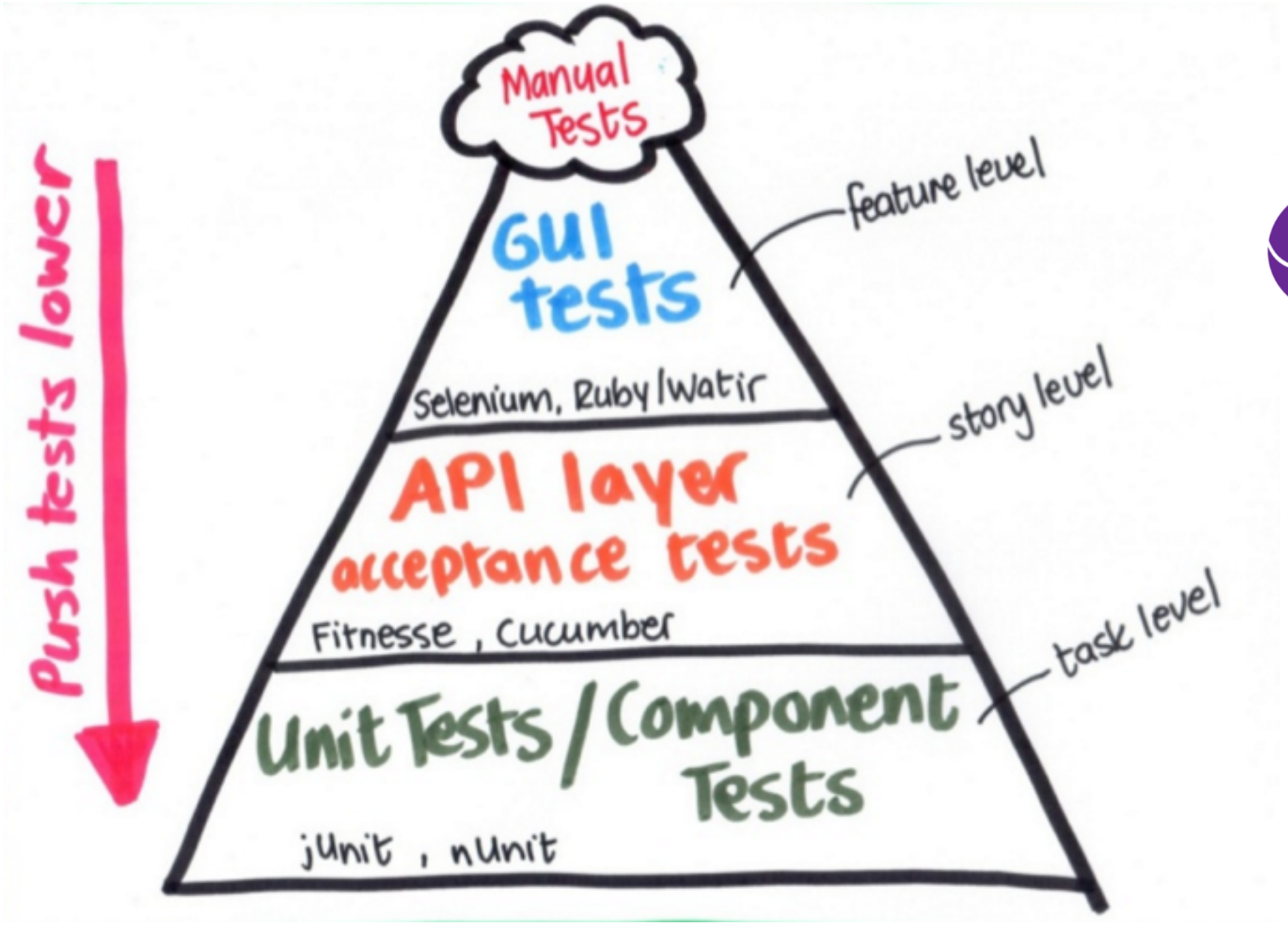
Mobile Testing

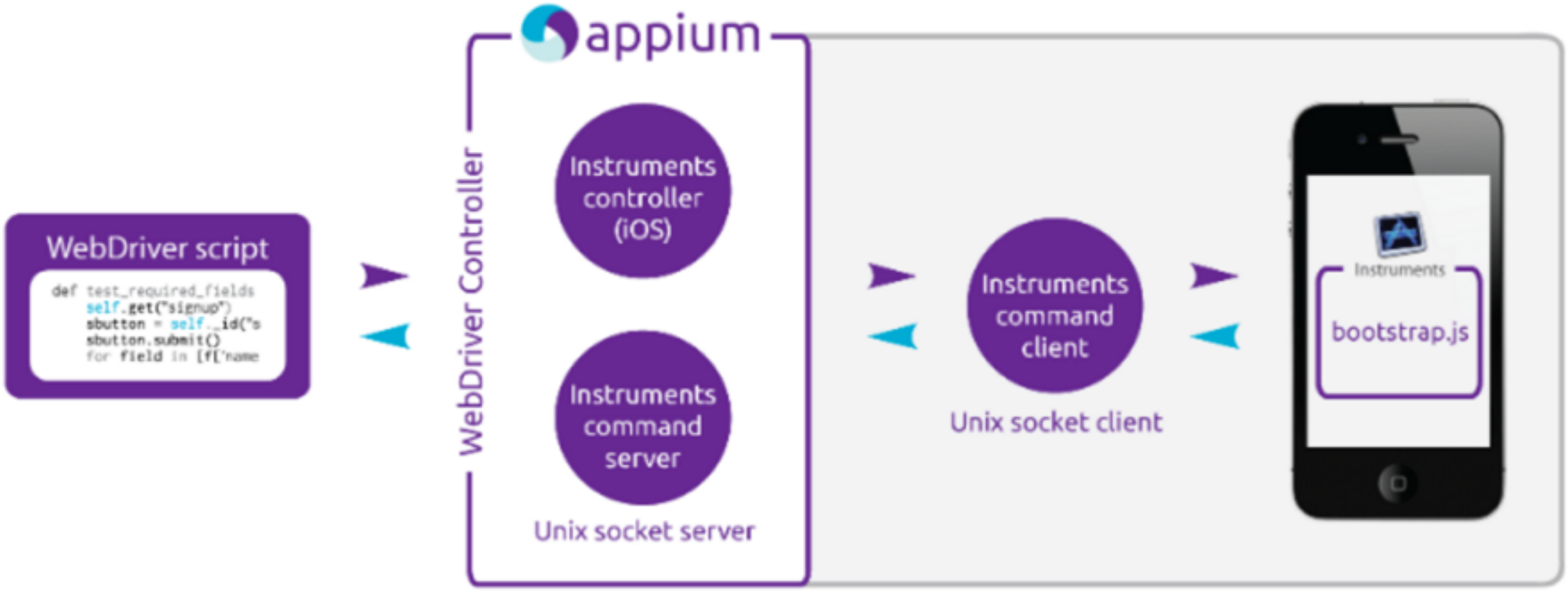
http://appium.io/

iOS



appium
sponsored by Sauce Labs

Appium architecture

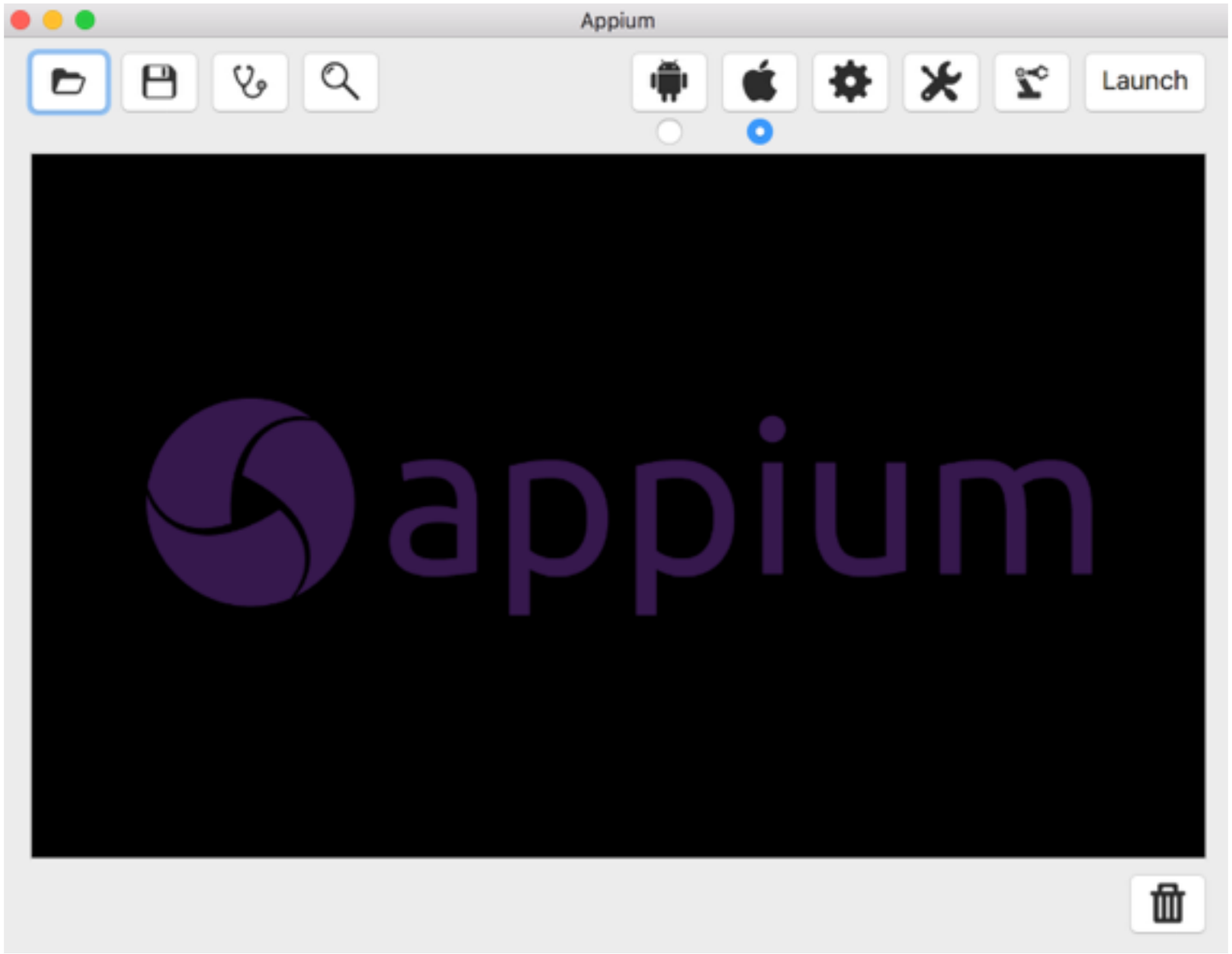


Installation

$brew install node
$npm install -g appium
$npm install wd

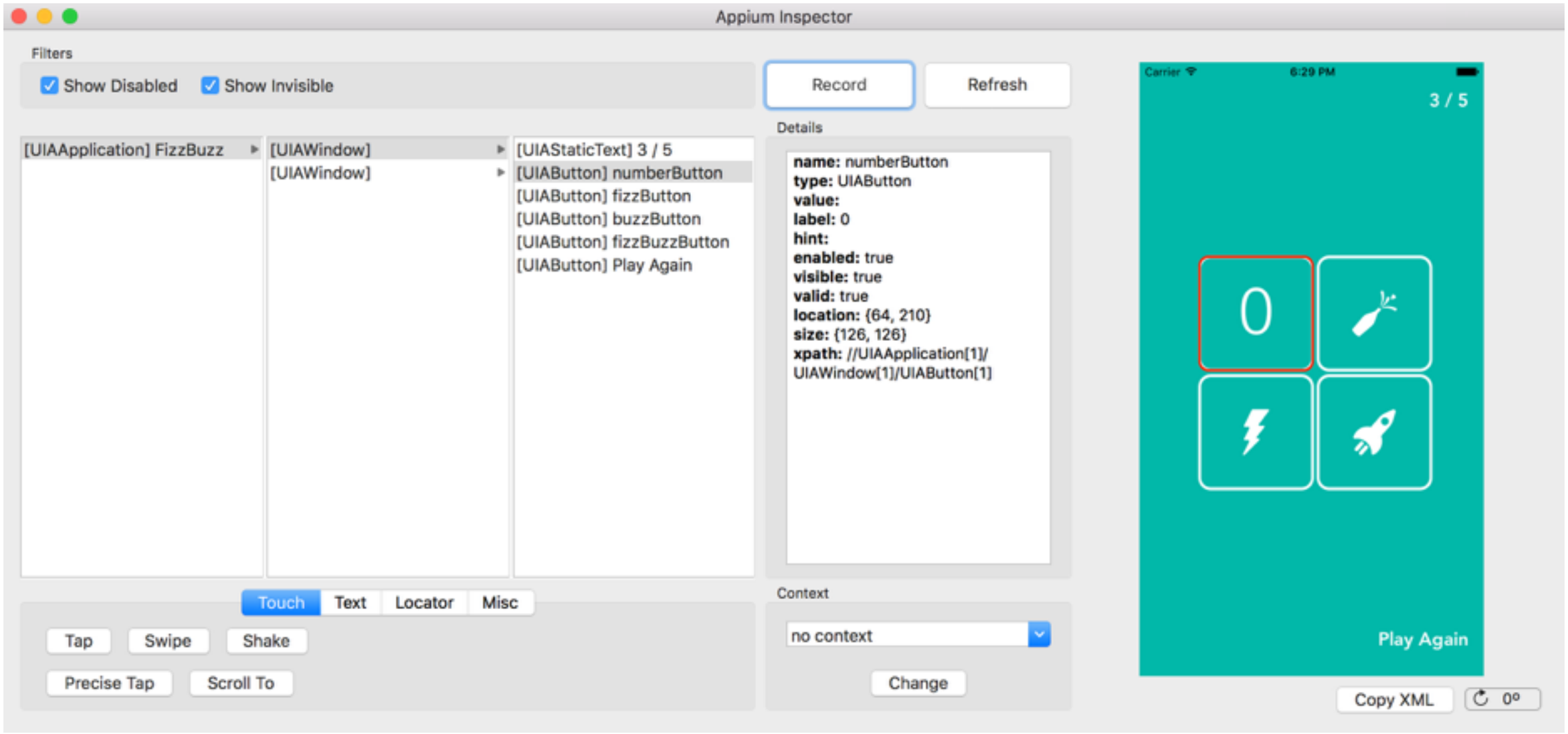
$appium

Appium desktop apps



http://appium.io/downloads.html

Appium inspector

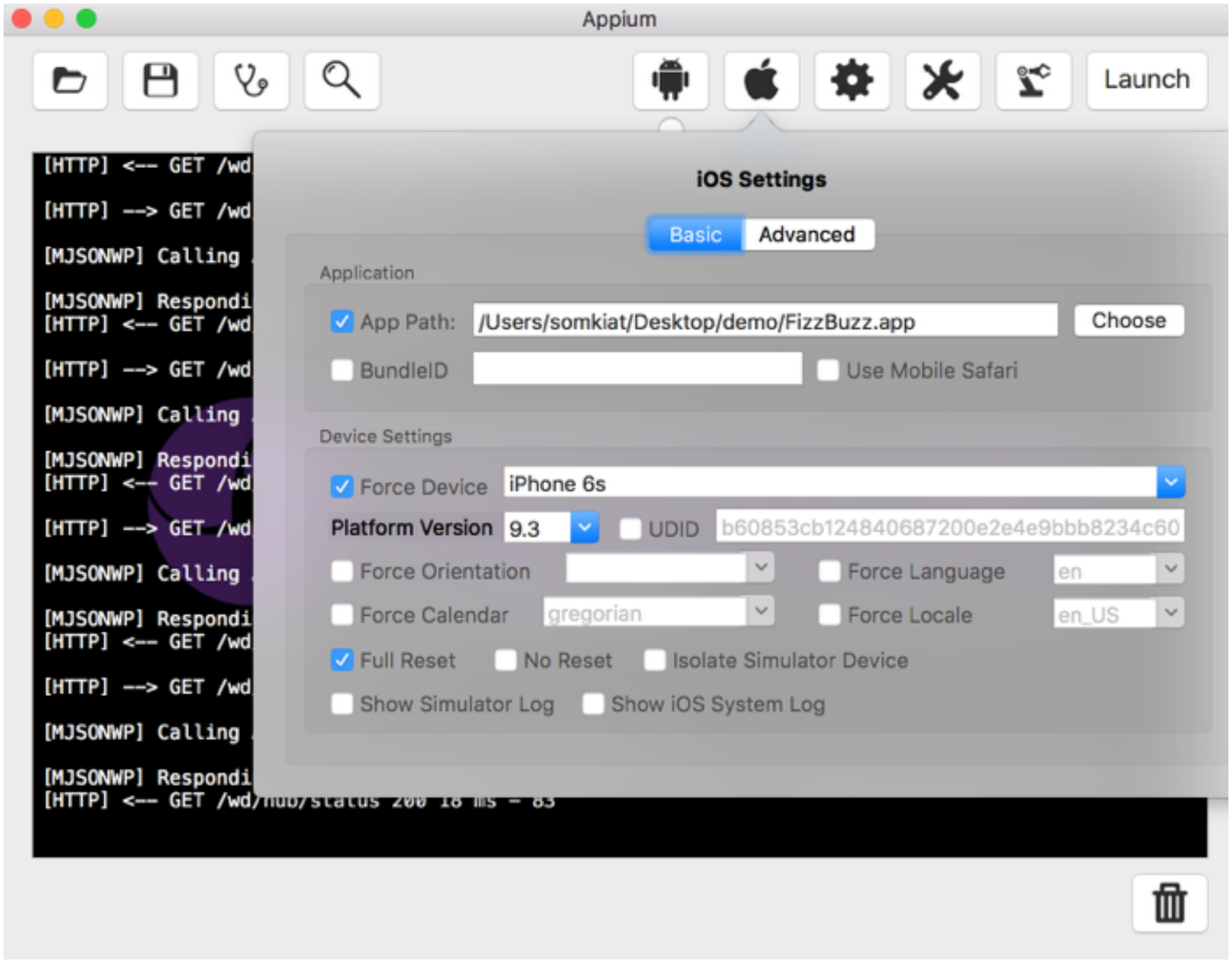


http://appium.io/downloads.html

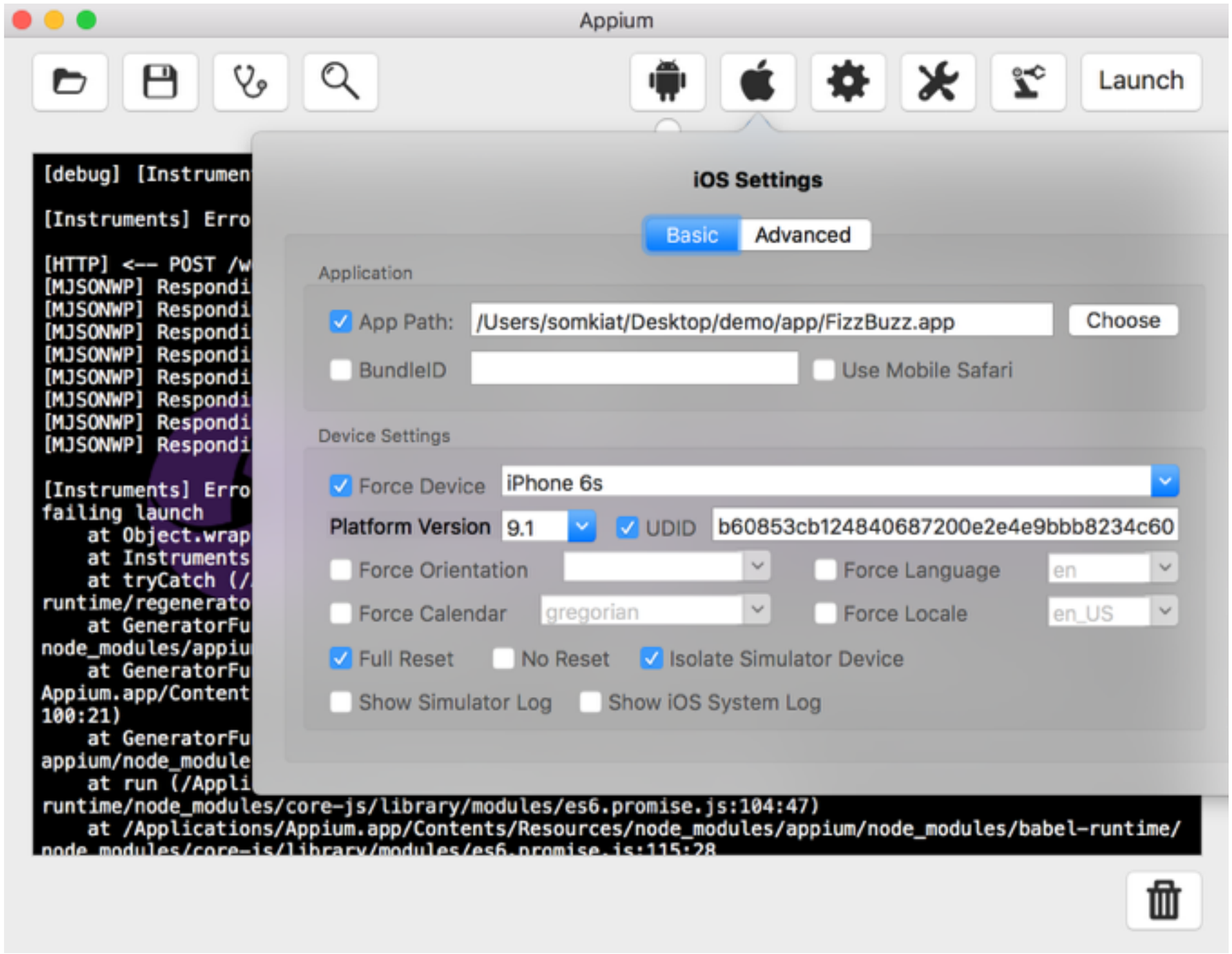
Config appium

Run on Emulator
Run on Real device

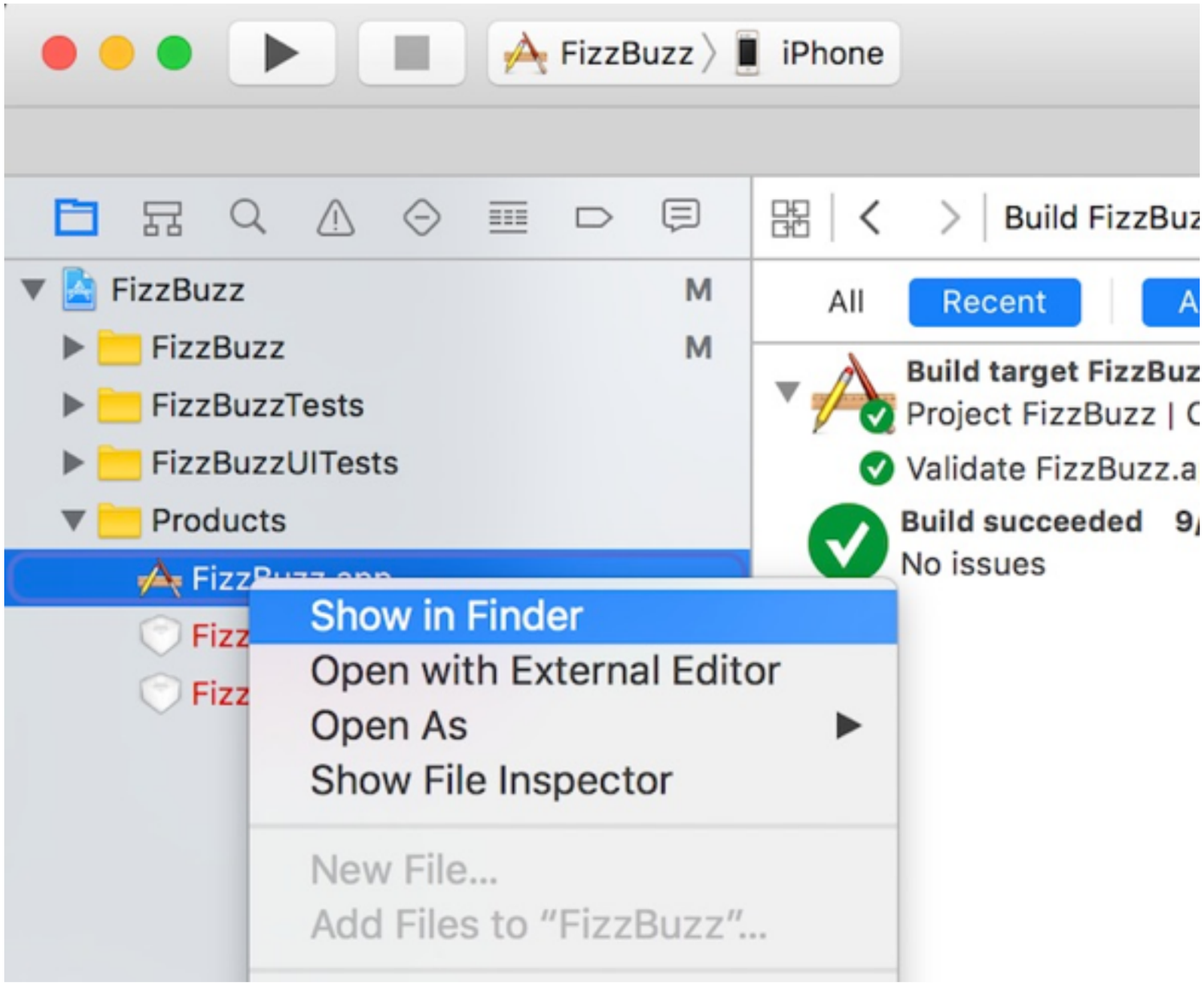
Run on emulator



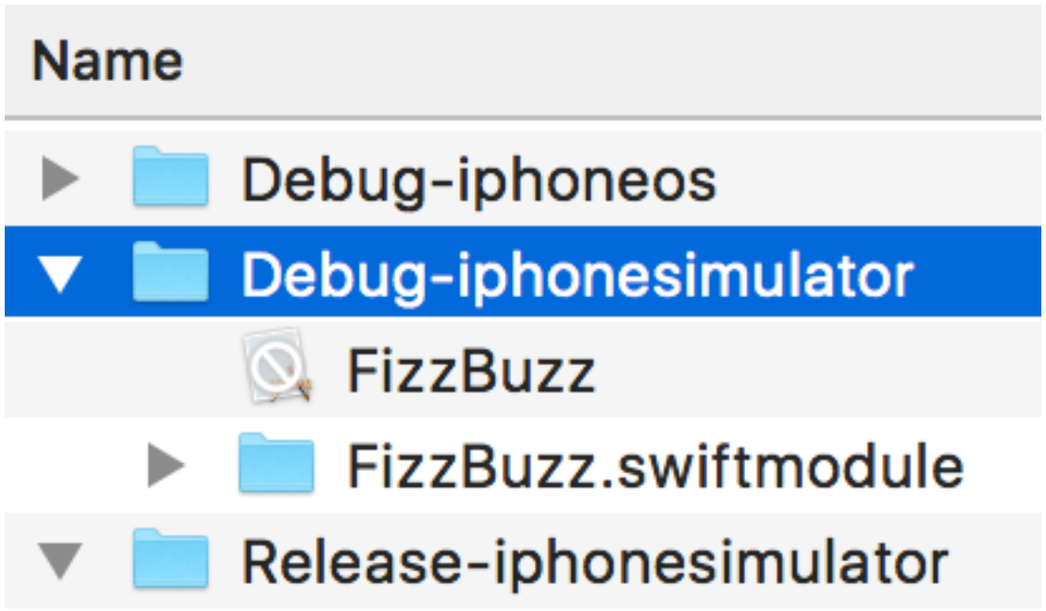
Run on real device



App Path for emulator



Finder -> Go -> Enclosing Finder

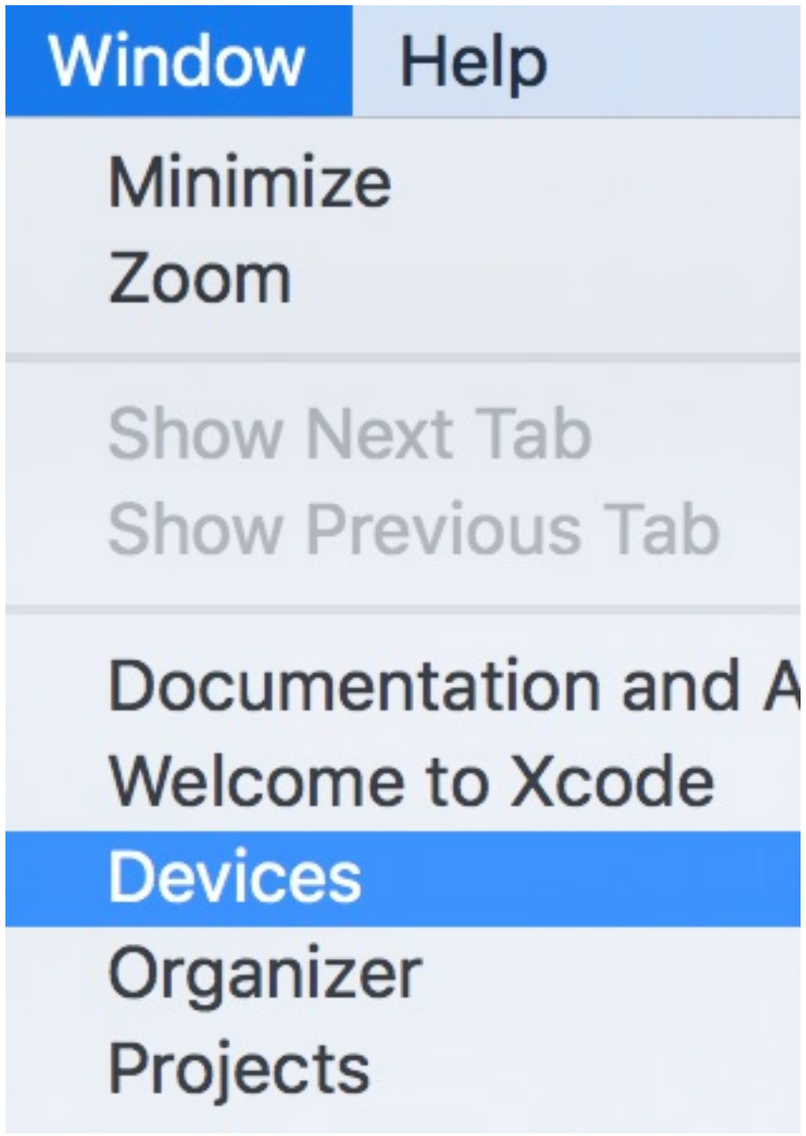


Device UDID

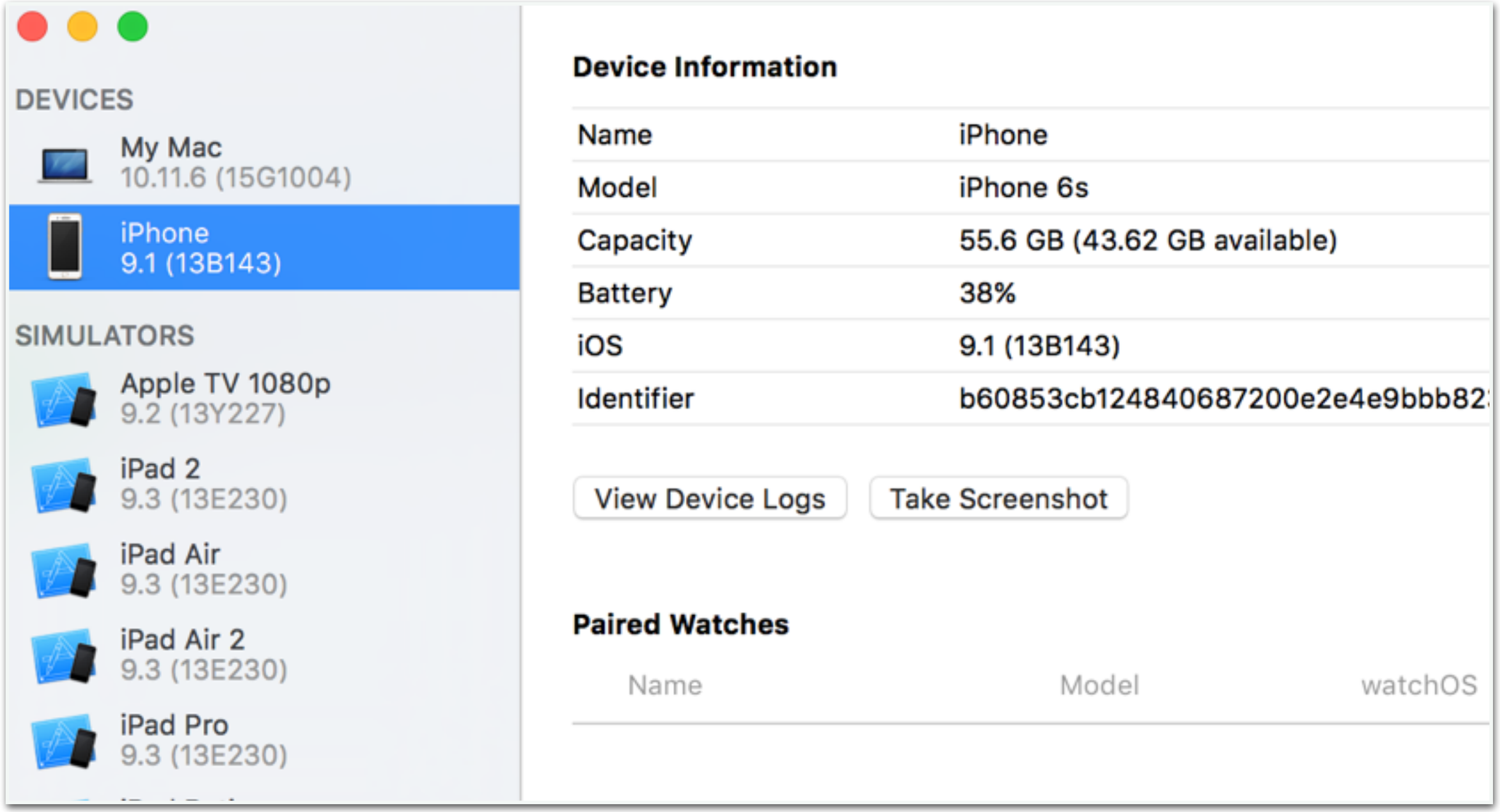
$instruments -s devices

```
MacBook Pro [13CA0FB5-F6C7-5FC4-B3CF-F0572816CA
iPhone (9.1) [b60853cb124840687200e2e4e9bbb8234
Apple TV 1080p (9.2) [C6576318-0B48-4002-A4D5-C
iPad 2 (9.3) [C61DBED4-F796-4793-A680-E30A29B1B
iPad Air (9.3) [5990D523-C34C-496D-9FE2-47093B6
iPad Air 2 (9.3) [16ED67C3-FDA3-48EA-81DD-5CCA1
iPad Pro (9.3) [27938C50-FE02-410F-A497-C04C20C
iPad Retina (9.3) [129D2D6A-E4A0-4960-8D1A-1049
iPhone 4s (9.3) [3F5E47A3-0089-4F9A-8836-FD20EB
iPhone 5 (9.3) [04CFFD66-03B8-4DC2-B9B6-E9737BA
iPhone 5s (9.3) [F20271AC-8920-4966-82B5-D1B35F
iPhone 6 (9.3) [45283668-558D-407F-9604-2663673
iPhone 6 Plus (9.3) [6C67B0E9-8A4A-481E-BFB9-AD
```

Device UDID


Window
Help
Minimize
Zoom
Show Next Tab
Show Previous Tab
Documentation and A
Welcome to Xcode
Devices
Organizer
Projects

Device UDID


DEVICES
My Mac
10.11.6 (15G1004)
iPhone
9.1 (13B143)
SIMULATORS
Apple TV 1080p
9.2 (13Y227)
iPad 2
9.3 (13E230)
iPad Air
9.3 (13E230)
iPad Air 2
9.3 (13E230)
iPad Pro
9.3 (13E230)
Device Information
Name
iPhone
Model
iPhone 6s
Capacity
55.6 GB (43.62 GB available)
Battery
38%
iOS
9.1 (13B143)
Identifier
b60853cb124840687200e2e4e9bbb82
View Device Logs
Take Screenshot
Paired Watches
Name
Model
watchOS

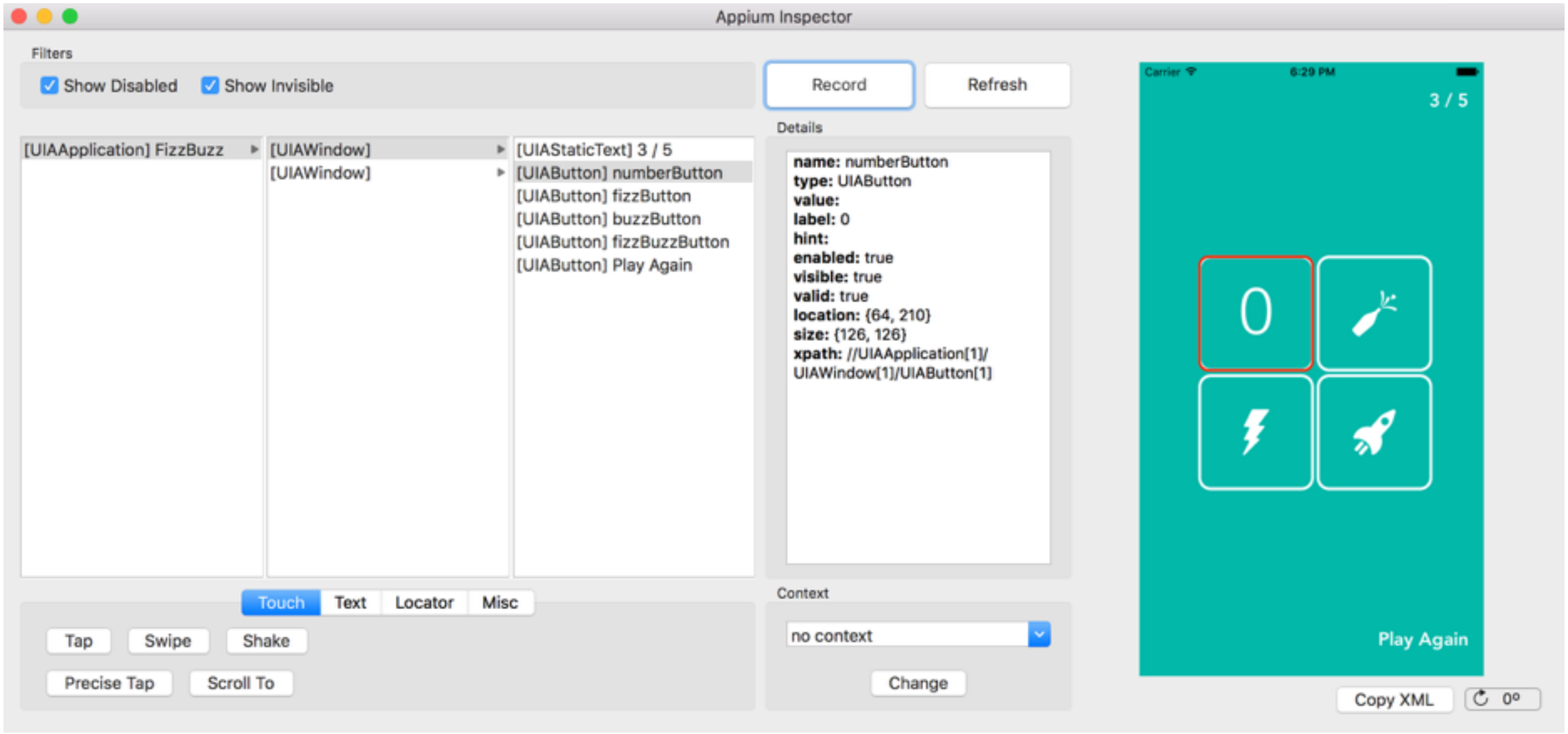
Install app to real device

$brew install ideviceinstaller

Error !!

Error launching instruments: Instruments crashed on startup

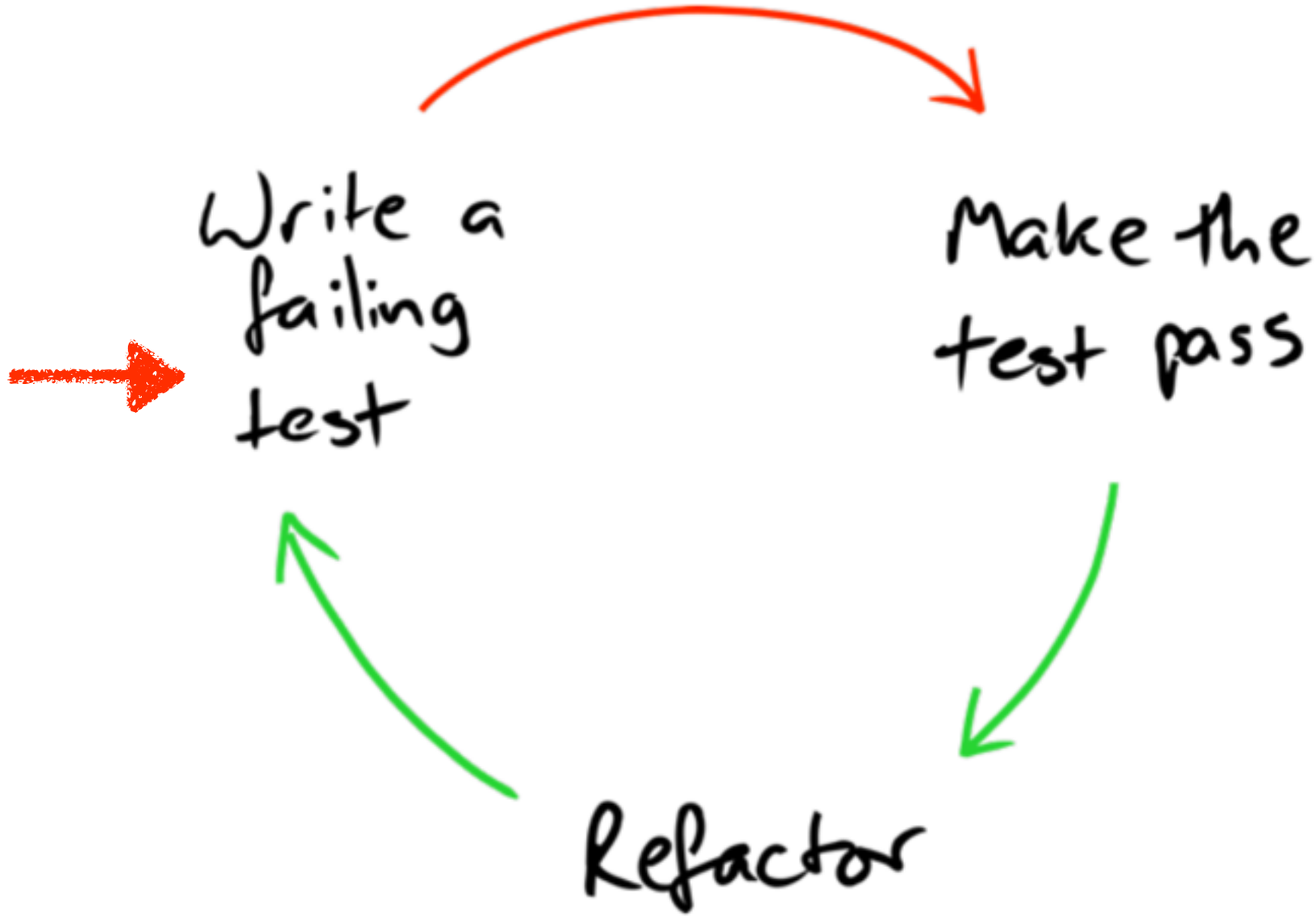
Appium inspector



http://appium.io/downloads.html

Improve TDD Cycle

Start with THINK



Simple TDD Rules

Write a failing automated test before

you write any code

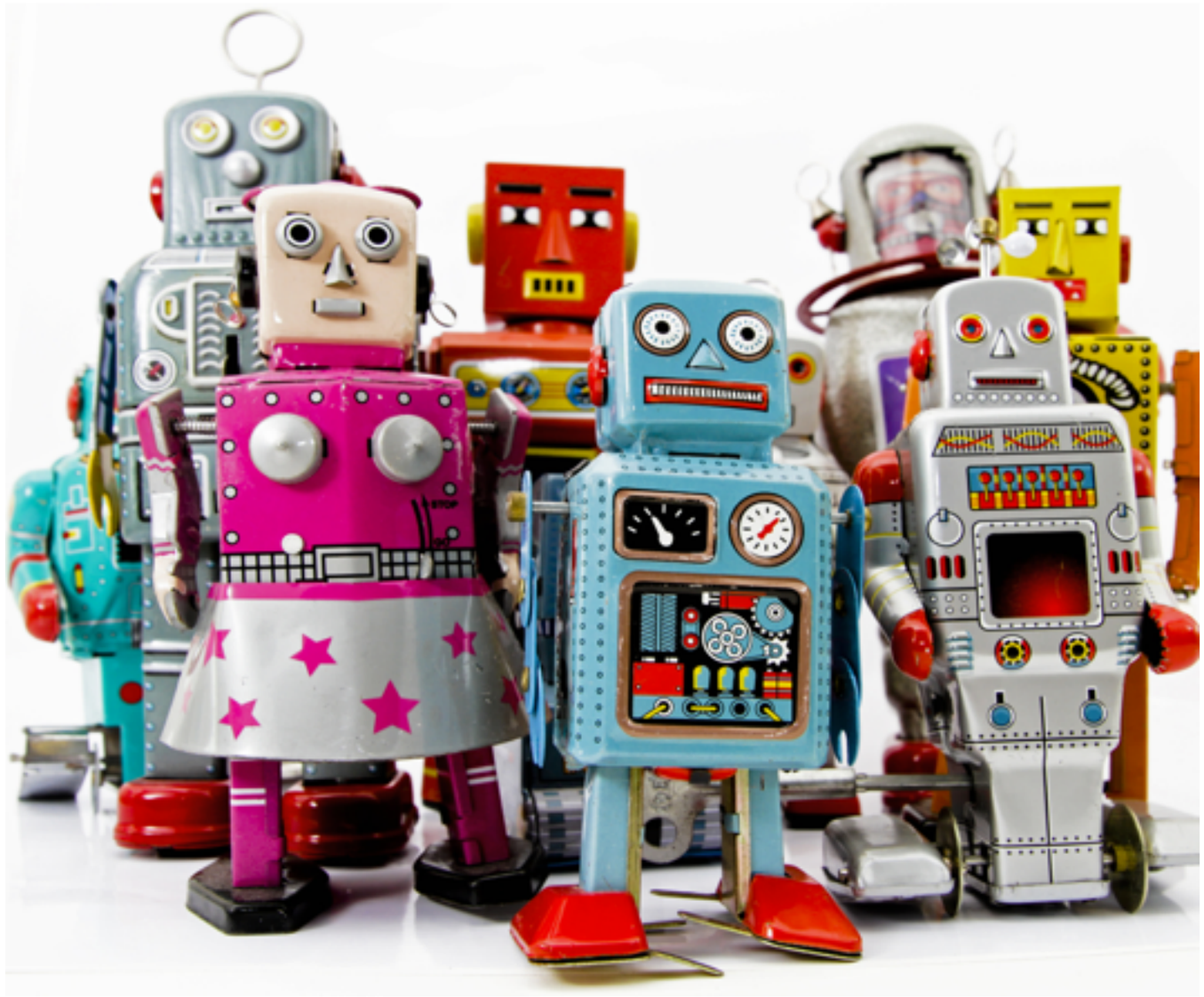
Remove duplication

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

Fizzbuzz Ios Emulator Test Log

Generated
20160912 22:50:16 GMT +07:00
8 minutes 34 seconds ago

Test Statistics

Total Statistics	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	1	1	0	00:01:09	
All Tests	1	1	0	00:01:09	

Statistics by Tag	Total	Pass	Fail	Elapsed	Pass / Fail
dev	1	1	0	00:01:09	

Statistics by Suite	Total	Pass	Fail	Elapsed	Pass / Fail
Fizzbuzz Ios Emulator	1	1	0	00:01:09	

Test Execution Log

− SUITE **Fizzbuzz Ios Emulator**

Full Name: Fizzbuzz Ios Emulator
Source: /Users/somkiat/data/slide/mobile-testing/demo/robotframework/fizzbuzz_ios_emulator.robot
Start / End / Elapsed: 20160912 22:49:07.939 / 20160912 22:50:16.946 / 00:01:09.007
Status: 1 critical test, 1 passed, 0 failed
1 test total, 1 passed, 0 failed

− TEST **Count 15**

Full Name: Fizzbuzz Ios Emulator.Count 15
Tags: dev
Start / End / Elapsed: 20160912 22:49:08.089 / 20160912 22:50:16.946 / 00:01:08.857
Status: PASS (critical)

+ SETUP **Open APP**

+ KEYWORD AppiumLibrary . **Click Element** accessibility_id=numberButton

Error

Test Execution Log

SUITE **Fizzbuzz Ios Emulator**

Full Name:	Fizzbuzz Ios Emulator
Source:	/Users/somkiat/data/slide/mobile-testing/demo/robotframework/fizzbuzz_ios_emulator.robot
Start / End / Elapsed:	20160912 23:14:35.637 / 20160912 23:15:30.027 / 00:00:54.390
Status:	1 critical test, 0 passed, **1 failed** 1 test total, 0 passed, **1 failed**

TEST **Count 15**

Full Name:	Fizzbuzz Ios Emulator.Count 15
Tags:	dev
Start / End / Elapsed:	20160912 23:14:35.784 / 20160912 23:15:30.025 / 00:00:54.241
Status:	**FAIL** (critical)
Message:	Text 'dsfsdf' did not appear in 5 seconds

SETUP **Open APP**

KEYWORD AppiumLibrary . **Click Element** accessibility_id=numberButton

KEYWORD AppiumLibrary . **Click Element** accessibility_id=numberButton

KEYWORD AppiumLibrary . **Wait Until Page Contains** dsfsdf

Documentation:	Waits until `text` appears on current page.
Start / End / Elapsed:	20160912 23:15:14.070 / 20160912 23:15:22.449 / 00:00:08.379

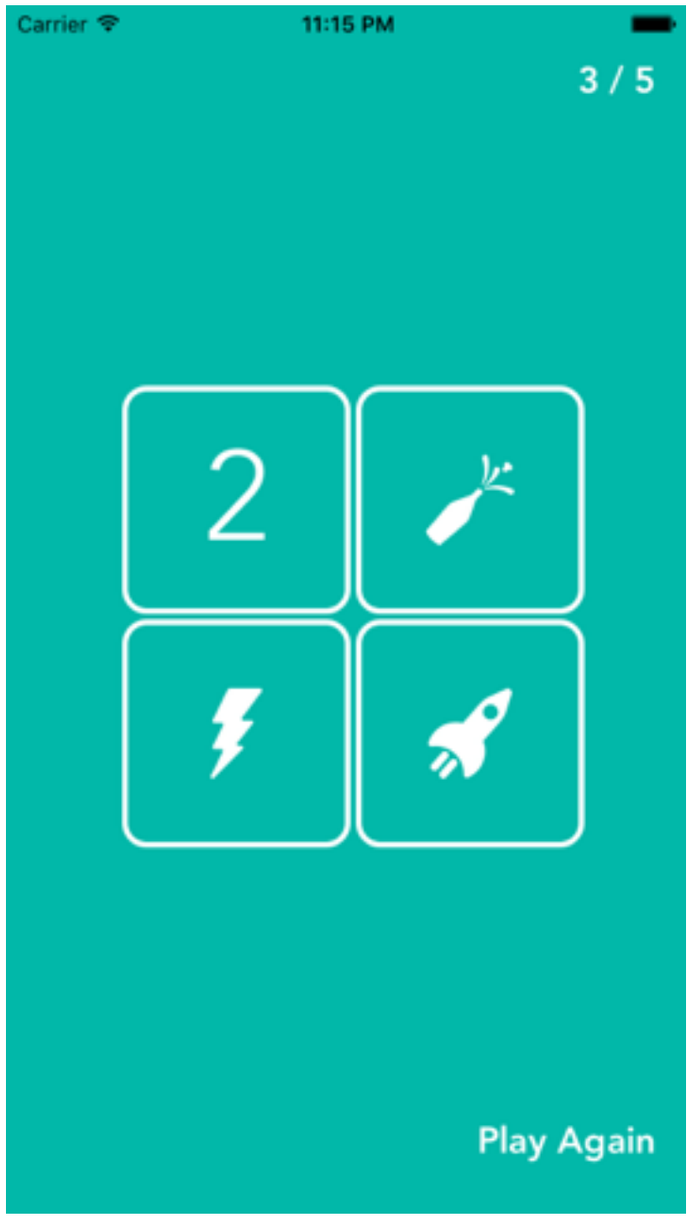
Error

+ KEYWORD AppiumLibrary . **Capture Page Screenshot**

23:15:20.348 INFO

```
<?xml version="1.0" encoding="UTF-8"?>
<AppiumAUT>
    <UIAApplication name="FizzBuzz" label="FizzBuzz" value="" dom="" enabled="true" val
x="0" y="0" width="375" height="667">
        <UIAWindow name="" label="" value="" dom="" enabled="true" valid="true" visible
width="375" height="667">
            <UIAStaticText name="3 / 5" label="3 / 5" value="3 / 5" dom="" enabled="tru
path="/0/0/0" x="315.5" y="28" width="43.5" height="27.5">
            </UIAStaticText>
            <UIAButton name="numberButton" label="2" value="" dom="" enabled="true" val
x="64" y="210" width="126" height="126">
            </UIAButton>
            <UIAButton name="fizzButton" label="champagne" value="" dom="" enabled="tru
path="/0/0/2" x="193" y="210" width="126" height="126">
            </UIAButton>
            <UIAButton name="buzzButton" label="lightning" value="" dom="" enabled="tru
path="/0/0/3" x="64" y="339" width="126" height="126">
            </UIAButton>
            <UIAButton name="fizzBuzzButton" label="space" value="" dom="" enabled="tru
path="/0/0/4" x="193" y="339" width="126" height="126">
            </UIAButton>
            <UIAButton name="Play Again" label="Play Again" value="" dom="" enabled="tr
path="/0/0/5" x="260" y="607" width="99" height="40">
            </UIAButton>
        </UIAWindow>
        <UIAWindow name="" label="" value="" dom="" enabled="true" valid="true" visible
width="375" height="667">
            <UIAStatusBar name="" label="" value="" dom="" enabled="true" valid="true"
y="0" width="375" height="20">
                <UIAElement name="Swipe down with three fingers to reveal the notificat
reveal the control center, Double-tap to scroll to top" label="" value="" dom="" enable
```

Error



“Quality is the responsibility of everybody.”