

Automated Testing

The Big Picture



Agenda

- Why Automated Tests?
- Testing pyramid
 - Unit Tests
 - Integration Tests
 - User Interface Tests
- Demo Unit Testing (C#)

- Test Driven Development (TDD)
- What is TDD?
 - Starting with the test
 - Having a failing test
 - Refactoring
- Demo TDD (C#)



- Teams can:
 - Hinder and find regression fast
 - Confidence when changing code





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- Hinder and find regression fast
- Confidence when changing code
- Get immediate feedback
- Save money





Teams can:

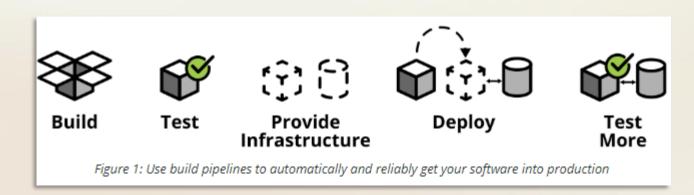
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- Confidence when changing code
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Manual testing is:

- Inaccurate
- Slow
- Repetitive
- Can become boring
- Needed sometimes



- Continuous Integration/ Continuous Deployment (CI/CD)
 - Automated build and release
 - Basically a faster way to get code into production
 - Quality assurance -> Automated Tests!

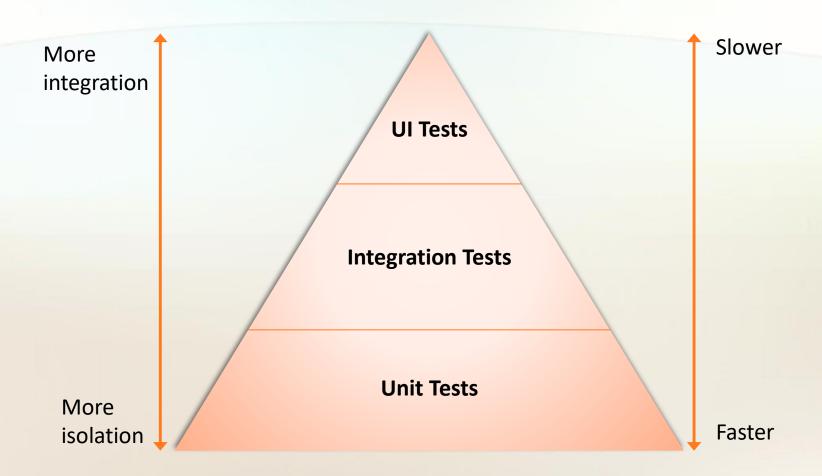


Ham Vocke. *The Practical Test Pyramid*.

Hämtad 2019-06-25. https://martinfowler.com/articles/practical-test-pyramid.html

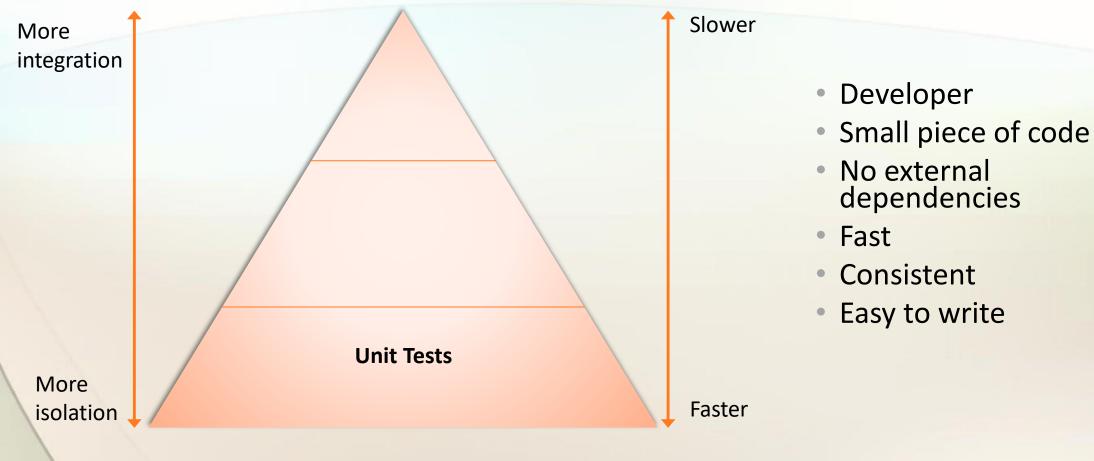


Testing pyramid





Unit Tests



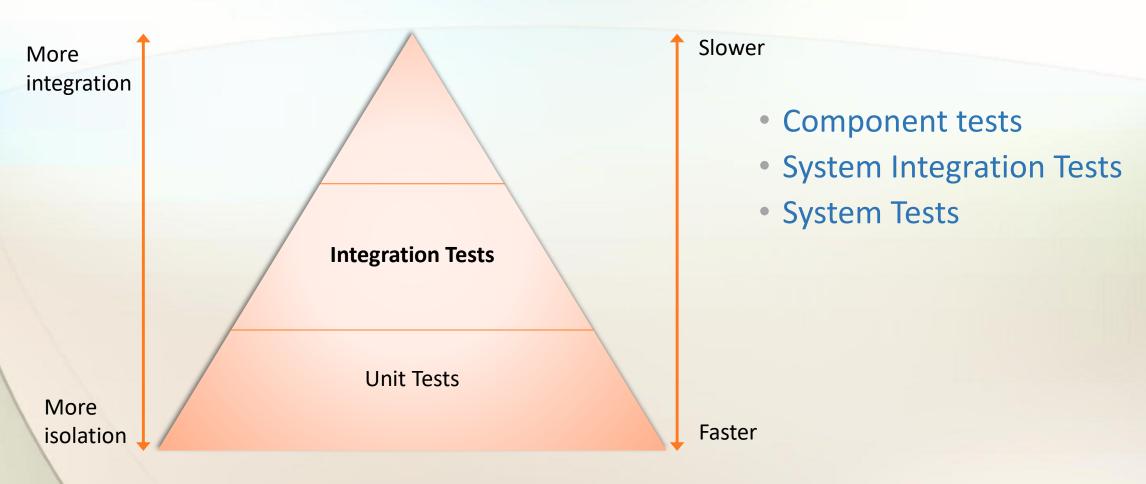


2 Unit Tests, 0 Integration Tests



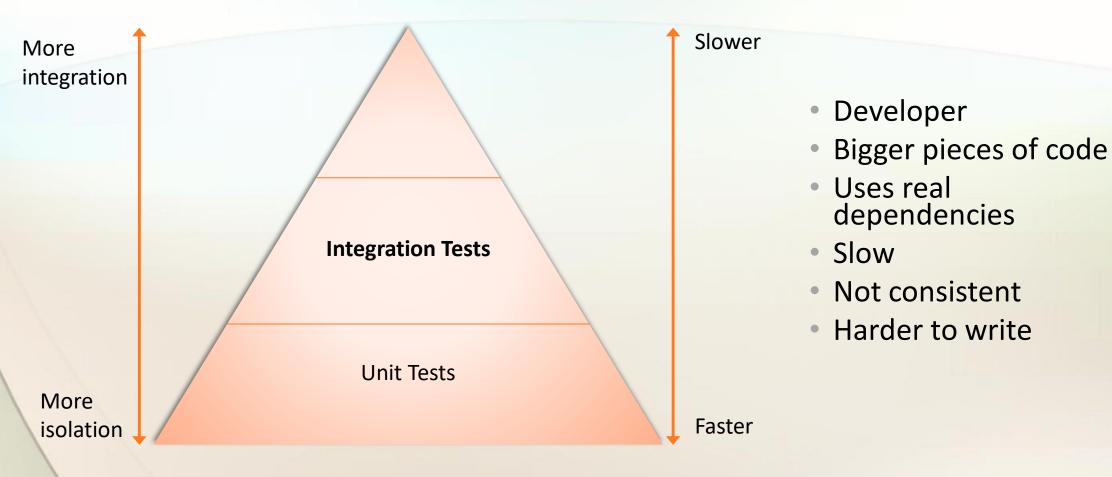


Integration Tests



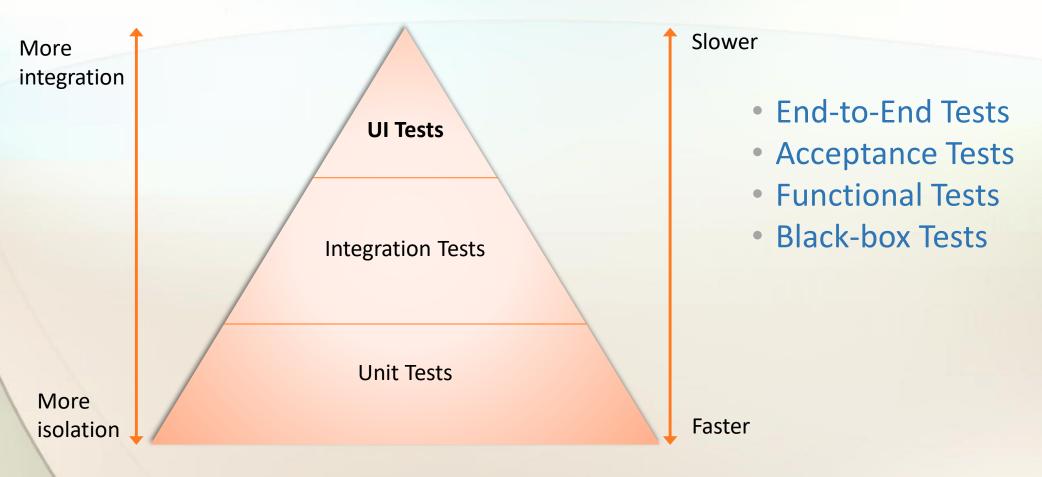


Integration Tests





User Interface Tests





User Interface Tests

