

TEST DRIVEN DEVELOPMENT

For Testers

Workshop code available here:

https://github.com/SarahU/ TDDForTestersWorkshop

Whe am 1?





From Johannesburg, South Africa

Developer +/- 7 years



Software Product Development is a Team Sport



TEST DRIVEN DEVELOPMENT

For Testers

@SARAHNUSHER

#AGILEOTB

@AGILEONTHEBEACH



Sarah Usher

RECIPE

Quick dose of theory

Splash of code

Sprinkling of insights

Rediscovered



Kent Beck

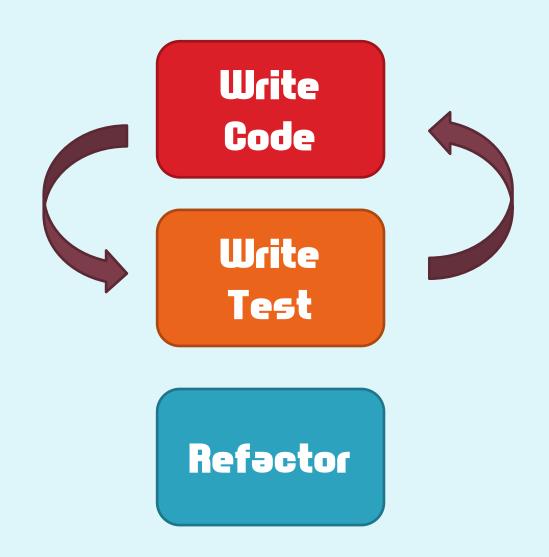
CODE FIRST

Write Code

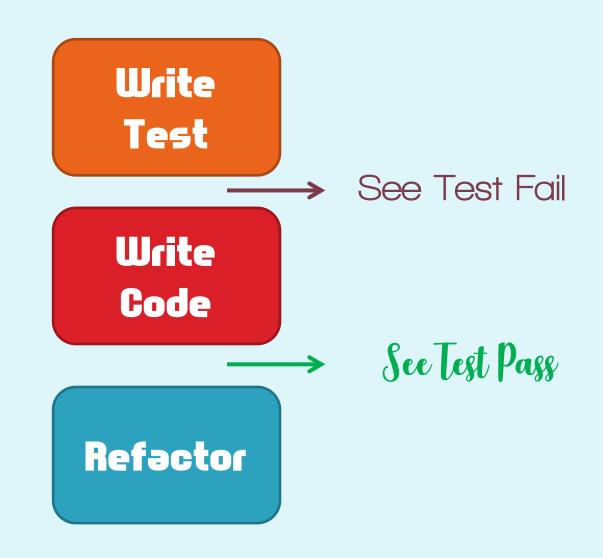
Write Test

Refactor

CODE FIRST



TEST FIRST



30, unds of lests are we taking about here?

TYPES OF TESTS



Unit and Integration Tests

Developer TDD



Acceptance TDD

TYPES OF TESTS



Unit and Integration Tests

0eveloper 100 \longrightarrow Developers



TYPES OF TESTS



Unit and Integration Tests

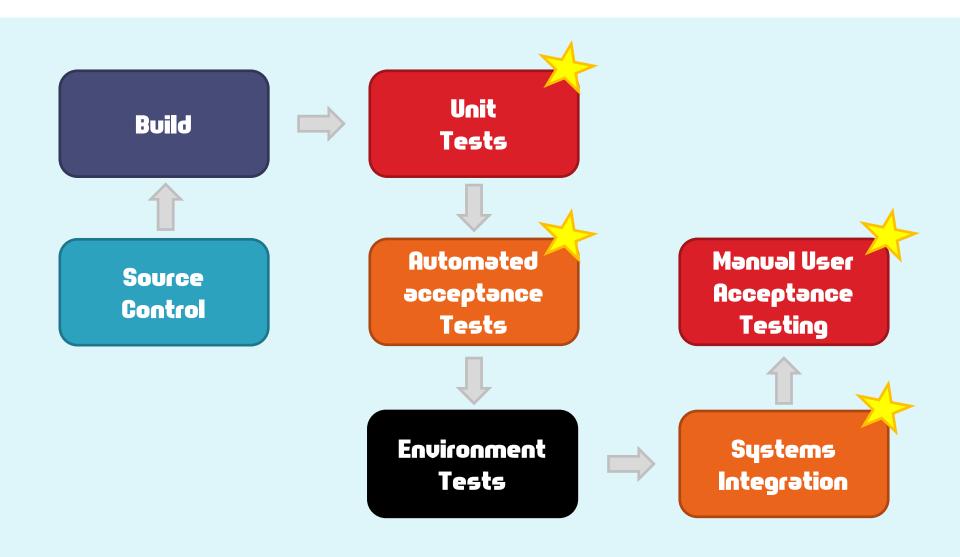
Developer TDD



Acceptance TDD

- * End-to-End Tests through all layers
- * Functional & non-functional tests at any layer

PIPELINE





UNIT VS INTEGRATION NS ACCEPTANCE

Jay, Cale!







QA VS DEV USE OF TDD



Deus

Write unit & integration tests to drive the design of code interfaces:

Test Driven Design



QAs?

Developers are very, very good at abstraction. If you give us half a problem, we'll come up with the whole solution. In fact, we're so good at this, we won't even notice that we've only got half the problem. We're "solution space" people. Our job is to solve

Testers, on the other hand, are "problem space" people. They're the ones who ask, "What about X? Or Y? Have you thought about Z?"

- They know how to break our code before we've even written it.
- If we're really nice to them, they'll tell us.
- Their job is to understand the problem backwards.

QA VS DEV IN TESTING

QAs

- Upfront acceptance criteria ie. BEFORE any code is written — automated if possible (dependant on production code and test automation tooling in use)
- Focused solely on the potential problems /
 user paths can determine edge cases,
 unlikely but possible scenarios, etc...
- Free to be creative and explore the software
- Write tests for issues discovered by users

QA VS DEV IN TESTING

Both (ideally whole team)

- Redundancy is not a bad thing but don't repeat tests unnecessarily — more to clean up later
- Be aware of different tools

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ie:

Put the right tests in the right places



Setyour OA free from manual regression testing





Thunk you!





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SOURCES/READING

- https://www.quora.com/Why-does-Kent-Beck-refer-to-therediscovery-of-test-driven-development-Whats-the-historyof-test-driven-development-before-Kent-Becks-rediscovery
- https://softwareengineering.stackexchange.com/questions/2 58311/if-we-have-tdd-and-bdd-why-do-we-need-qafor/258316