎩 OF DEVELOPER ADVOCACY)



JBARUCH@JFROG.COM

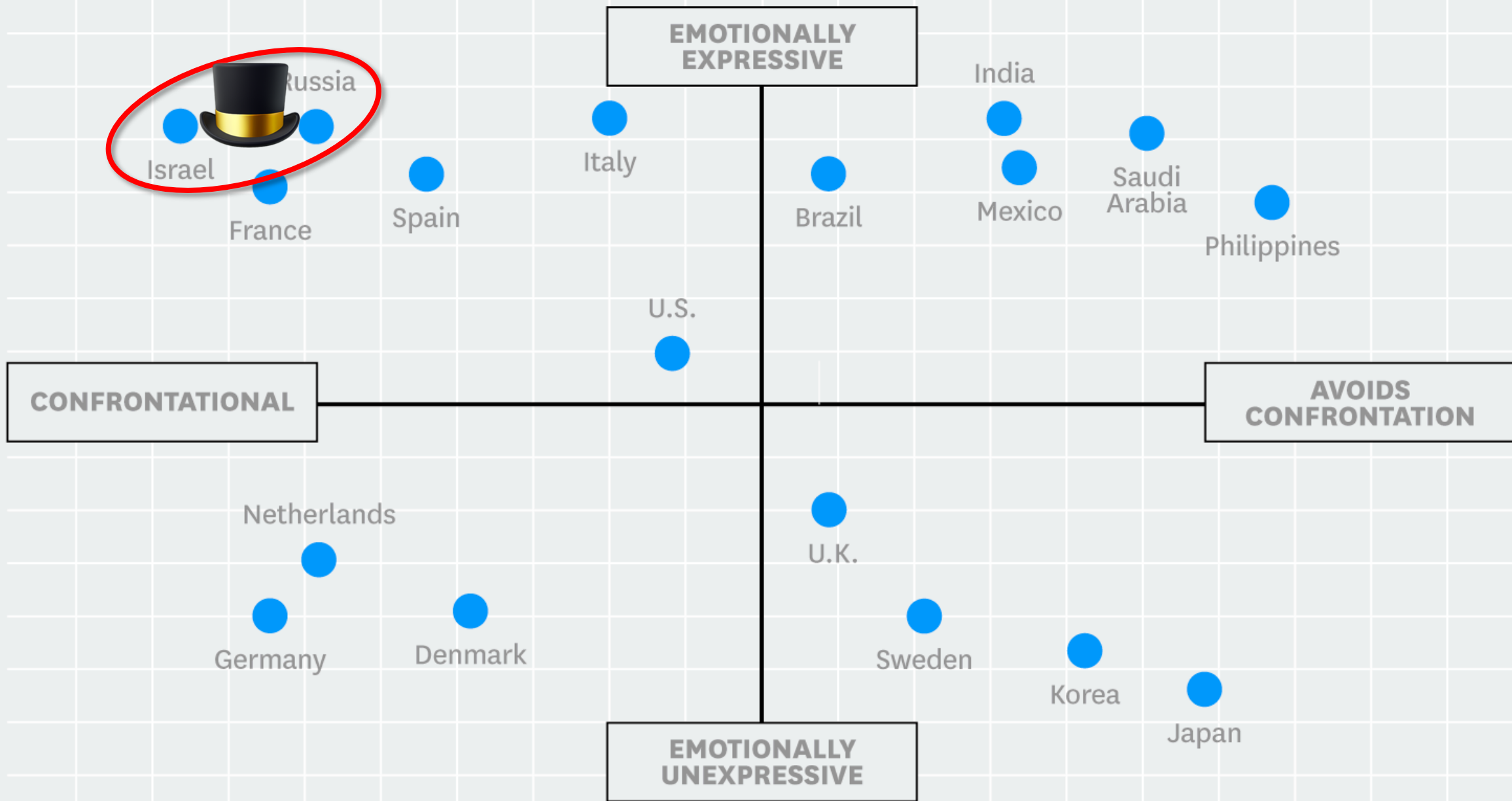


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Shownotes

- 
- The slides
 - The video
 - All the links
 - Comments, ratings
 - Raffle!

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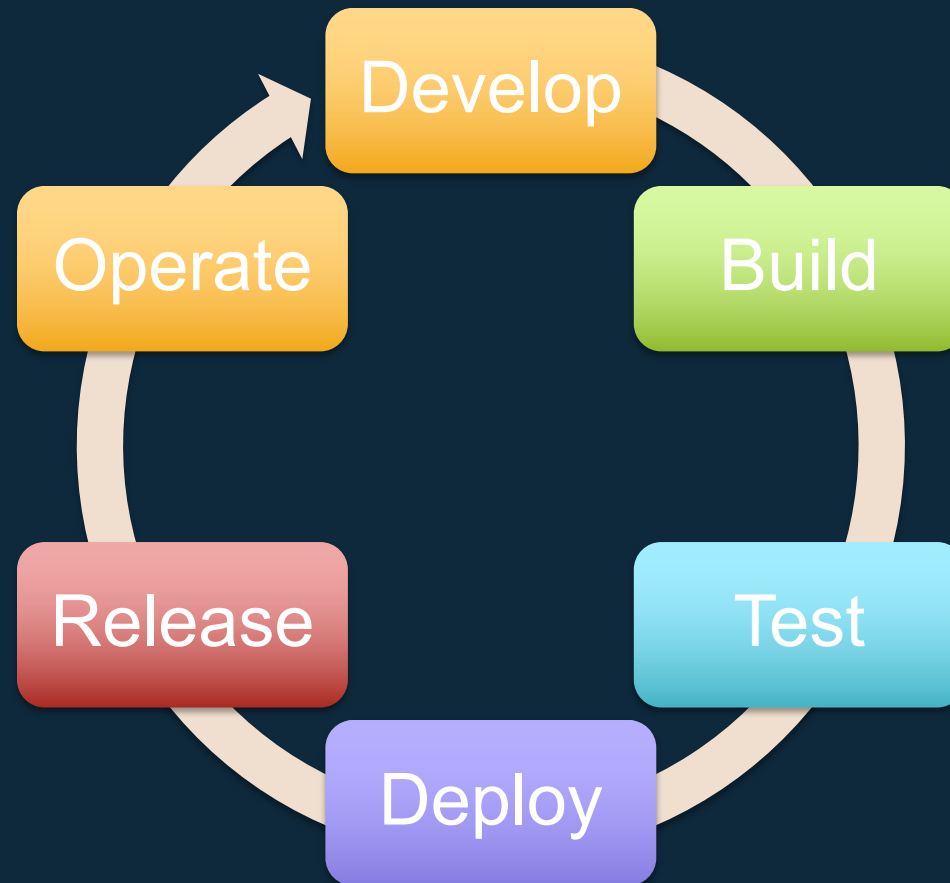
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What bottlenecks?



DevOps and Delivery



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Release cycles

2 years

6 months

2 weeks

1 day

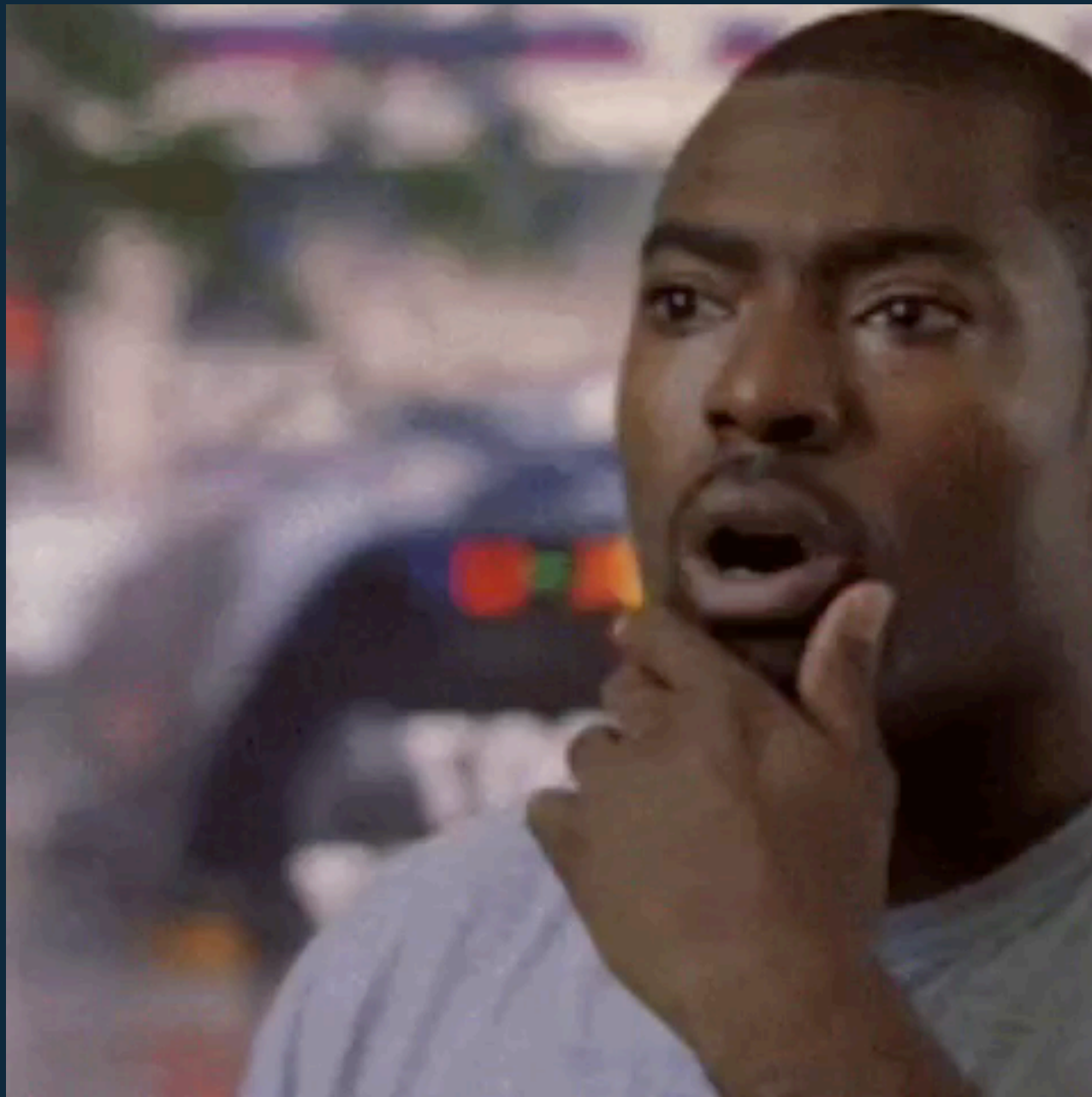
2 hours

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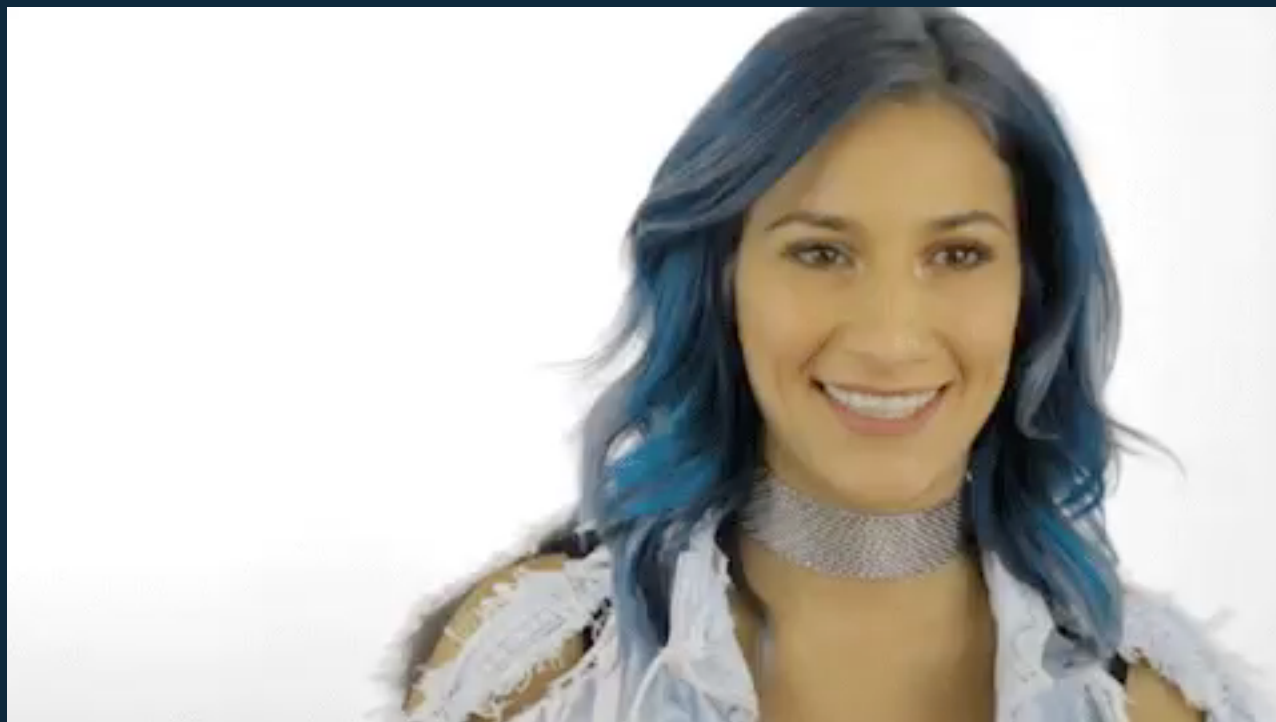
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Are they happy with it?





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How do you know it's good?



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I don't measure it because I've had no complaints



When the bug queue is empty, we are good




“When I get fewer tickets on the process



“Automation of every single piece



Other measures

- 
- Version adoption
 - Bug Burn-down diagram
 - Productivity Gains “used to be 2 days, now its 2 minutes”
 - Quality, No Regressions!
 - MTTR
 - Business metrics

What's the right release cycle?



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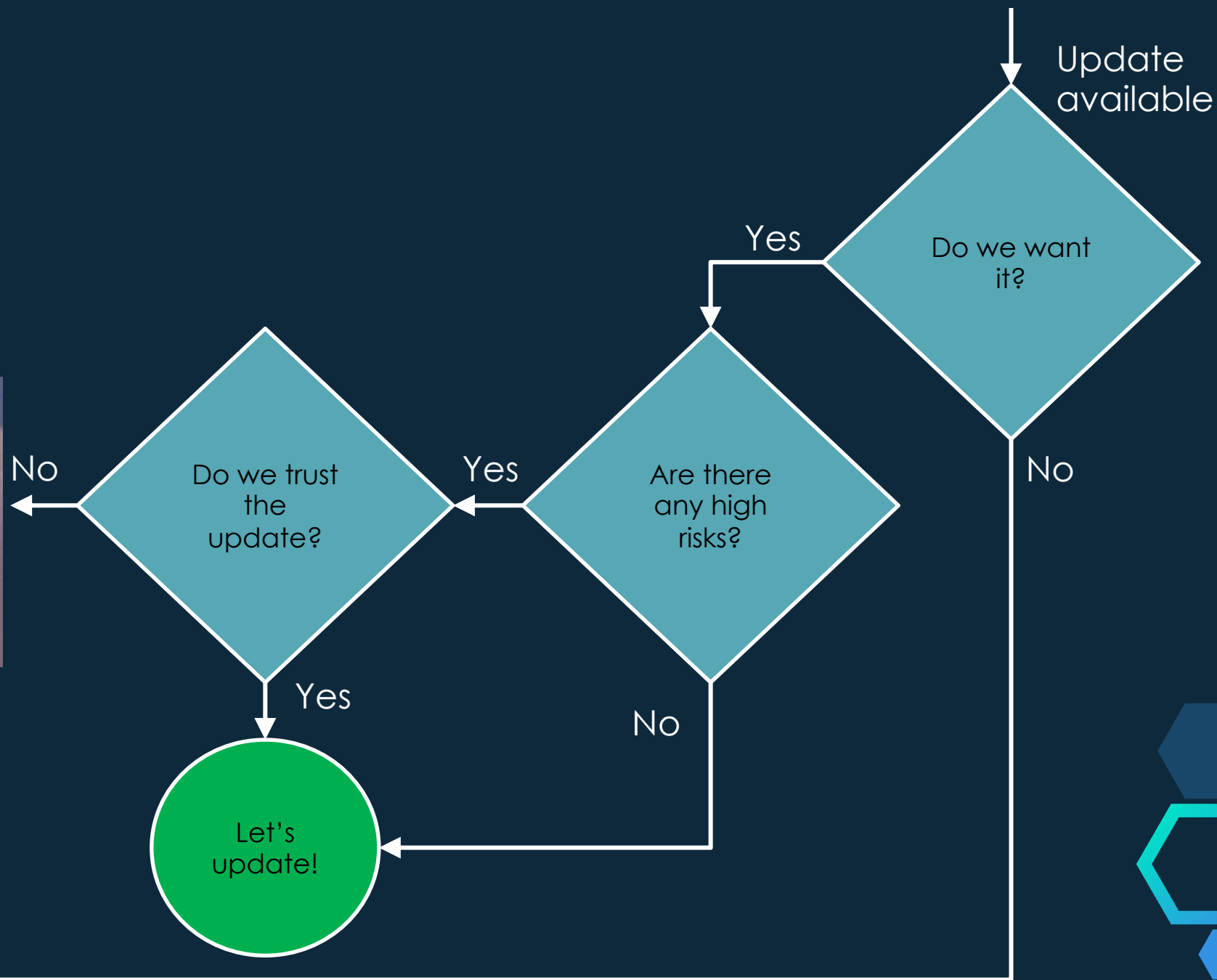
HOW DO WE UPDATE

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How about no





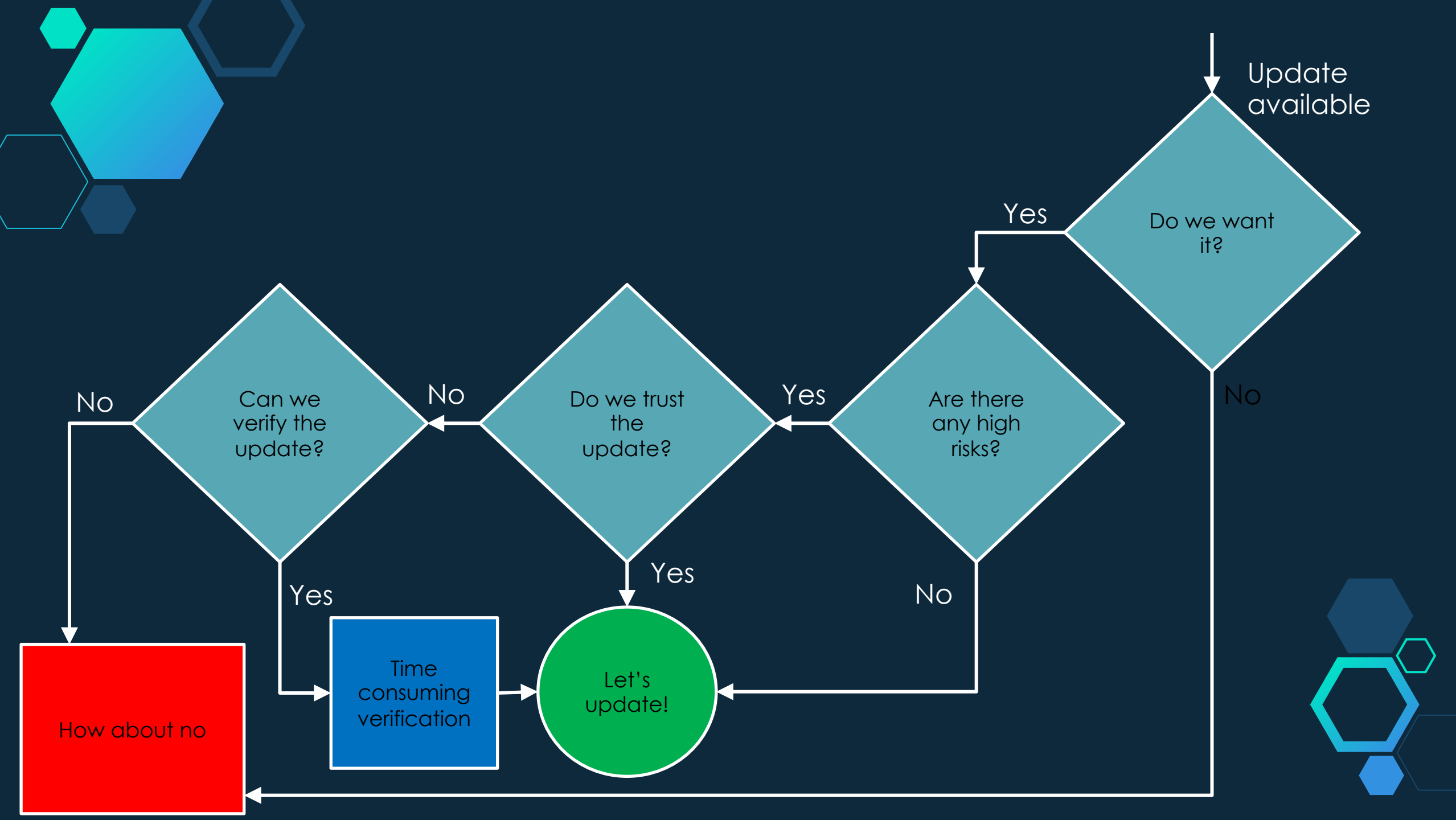
■ Acceptance tests




■ “The dreadful updates



- Impossible dilemma: we need the update, but it will break things







Features that
we want



Acceptance
tests costs

ACCELERATE

State of DevOps 2019

Sponsored by

WHO TOOK THE SURVEY?



DORA's research provides insight into software development and DevOps practices applied in industry, backed by scientific studies spanning six years with **over 31,000 survey responses** from working professionals. This year, almost 1,000² individuals from a range of industries around the world added their voices to the 2019 Report. Overall, we see similar representation across key demographic and firmographic measures when compared to last year, other than a noticeable drop in the reported percentage of women on teams.

20%

ELITE
PERFORMERS

23%

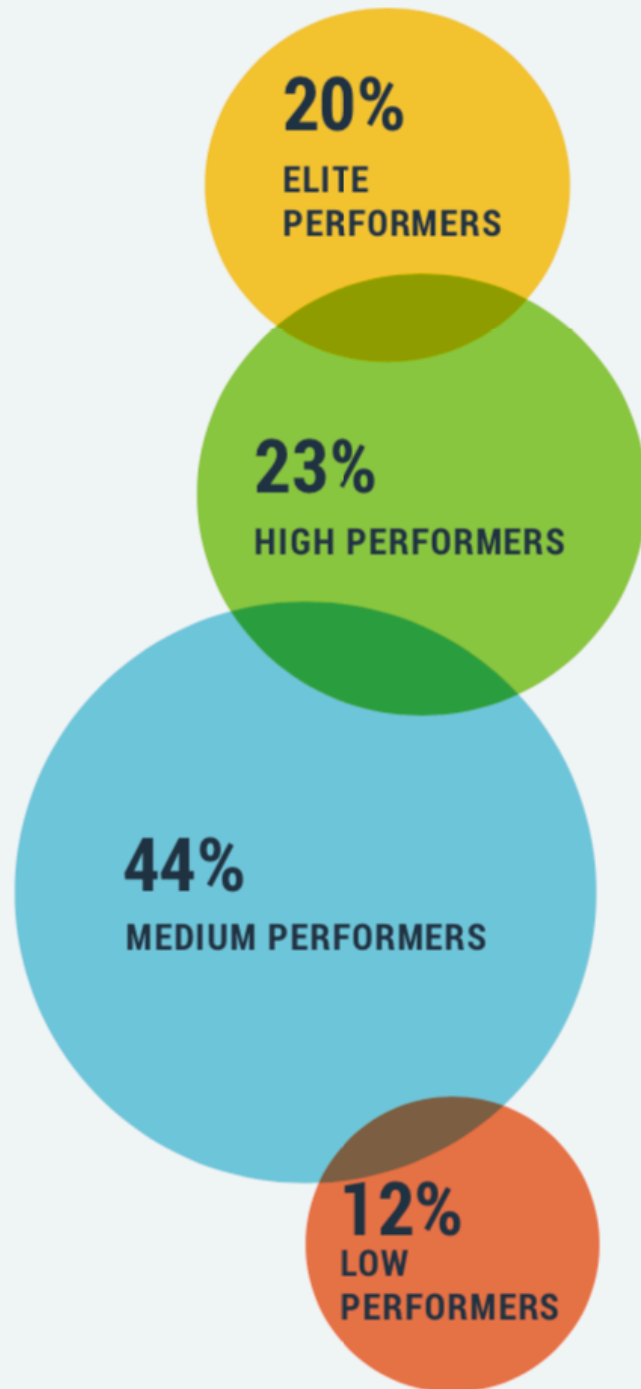
HIGH PERFORMERS

44%

MEDIUM PERFORMERS

12%

LOW
PERFORMERS





Aspect of Software Delivery Performance*

Elite

Deployment frequency

For the primary application or service you work on, how often does your organization deploy code to production or release it to end users?

On-demand
(multiple
deploys per day)





This is not a new idea!

- XP: short feedback
- Scrum: reducing cycle time to absolute minimum
- TPS: Decide as late as possible and Deliver as fast as possible
- Kanban: Incremental change



Continuous updates

- 
- Frequent
 - Automatic
 - Tested
 - Canary
 - State-aware
 - Observability
 - *Local Rollbacks

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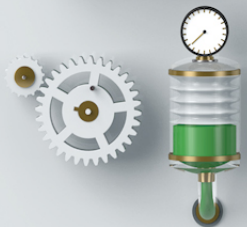
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Liquid SOFTWARE



**How to Achieve Trusted
Continuous Updates in
the DevOps World**

Fred Simon, Yoav Landman,
Baruch Sadogursky







You don't offload quality tests to customers

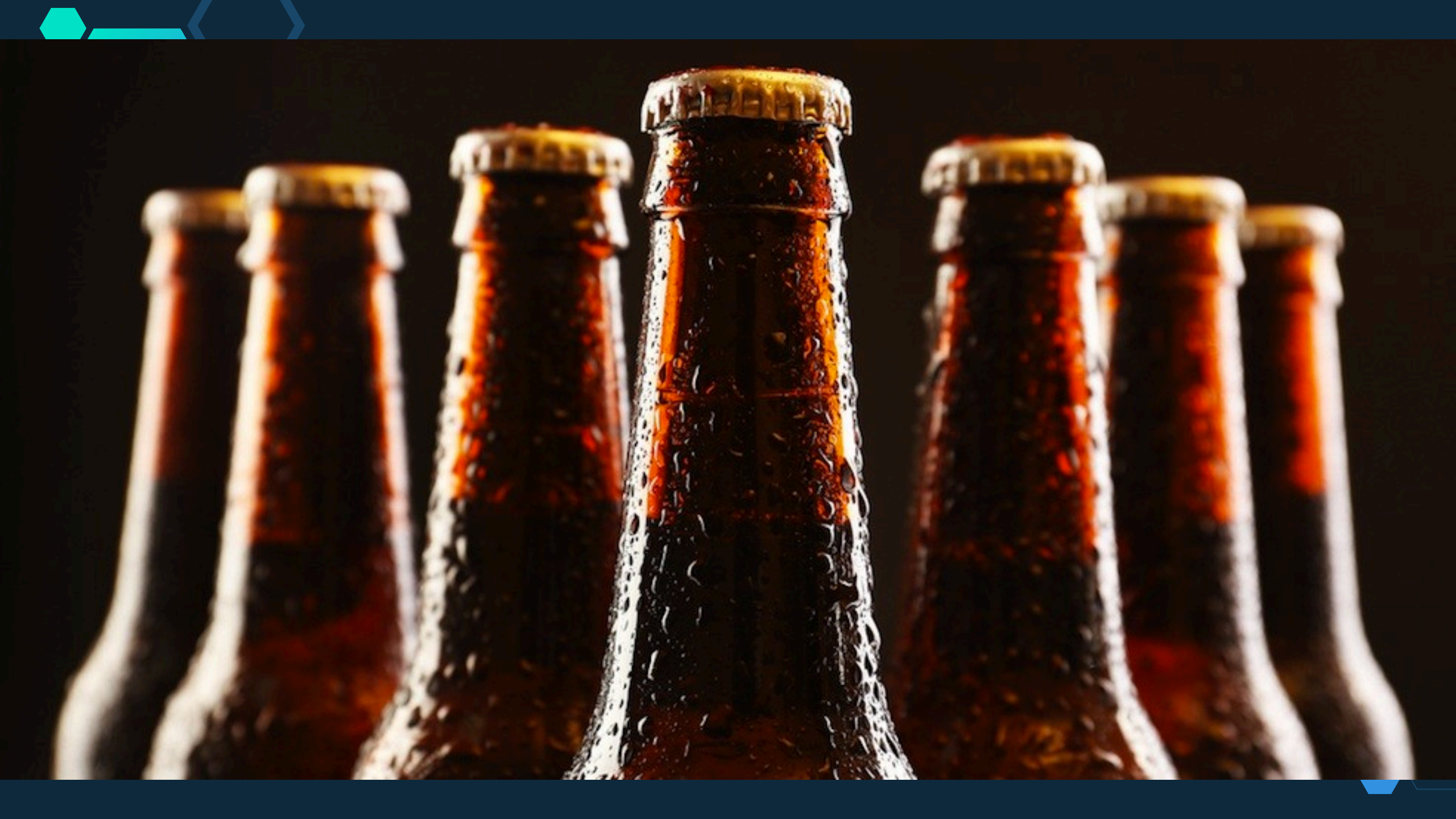


The customers are always ready to update



You just lost the last excuse for not releasing fast







Education

Automation

Trust

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Pain is instructional



“

You need to know,
You need to believe,
You need to give a sh*t



Also,



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“Activation Energy”



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First push is hard

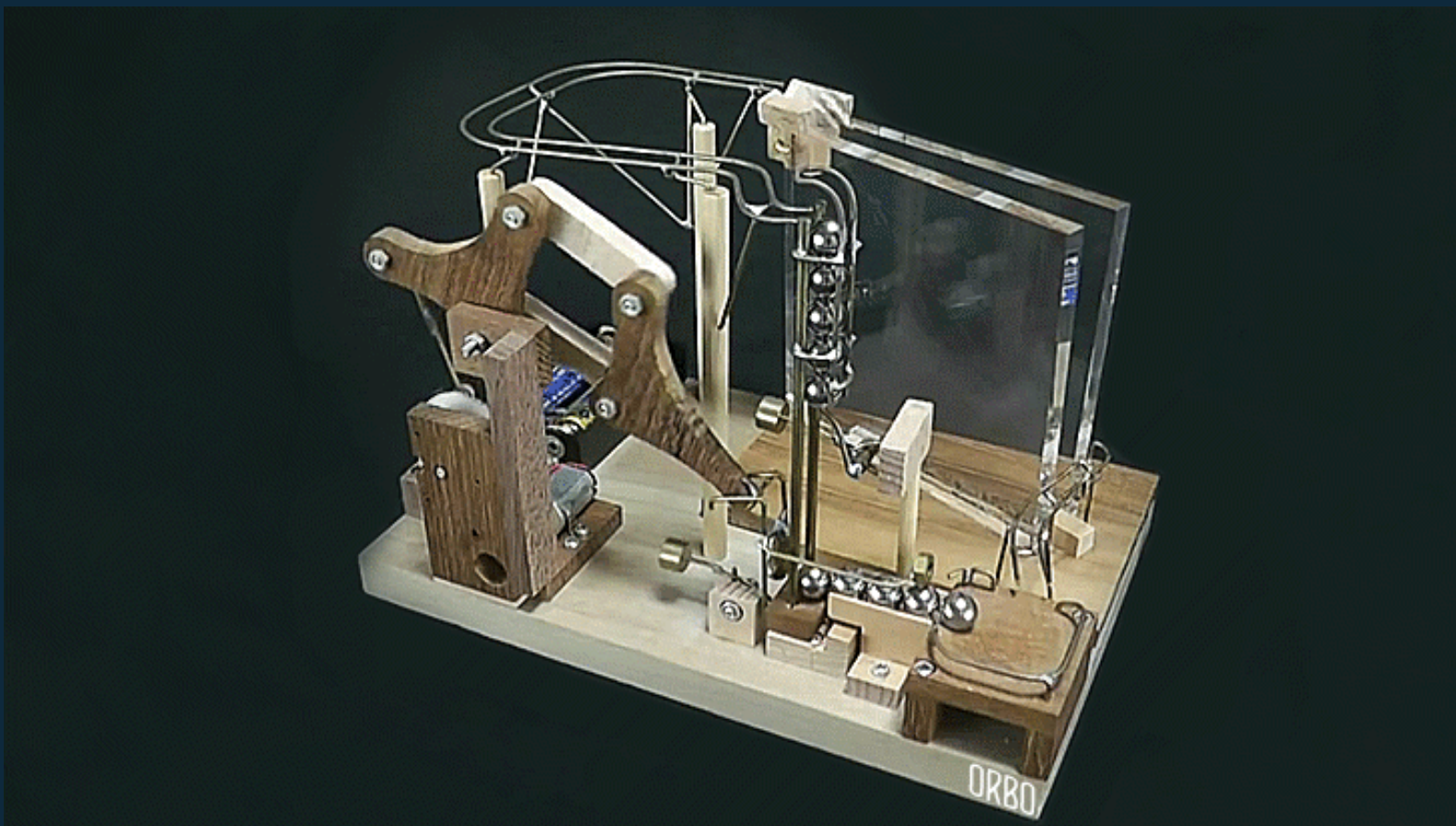
“

Keep your eye on the prize

For an older code base this could take more than a year to achieve, but its still worth it



Tools

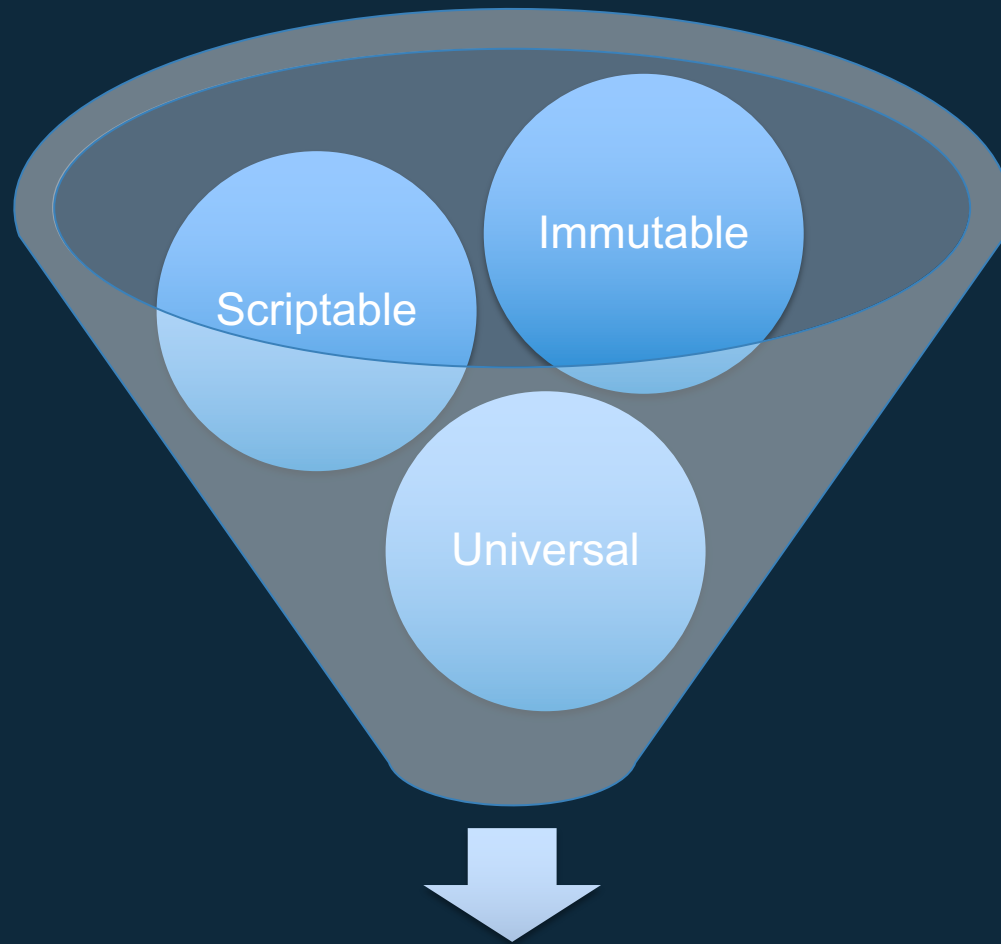


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Repeatable!



Guide, don't dictate
Aim for the 80%

Tool	Rating
Java	Invest
JFrog Artifactory	Invest
JFrog Xray	Research
Gradle	Invest
Maven	Maintain
Ant	Divest





Let's talk about trust



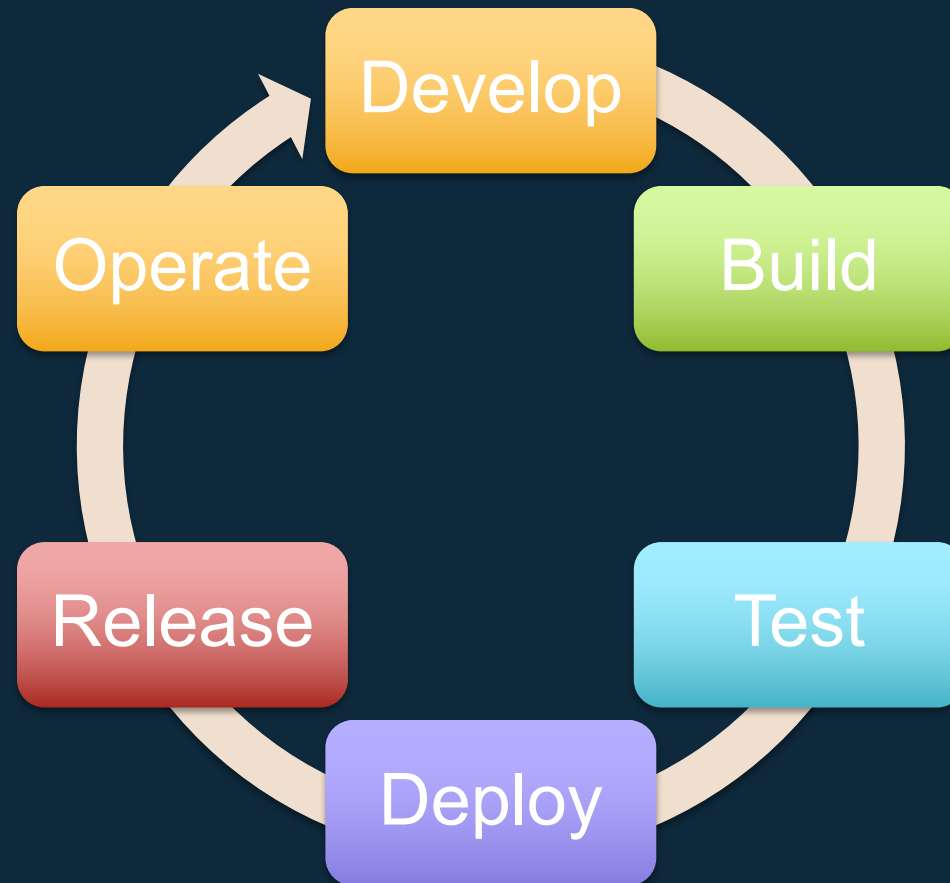
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Remember this?

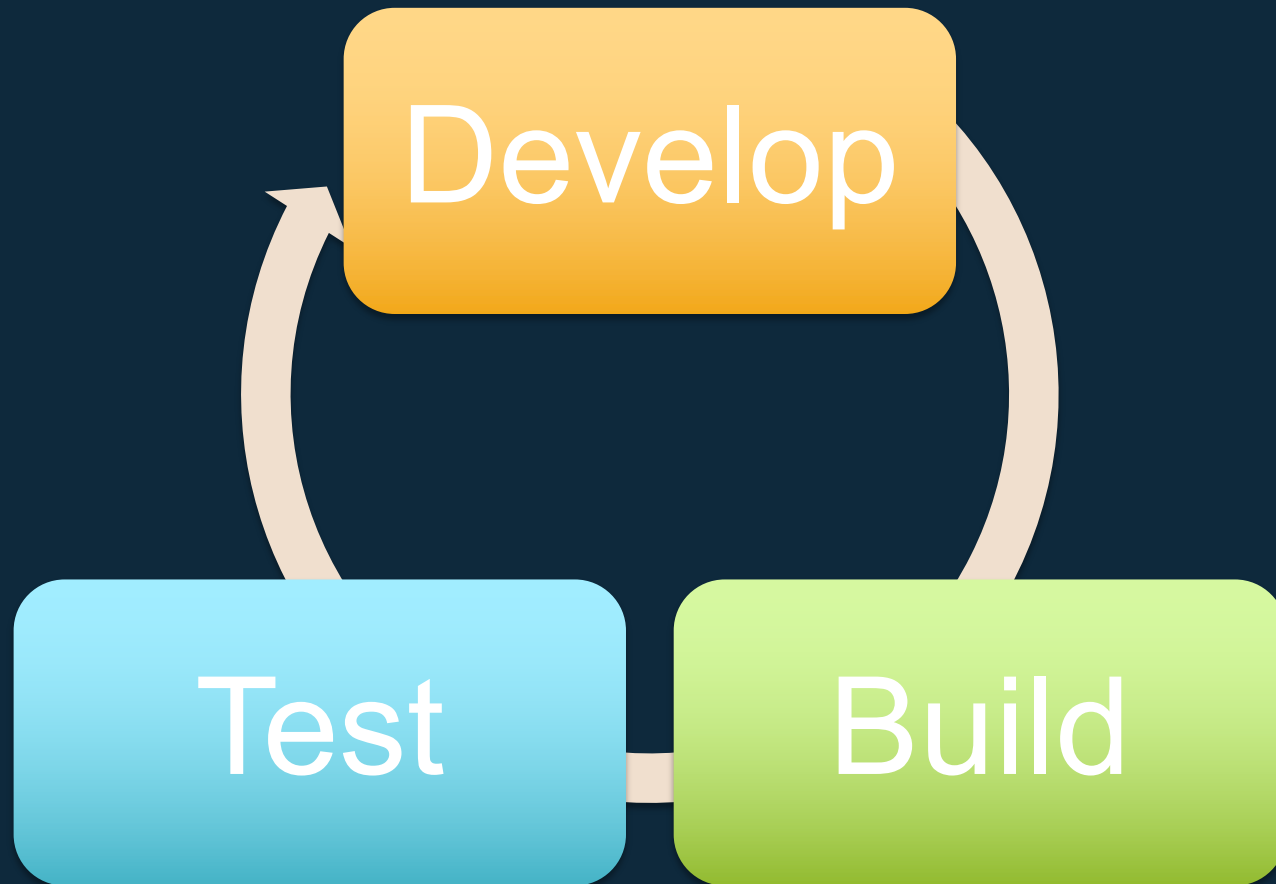


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Some commits should fail!



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Quality is the bottleneck

Automatic testing is not enough

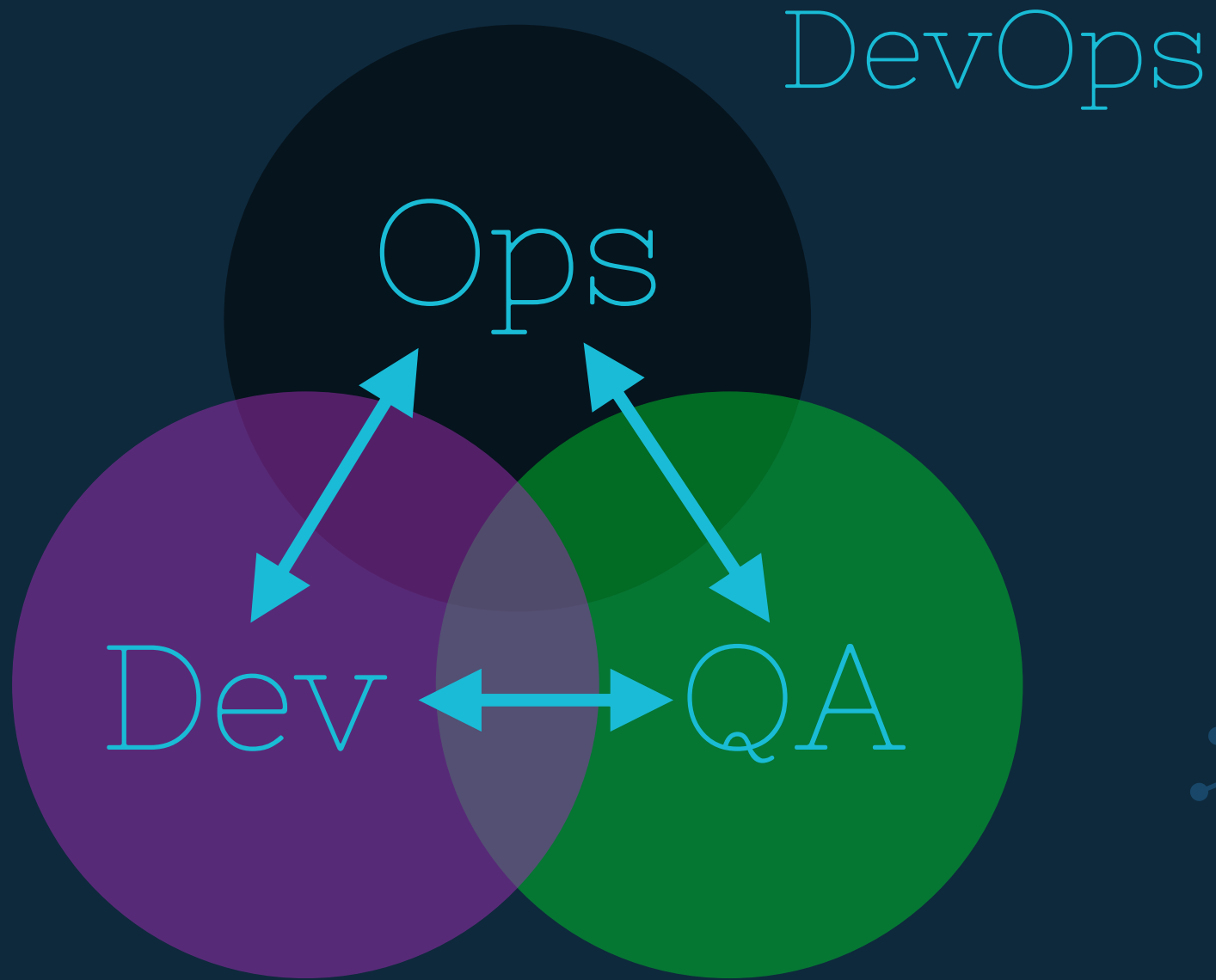
The “big green button” concept is lack of trust in quality



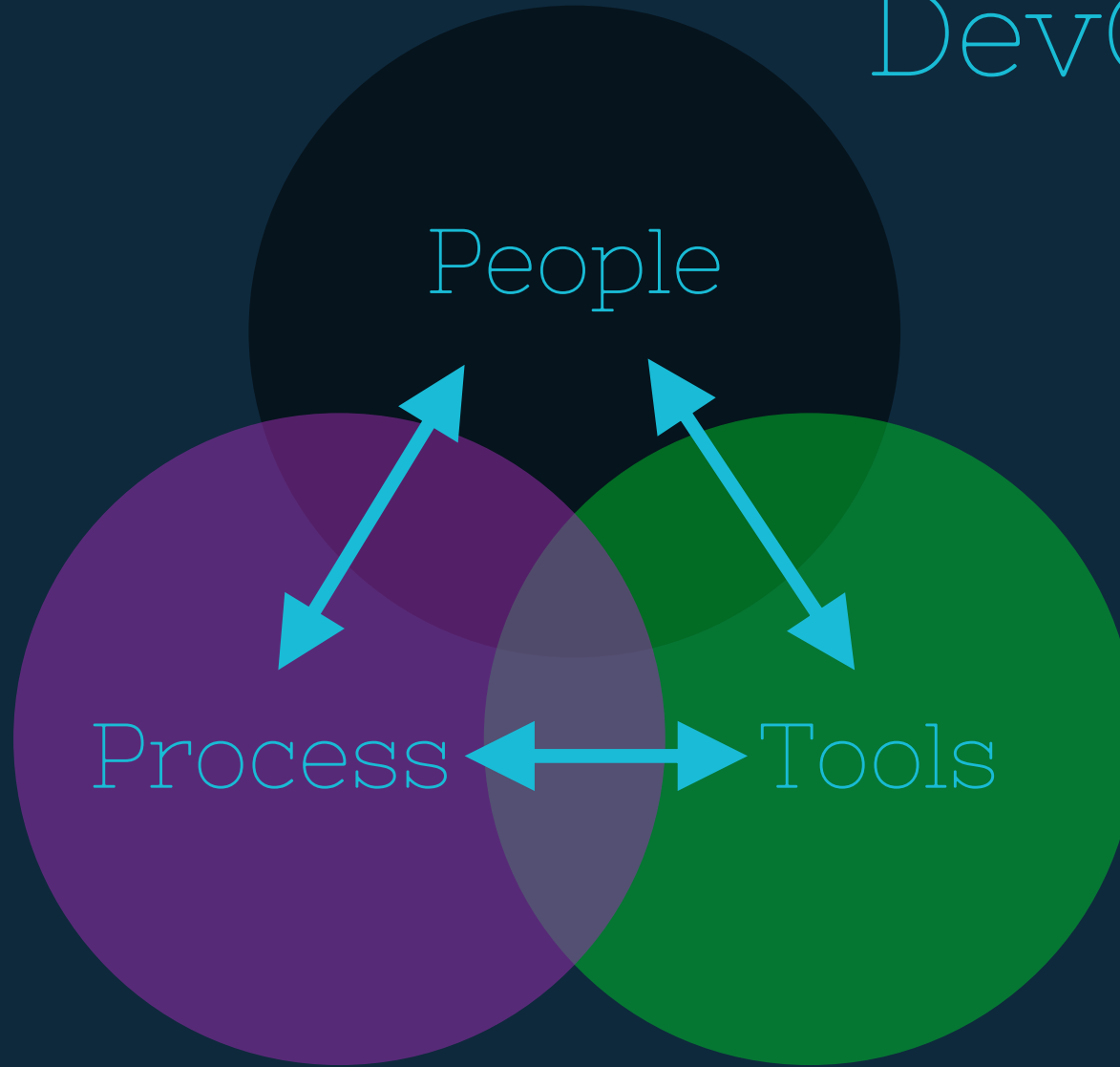
Quality is the bottleneck

Automatic testing is not enough, but
we can use our customers as testers

Canary releases



DevOps

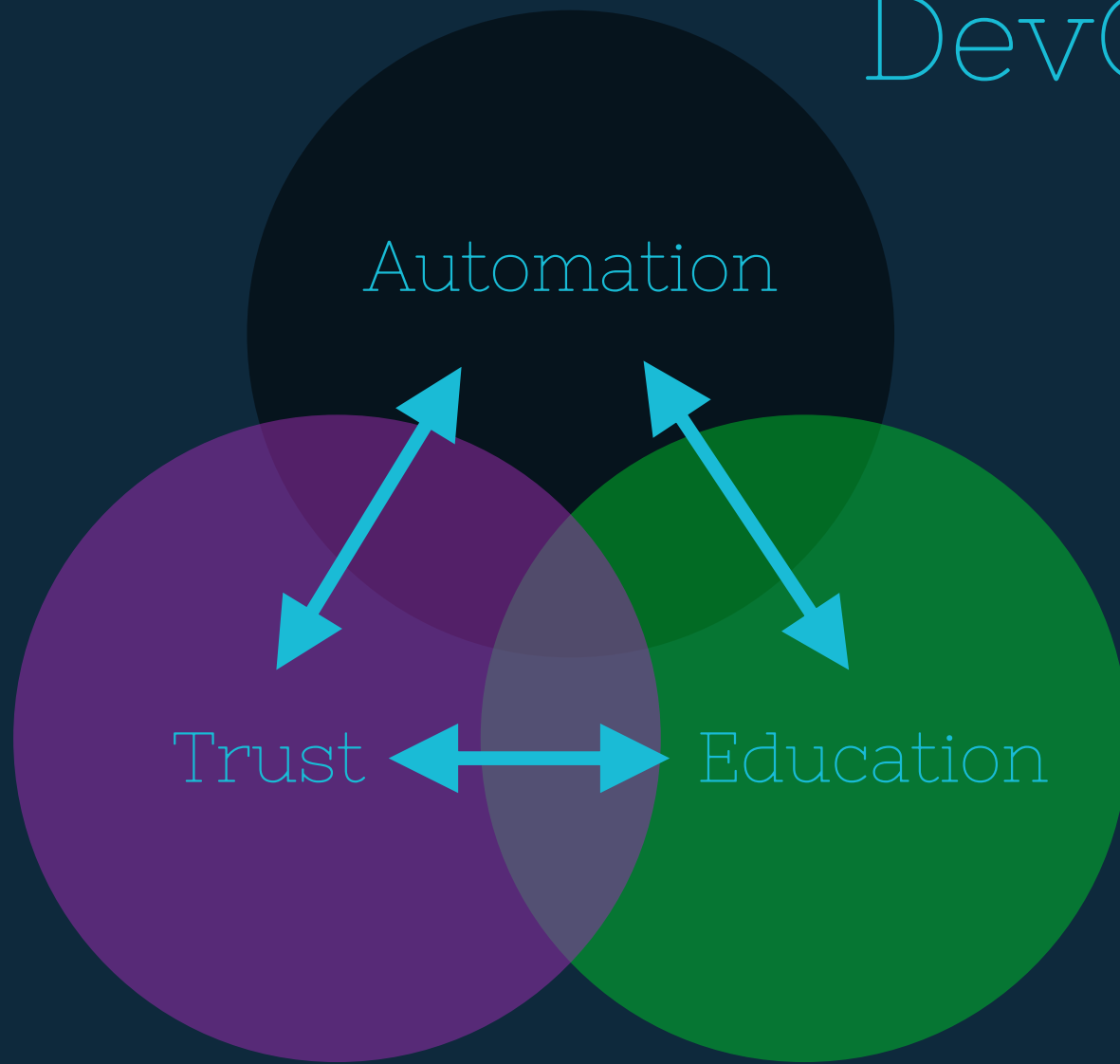


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QA & Twitter Ads

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