

Mobile Automation

With



Introduction

- ❖ What is Appium?
- ❖ Why Appium?

Appium vs other testing tools

	Appium	UiAutomator	Robotium	Calabash	Espresso
<i>Android</i>	✓	✓	✓	✓	✓
<i>iOS</i>	✓	✗	✗	✓	✗
<i>Mobile Web</i>	✓	✓	✓ (Android)	✓	✗
<i>Real Device Support?</i>	✓	✓	✓	✓	✓
<i>Simulator/ Emulator Support?</i>	✓	✓	✓	✓	✓
<i>Language Supported</i>	Many	Java	Java	Ruby	Java

Appium Advantages

- ❖ Cross Platform support
- ❖ Multi Language support
- ❖ Common API
- ❖ No need to recompile app

Appium Design

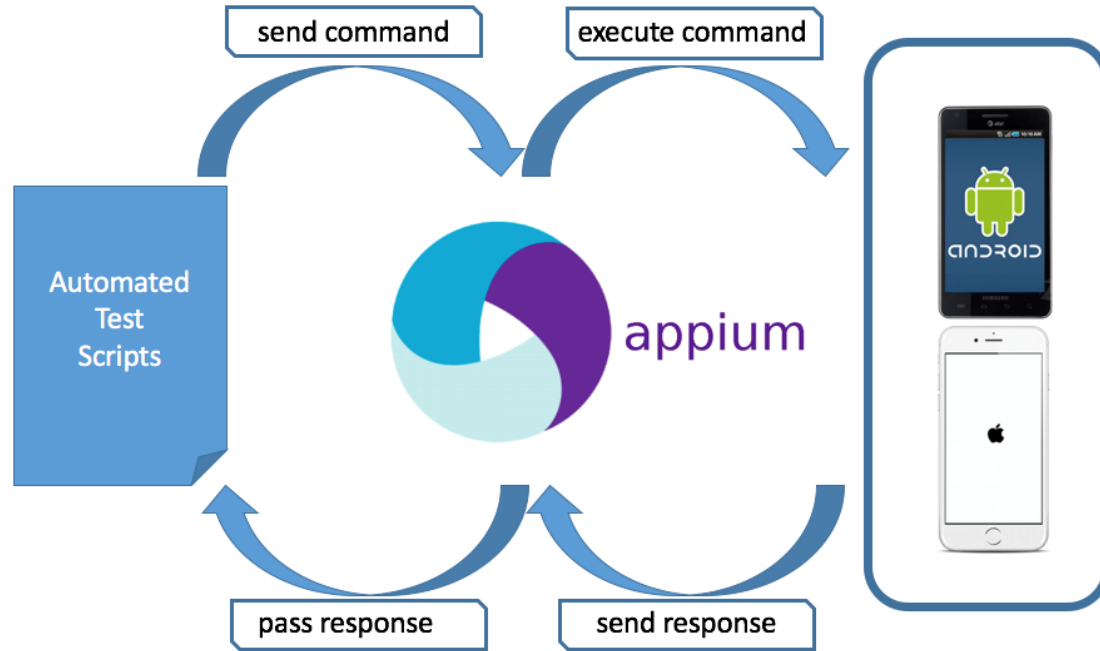
❖ Cross platform Support & No need to recompile app

- By using vendor-provided automation frameworks
 - iOS - Apple's UiAutomation
 - Android 4.2+ - Google's UiAutomator
 - Android 2.3+ - Google's Instrumentation

❖ Multi Languages Support

- By wrapping the vendor provided frameworks in one API i.e the WebDriver API
- WebDriver specifies a client-server protocol (known as the JSON Wire Protocol)

Appium Architecture



Are there any limitations?

- ❖ Only supports Android 4.2+ (API \geq 16)
- ❖ Mac OSX 10.7+ is required. Lower OS version is not supported
- ❖ Gesture support is limited