



STOP! You're automating too much!
(and other tales from the field)

**My name is Shawn and
I'm a software developer**



Why is test automation
a good idea?

**Our existences are about
precise communication**

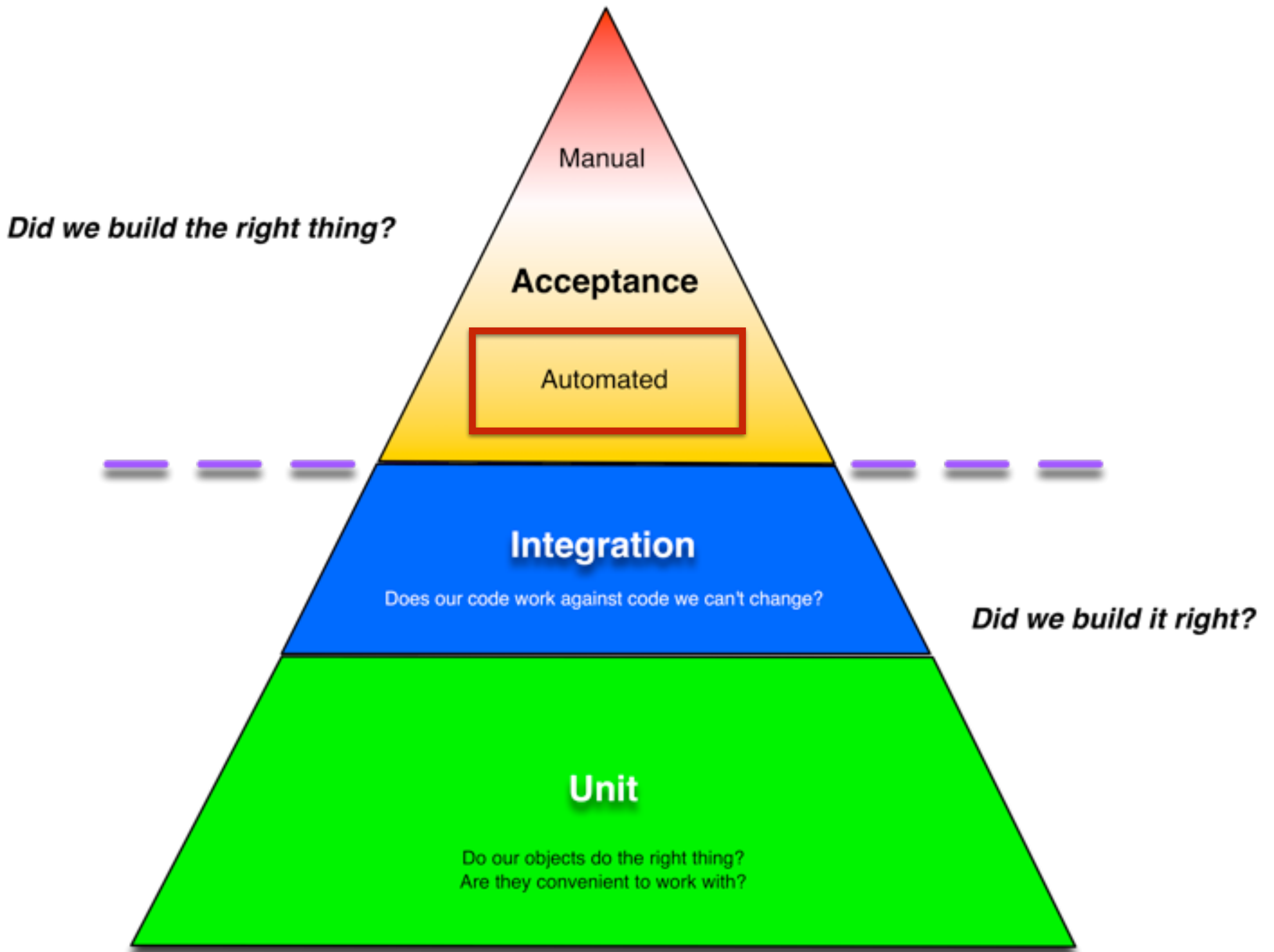
Our existences are about
precise communication...and
communication is about
feedback loops

Why Acceptance Test Automation?

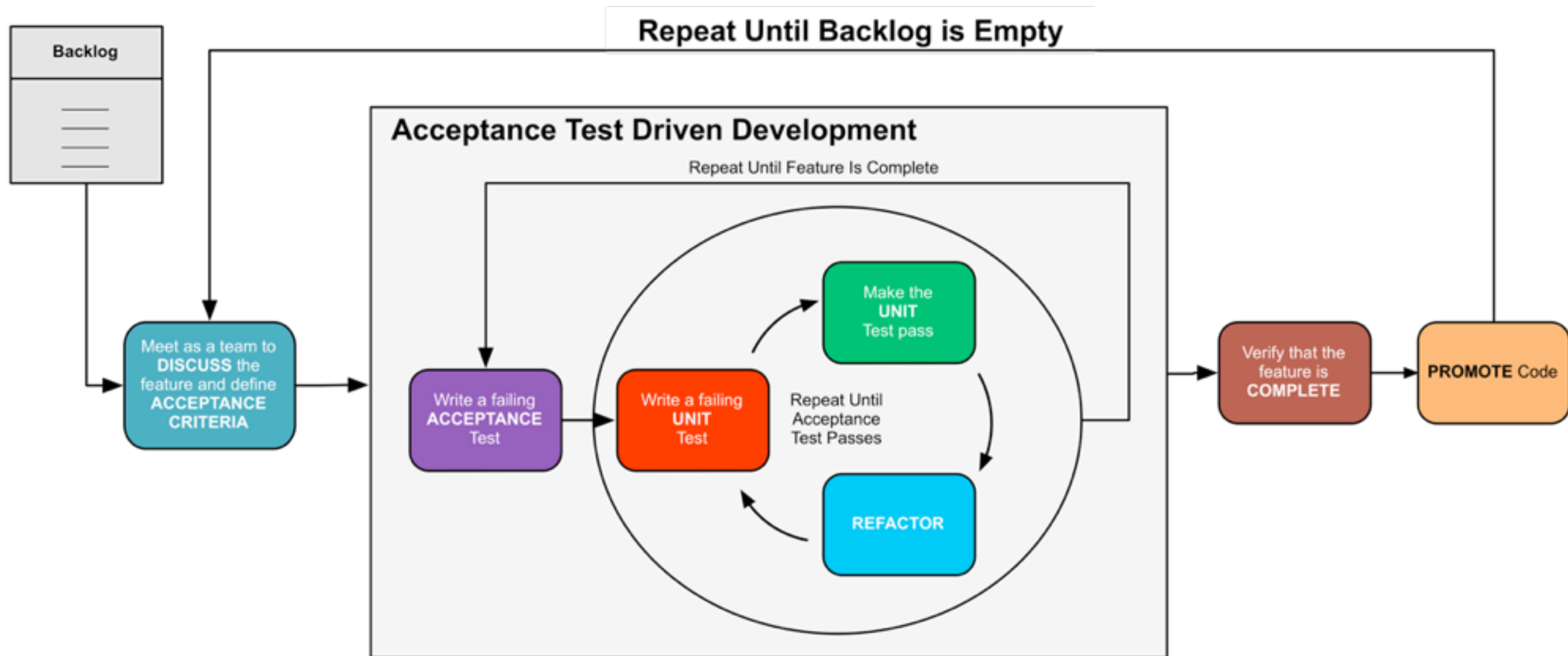
- Implementing changes more efficiently
- Shortened feedback loop
- Higher product quality
- Less rework
- Better work alignment to priority
- Helps make systems easier to modify

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Part of the process...



Can my team benefit?

We **can** improve design going forward

The goal is writing **working code**/
providing **value**

AUTOMATE



ALL THE THINGS

How do I get started?

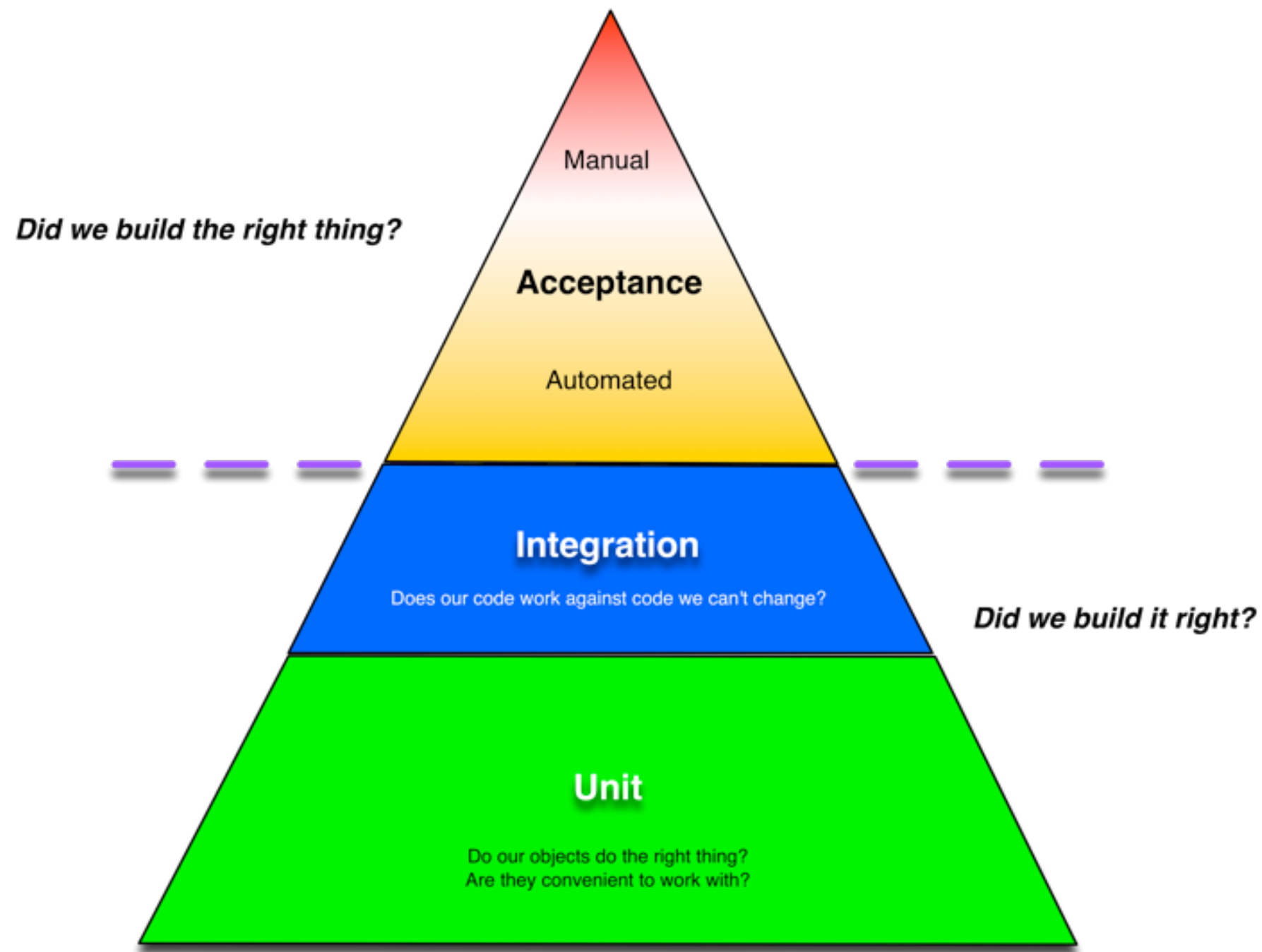
How do I get started?

1. Test KEY use cases
2. Test defects
3. Test new features

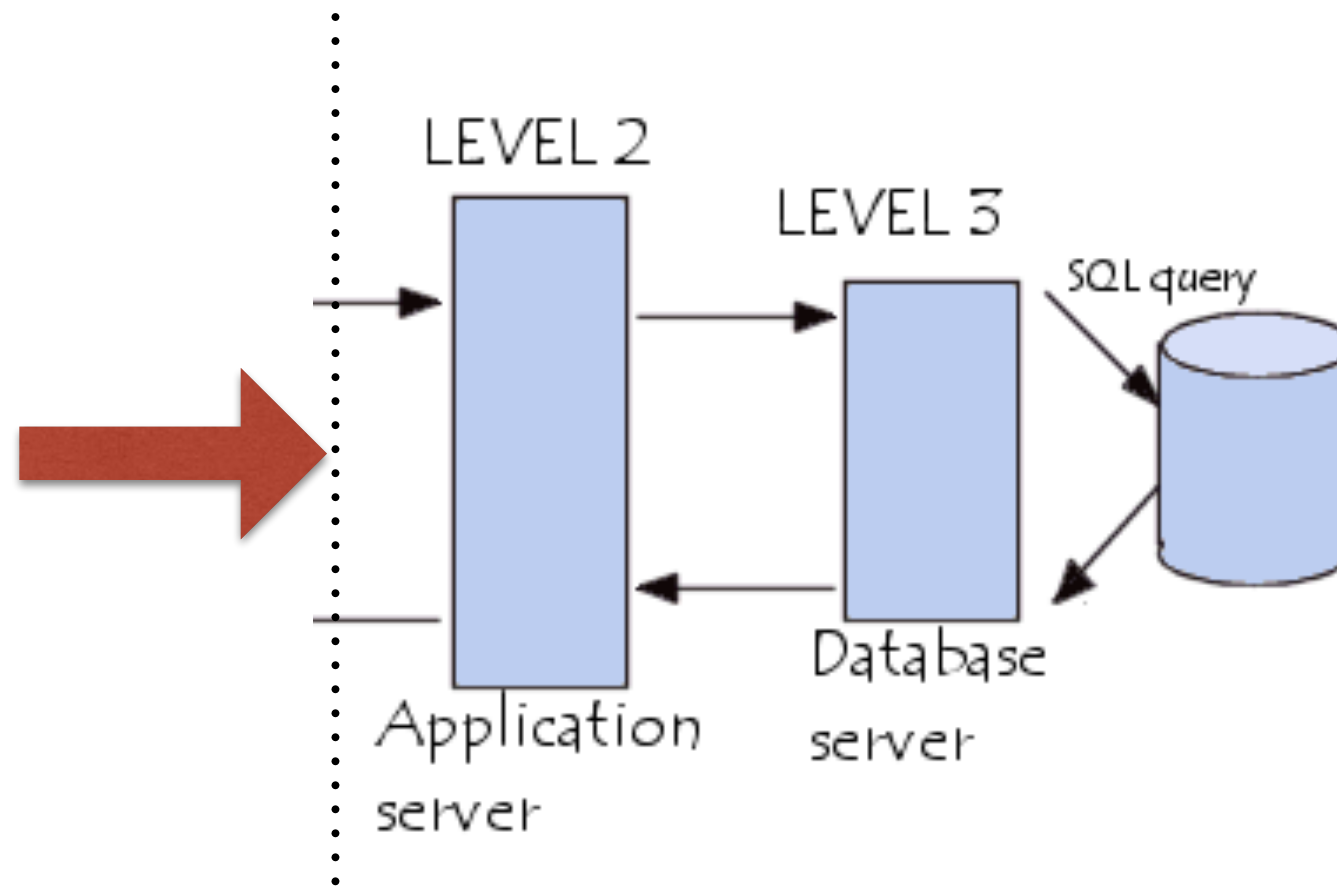
What should I
automate?

What should I automate?

- You are testing the **behavior** of your system
- What do you need to test to determine if your system is **behaving**?
- Regression is a side-effect



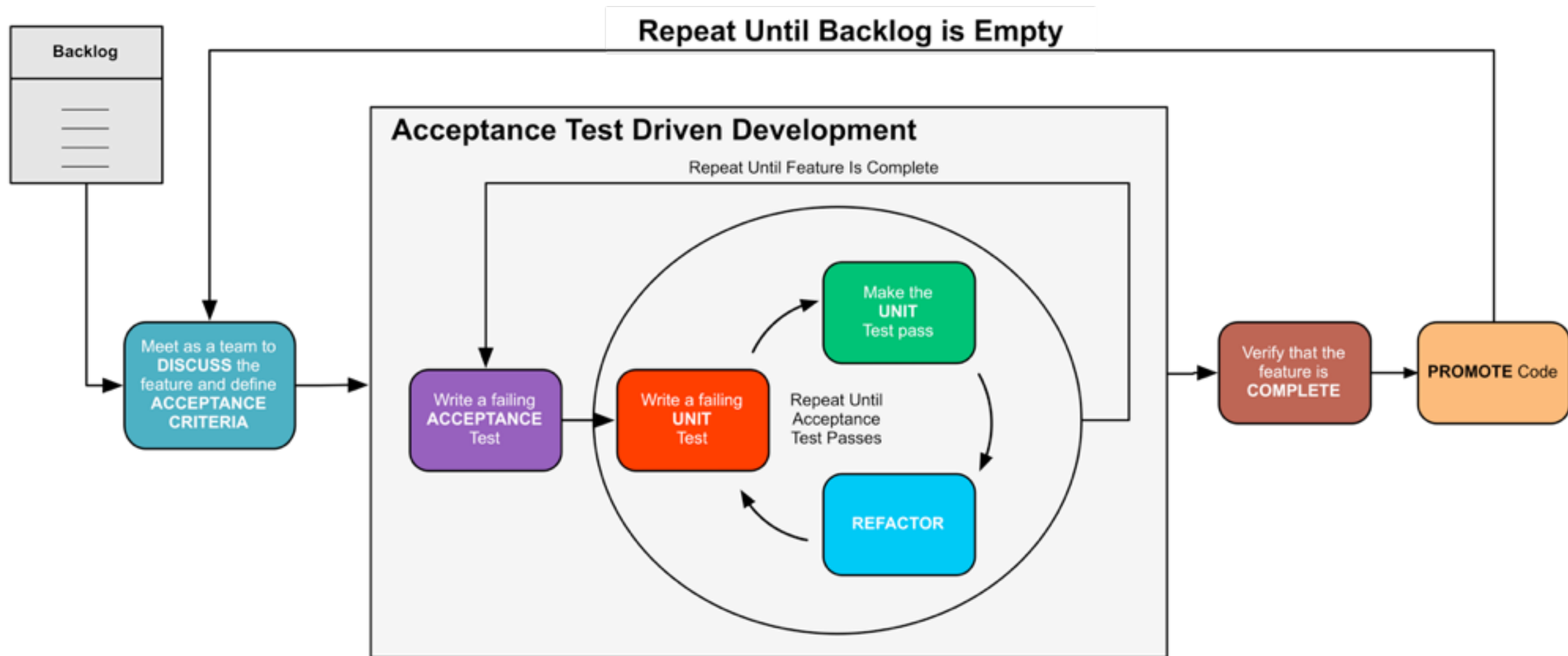
Don't forget your testing triangle



- Deliberately test your system at the physical boundaries
- Know what your system does and how it works
- Collaborate! Collaborate! collaborate!

Where does automation
fit in with our process?

ATDD



We define our **Acceptance Criteria**
AND
Encode them as **Acceptance Tests**

What solution and
architectural dependencies
am I driving?



- Poorly designed or implemented systems tend to be hard to test
- Code under test might need to be refactored
- Test suite could be inefficient

Case Study in Pain

- Huge Automated Functional Test Run
- 5500+ Scenarios
- 550+ Hours to Execute

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Automated Functional Test Running Infrastructure

1 Team

1.5 Years

\$1,000,000

Test code **IS** code

Testing takes **time** and **resources** and requires a **skill-set** you might not have yet.

How will I run my
tests?

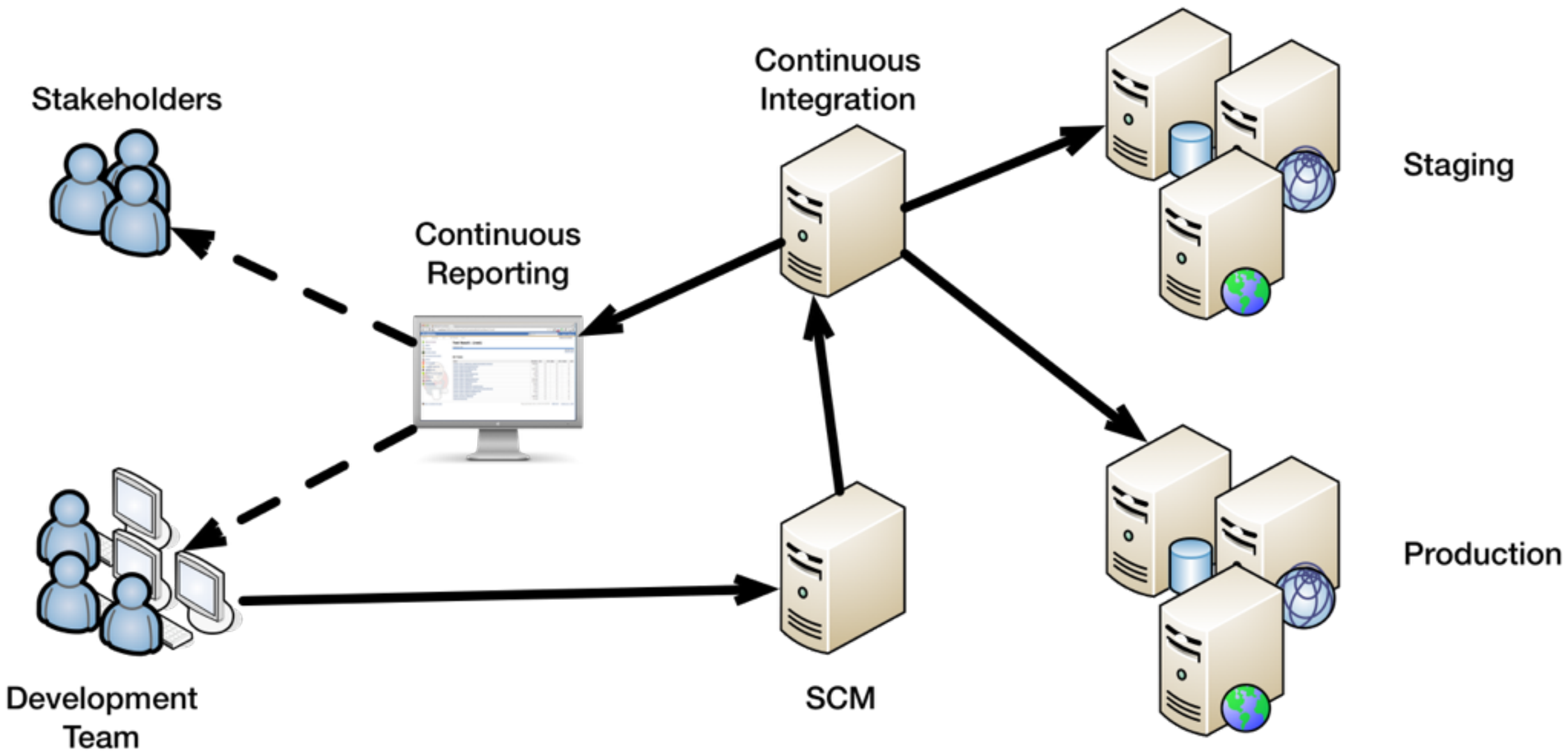
How will I run my tests?



Jenkins



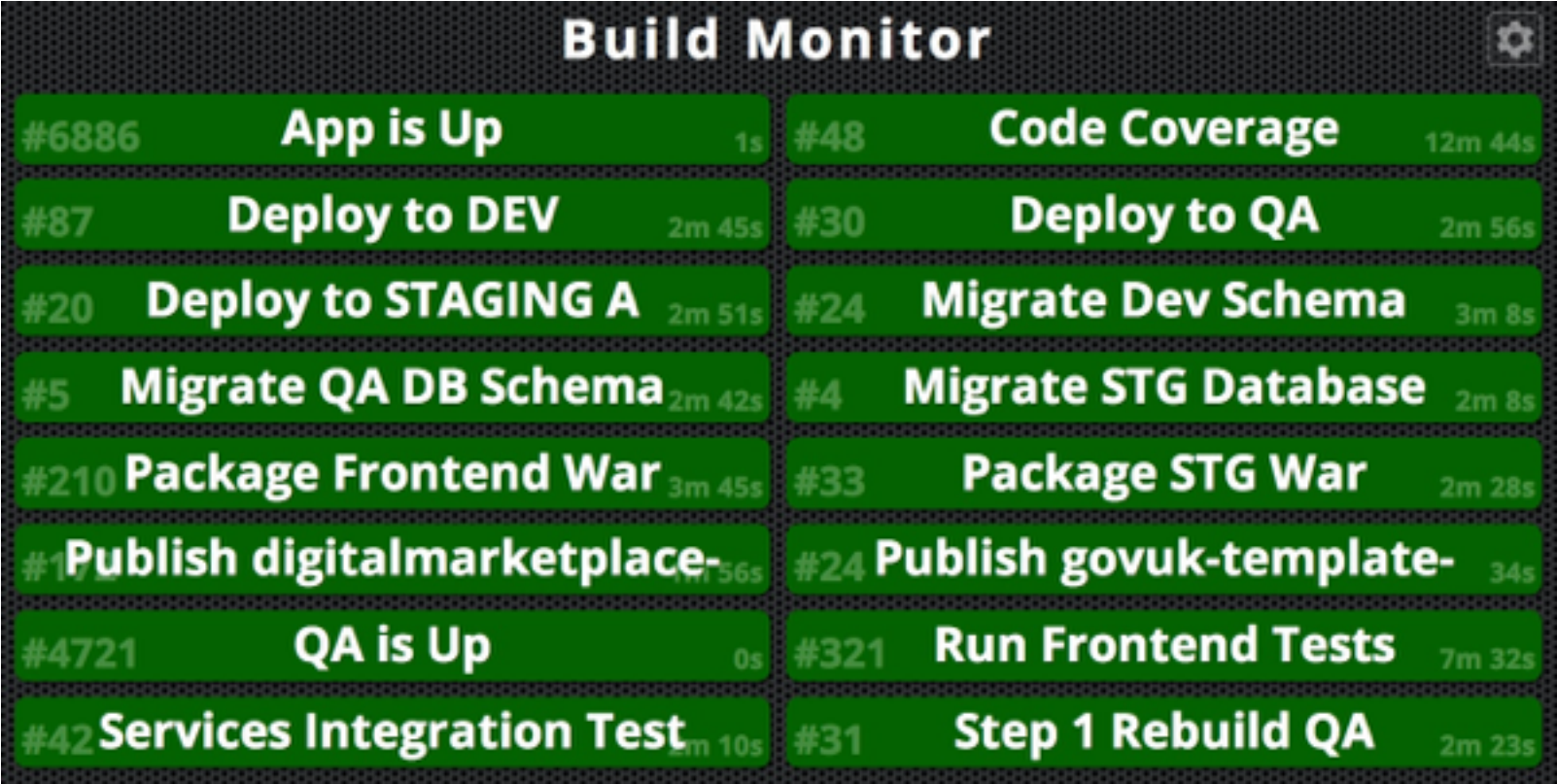
Continuous Integration Workflow



What do I do with all of
the data?

What do I do with all of the data?

- Test automation generates a ton of data...not all good
- Need a way to store, filter and make visible



Super Easy Quote Build Monitor

View Monitor | View Build Results | View Deployed GainWebVersions | Test Queue
ADMINISTRATION: Tracked Builds

Refresh Legend

BOP Branch

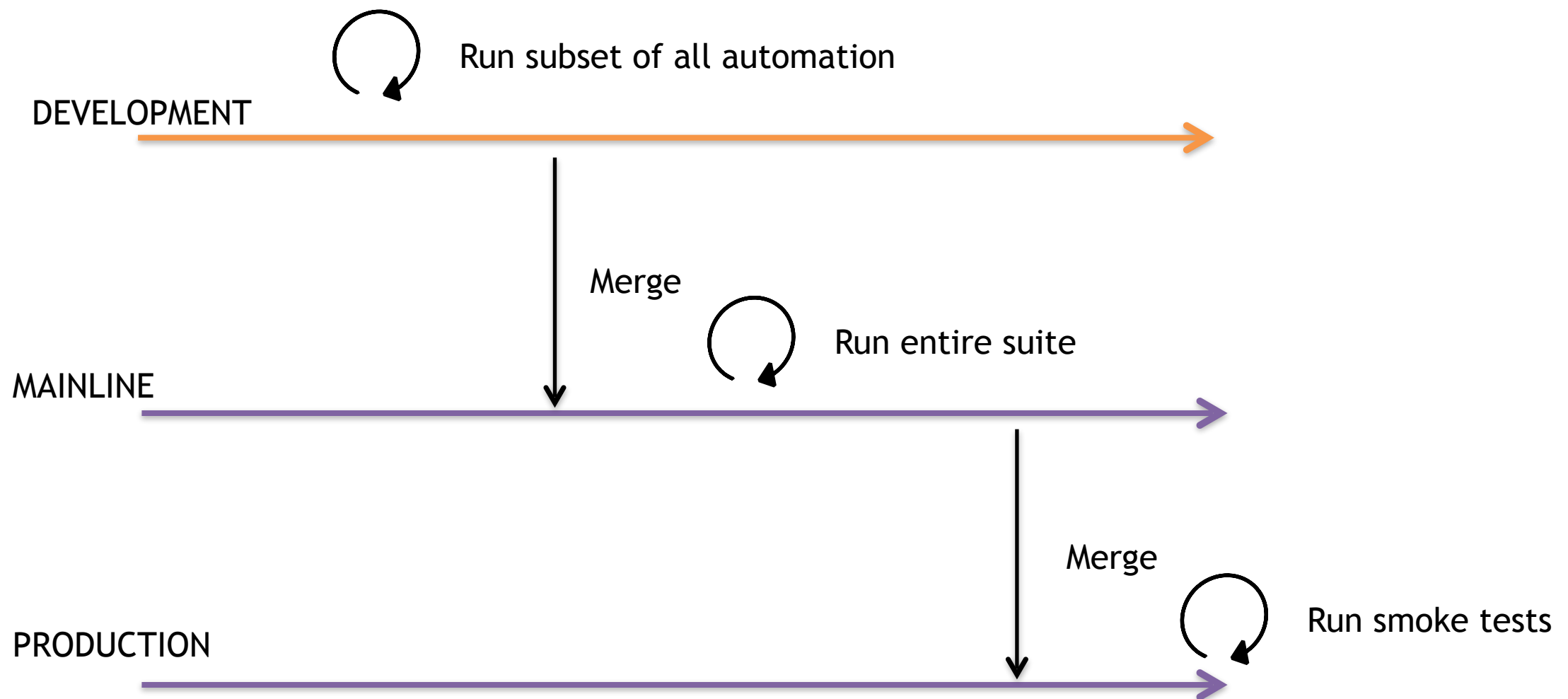
- CI BOP DAILY RATING Show/Hide Details
- Go CI BOP DEPLOYMENT TO AUTOMATIC Show/Hide Details
- CI BOP RECENT FUNCTIONAL TESTS RATING Show/Hide Details
- Go Open CI BOP UNIT TESTS Show/Hide Details
- QA BOP MANUAL CERTIFICATION DEPLOYMENT FINISH Show/Hide Details
- Go QA BOP MANUAL CERTIFICATION DEPLOYMENT START Show/Hide Details

CA Branch

- CI CA DAILY RATING Show/Hide Details
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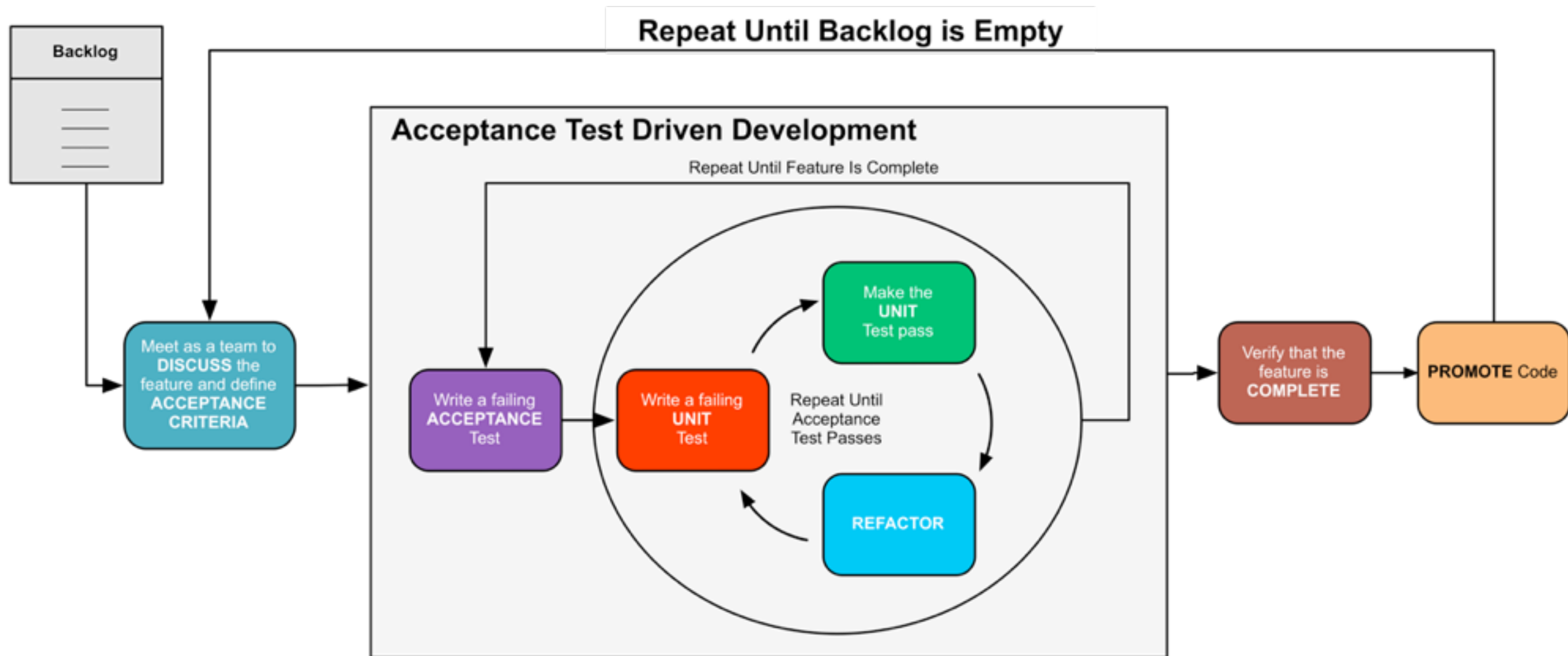


Do I always run ALL of
my tests?



Do I need to keep my
tests forever?

ATDD tells us that you do...



Practically, some tests are
better for development
than for regression

How will I know if I'm
doing a good job?

Understand your
goals

What does success mean
in your environment?



Overconfidence

That's all...





WOULD YOU LIKE TO KNOW **MORE?**

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Blog: blog.shawnwallace.com

<http://www.about.me/shawnwallace>



Q&A

For more information...

- This Presentation on GitHub
 - https://github.com/shawnewallace/testing_too_much_presentation
- cukes.info
- Gojko Adzic
 - cuke4ninja.com
 - Specification by Example
- <https://github.com/aslakhellesoy/cucumber/wiki>
- <http://groups.google.com/group/cukes>
- <http://www.cheezyworld.com>
- The Cucumber Book, Matt Wayne, Aslak Helleøy: <http://pragprog.com/book/hwcuc/the-cucumber-book>
- The Rspec Book, David Chelimsky: <http://www.pragprog.com/titles/achbd/the-rspec-book>