Selenium WebDriver Mobile

Appium

Mobile & WebDriver

- AndroidDriver
- Selendroid
- Appium

Appium

- http://appium.io
- Runs a WebDriver Grid Hub
- Written in node.js
- When connected it installs '.apk' to device

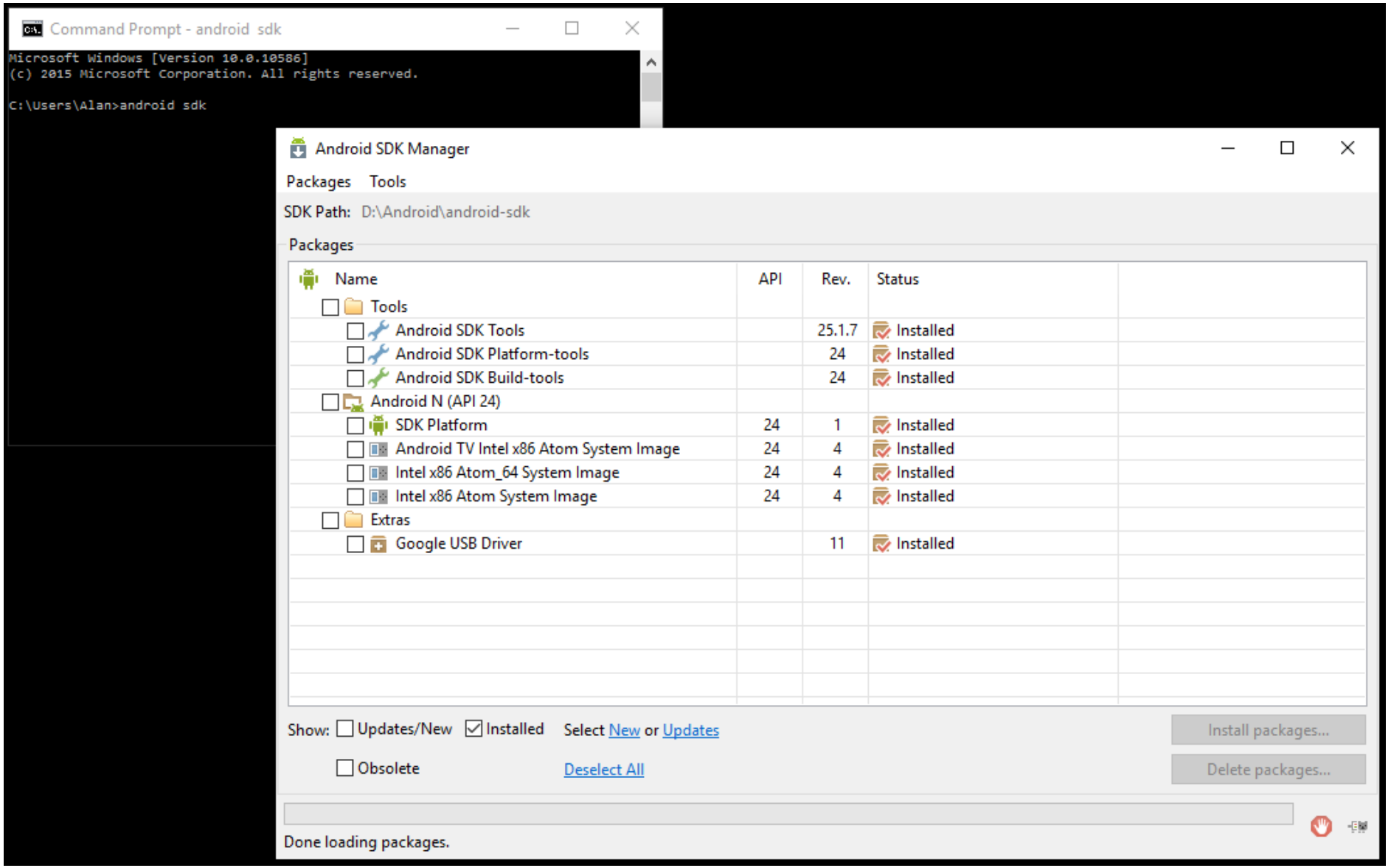
Installation

- Install Android SDK
- https://developer.android.com/studio/install.html
- https://developer.android.com/studio/index.html
- Either full studio or SDK tools package installer
- On windows I install to d:\android to avoid permission issues
- 'android sdk manager' runs at end of install
  - Install all recommended installs and updates

Environment

- environment variable `ANDROID_HOME`
  - e.g. `D:\Android\android-sdk`
- Add the tools to your path
  - `%ANDROID_HOME%\tools`
  - `%ANDROID_HOME%\platform-tools`

Basic Android SDK Install



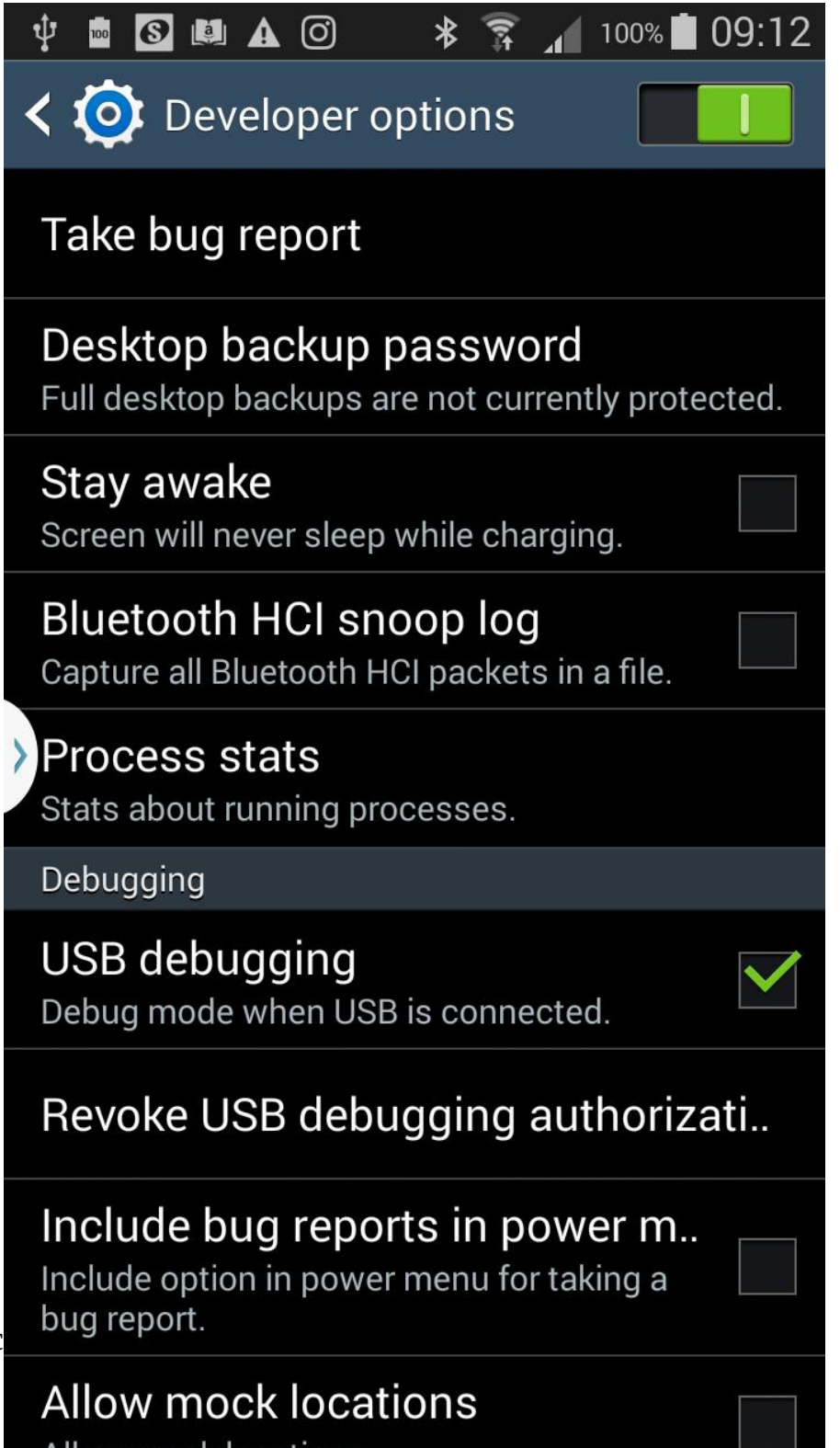
Check SDK is working

- `android sdk` - runs the sdk manager
- `adb version` - check adb is running

- `adb` documentation
  - developer.android.com/studio/command-line/adb.html
- Cmd tools documentation
  - developer.android.com/studio/command-line/index.html

Phone must be set for usb debugging

- developers.google.com/web/tools/chrome-devtools/debug/remote-debugging/remote-debugging
- http://bit.ly/29yGMN0

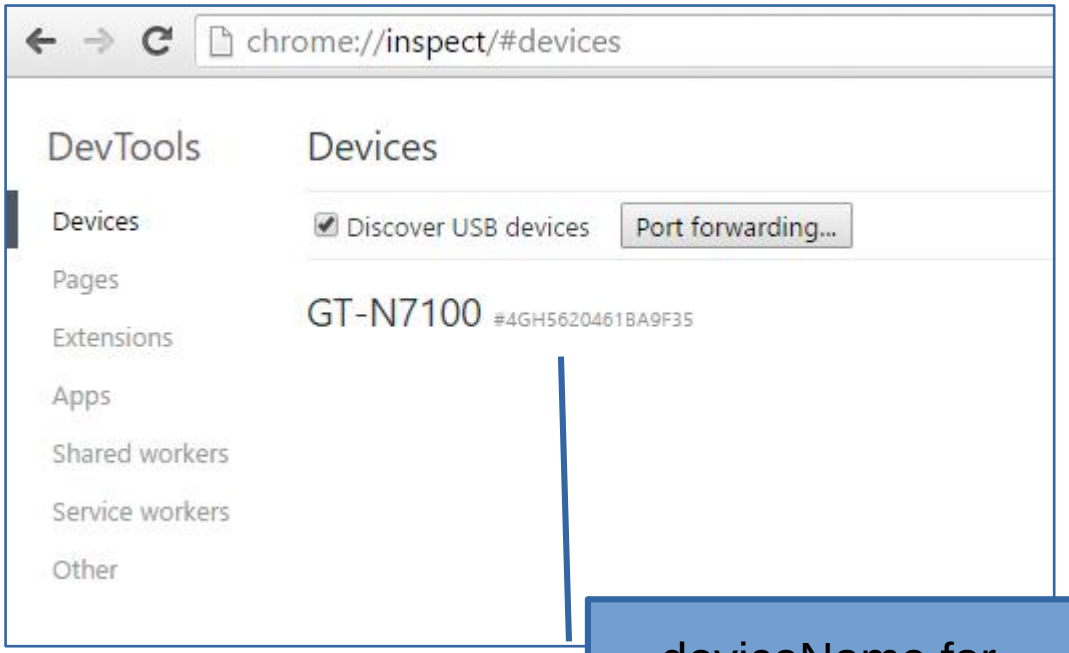


Check everything works

- Connect phone/device to computer with usb
- Use Chrome remote debugging to see if it works
- chrome://inspect

Troubleshooting

- http://bit.ly/29mShpR

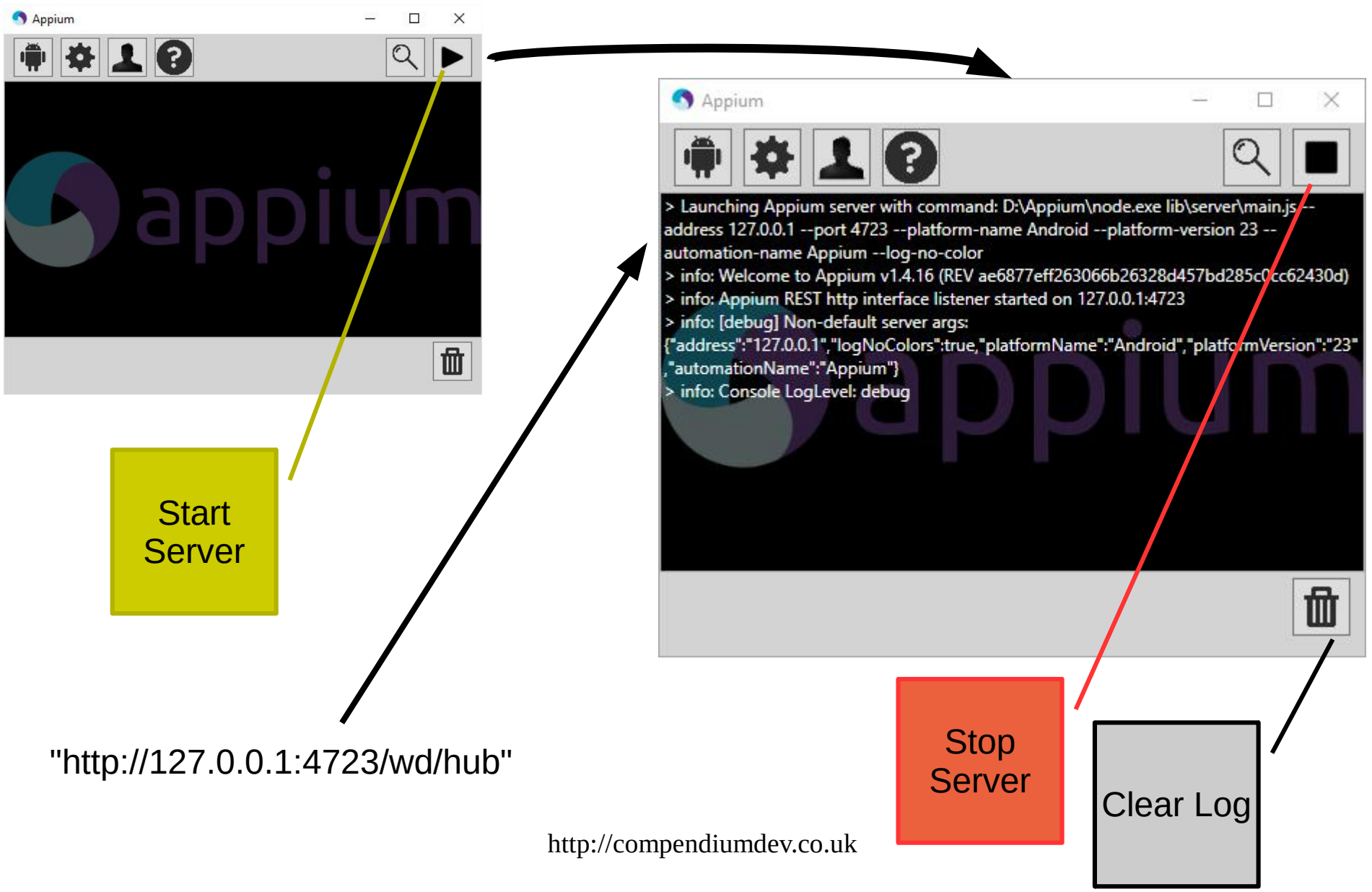


deviceName for RemoteWebDriver Connection

Then install Appium

- http://appium.io/downloads.html
- Download the most recent Appium Desktop App

Appium Gui

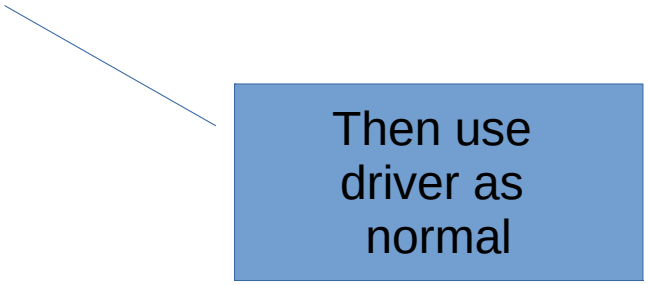

Appium
Start Server
Appium
> Launching Appium server with command: D:\Appium\node.exe lib\server\main.js --address 127.0.0.1 --port 4723 --platform-name Android --platform-version 23 --automation-name Appium --log-no-color
> info: Welcome to Appium v1.4.16 (REV ae6877eff263066b26328d457bd285c0cc62430d)
> info: Appium REST http interface listener started on 127.0.0.1:4723
> info: [debug] Non-default server args:
{"address":"127.0.0.1","logNoColors":true,"platformName":"Android","platformVersion":"23","automationName":"Appium"}
> info: Console LogLevel: debug
"http://127.0.0.1:4723/wd/hub"
Stop Server
Clear Log

Connect with WebDriver

```
DesiredCapabilities capabilities = new DesiredCapabilities();

// the device name can be seen when you do "adb devices"
capabilities.setCapability("deviceName", "4gh5620461ba9f35");
capabilities.setCapability("platformName", Platform.ANDROID);
capabilities.setCapability("app", "Chrome");


try {
    // add url to environment variables to avoid releasing with source
    String appiumURL = "http://127.0.0.1:4723/wd/hub";
    driver = new RemoteWebDriver(
            new URL(appiumURL),
            capabilities);
} catch (MalformedURLException e) {
    e.printStackTrace();
}
```



Exercises

- Download and install Android SDK
- Download and install Appium
- Create an AVD with appropriate API level for Appium
- Use your AVD to run the `AndroidTest.java` in
  - `package com.seleniumsimplified.webdriver.mobile`
- Optional – physical device, amend Driver and run Android Suite