
Test Driven Development

Dipping your toe into tests first

PHP Sussex - Wednesday 2nd October 2019

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@braddle
@testingAllThe

What?

What is TDD?

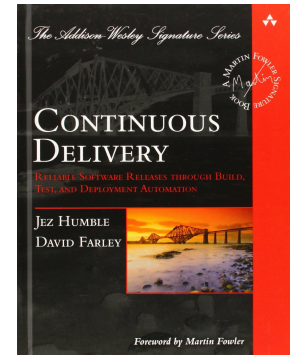
Writing test before code

Using test to design the application

Not just unit tests

Why?

Why I do use TDD?



Boring

Tests are hard to write

Easy to start skipping test

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Fun!

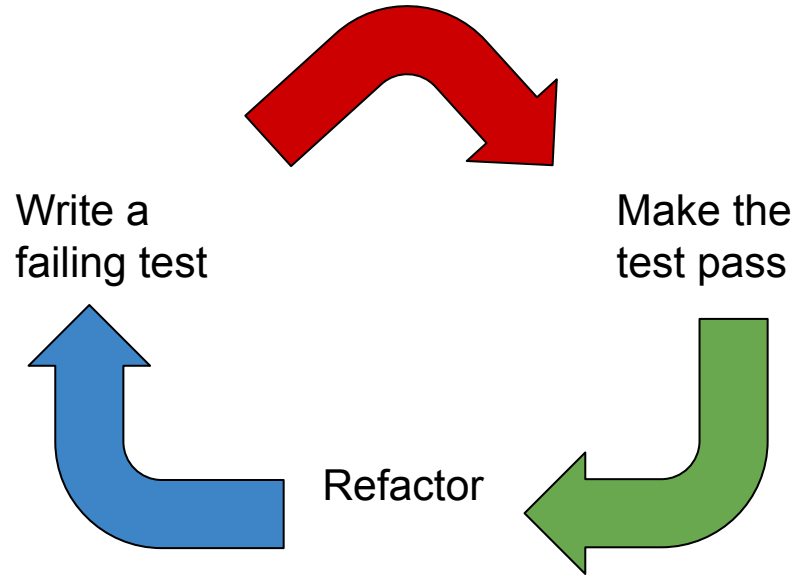
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Easy to write

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You ~~don't~~ can't skip tests

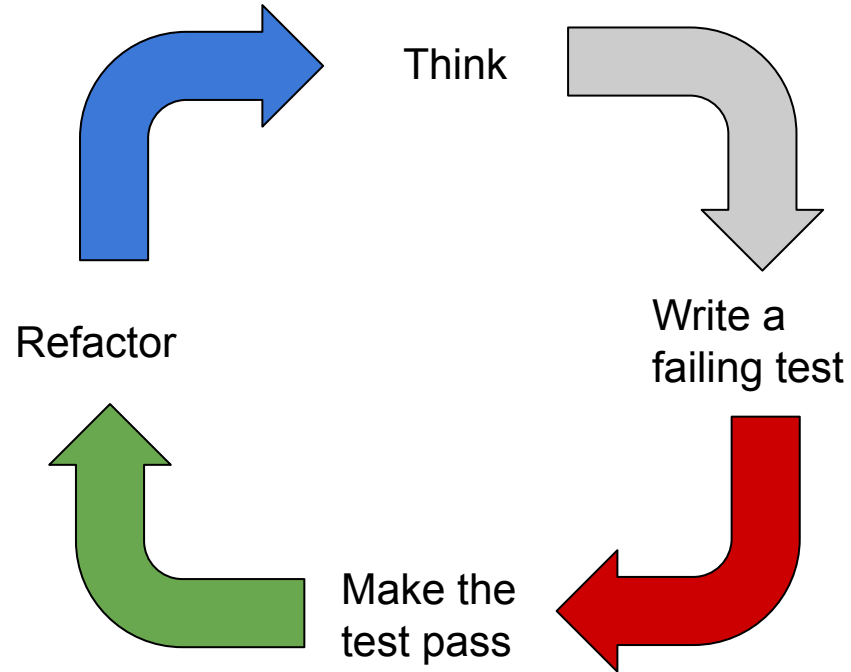
TDD Cycle



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Does it slow down development?

TDD Cycle

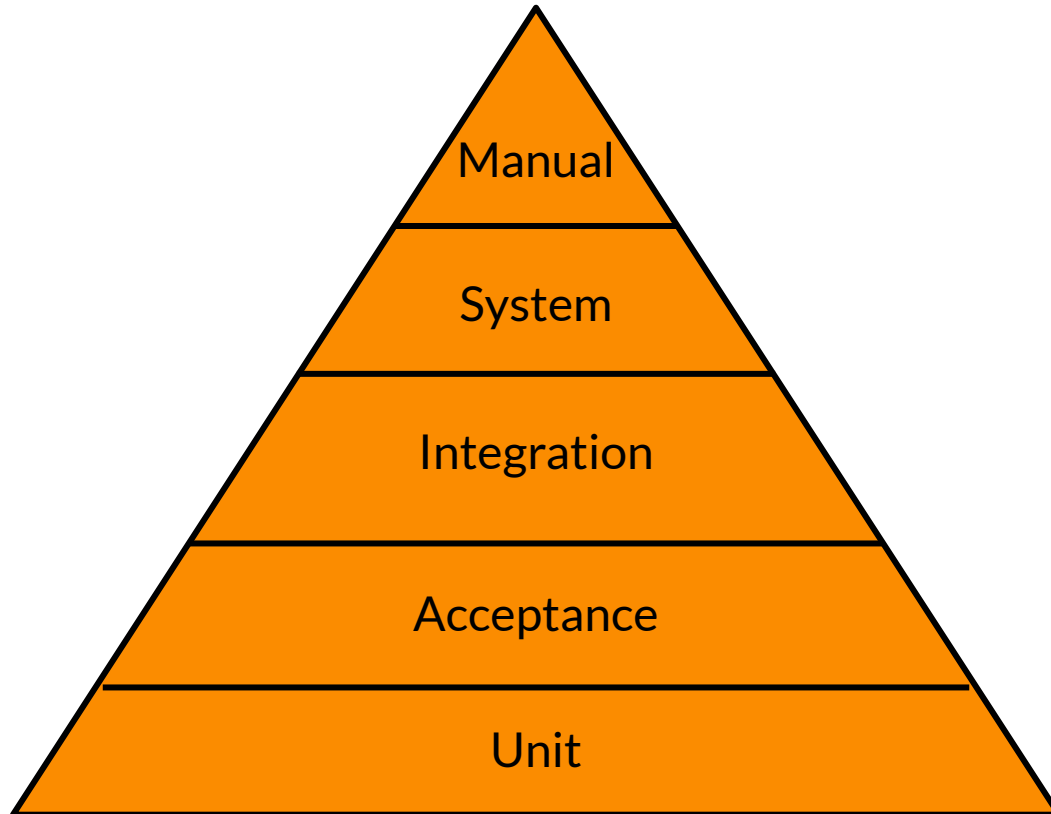


3 Rules of TDD

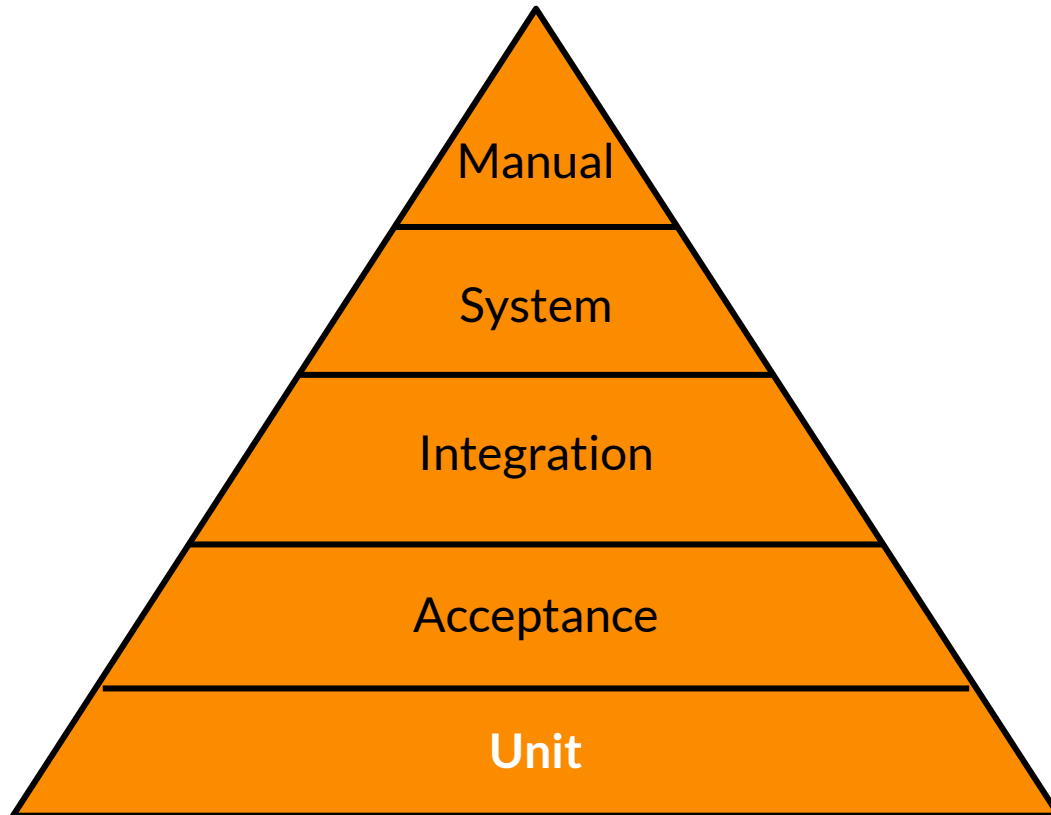
1. Write no production code until you write a failing test.
2. Do not write more of a test than to make the test fail (compilation error are test failure).
3. Do not write more production code than is enough to make the test pass.

- Uncle Bob

Testing Pyramid



Unit Tests



Unit Tests

Targeted

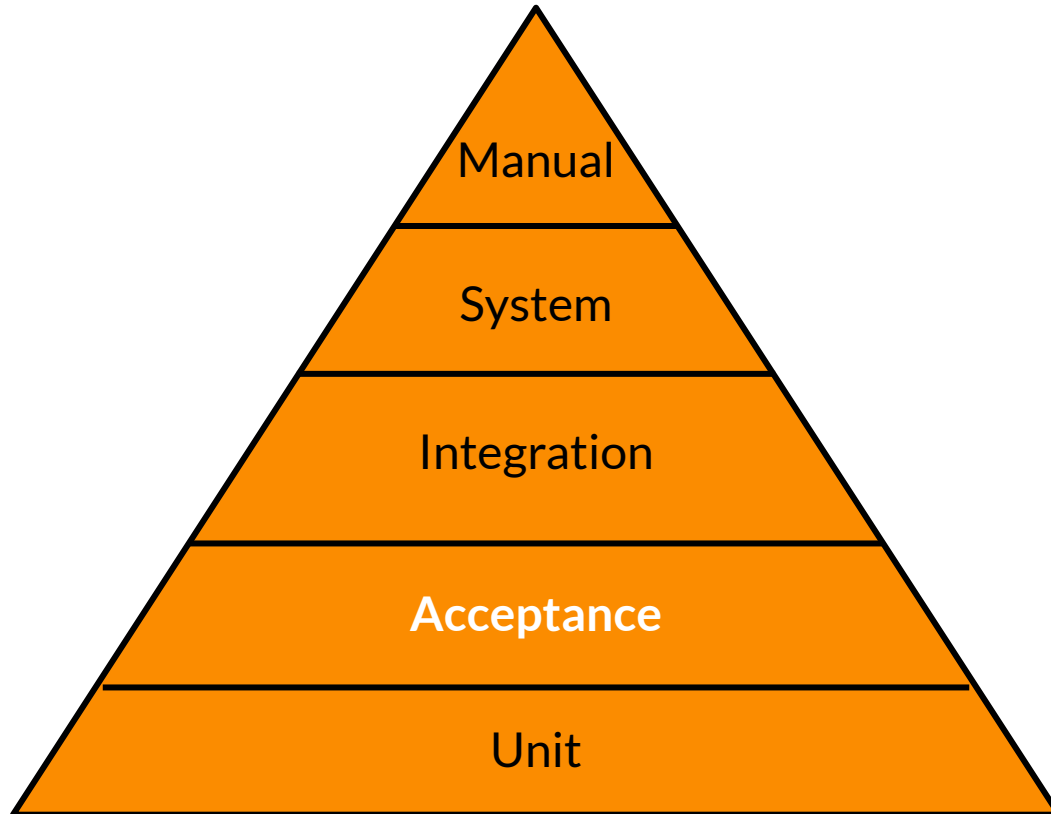
Isolated

Repeatable & predictable

Fast

100% Code Coverage

Acceptance Tests



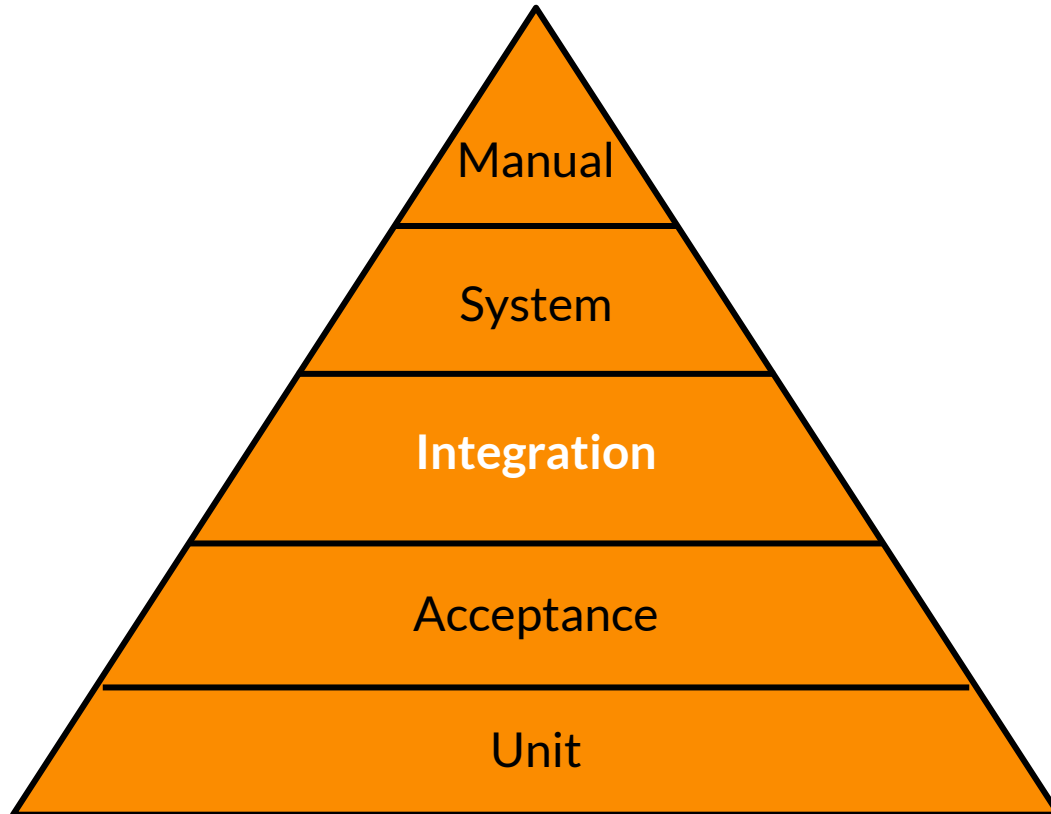
Acceptance Tests

Ensure Business requirement are met

Define by Product Owners

50% Code Coverage

Integration Tests



Integration Tests

Tests a small number of units work together

Test the integration points of you application

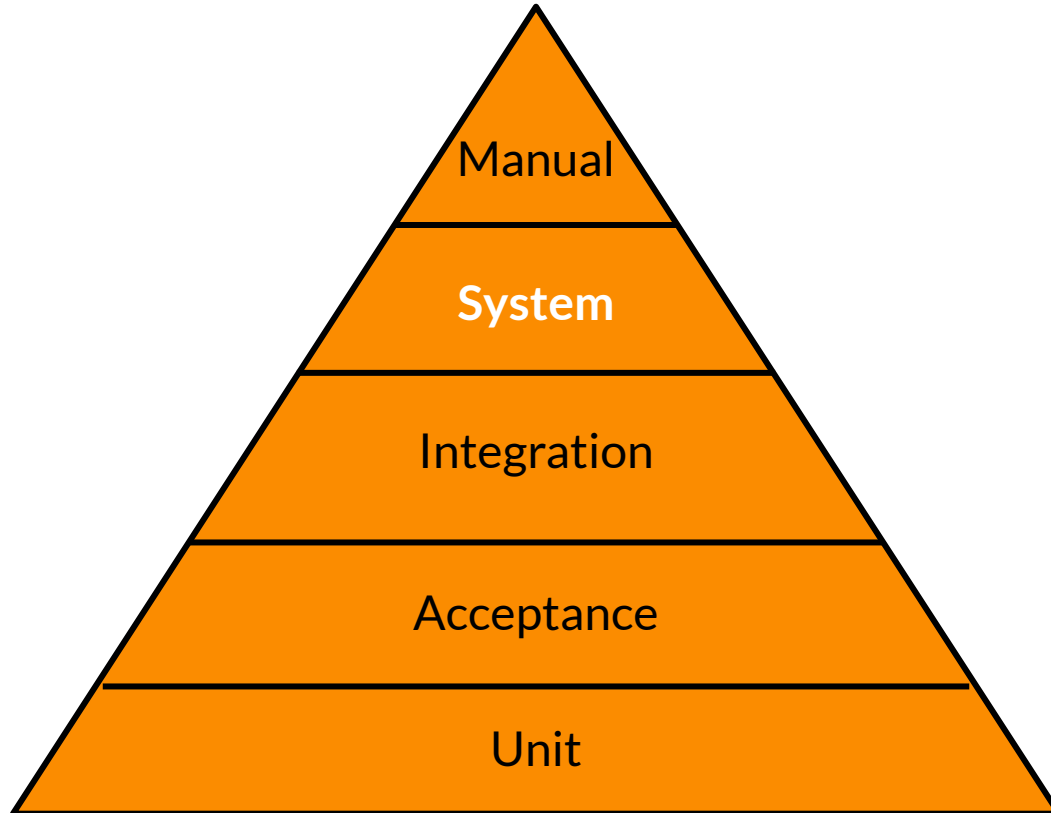
10% Code Coverage



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System || End to End Tests



System (End to End) Tests

Flows through you application, usually a few core journeys

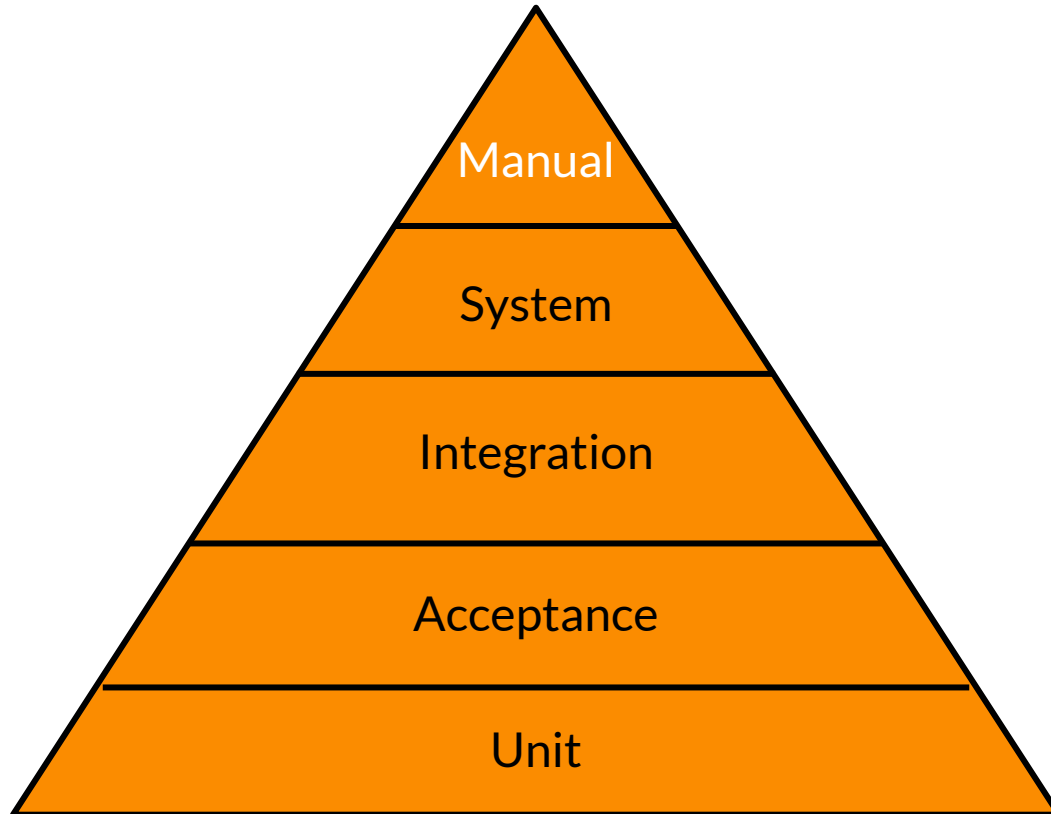
Uses all really services (Database, Email, ...)

May interact with many different parts of you app in a single test

May require some seeding of external services

5% Code Coverage

Manual Tests

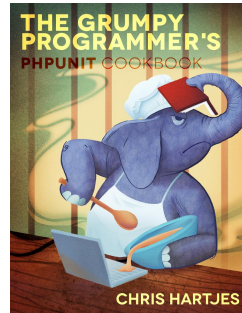
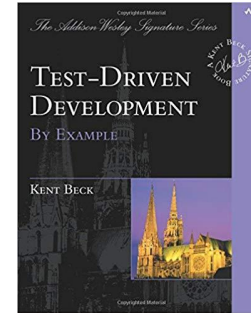
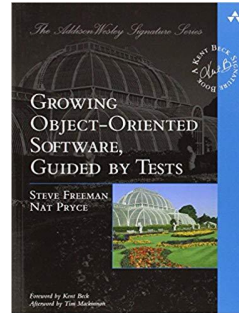


Lets Mob Program

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Practise Make Perfect

Resources



Questions

Feedback

Twitter: @braddle

Email: braddle@gmail.com

Slide Deck: [Link]

Code: <https://github.com/braddle/php-sussex-october-2019>

Thank you
