

Intent Testing

CMPUT 301 Lab 7

What is Intent/UI Testing

Automated Black Box testing

- Automated testing: Write software to help test software
- Black Box testing: end-to-end tests

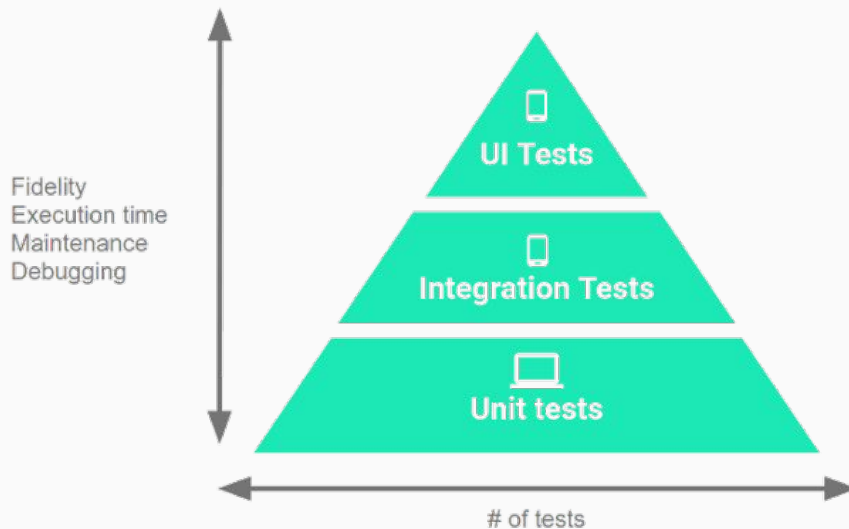
Why do we need Intent/UI testing

- Verification
 - Check that requirements are satisfied
- Confirming Normal Behavior
 - Ensures the product is working correctly
- Avoiding regression
 - Prevent previous from reoccurring

Best Practices

- Unit Tests:
 - Tests one class at a time
- Integration Tests:
 - Interactions between units
- UI Tests:
 - End-to-end workflows

Recommended ratio by Google: 7:2:1



Source: <https://www.youtube.com/watch?v=pK7W5npkhho&start=111>

Testing Libraries

- [Expresso](#): Recommended in the Android Documentation
- [Robotium](#): Blackbox UI Testing Framework
 - Allows automation UI testing and therefore saves time
 - Can be used with `AcitivityInstrumentationTestCase2`
 - Downside:
 - Not as fast as Espresso
 - Can work weirdly if the screen is off

Demo

Let's follow the instructions in the *Lab7 Instructions.pdf* to create some tests