




“The bottleneck is never code or creativity; it’s lack of clarity”
Scott Berkun



How to Go Fast and Not Get
Buried in the Dust

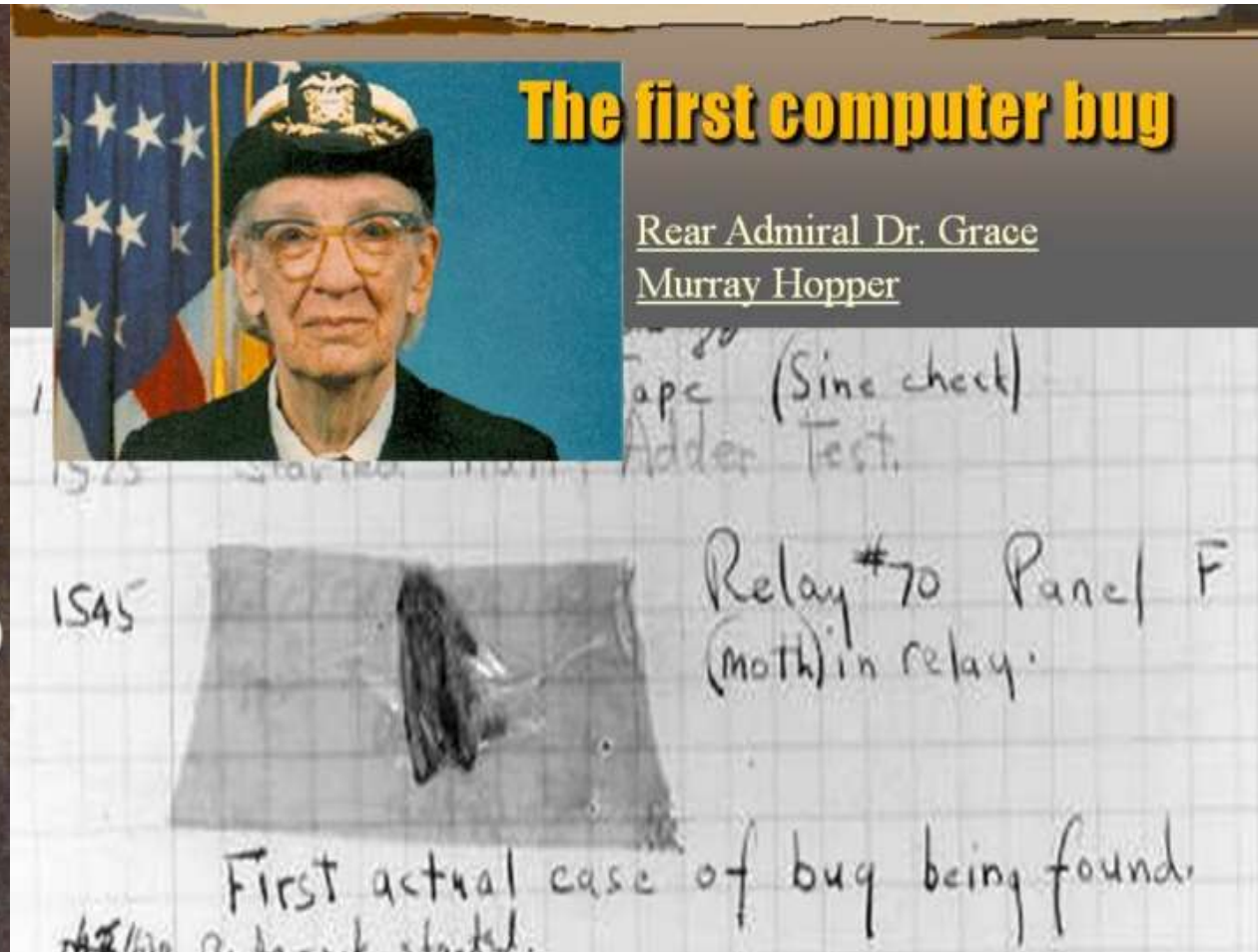
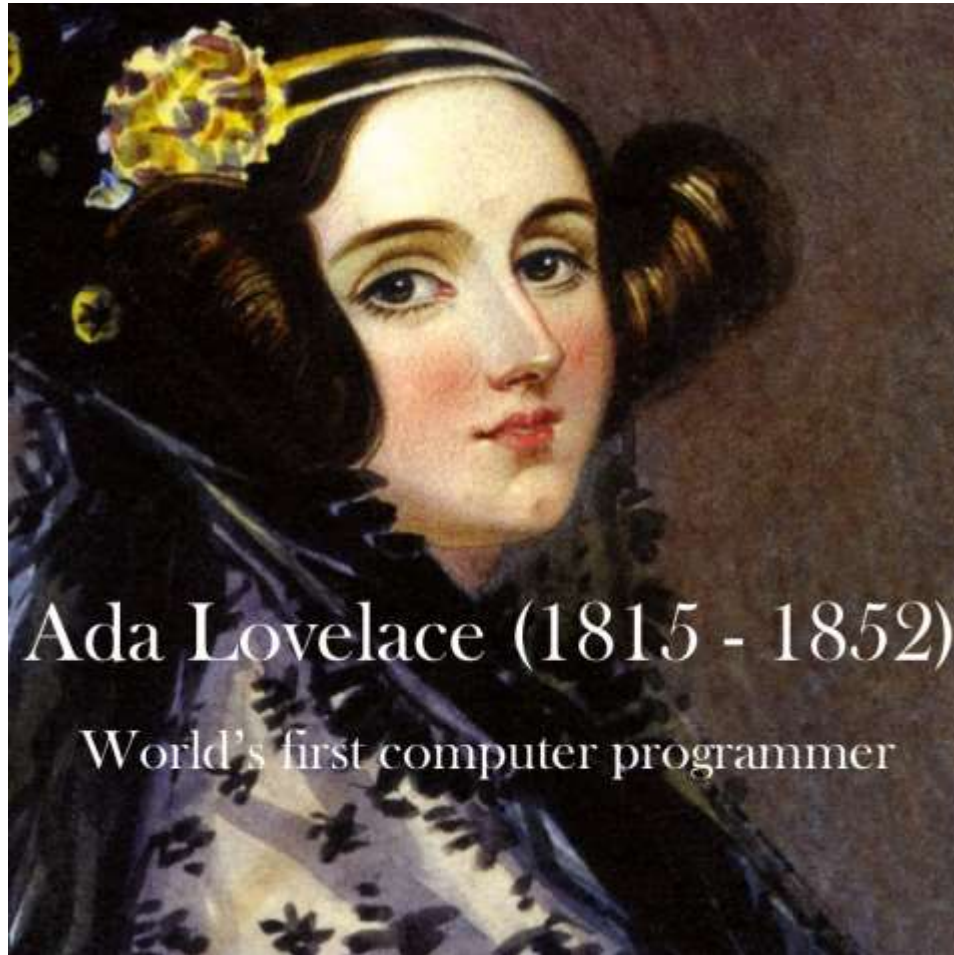
Tanya Kravtsov

Hello my name is

- Senior Director of QA at  an amazon company
- Co-lead of  Audible
- Founder of  Meetup group
- Developer turned Tester

**Tanya
Kravtsov**

My Inspirations



Agenda

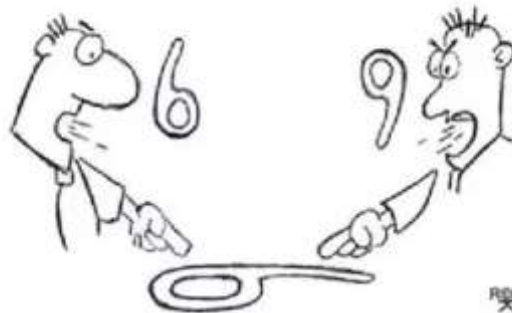
- + Identify Bottlenecks
- + Culture of Shared Quality
- + Automation
- + Lean Delivery
- + Continuous Improvement
- + Shared Learnings



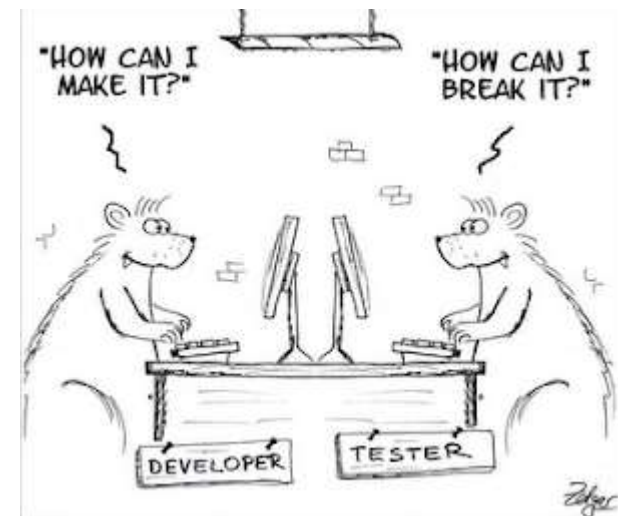
Word on the street...



Developer V/s Tester



**You know you
are a tester when
the office loses
power and
everyone looks
to see what you
did.**





What is a Bottleneck? (official definition)

“A problem that delays progress”

Merriam-Webster Thesaurus

What is a Bottleneck? (unofficial definition)

“Any improvements made anywhere besides the bottleneck are an illusion”

“The Phoenix Project” by Gene Kim



“To address this mistake we must use root-cause analysis. I’ll begin by saying it’s not my fault.”

+ Identify Bottlenecks

+ Culture of Shared Quality

+ Automation

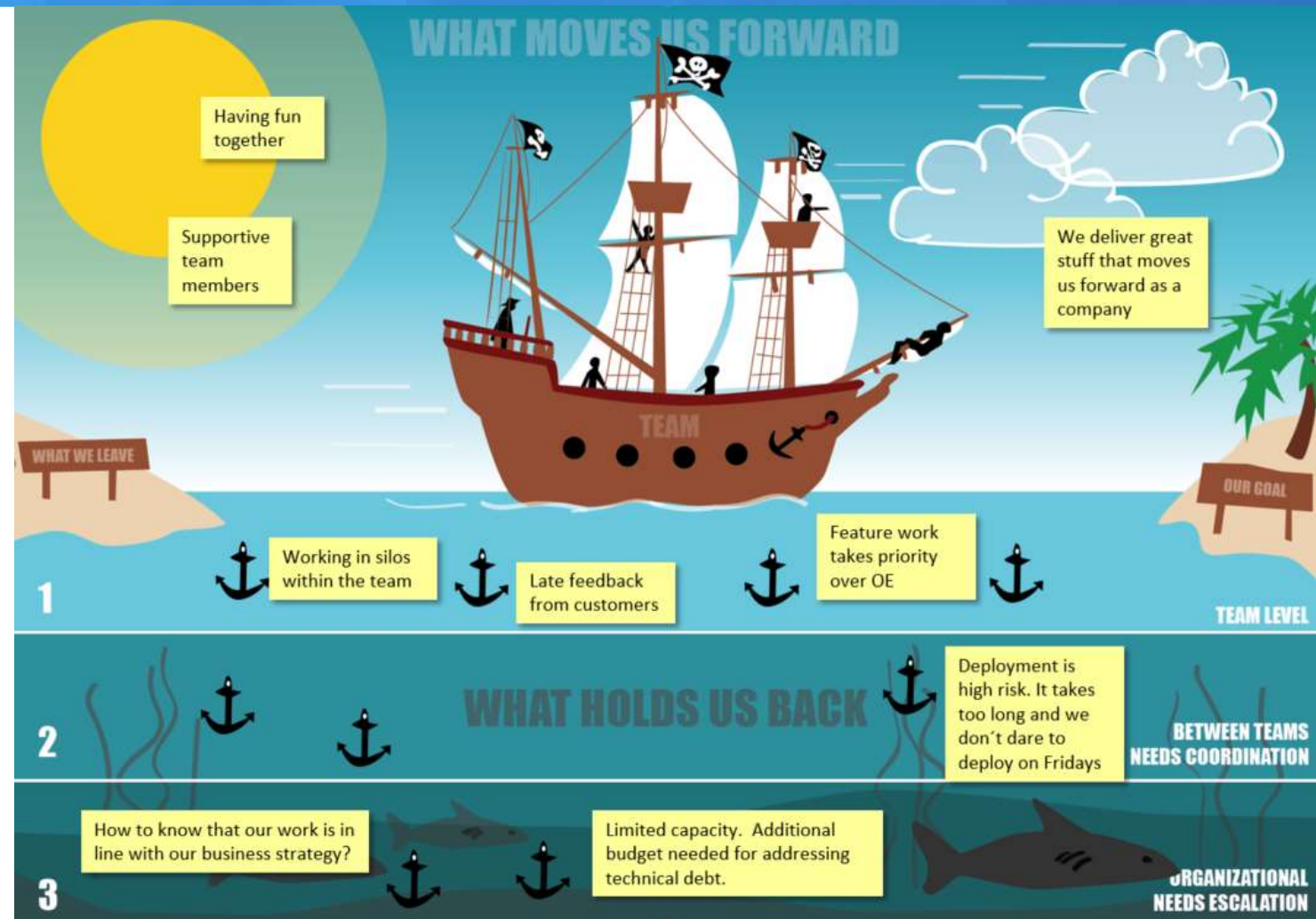
+ Lean Delivery

+ Continuous Improvement

+ Shared Learnings

Speed Boat Game

- + Boat is our System/Process
- + Anchors are what's holding it back
- + The deeper the anchor, the higher the impact
- + Limited # of anchors



Mind Maps

- + Create a Central Idea
- + Add branches
- + Add keywords
- + Color code
- + Add images



Run Retrospectives

+ Start

+ What can we do better?

+ Stop

+ What doesn't work?

+ Continue

+ What do we do well?

Continue doing



Stop doing

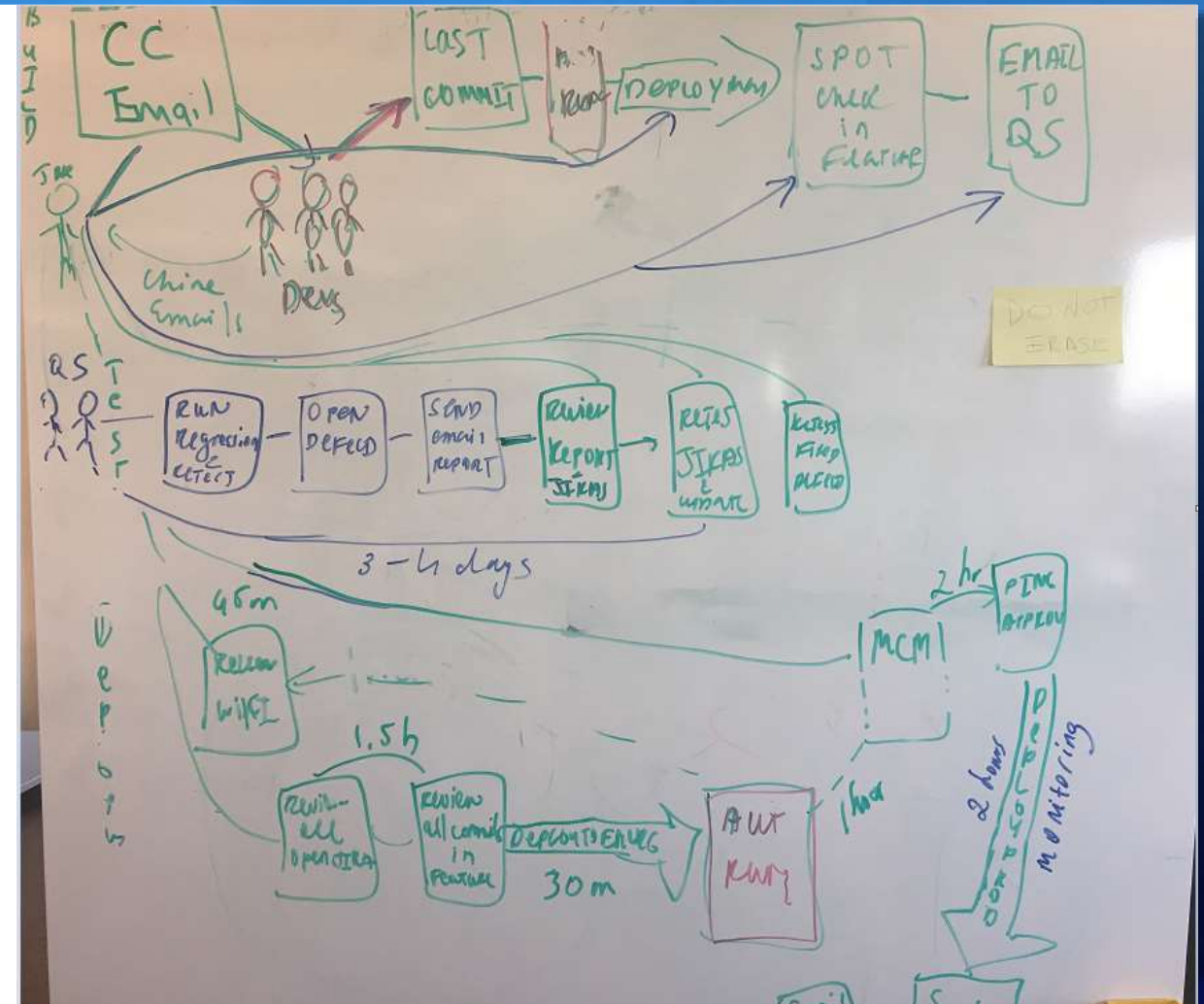
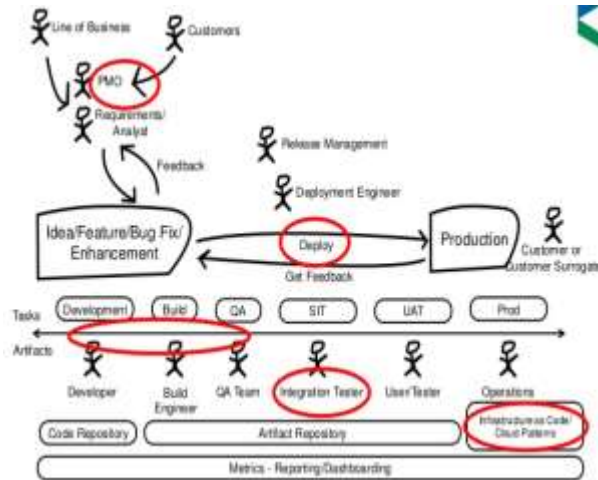


Start doing



Map your Delivery Pipeline

- + Identify all players in the system
- + Identify all handovers between the players
- + Identify all supporting artifacts
- + Record Time for each process/handover



Transformation Enablers



+CULTURE



+AUTOMATION



+LEAN



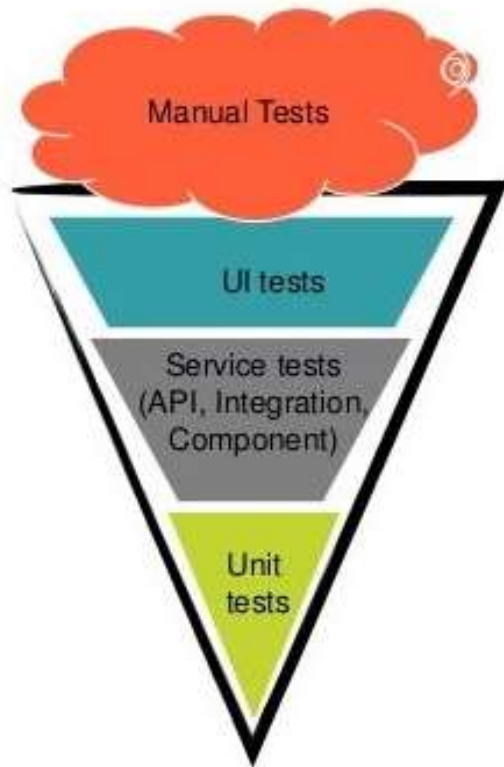
+MONITORING



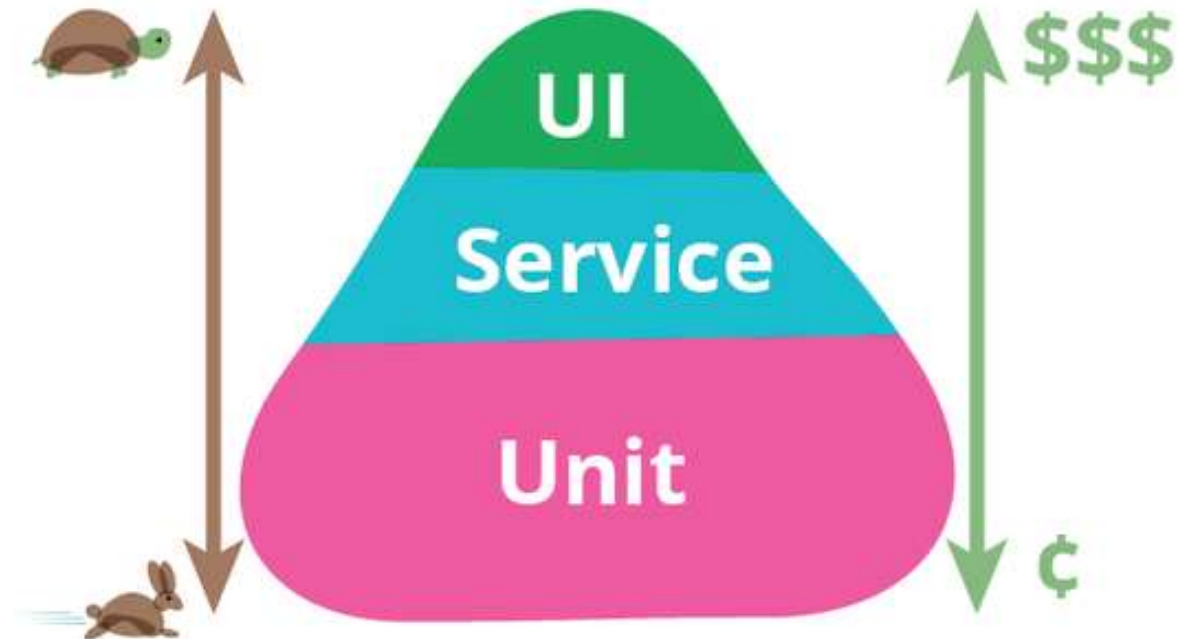
+SHARING

From Ice Cream Cone to an Iceberg

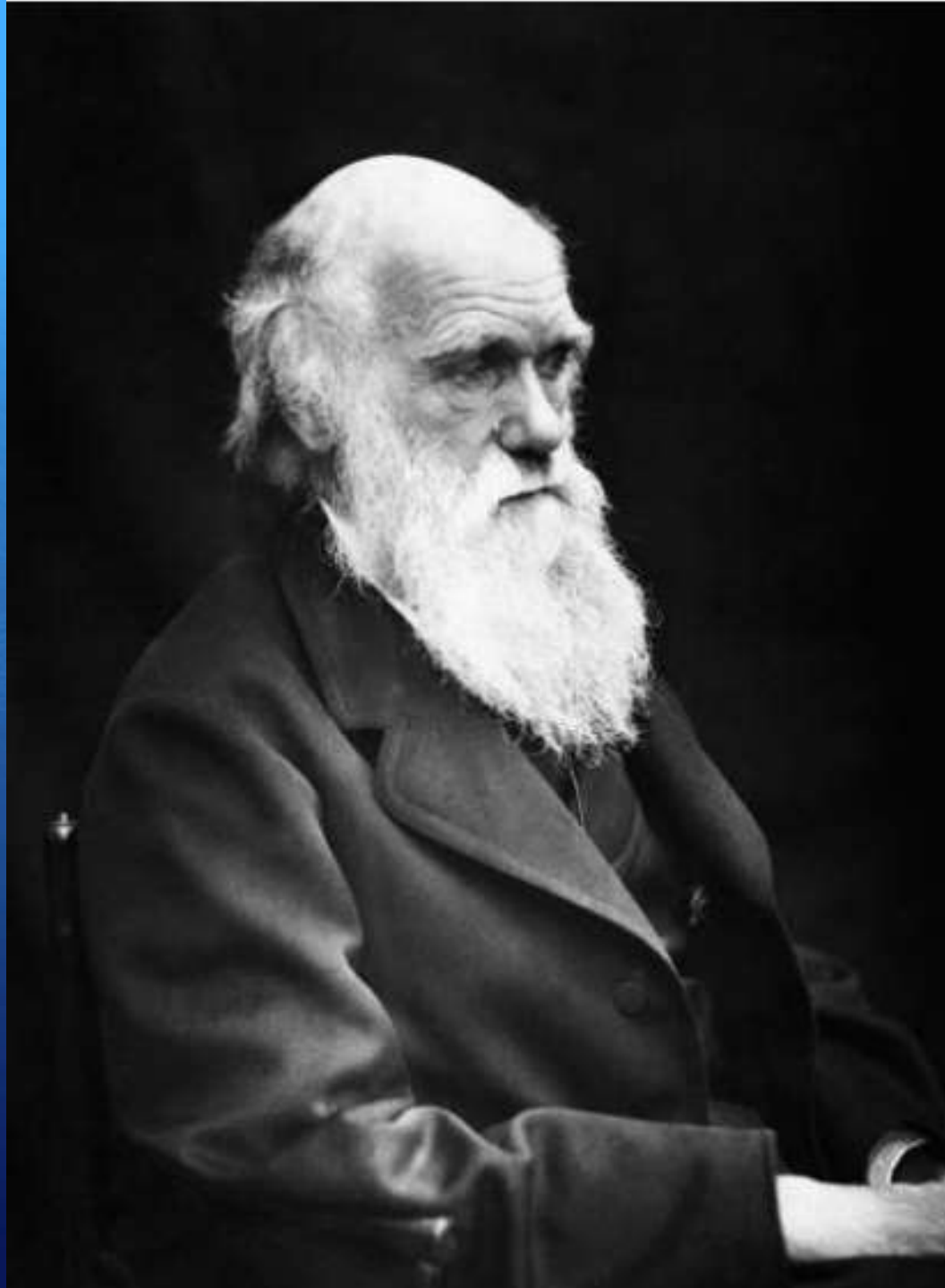
BEFORE



AFTER



Inspirational Timeout



“It is not the strongest of the species that survive, nor the most intelligent, but the one most adaptable to change.”

- Charles Darwin

How people reacts differently to a single word.

"Bug"



Tester



Developer



Manager

- + Identify Bottlenecks
- + Culture of Shared Quality
- + Automation
- + Lean Delivery
- + Continuous Improvement
- + Shared Learnings

From “Over the Fence” to “Shared Quality”

BEFORE

- + Quality Assurance
- + Separate Planning
- + Dev Epics and QA Epics
- + DoD = Dev Complete
- + Testing after Dev is done
- + Automation next Sprint
- + QA Signoff



AFTER

- + Quality Engineering
- + Joint Planning
- + One Epic for Dev and QA
- + DoD = Dev and Test Complete
- + Testing embedded at every stage
- + Automation in-sprint
- + Launch Readiness Review



- + Identify Bottlenecks
- + Culture of Shared Quality
- + Automation**
- + Lean Delivery
- + Continuous Improvement
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Manual Processes

- + Test Data Generation
- + Web Services Testing
- + UI Testing
- + Metrics Instrumentation
- + Release Notes
- + Deployments



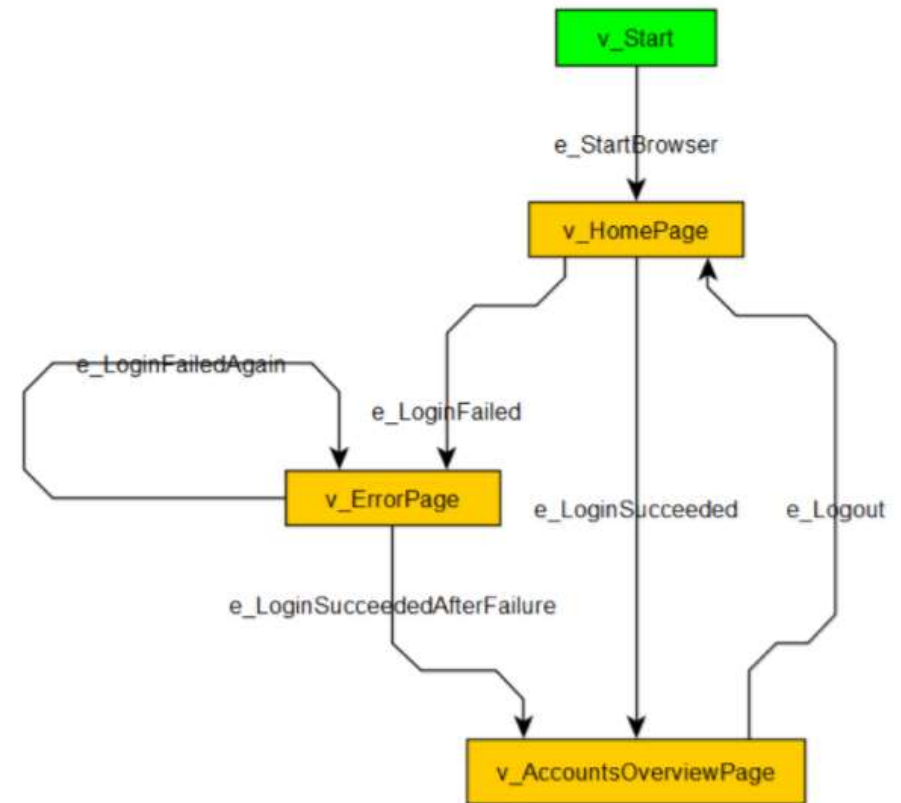
Testing Smart

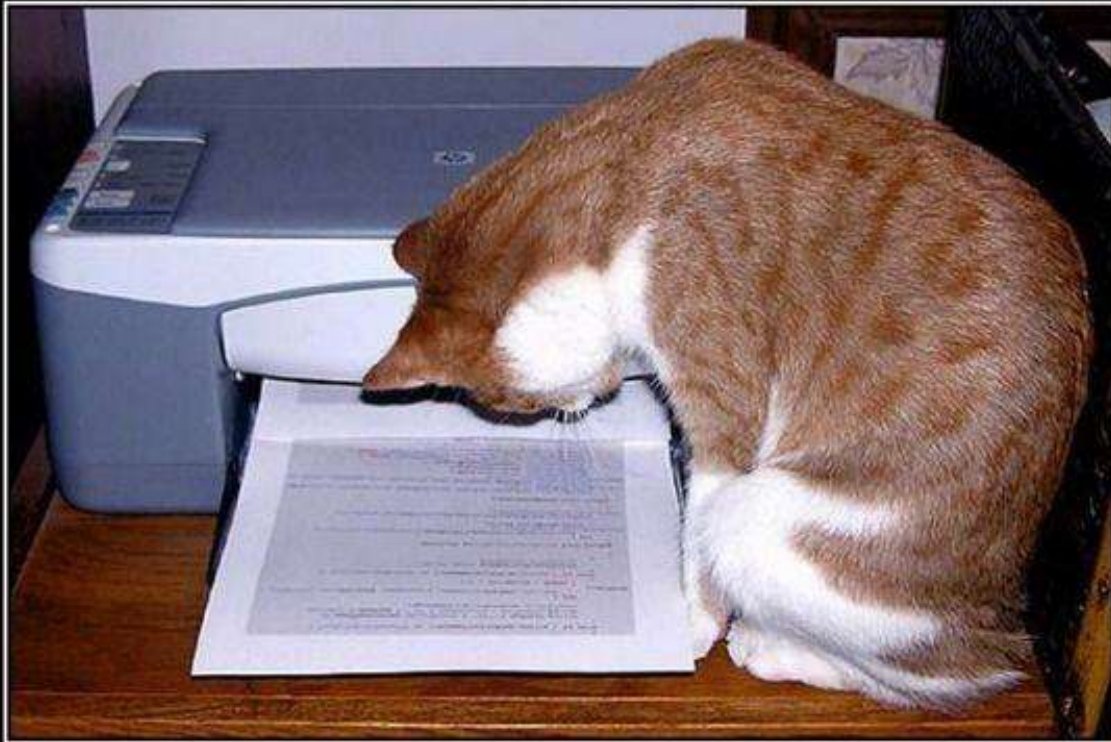
- + Targeted testing
- + Release notes based
- + Packages mapped to Features to Test Cases
- + Manual and Automated
- + Automation Prioritization mechanism
- + Self-learning



Exploratory Testing

- + You miss things you are not looking for
- + Discover Known and Unknown Unknown
- + Each step is based on the answer to the previous questions
- + Model-Based Testing





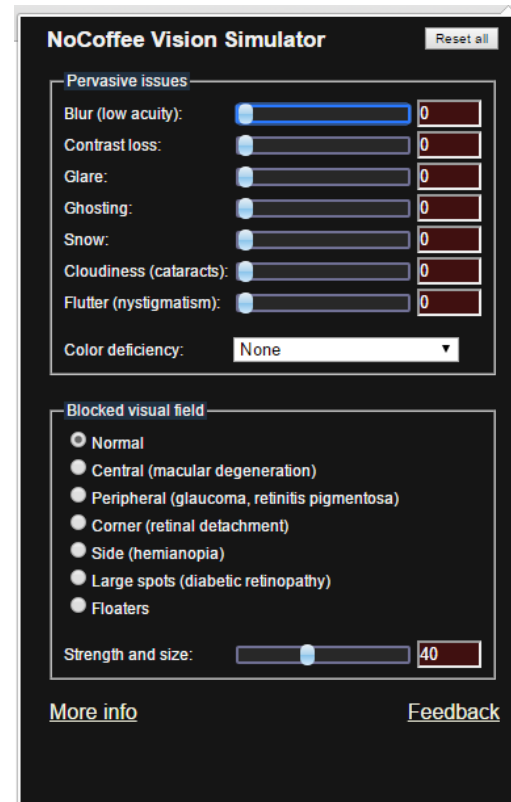
CODE REVIEWS

An essential step to ensure code quality.

- + Identify Bottlenecks
- + Culture of Shared Quality
- + Automation
- + Lean – Test Early and Often**
- + Continuous Improvement
- + Shared Learnings

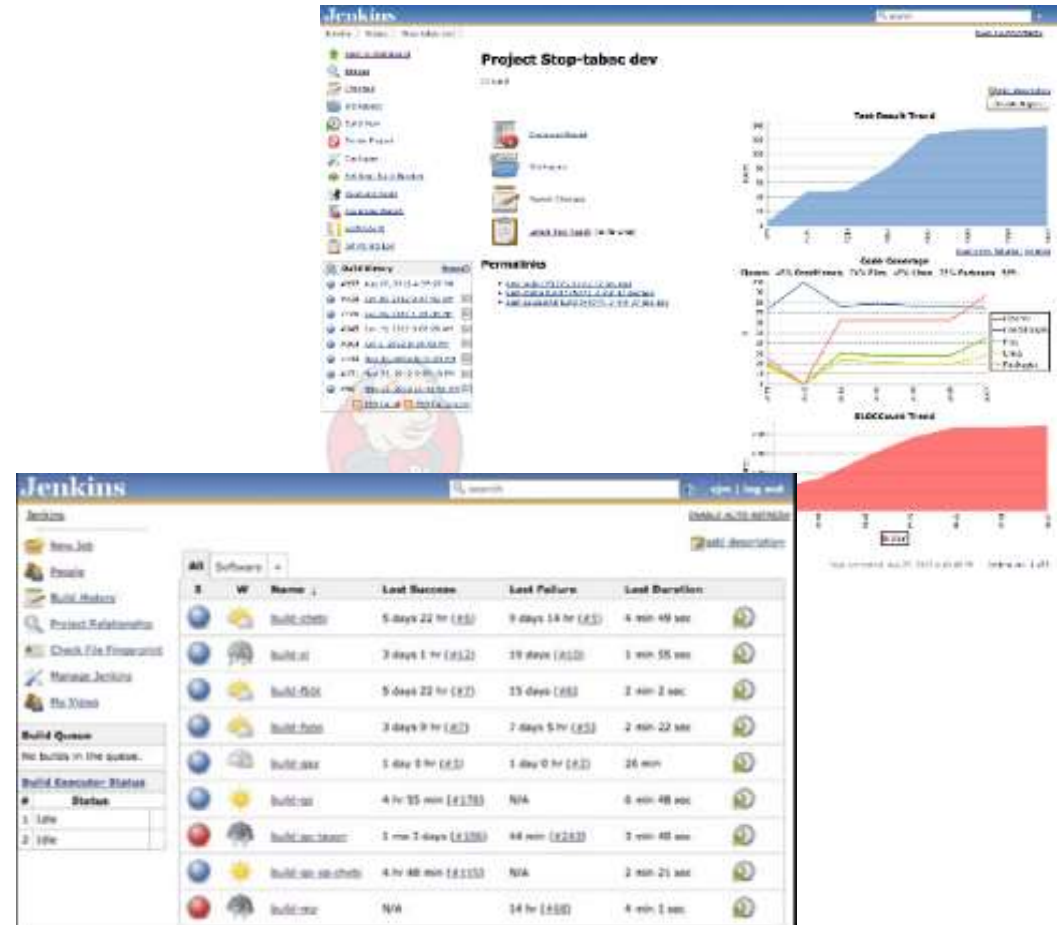
Static Analysis

- + Code Coverage
- + Memory Leaks
- + Security vulnerabilities
- + Accessibility evaluation
- + SEO analysis



Automated Pipelines Best Practices

- + Code review verification
- + Static Code analysis
- + SonarQube
- + Onebox and Onebox Monitors
- + Unit Test Coverage
- + Integration Test Coverage
- + Load tests





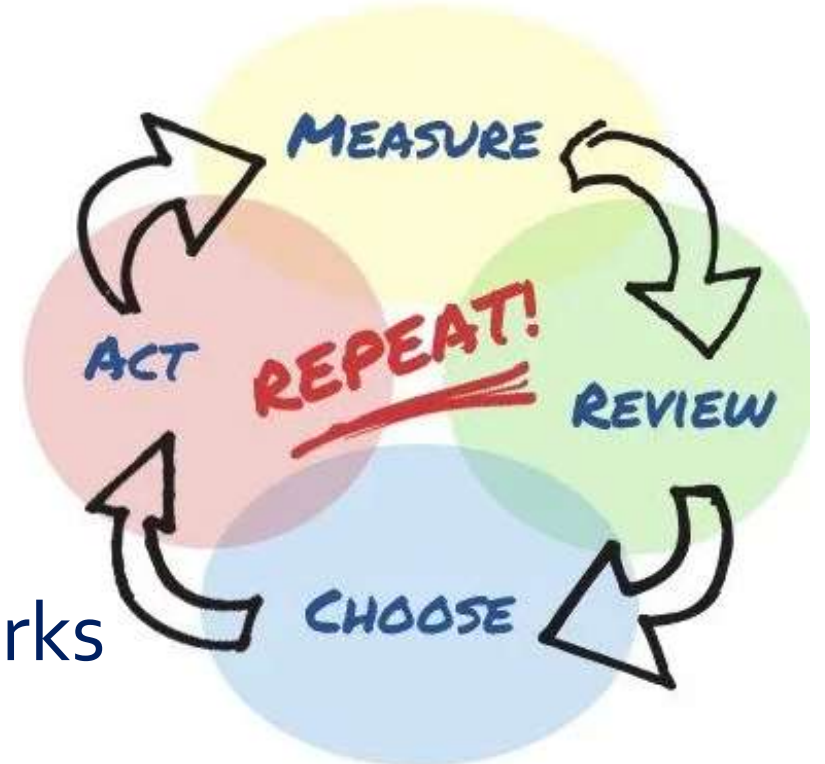
- + Identify Bottlenecks
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Feedback Loop



Feedback Loop

- + Post-Mortem for Production Issues
- + Team/Org OE Meetings
- + Retrospectives
- + Quality Forum
- + User reported issues for Tools/Frameworks



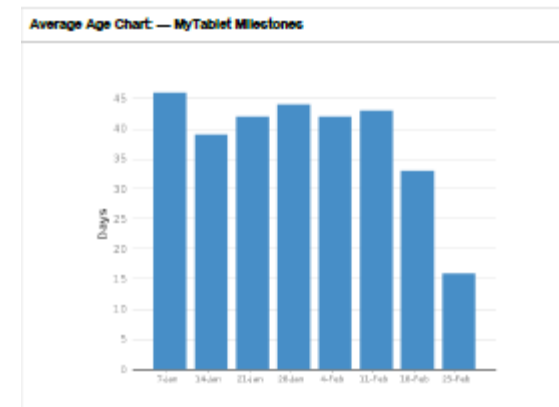
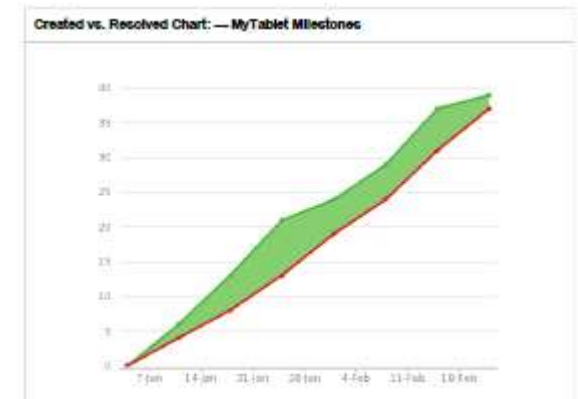
Continuous Monitoring

- + Test Coverage
- + Automation Stability
- + Frequent failures
- + Execution Times
- + Infrastructure
- + Performance



Continuous Delivery KPIs

- + Opened vs. Resolved & Defect Aging
- + Customer issues volume
- + Mean time to recovery (MTTR)
- + Speed to deployment vs. Bugs missed





- + Identify Bottlenecks
- + Culture of Shared Quality
- + Automation
- + Lean – Test Early and Often
- + Continuous Improvement
- + Shared Learnings

Share Learnings

- + Team Demos/Huddles/Lunch n' Learns
- + Workshops/Broadcasts/Conferences
- + Learning Hubs
- + Newsletters
- + Quality theme Happy Hours



A Conclusion
is the place
where you
got tired of
THINKING

- + Identify Bottlenecks
- + Culture of Shared Quality
- + Automation
- + Lean – Test Early and Often
- + Continuous Improvement
- + Shared Learnings
- + In Conclusion

Inspirational Timeout



Great leaders don't blame
the tools they are given.
Great leaders work to
sharpen them.

Simon Sinek


EMBED DOWNLOAD ADD

91 En Xlr XL Release	92 En Ur UrbanCode Release	93 En Bm BMC Release Process	94 En Hp HP Coder	95 En Au Automic	96 En Pl Plutora Release	97 En Sr Serena Release	98 Pd Tfs Team Foundation	99 Fm Tr Trello	100 Pd Jr Jira	101 Fm Rf HipChat	102 Fm Sl Slack	103 Fm Fd Flowdock	104 Pd Pv Pivotal Tracker	105 En Sn ServiceNow
106 Os Ki Kibana	107 Fm Nr New Relic	108 Os Ni Nagios	109 Os Zb Zabbix	110 En Dd Datadog	111 Os El Elasticsearch	112 Os Ss StackState	113 En Sp Splunk	114 Fm Le Logentries	115 Fm Sl Sumo Logic	116 Os Ls Logstash	117 Os Gr Graylog	118 Os Sn Snort	119 Os Tr Tripwire	120 En Ff Fortify

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What's Next?

**TAKE
ACTION
NOW!**

A yellow stick figure is depicted in a dynamic, jumping pose, positioned above the word 'ACTION' in the phrase 'TAKE ACTION NOW!'. The figure's arms are outstretched, and its legs are bent, suggesting movement. The entire graphic is rendered in a bold, hand-drawn style with thick black outlines.

Inspirational Timeout

Fall in love
with the problem
not the solution.

Uri Levine, co-founder of Waze



@DevOpsQA



kravtst@audible.com

Thank you

