

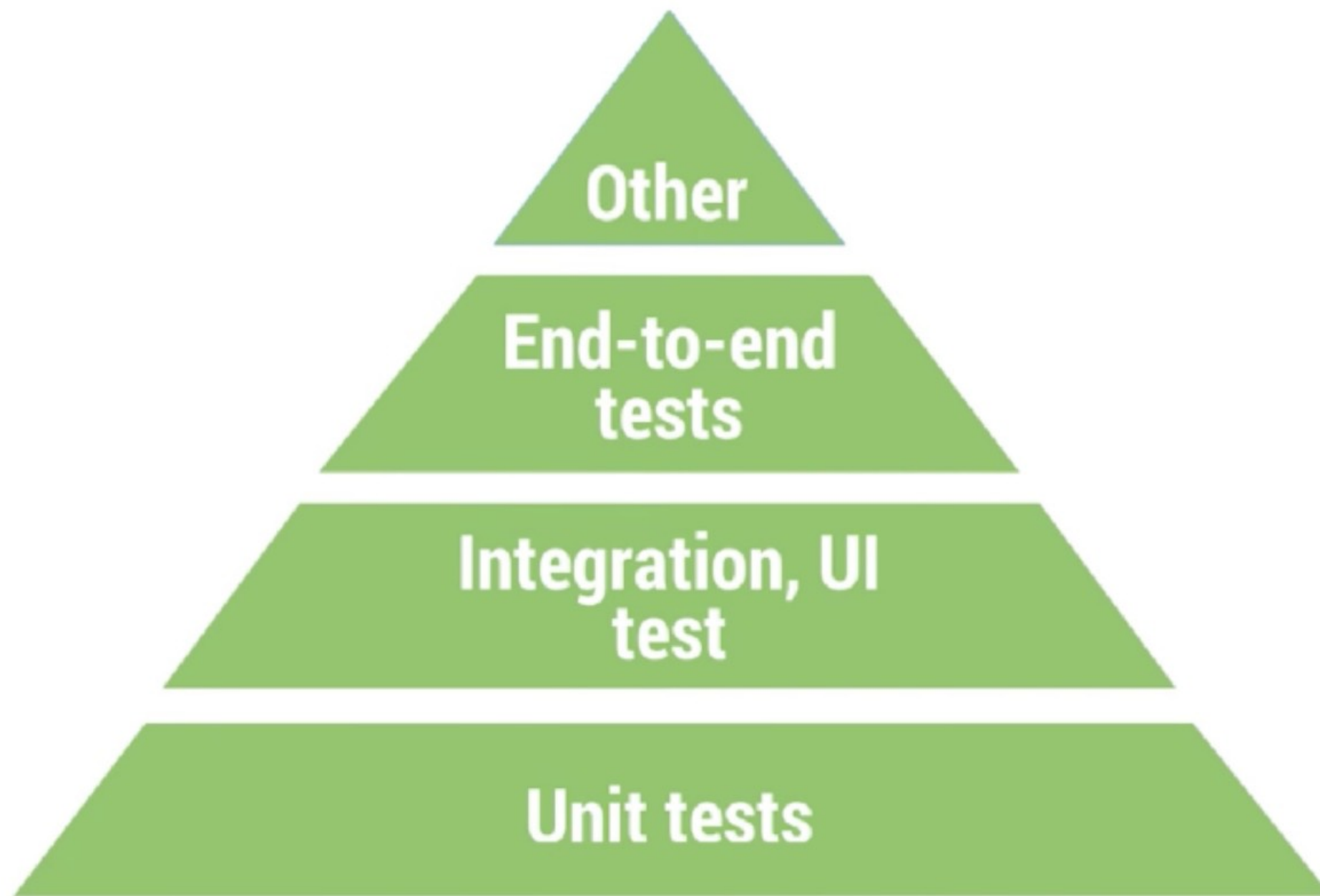
ESPRESSO ANDROID TEST

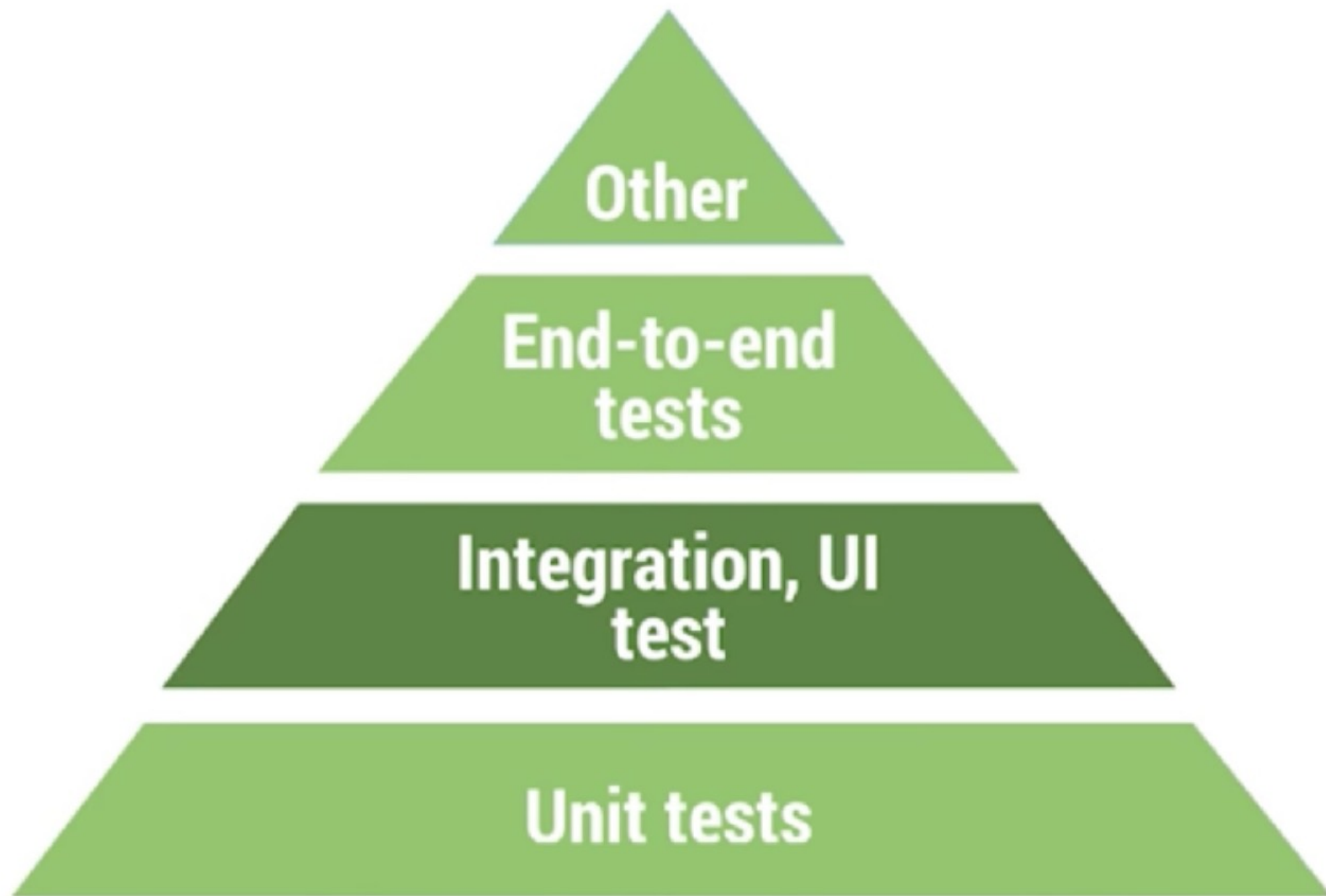
ESPRESSO ?

Android Tests

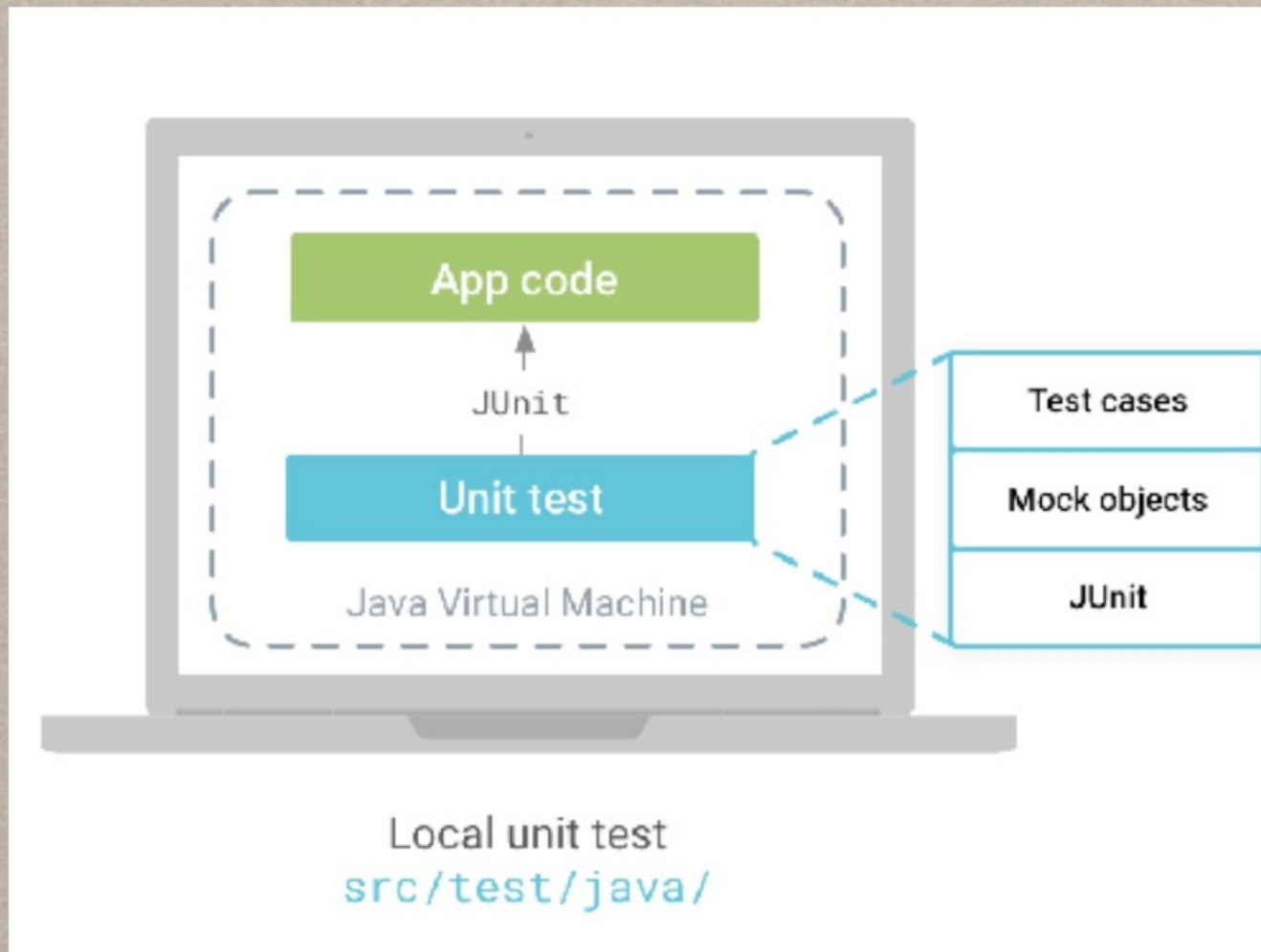
provided by the Android Testing Support Library

**It's an instrumentation-based API
and works with the AndroidJUnitRunner test runner.**

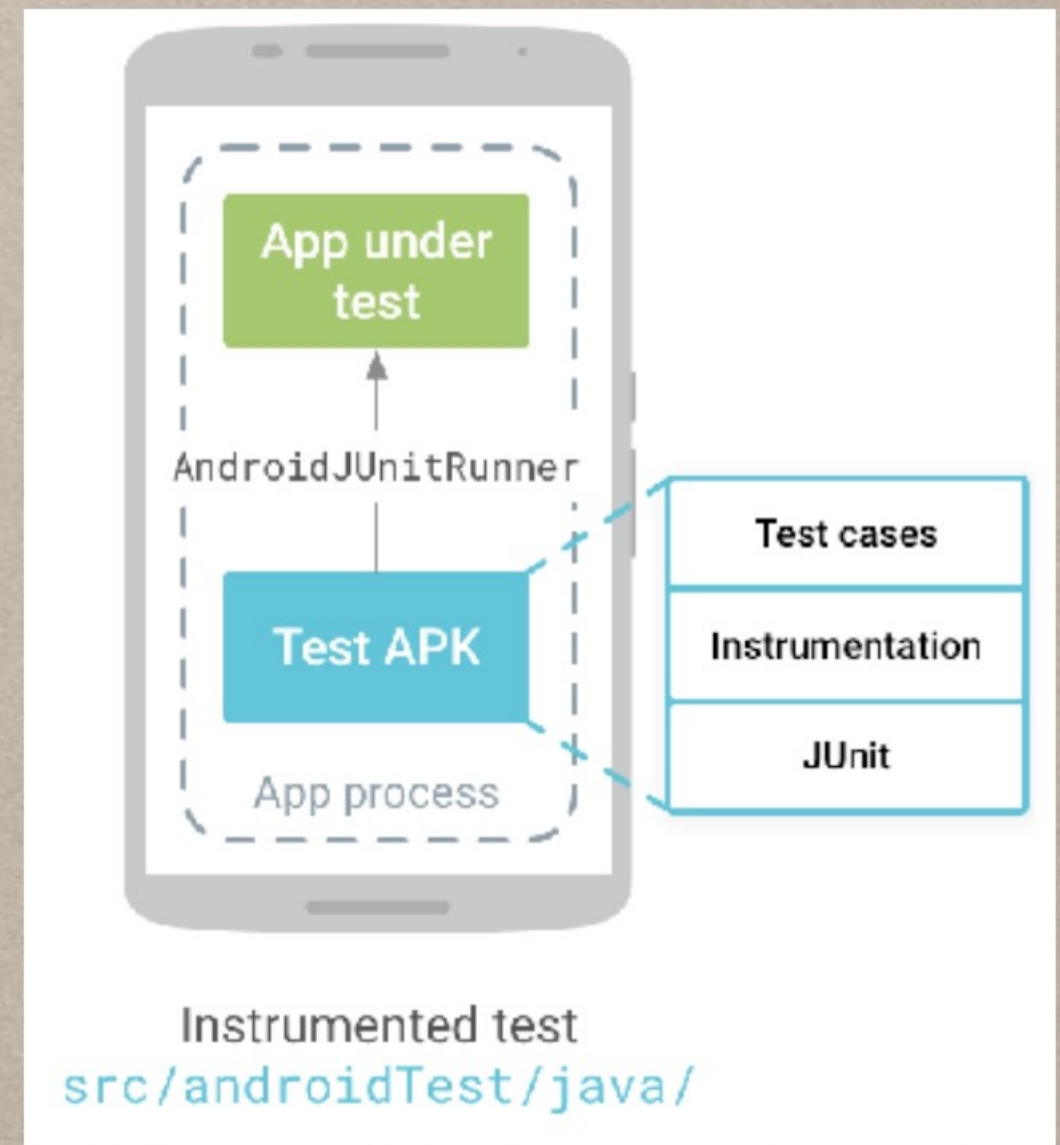




TEST TYPE



1. Unit test



2. Instrument test

UNIT TEST

Local unit tests

Located at `module-name/src/test/java/`.

These tests run on the local JVM and do not have access to functional Android framework APIs.

Instrumented tests

Located at `module-name/src/androidTest/java/`.

These are all tests that must run on an Android hardware device or an Android emulator.

ESPRESSO ?

Work on Android Instrument Framework

Run on Emulator and Android device

Use with Hamcrest matches lib support custom

Sync with UI thread

SET UP ESPRESSO ^^

1. SET UP ESPRESSO LIB

```
dependencies {  
    // Other dependencies ...  
    androidTestCompile 'com.android.support.test.espresso:espresso-core:2.2.2'  
}
```

2. SET UP INSTRUMENT RUNNER

```
android {  
    defaultConfig {  
        testInstrumentationRunner "android.support.test.runner.AndroidJUnitRunner"  
    }  
}
```


CREATE AN ESPRESSO TEST CLASS

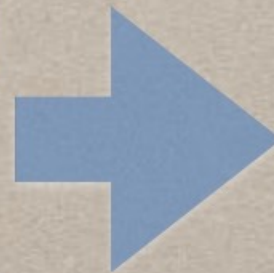
withId() / withText() / etc.



`onView(Matcher<View>)`

`onData(Matcher<Object>)`

is() / instanceof() / etc.



click() / typeText() / etc.



`perform(ViewAction)`

`check(ViewAssertion)`

isDisplayed() / withText() / etc.



CREATE AN ESPRESSO TEST CLASS

```
@RunWith(AndroidJUnit4.class)
@LargeTest
public class MainActivityInstrumentationTest {

    @Rule
    public ActivityTestRule mActivityRule = new ActivityTestRule<>(
        MainActivity.class);

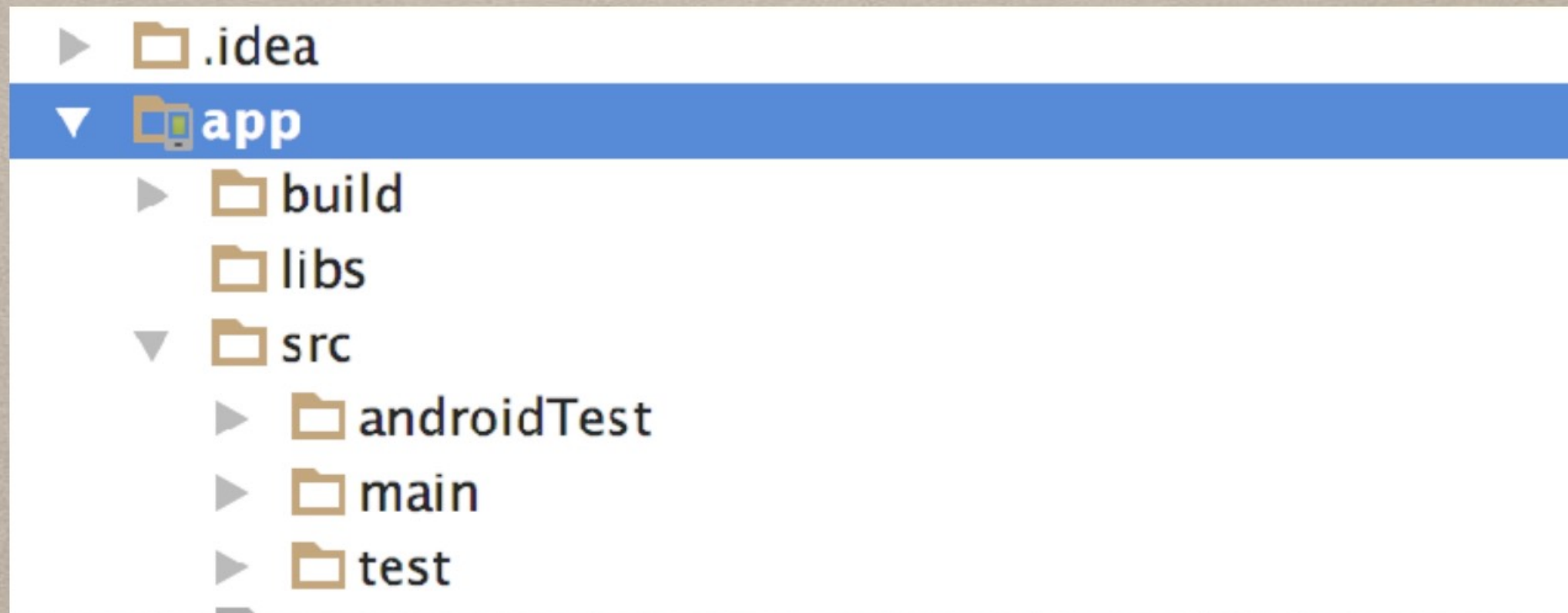
    @Test
    public void sayHello(){
        onView(withText("Say hello!")).perform(click());

        onView(withId(R.id.textView)).check(matches(withText("Hello, World!")));
    }
}
```

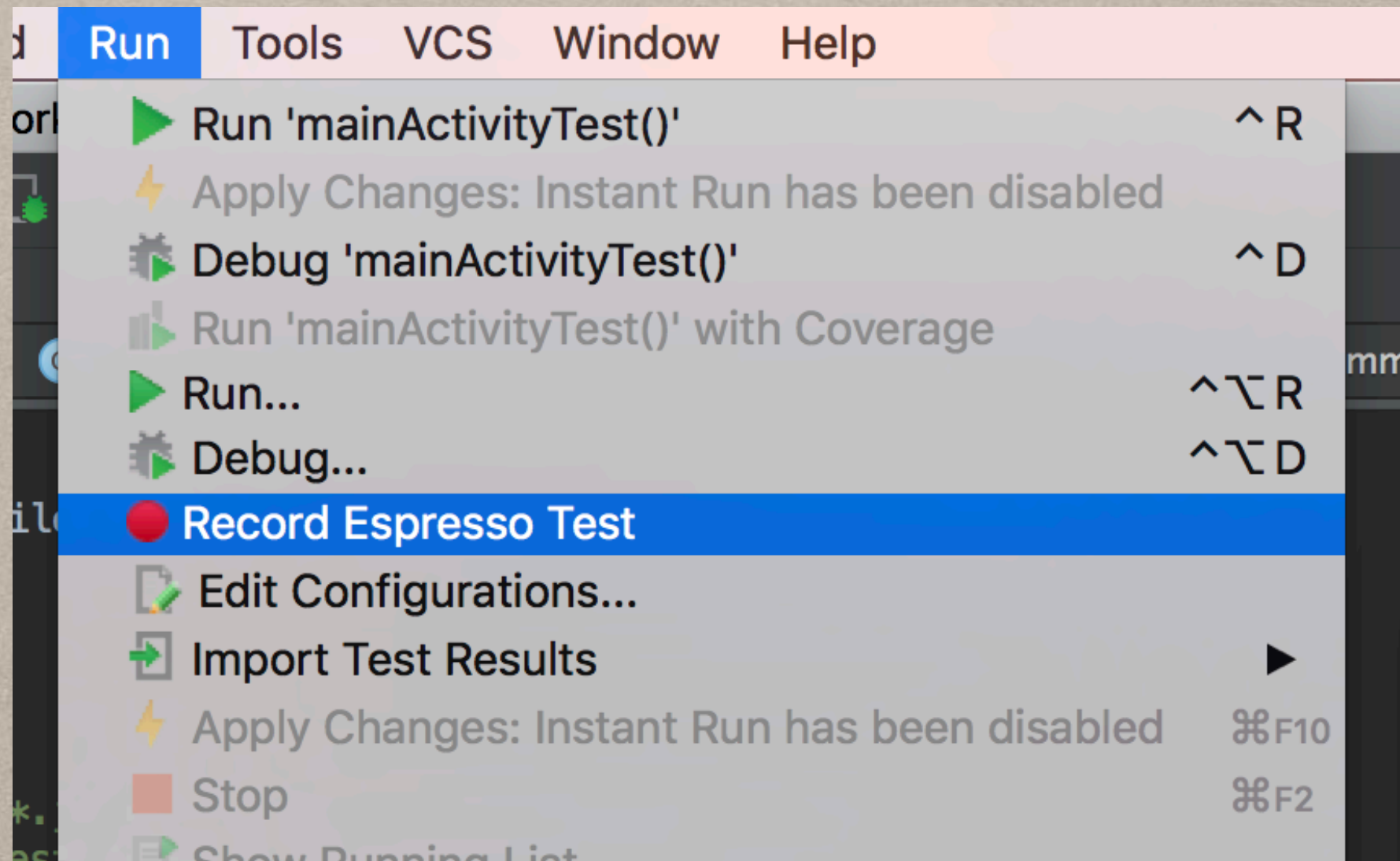

CREATE NEW PROJECT

LET'S GO!

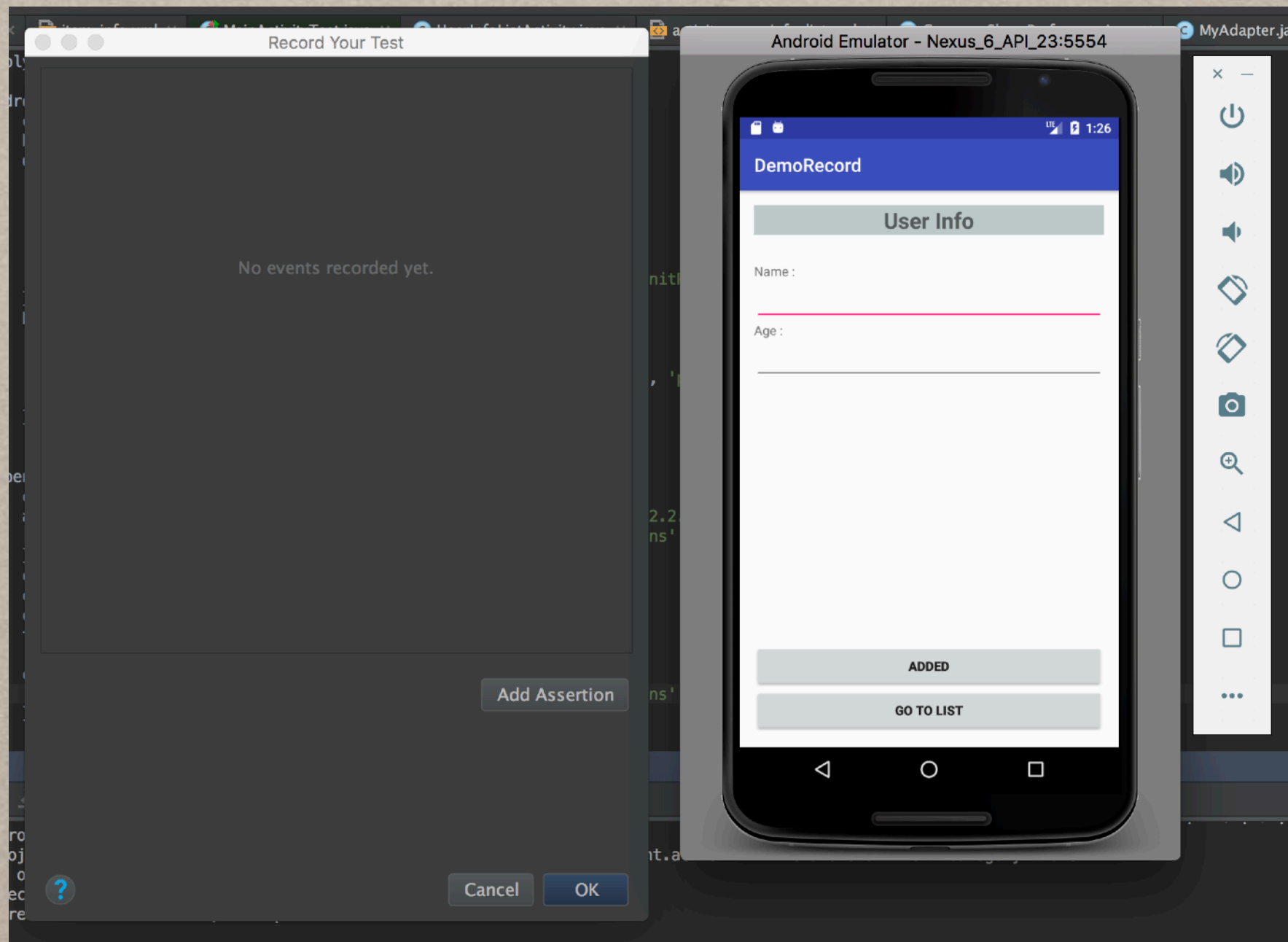
PROJECT STRUCTURE



ESPRESSO TEST RECORD



ESPRESSO TEST RECORD



WorkShop

LET'S GO!

Hello world