

Testing techniques

Łukasz Warchoń
@warcholuke
lwarchol87@gmail.com

Unit Test - life cycle

- **A**rrange - Setup object
- **A**ct - Call method under test
- **A**ssert - Compare current results with expected

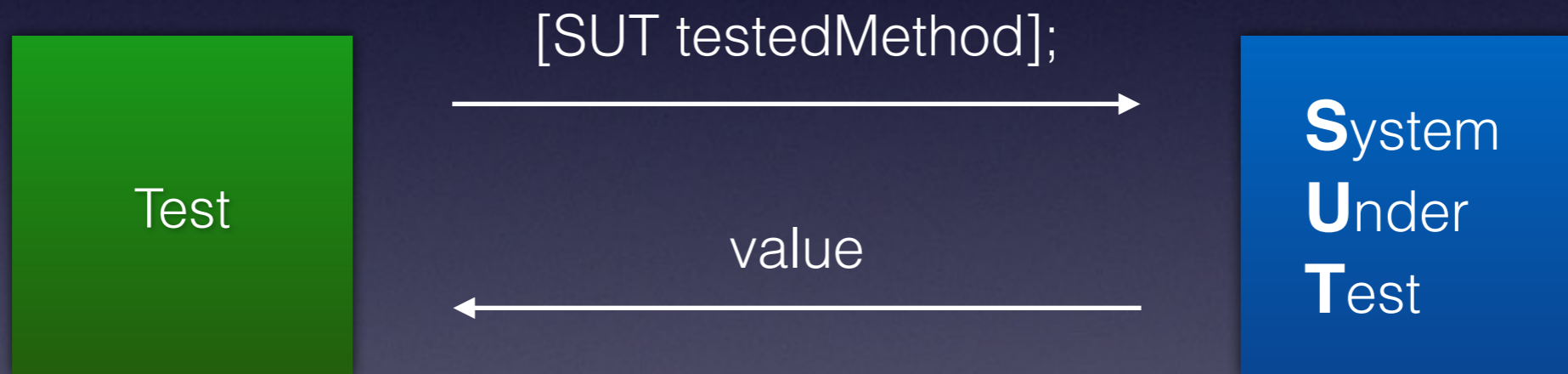
Unit Test - types

- Return Value Test
- State Test
- Interaction Test

Return Value Test (AAA)

- **A**rrange - Setup object
- **A**ct - Call method under test
- **A**ssert - Compare returned value with expectations

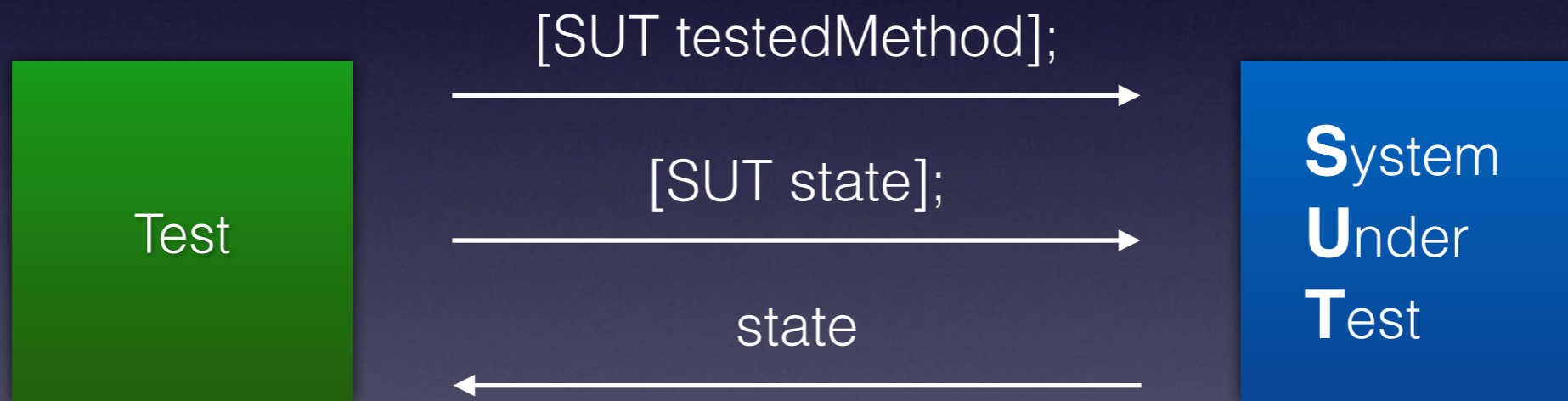
Return Value Test



State Test (AAA)

- **A**rrange - Setup object
- **A**ct - Call method under test
- **A**ssert - Compare object's state with expectations

State Test



Interaction Test (AAA)

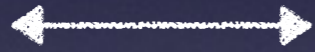
- **A**rrange - Setup object
- **A**ct - Call method under test
- **S**imulate - simulate behaviour
- **A**ssert - Verify integration

Interaction Test

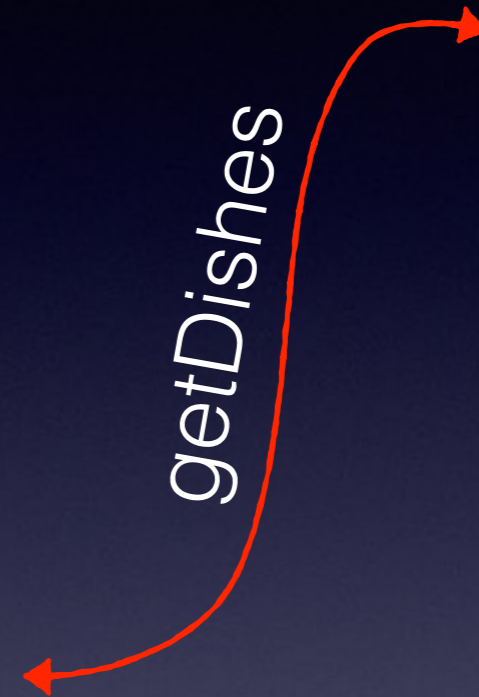


Table

processOrder



Waiter



getDishes



Fake cook

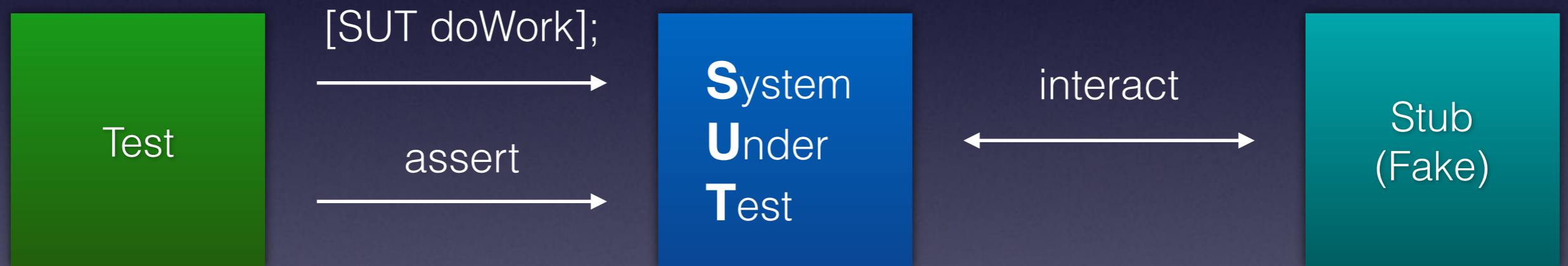


Cook

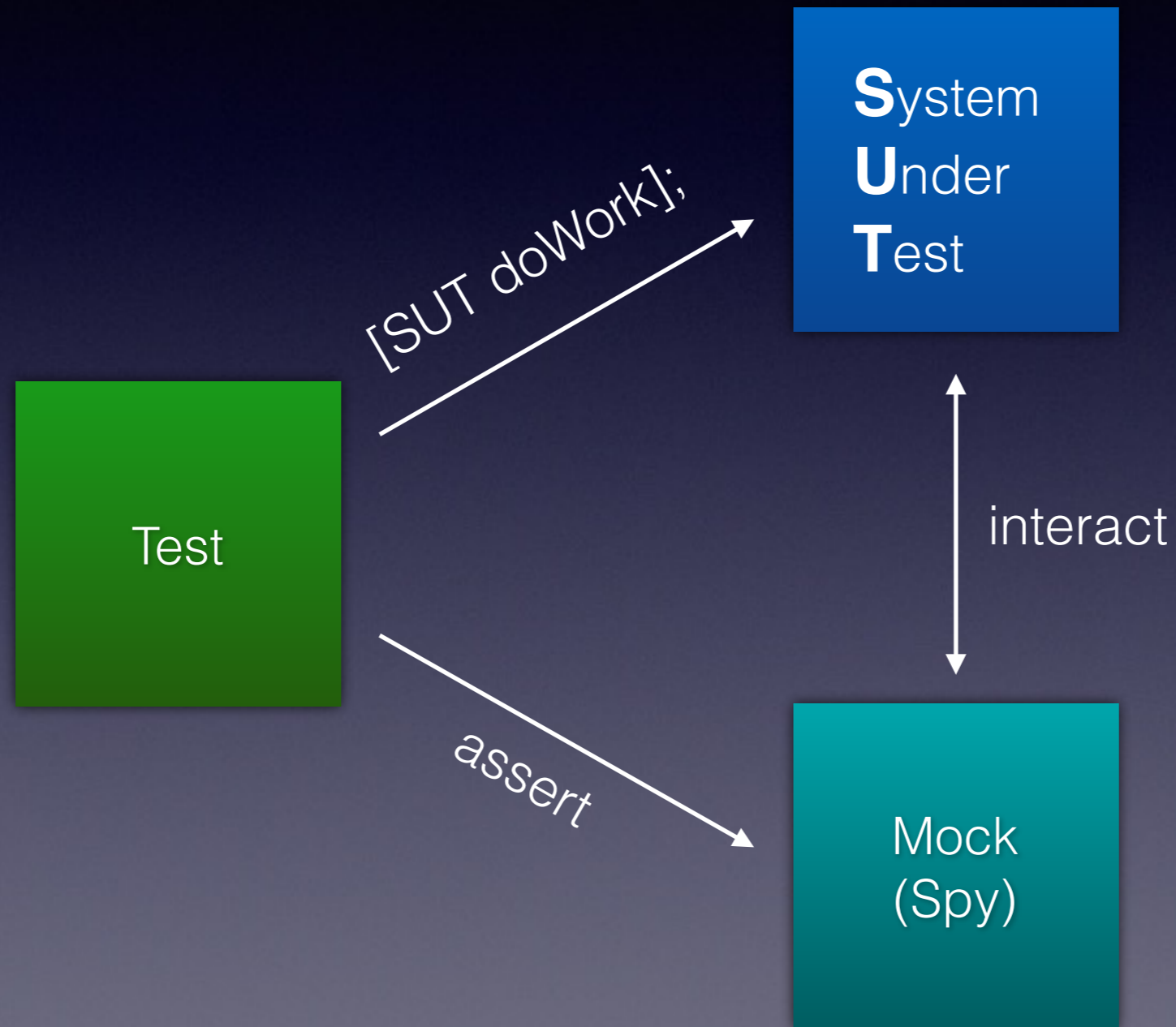
Test doubles - basics

- **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

Testing techniques

Łukasz Warchoń
@warcholuke
lwarchol87@gmail.com