

Mobile Testing

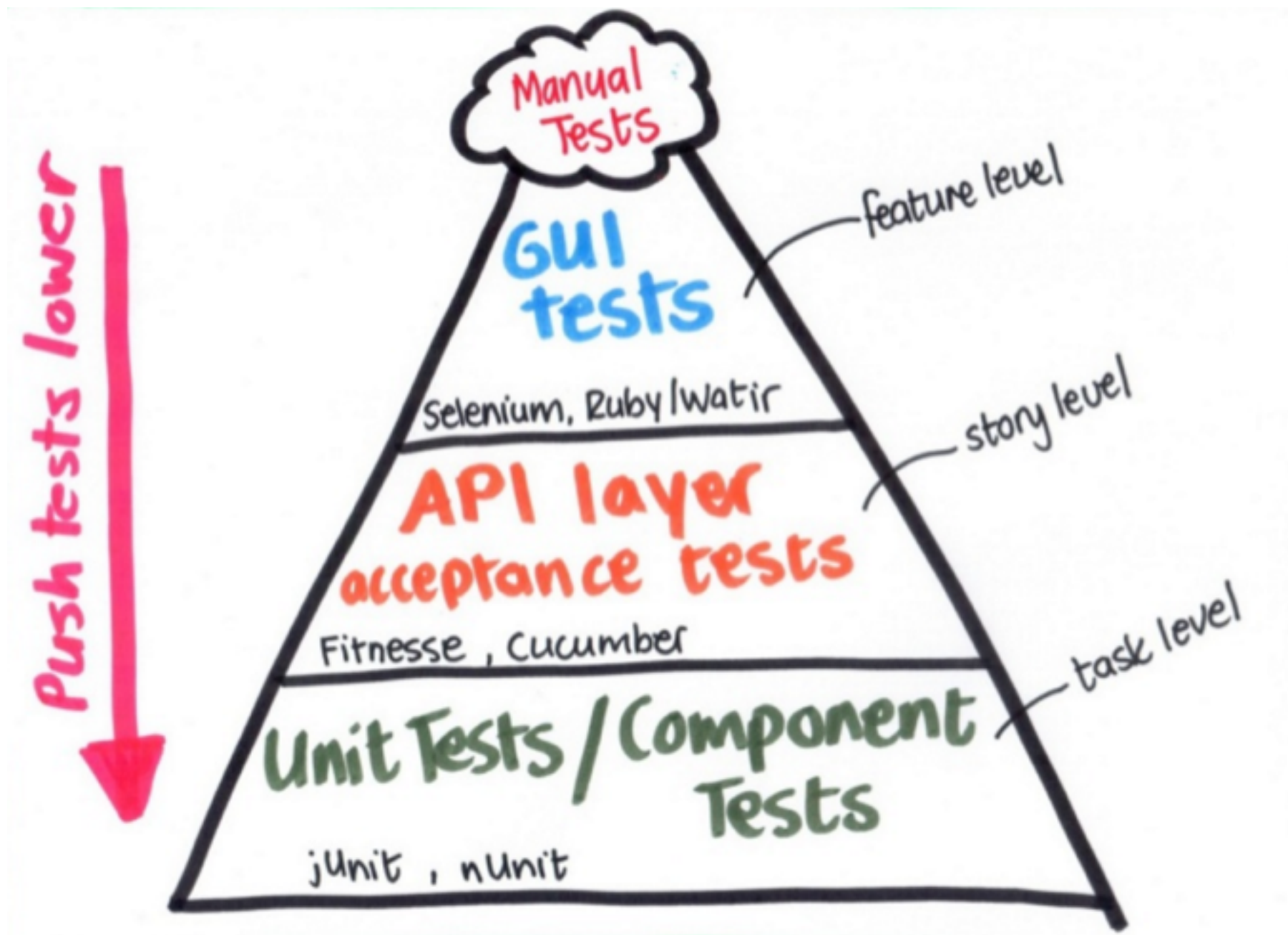




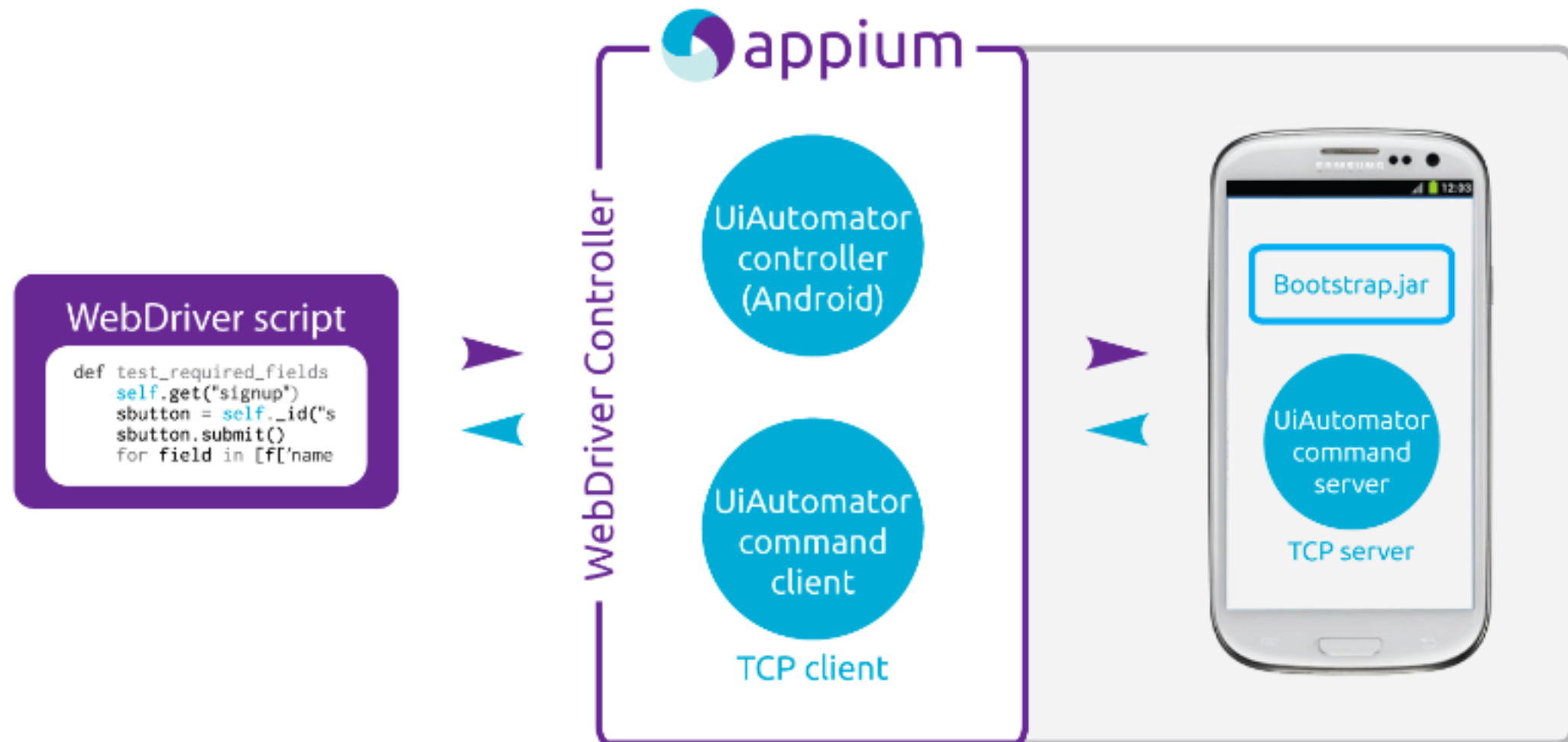
<http://appium.io/>



Android



Appium architecture



Installation

```
$brew install node
```

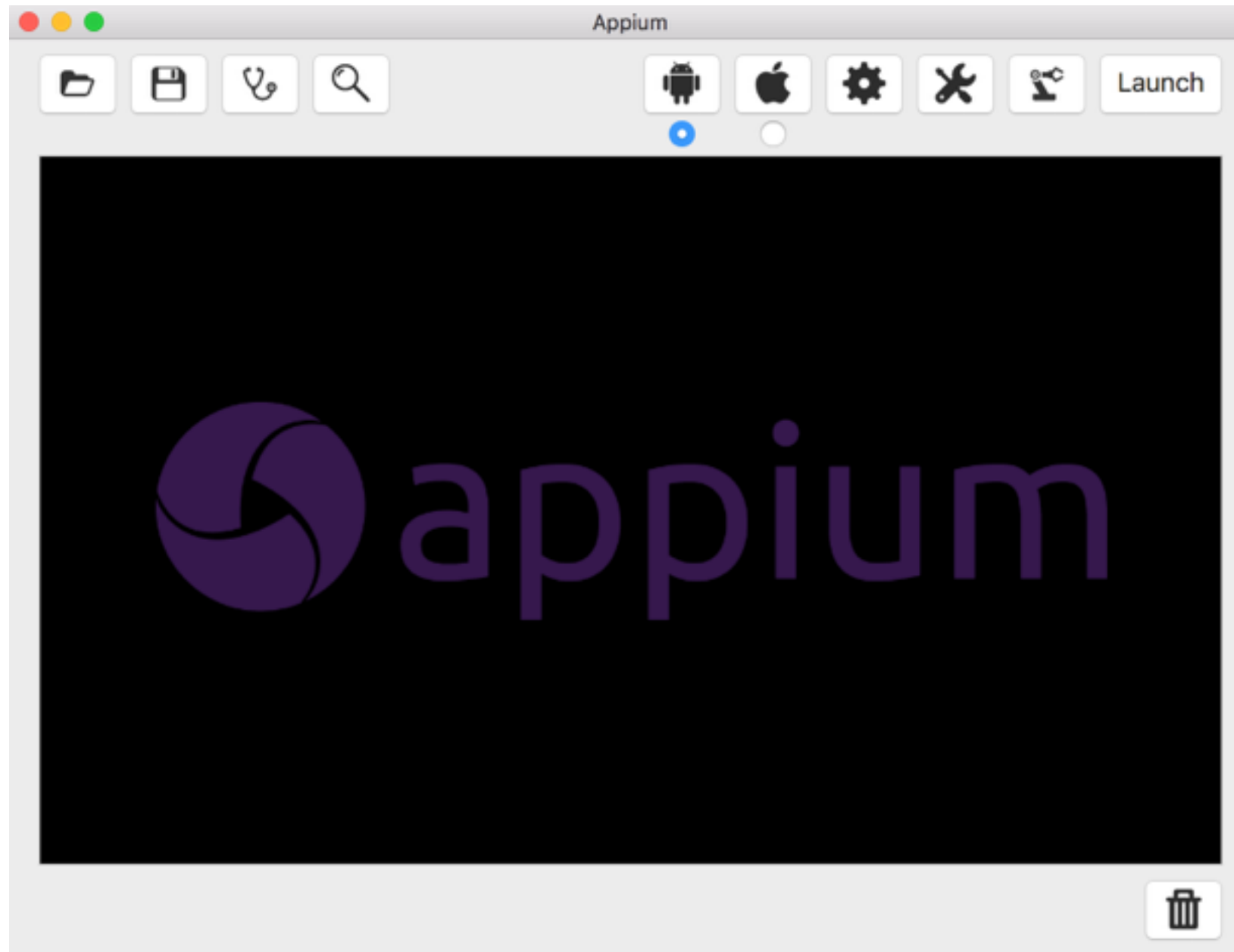
```
$npm install -g appium
```

```
$npm install wd
```

```
$appium
```



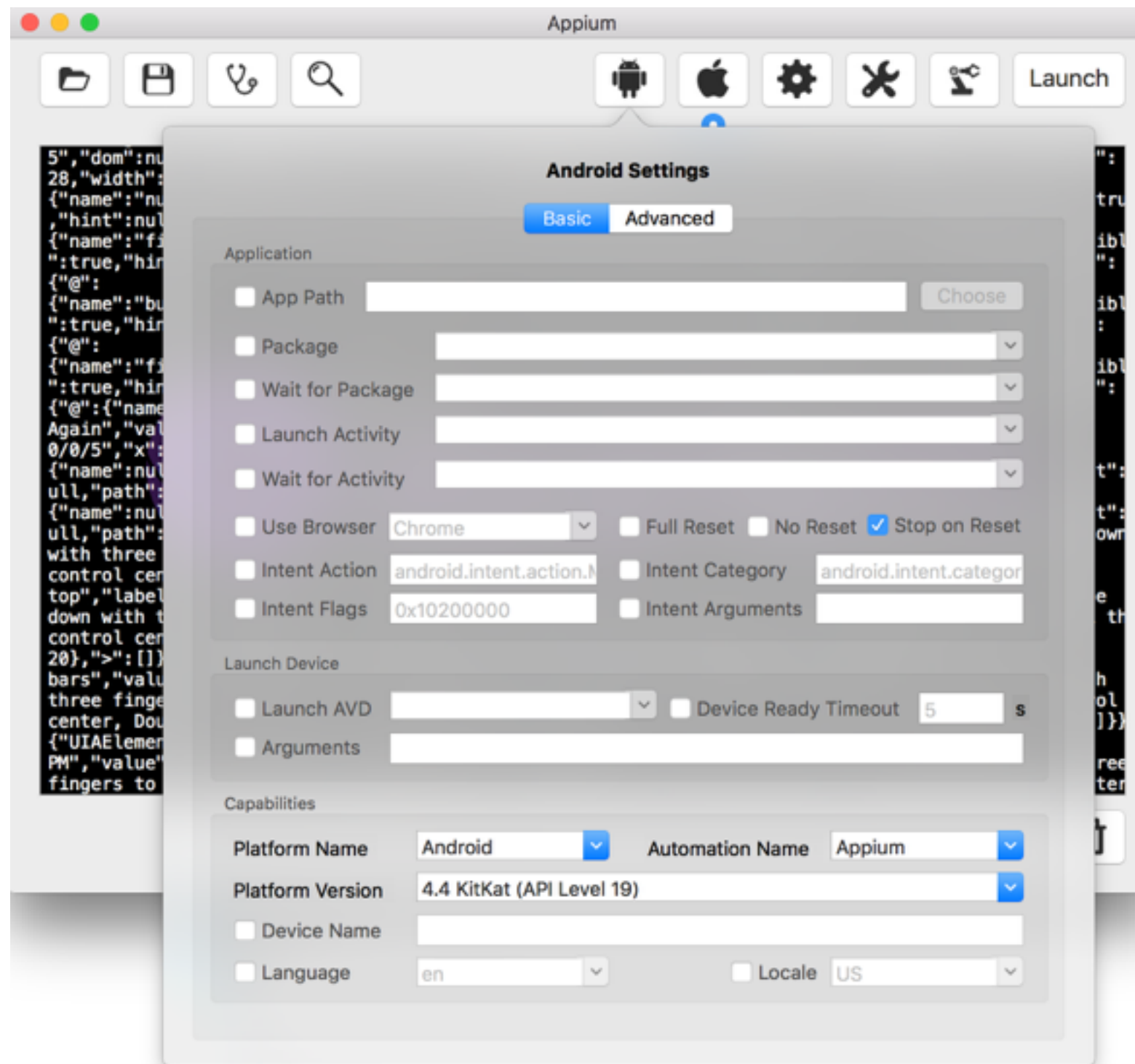
Appium desktop apps



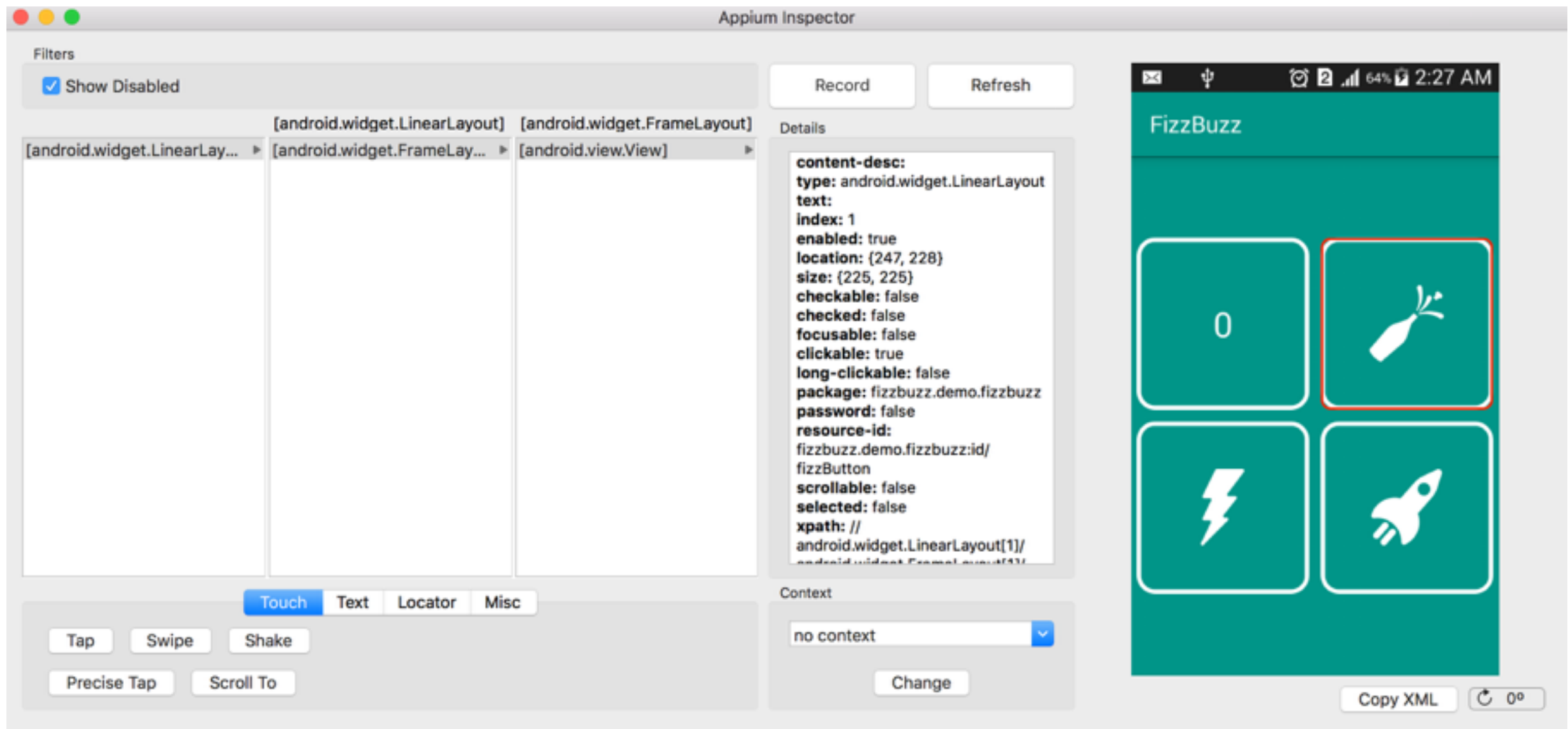
<http://appium.io/downloads.html>



Appium desktop apps



Appium inspector



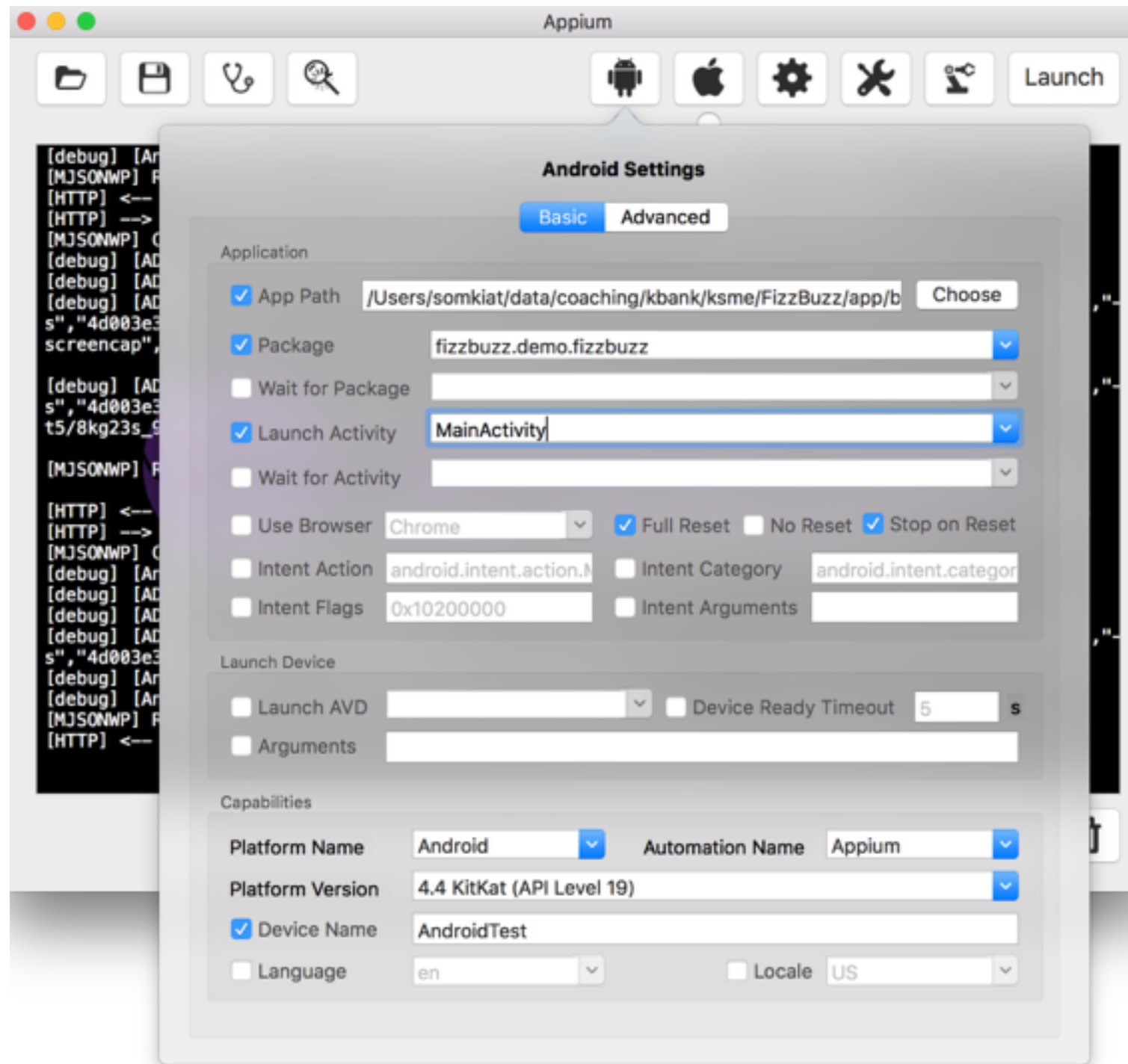
Config appium

Run on Emulator

Run on Real device



Run on emulator/device

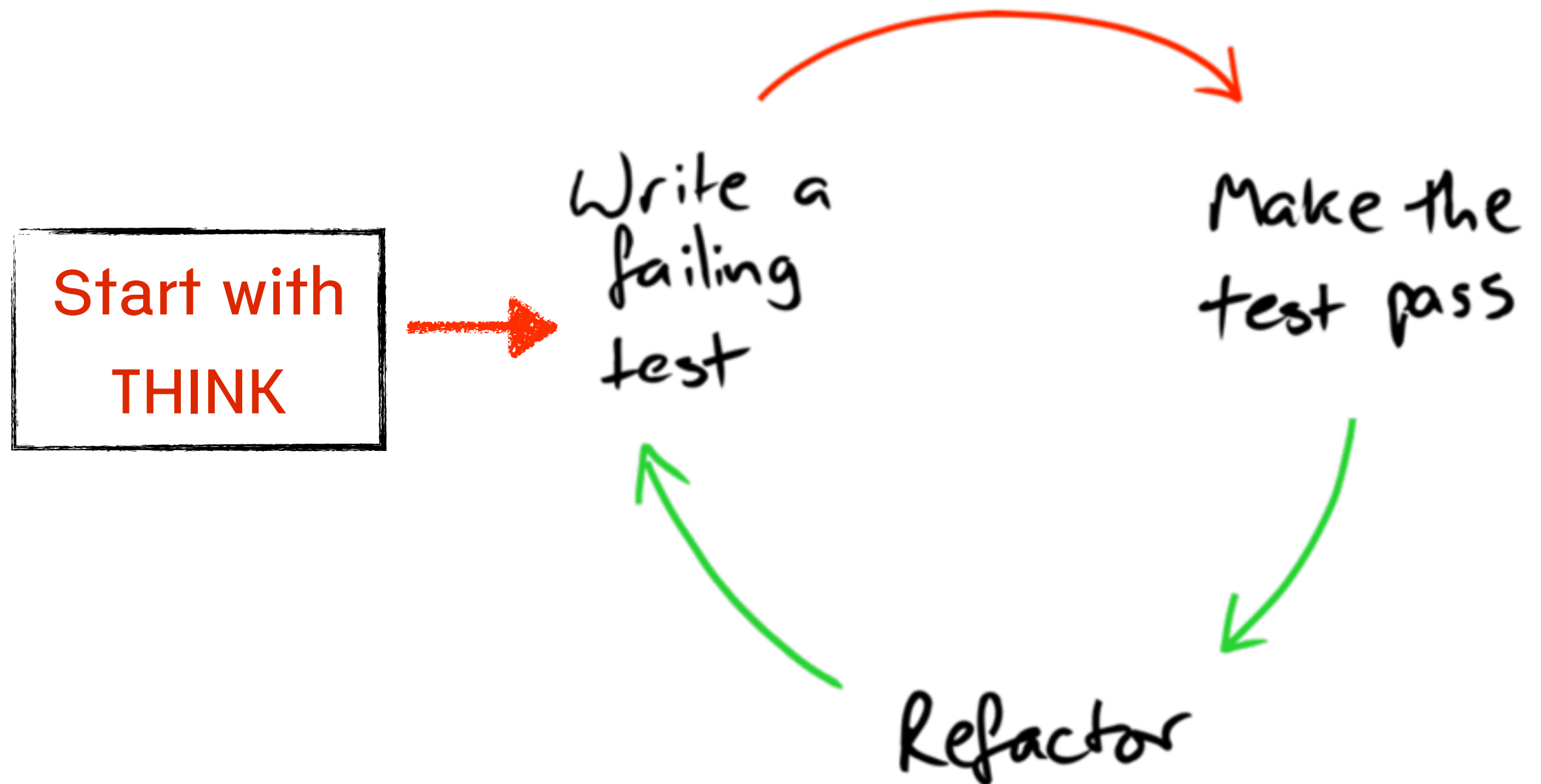


App path

file APK



Improve TDD Cycle



Simple TDD Rules

Write a failing automated test before
you write any code

Remove duplication



Appium client

Ruby

Python

Java

JavaScript

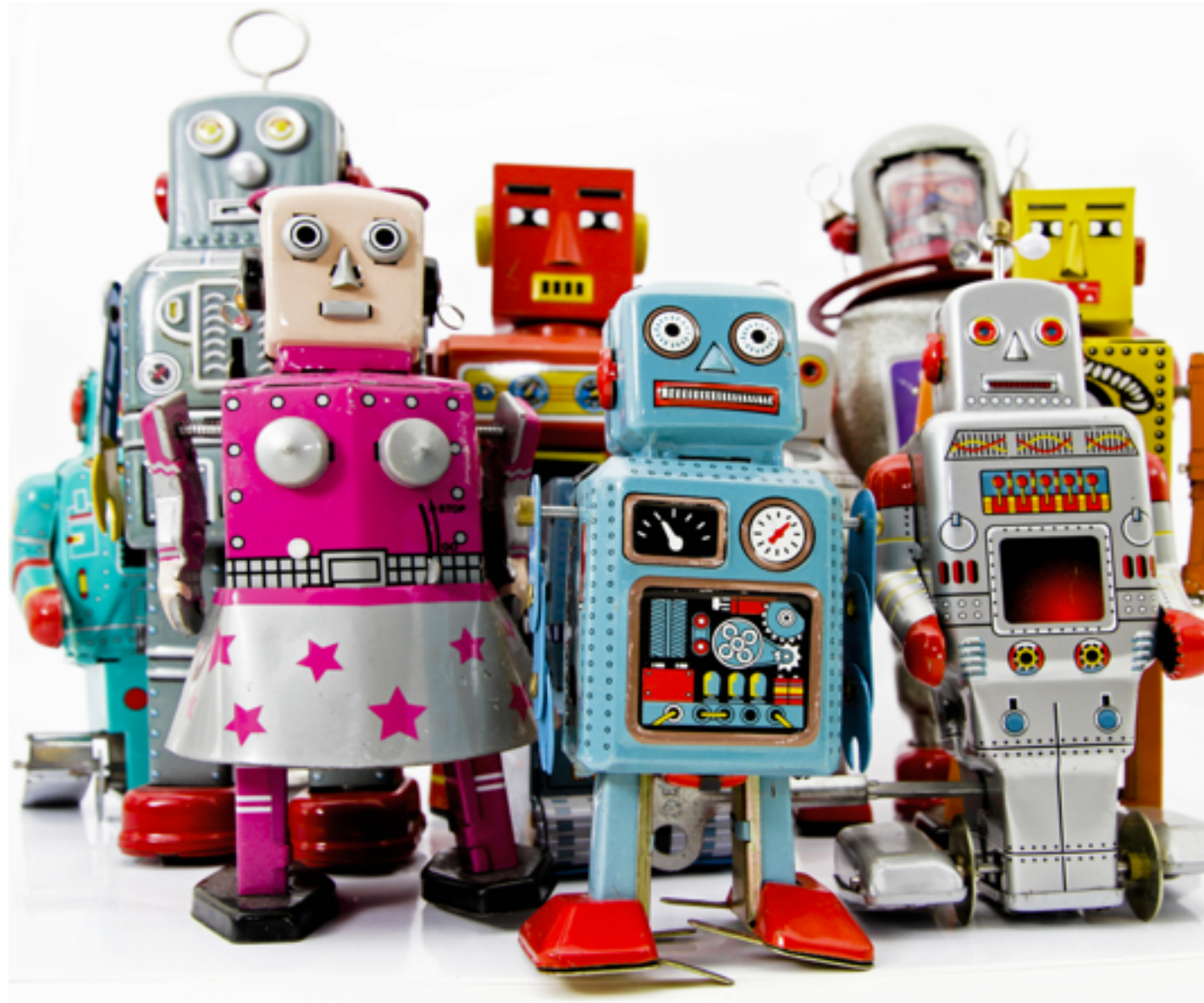
PHP

C#

RobotFramework



Let's start



<https://github.com/serhatbolsu/robotframework-appiumlibrary>



Installation

```
$pip install robotframework
```

```
$pip install robotframework-appiumlibrary
```



Start

*** Settings ***

Library

AppiumLibrary

*** Variables ***

*** Testcases ***

*** Keywords ***



Run test

```
$pybot <filename>.robot
```



Report

Test Details

TotalsTagsSuitesSearch

Name: Fizzbuzz Android

Status: 5 critical test, 5 passed, 0 failed
5 test total, 5 passed, 0 failed

Start / End Time: 20160913 02:59:40.967 / 20160913 03:01:47.370

Elapsed Time: 00:02:06.403

Log File: [log.html#s1](#)

Name	Documentation	Tags	Crit.	Status
Fizzbuzz Android . Count 1			yes	PASS
Fizzbuzz Android . Count 2			yes	PASS
Fizzbuzz Android . Count 3			yes	PASS
Fizzbuzz Android . Count 5			yes	PASS
Fizzbuzz Android . Count 15		dev	yes	PASS



Error

Fizzbuzz Android Test Log

Generated
20160913 02:51:52 GMT +07:00
5 minutes 29 seconds ago

Test Statistics

Total Statistics	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	1	0	1	00:00:40	<div></div>
All Tests	1	0	1	00:00:40	<div></div>

Statistics by Tag	Total	Pass	Fail	Elapsed	Pass / Fail
dev	1	0	1	00:00:40	<div></div>

Statistics by Suite	Total	Pass	Fail	Elapsed	Pass / Fail
Fizzbuzz Android	1	0	1	00:00:40	<div></div>

Test Execution Log

-

SUITE

Fizzbuzz Android

Full Name:

Fizzbuzz Android

Source:

[/Users/somkiat/data/slide/mobile-testing/demo/robotframework/fizzbuzz_android.robot](#)

Start / End / Elapsed:

20160913 02:51:12.111 / 20160913 02:51:52.413 / 00:00:40.302

Status:

1 critical test, 0 passed, **1 failed**
1 test total, 0 passed, **1 failed**

-

TEST

Count 15

Full Name:

Fizzbuzz Android.Count 15

Tags:

dev

Start / End / Elapsed:

20160913 02:51:12.254 / 20160913 02:51:52.412 / 00:00:40.158

Status:

FAIL (critical)

Message:

Element 'android=new UiSelector().text("16")' did not appear in 5 seconds

+ SETUP

Open APP

Error

KEYWORD `AppiumLibrary.Wait Until Page Contains Element android=new UiSelector().text("16")`

Documentation: Waits until element specified with `locator` appears on current page.

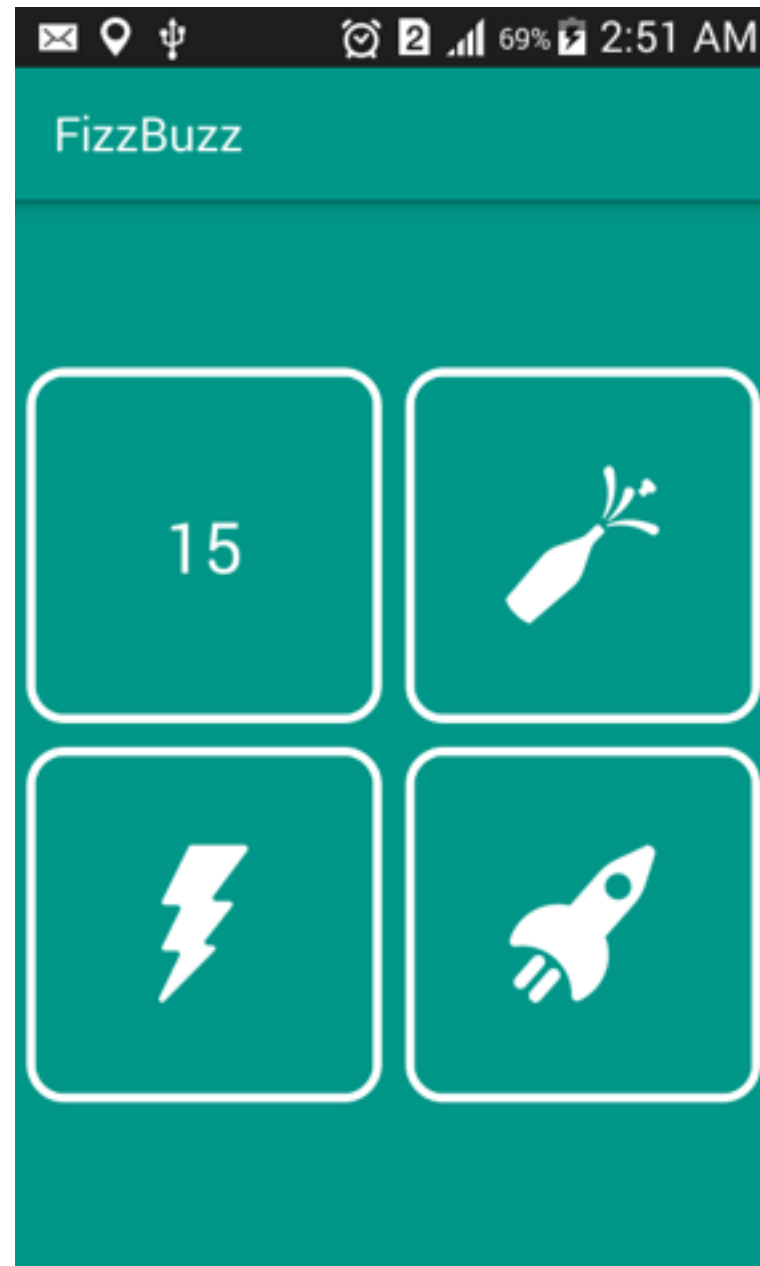
Start / End / Elapsed: 20160913 02:51:41.387 / 20160913 02:51:47.397 / 00:00:06.010

 KEYWORD AppiumLibrary . Capture Page Screenshot

```
02:51:46.856 INFO <?xml version="1.0" encoding="UTF-8"?><hierarchy rotation="0"><android.widget.FrameLayout index="0" text=""
class="android.widget.FrameLayout" package="fizzbuzz.demo.fizzbuzz" content-desc="" checkable="false" checked=
clickable="false" enabled="true" focusable="false" focused="false" scrollable="false" long-clickable="false" p
selected="false" bounds="[0,0][480,800]" resource-id="" instance="0"><android.widget.LinearLayout index="0" te
class="android.widget.LinearLayout" package="fizzbuzz.demo.fizzbuzz" content-desc="" checkable="false" checked=
clickable="false" enabled="true" focusable="false" focused="false" scrollable="false" long-clickable="false" p
selected="false" bounds="[0,0][480,800]" resource-id="" instance="0"><android.widget.FrameLayout index="0" text
class="android.widget.FrameLayout" package="fizzbuzz.demo.fizzbuzz" content-desc="" checkable="false" checked=
clickable="false" enabled="true" focusable="false" focused="false" scrollable="false" long-clickable="false" p
selected="false" bounds="[0,38][480,800]" resource-id="" instance="1"><android.view.View index="0" text="" clas
package="fizzbuzz.demo.fizzbuzz" content-desc="" checkable="false" checked="false" clickable="false" enabled="t
focused="false" scrollable="false" long-clickable="false" password="false" selected="false" bounds="[0,38][480,
id="fizzbuzz.demo.fizzbuzz:id/decor_content_parent" instance="0"><android.widget.FrameLayout index="0" text=""
class="android.widget.FrameLayout" package="fizzbuzz.demo.fizzbuzz" content-desc="" checkable="false" checked=
clickable="false" enabled="true" focusable="false" focused="false" scrollable="false" long-clickable="false" p
selected="false" bounds="[0,38][480,122]" resource-id="fizzbuzz.demo.fizzbuzz:id/action_bar_container" instance
index="0" text="" class="android.view.View" package="fizzbuzz.demo.fizzbuzz" content-desc="" checkable="false"
clickable="false" enabled="true" focusable="false" focused="false" scrollable="false" long-clickable="false" p
selected="false" bounds="[0,38][480,122]" resource-id="fizzbuzz.demo.fizzbuzz:id/action_bar" instance="1"><and
index="0" text="FizzBuzz" class="android.widget.TextView" package="fizzbuzz.demo.fizzbuzz" content-desc="" che
checked="false" clickable="false" enabled="true" focusable="false" focused="false" scrollable="false" long-cli
password="false" selected="false" bounds="[24,59][144,100]" resource-id="" instance="0"/></android.view.View>
</android.widget.FrameLayout><android.widget.FrameLayout index="1" text="" class="android.widget.FrameLayout"
package="fizzbuzz.demo.fizzbuzz" content-desc="" checkable="false" checked="false" clickable="false" enabled="t
focused="false" scrollable="false" long-clickable="false" password="false" selected="false" bounds="[0,122][480
id="android:id/content" instance="3"><android.widget.LinearLayout index="0" text="" class="android.widget.Linea
package="fizzbuzz.demo.fizzbuzz" content-desc="" checkable="false" checked="false" clickable="false" enabled="t
focused="false" scrollable="false" long-clickable="false" password="false" selected="false" bounds="[0,122][480
instance="1"><android.widget.LinearLayout index="0" text="" class="android.widget.LinearLayout" package="fizzbu
content-desc="" checkable="false" checked="false" clickable="false" enabled="true" focusable="false" focused="t
```



Error



“Quality is the responsibility of everybody.”

