Software Testing Anti-patterns

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Software testing

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

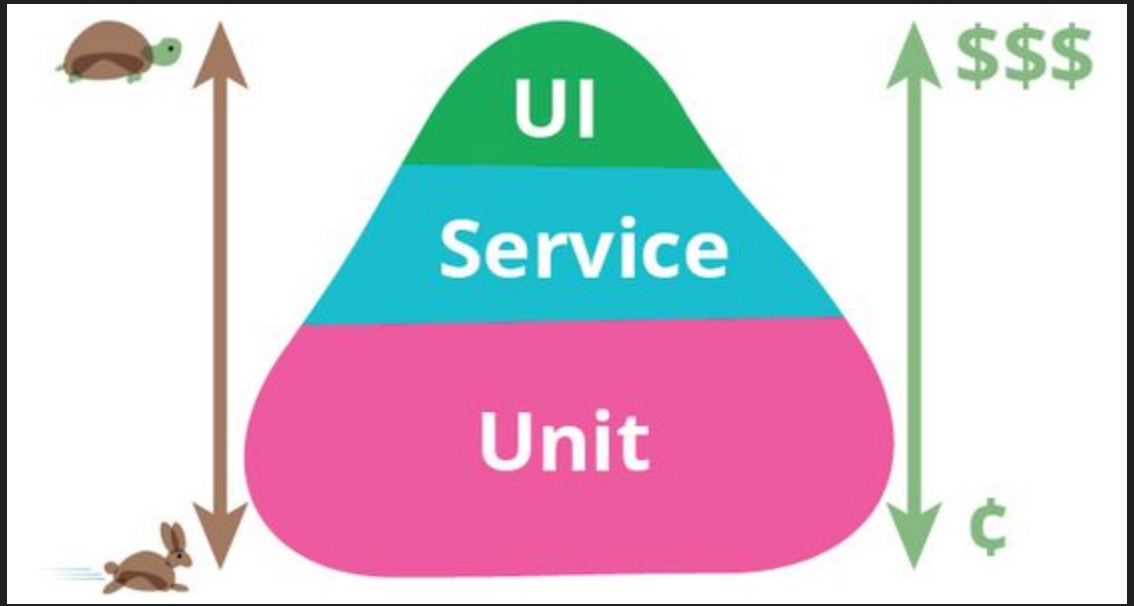
Software design pattern

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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Having integration tests without unit tests

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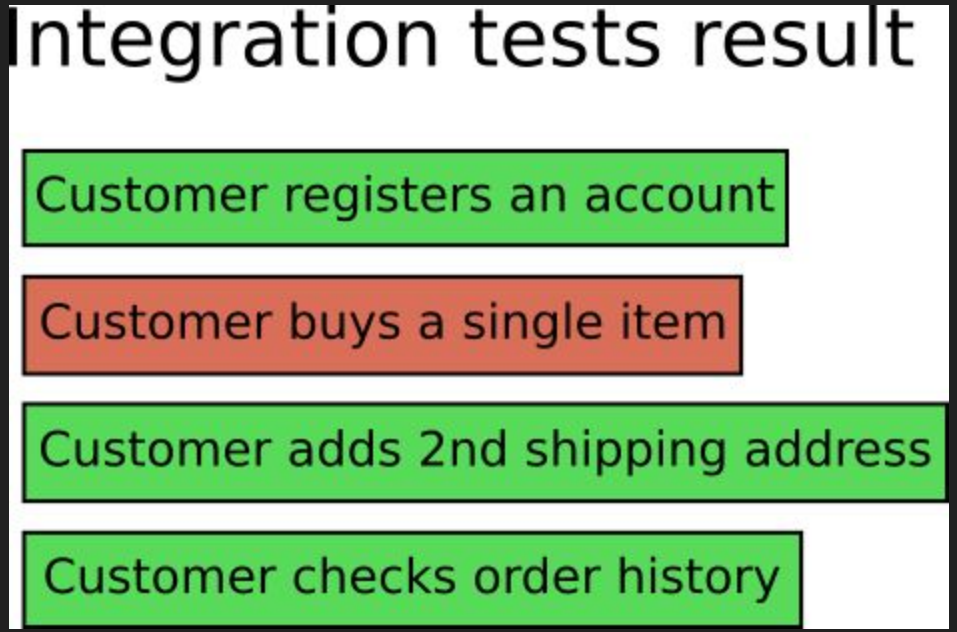

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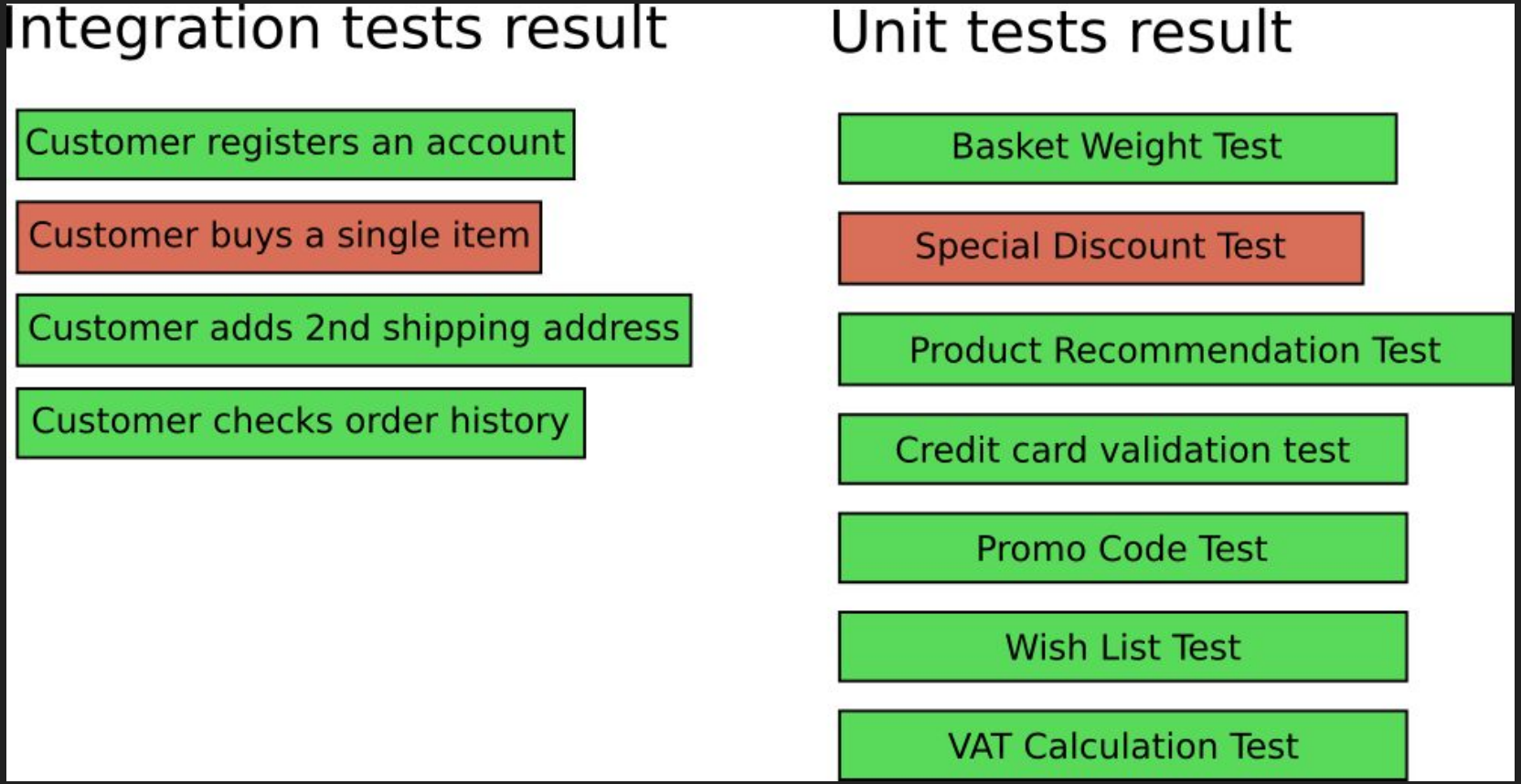

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Having the wrong kind of tests

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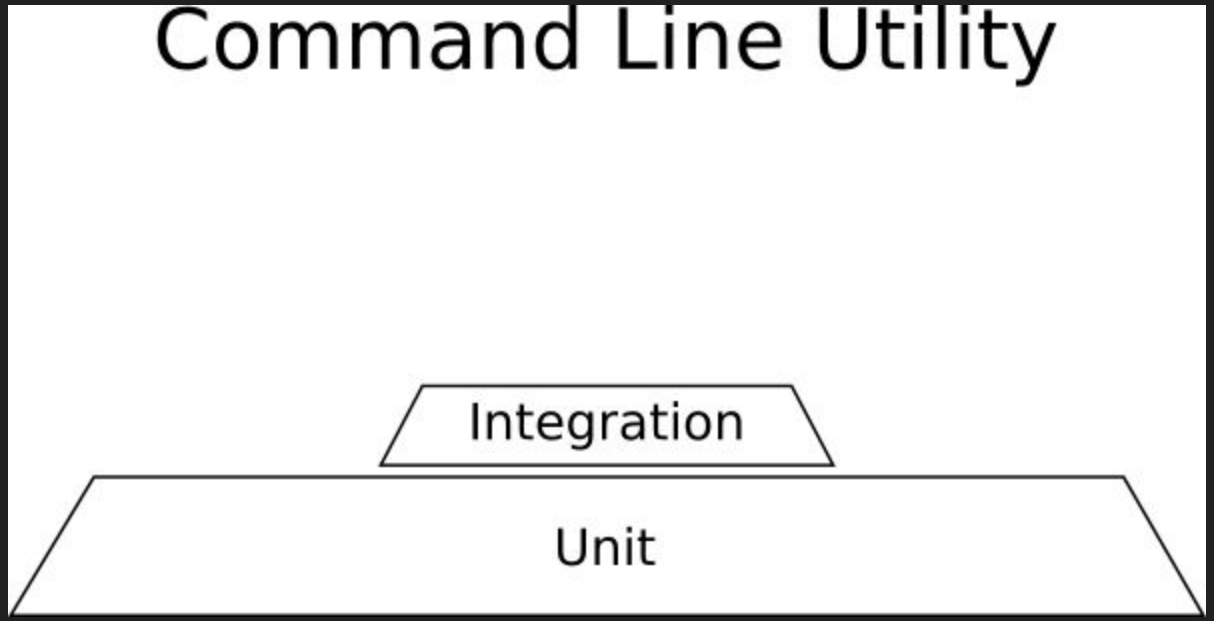

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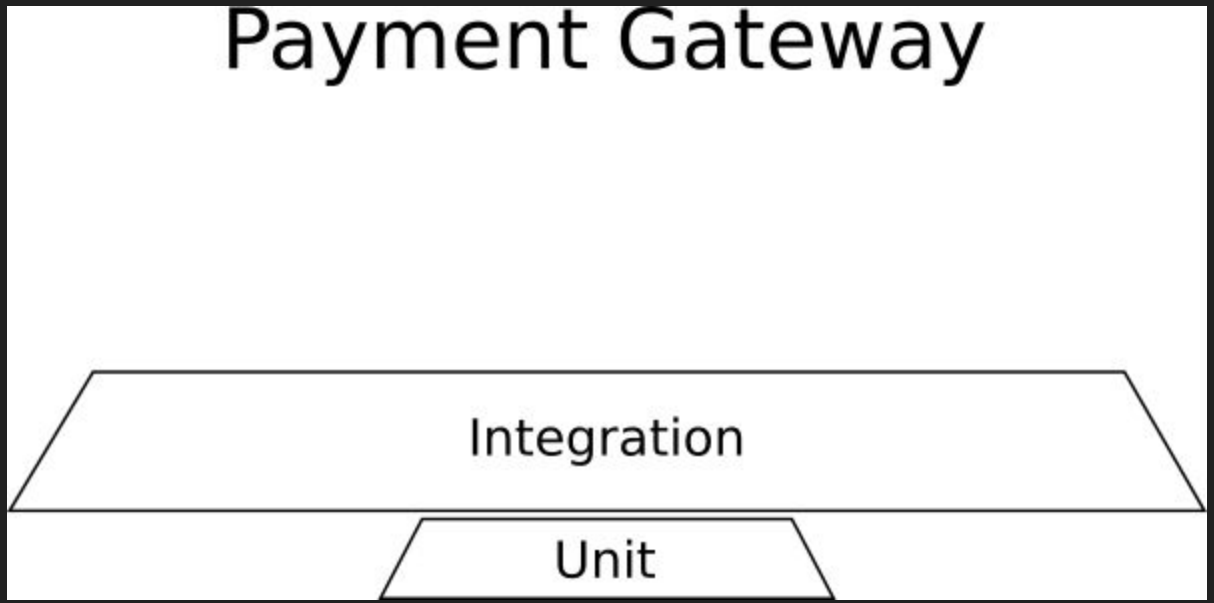

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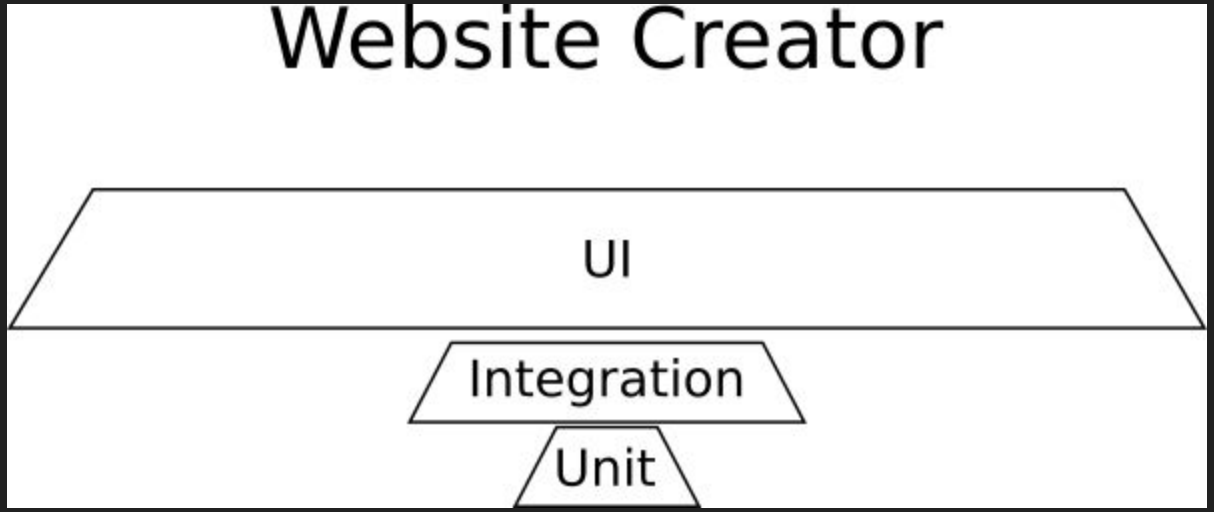

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Testing the wrong functionality

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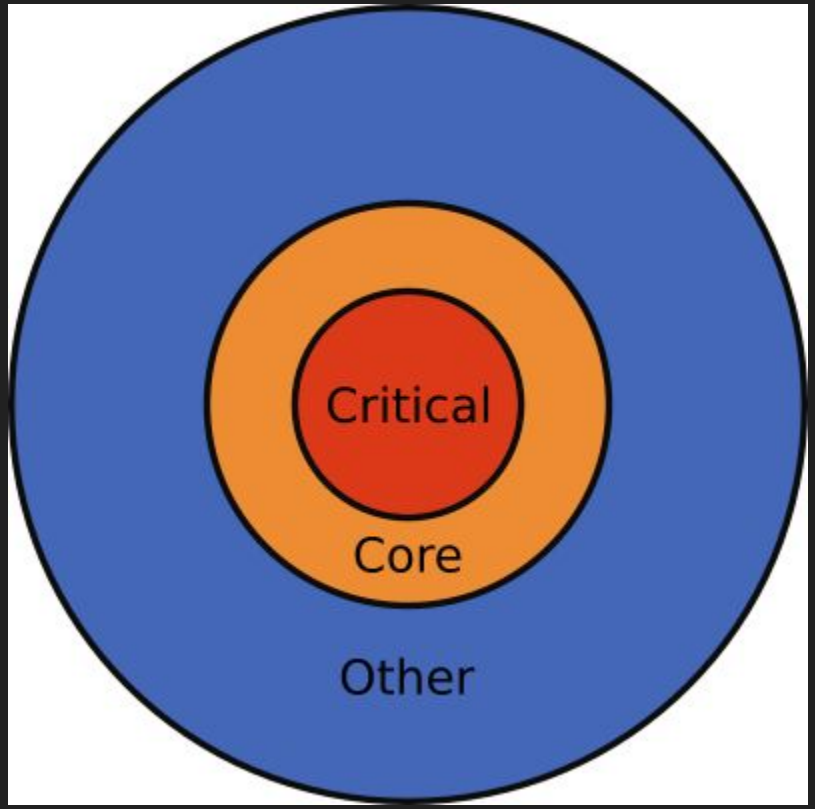

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Testing internal implementation

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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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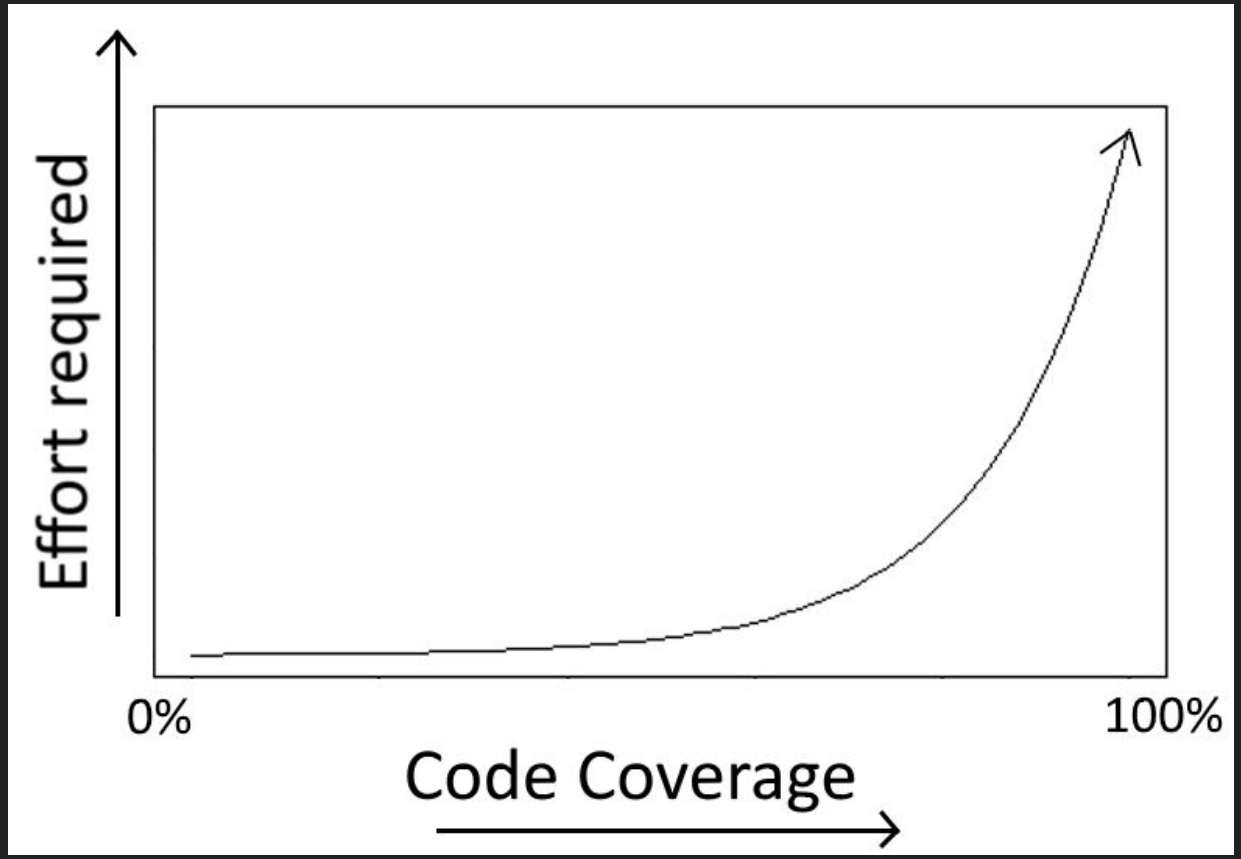

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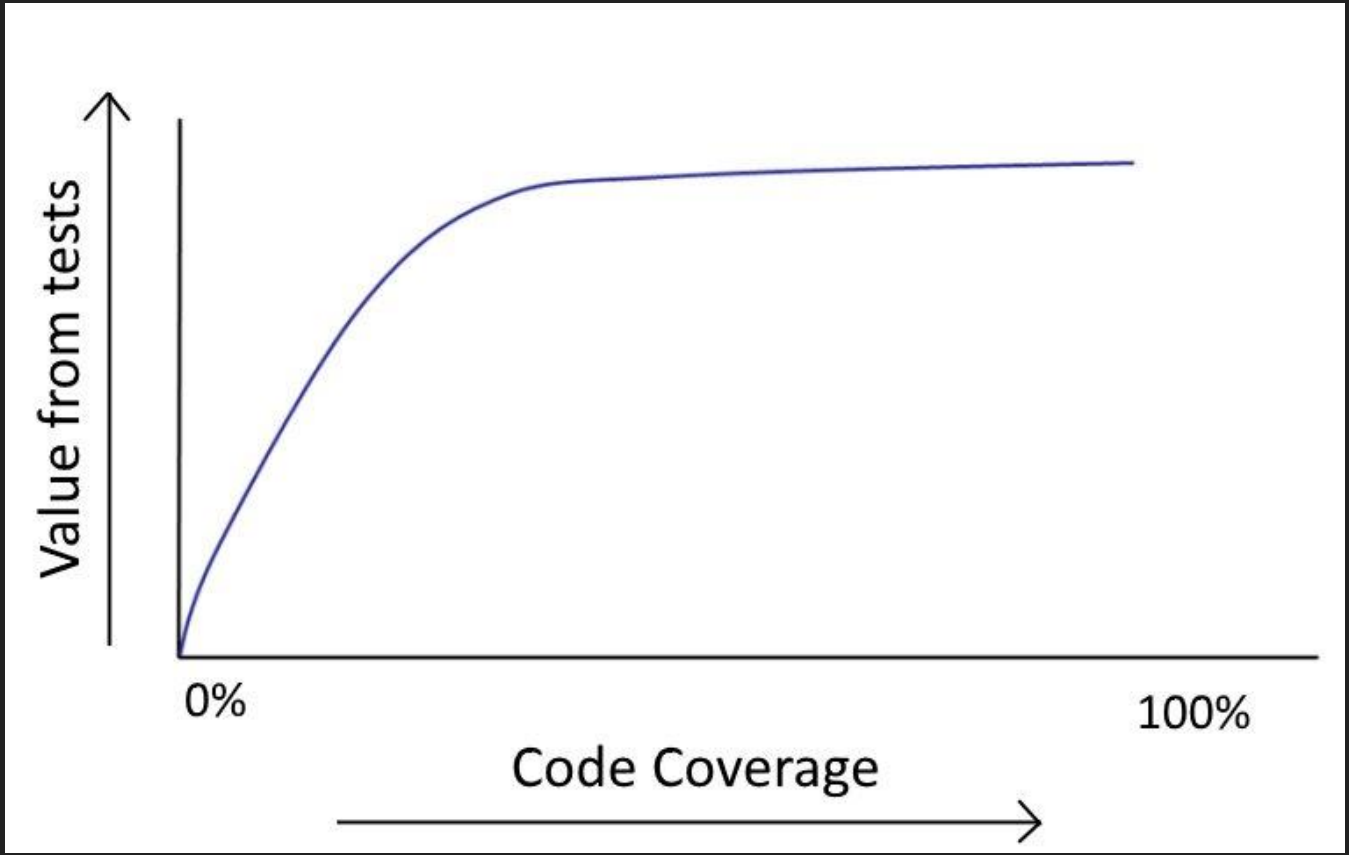

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Having flaky or slow tests

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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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