

Software Testing Anti-patterns

<http://blog.codepipes.com/testing/software-testing-antipatterns.html>

Software testing

https://en.wikipedia.org/wiki/Software_testing

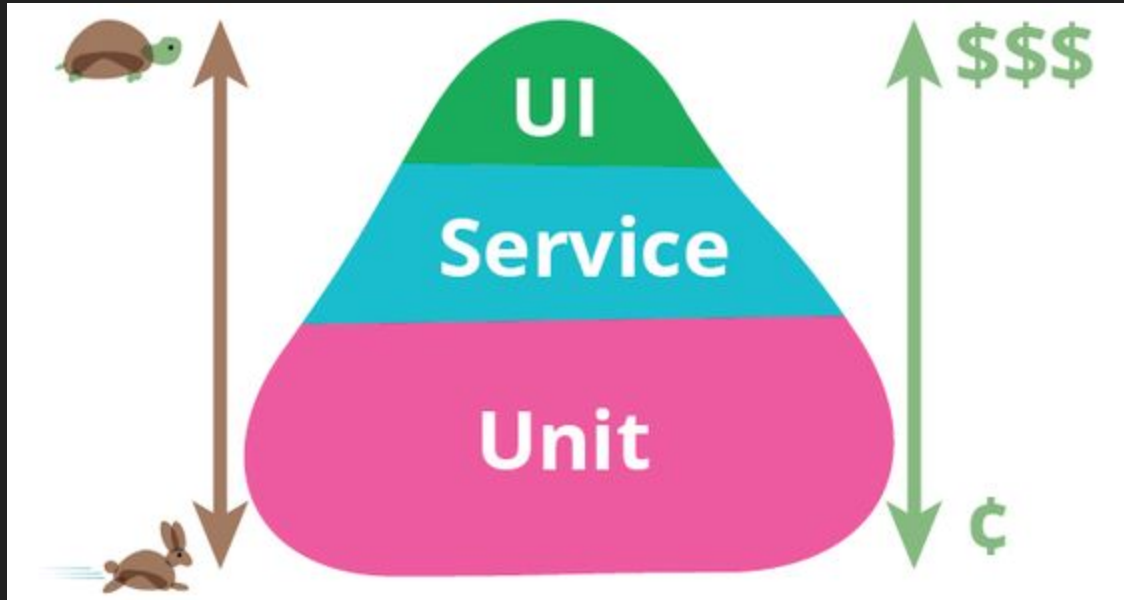
Software design pattern

https://en.wikipedia.org/wiki/Software_design_pattern

Anti-pattern

<https://en.wikipedia.org/wiki/Anti-pattern>

Test Automation Pyramid



<https://martinfowler.com/bliki/TestPyramid.html>

Unit/Integration tests

Tests	Focus on	Require	Speed	Complexity	Setup needed
Unit tests	a class/method	the source code	very fast	low	No
Integration tests	a component/service	part of the running system	slow	medium	Yes

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Unit/Integration tests

- uses a database
- uses the network to call another component/application
- uses an external system (e.g. a queue or a mail server)
- reads/writes files or performs other I/O
- does not rely on the source code but instead it uses the deployed binary of the app

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Having unit tests without integration tests

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<https://i.pinimg.com/236x/78/17/74/78177442f073d3681a60e7fb853453b3--kitchen-drawers-home-projects.jpg>

Unit test vs. Integration test



<https://i.ytimg.com/vi/0GypdsJulKE/maxresdefault.jpg>

Having integration tests without unit tests

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Integration tests result

Customer registers an account

Customer buys a single item

Customer adds 2nd shipping address

Customer checks order history

Integration tests result

Customer registers an account

Customer buys a single item

Customer adds 2nd shipping address

Customer checks order history

Unit tests result

Basket Weight Test

Special Discount Test

Product Recommendation Test

Credit card validation test

Promo Code Test

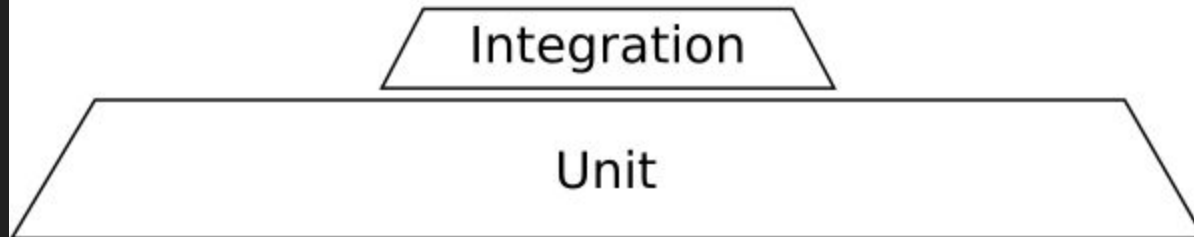
Wish List Test

VAT Calculation Test

Having the wrong kind of tests

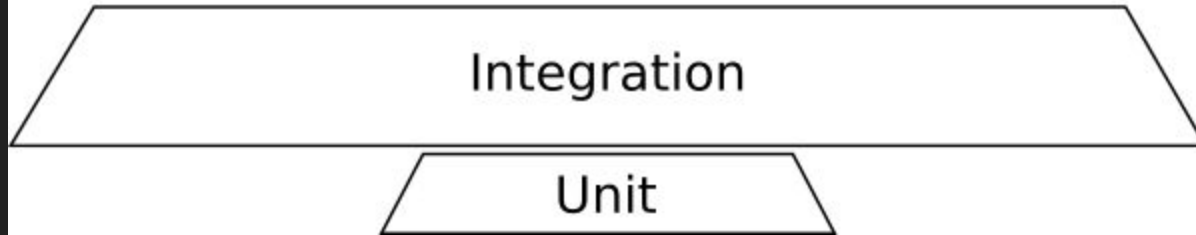
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Command Line Utility



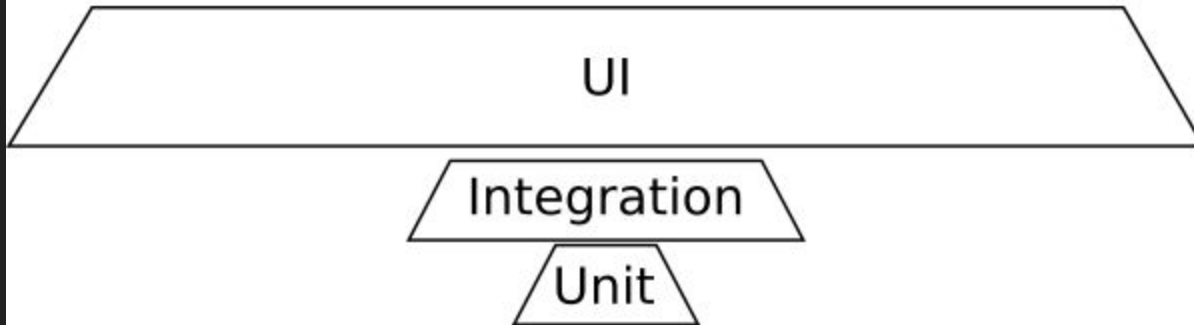
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Payment Gateway



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Website Creator

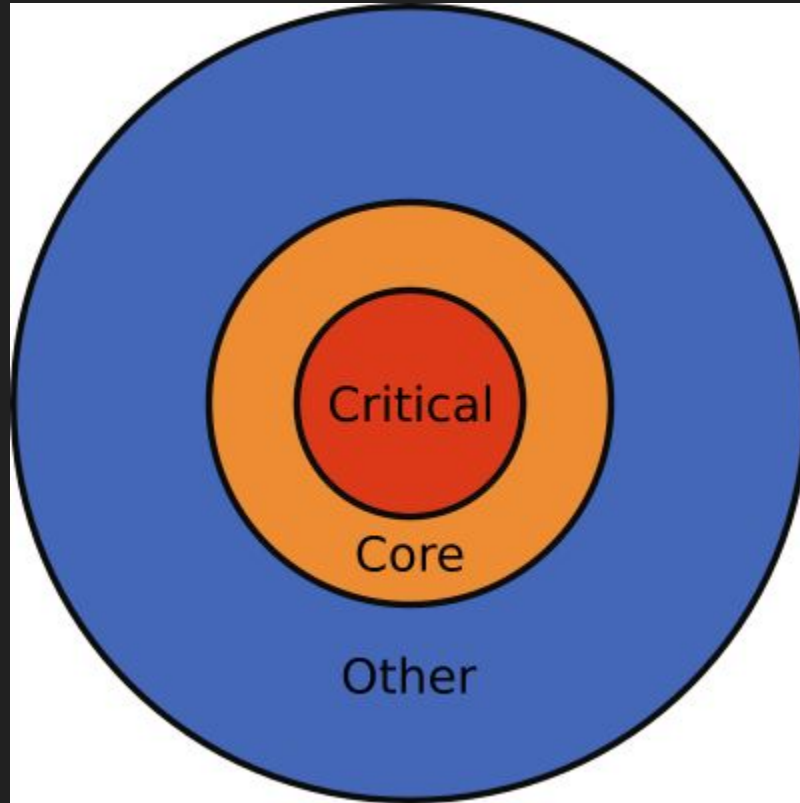


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Testing the wrong functionality

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Testing internal implementation

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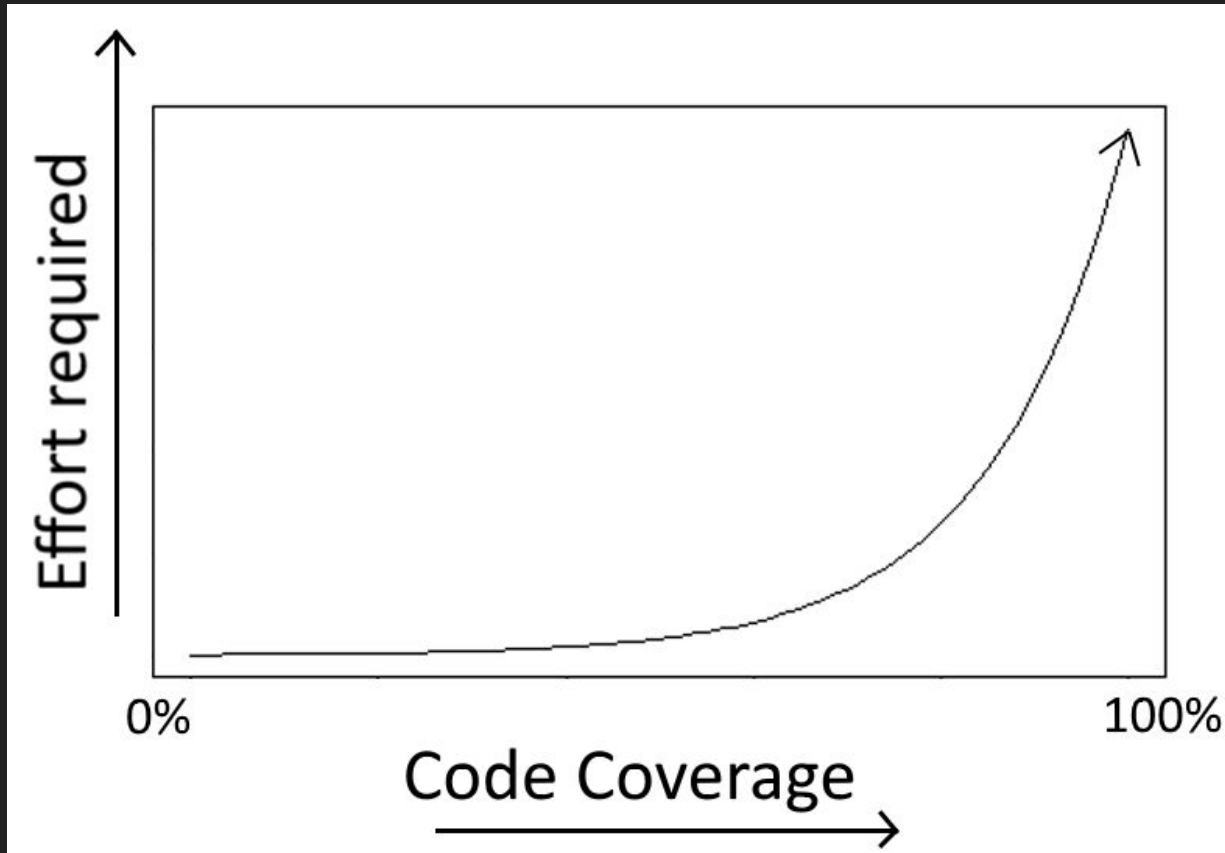
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Paying excessive attention to test coverage

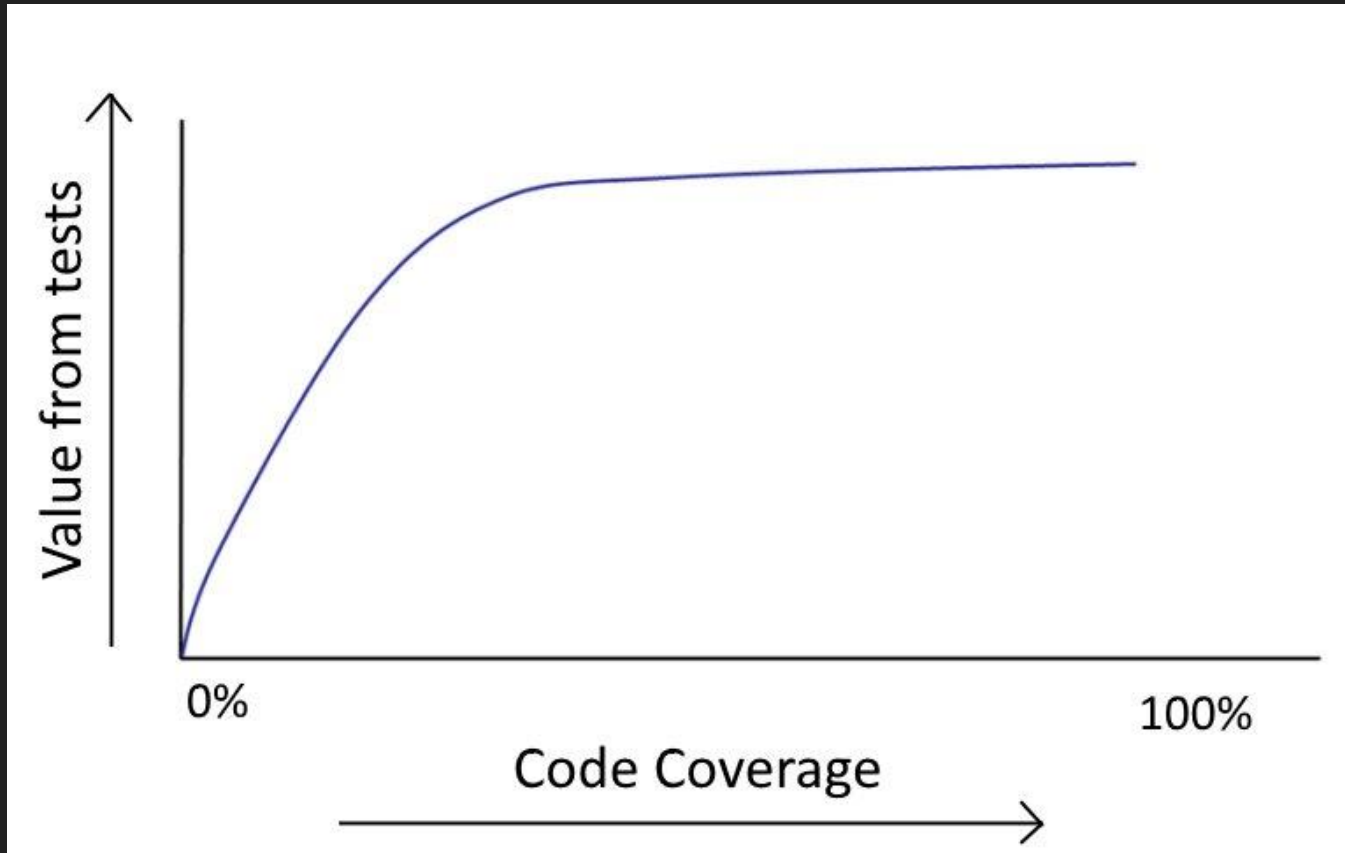
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- PDWT Percent of Developers who Write Tests
- PBCNT Percent of Bugs that Create New tests
- PTVB Percent of Tests that Verify Behavior and not implementation
- PTD Percent of Tests that are Deterministic to total tests

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Having flaky or slow tests

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Running tests manually

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Treating test code as a second class citizen

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Not converting production bugs to tests

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Treating TDD as a religion

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Writing tests without reading documentation first

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Giving testing a bad reputation out of ignorance

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