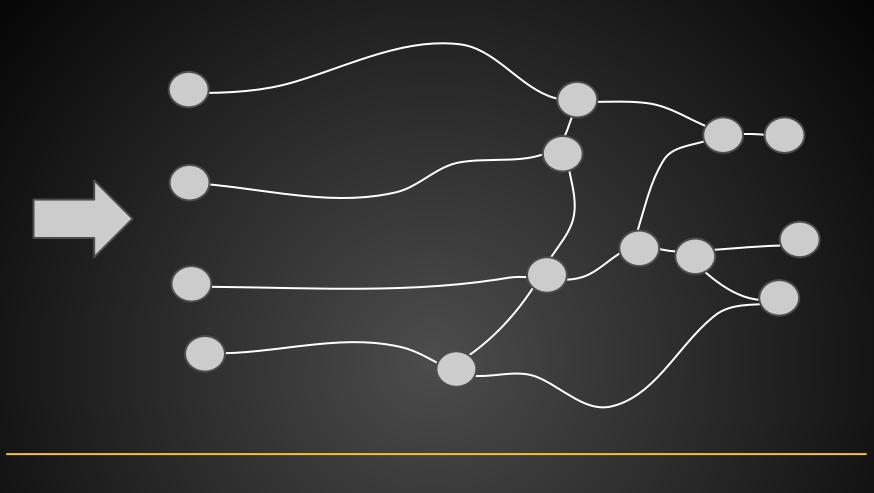
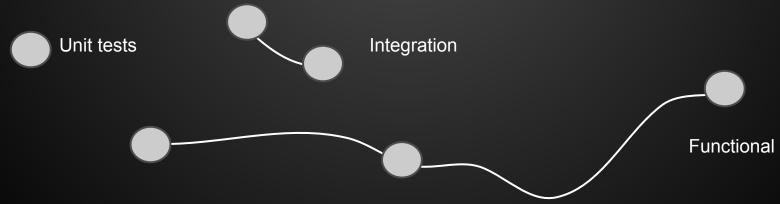
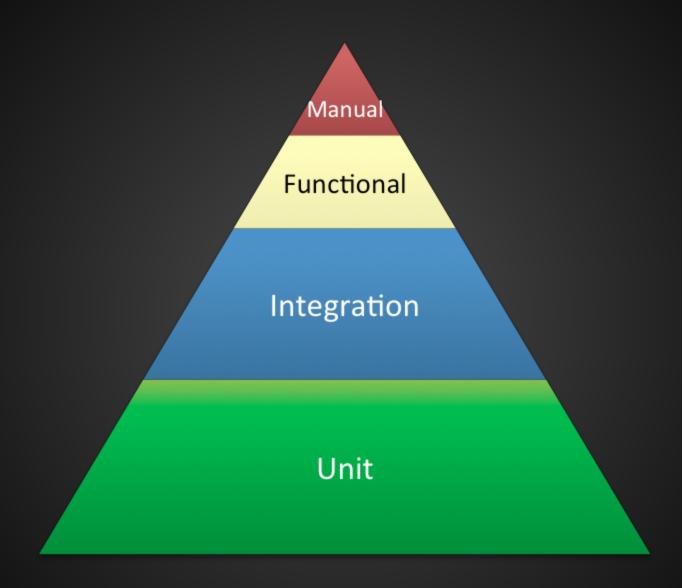
# An Introduction to Unit Testing

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http://shawnewallace.com/img/TestingPyramid.png

## why?

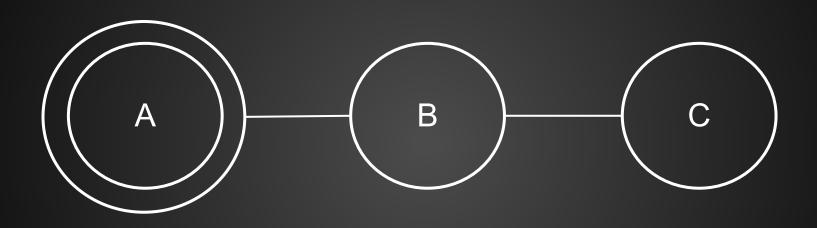
Semantic documentation

Automated regressions

Developer confidence

Attrition proofing

#### A depends on B depends on C

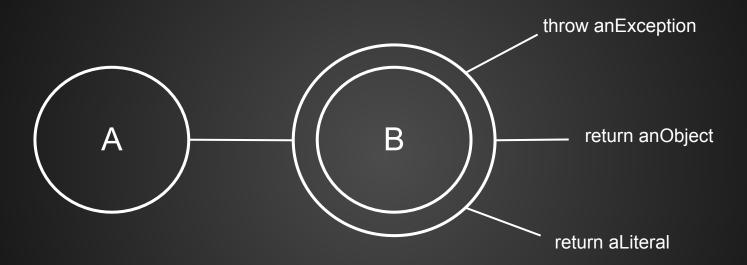


- Want to verify the behaviors of A
- Want to verify the semantics of how B is used by A
- Don't want to get C involved or any other baggage from B

#### what do we need?

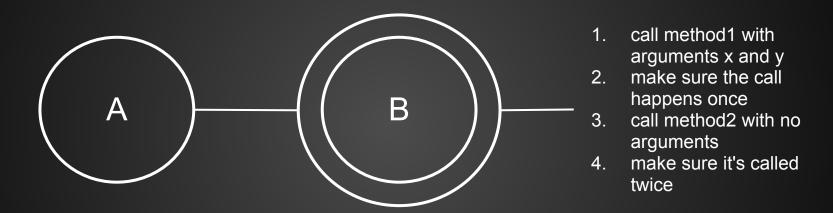
- 1. test runner
- 2. assertion library
- 3. doubles library

# doubles



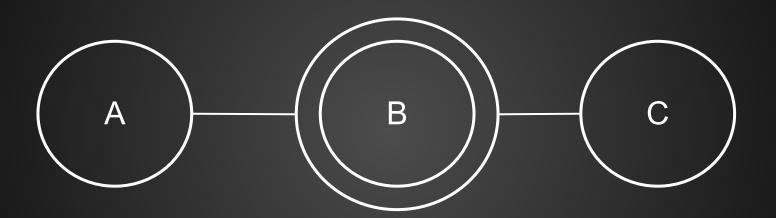
# stub

#### doubles



# mock

# doubles



spy

### what helps?

- Looser coupling
- Higher cohesion
- Dependency injection
- Test driven development

# thanks