Testing techniques

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Agenda

- Recap
- More practice
- Theory
- Testing asynchronous actions

Unit Test - life cycle

- Arrange Setup object
- Act Call method under test
- Assert Compare current results with expected

Unit Test - types

- Return Value Test
- State Test
- Interaction Test

Hands on

Return Value Test (AAA)

- Arrange Setup object
- Act Call method under test
- Assert Compare returned value with expectations

Return Value Test



State Test (AAA)

- Arrange Setup object
- Act Call method under test
- Assert Compare object's state with expectations

State Test

[SUT testedMethod];

[SUT state];

state

System Under Test

Interaction Test (AAA)

- Arrange Setup object
- Act Call method under test
- Simulate simulate behaviour
- Assert Verify integration

Interaction Test



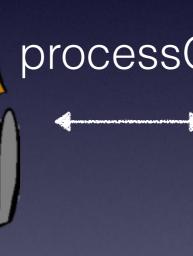
a cook





Cook







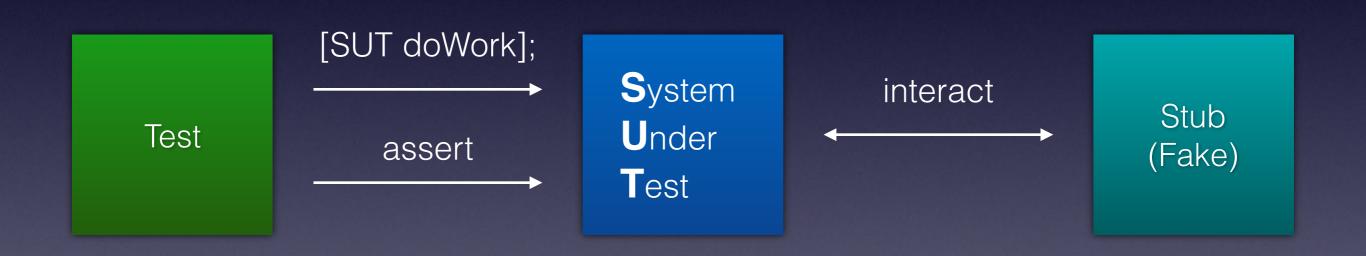
Table

Waiter

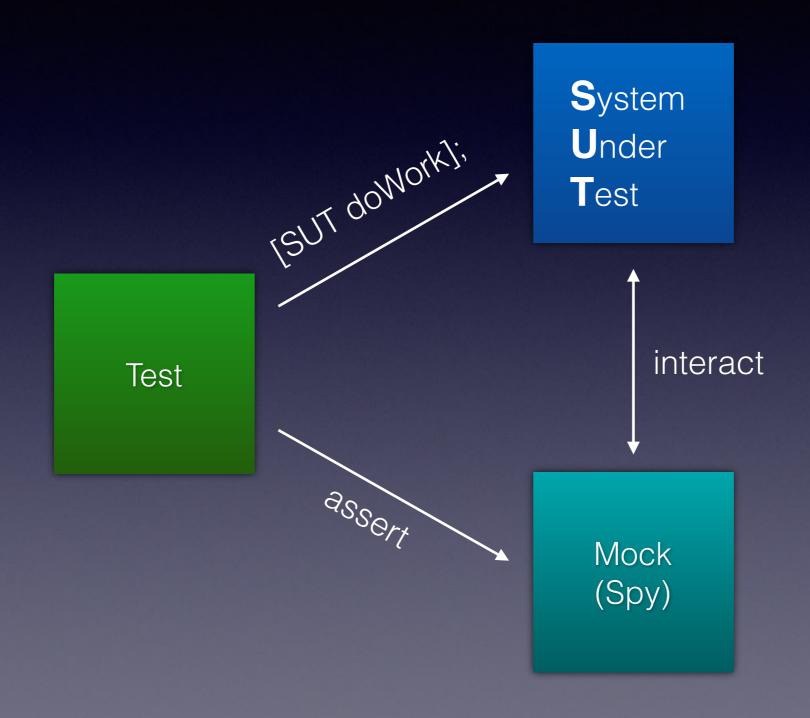
Test doubles - basics

- Mock verify if SUT uses dependency correctly
- **Spy** indirect access to SUT output
- Stub indirect input to SUT
- Fake simulated, lighter implementation

Interaction Test (1)



Interaction Test (2)



Hands on

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