

UI testing with Espresso

Xavi Rigau



Who am I?

- ✦ *+Xavi Rigau – @xrigau – github.com/xrigau*
- ✦ *23. Born in Barcelona – Living in London*
- ✦ *Started working on Android in 2010*
- ✦ *Currently working @Novoda – github.com/novoda*

Novoda



Agenda

- ✦ *What's Espresso?*
- ✦ *Why Espresso?*
- ✦ *API Overview*
- ✦ *Practice!*

What's Espresso?

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<http://adnatomy.wordpress.com/2013/03/05/brand-positioning-nespresso/>

What's Espresso?

not



<http://www.memegen.com/meme/wtuw41>



<http://adnatomy.wordpress.com/2013/03/05/brand-positioning-nespresso/>

novoda

What's Espresso?

- ✦ *“a fun little Android UI test API” – Google*
- ✦ *Presented during Google Test Automation Conference 2013 ⁽¹⁾*
- ✦ *Open Source – code.google.com/p/android-test-kit*
- ✦ *Allows writing painless UI tests with a nice interface*
- ✦ *Compatible with Android API 8, 10 & 15 - 19*

1. GTAC 2013: Espresso – youtu.be/T7ugmCuNxDU

Why Espresso?

- ✦ *Easy to set up ⁽¹⁾*
- ✦ *Fluid API (high level, readable tests)*
- ✦ *Extensible (based on Matchers – create your own!)*
- ✦ *Fast execution (Smart Waiting – no need to sleep())*

1. Not in Maven central, use Novoda's repo: github.com/novoda/public-mvn-repo/tree/master/releases



Why Espresso?

- ✦ *Easy to set up* ⁽¹⁾
- ✦ *Fluid API (high level, readable test code)*
- ✦ *Extensible (based on Matchers - like Mockito)*
- ✦ *Fast execution (Smart Waiting – no need to sleep())*



https://svpply.com/item/258647/Felt_Wire_Shop_No_Sleep_Till_Brooklyn

<http://alltheragefaces.com/face/happy-epic-win>

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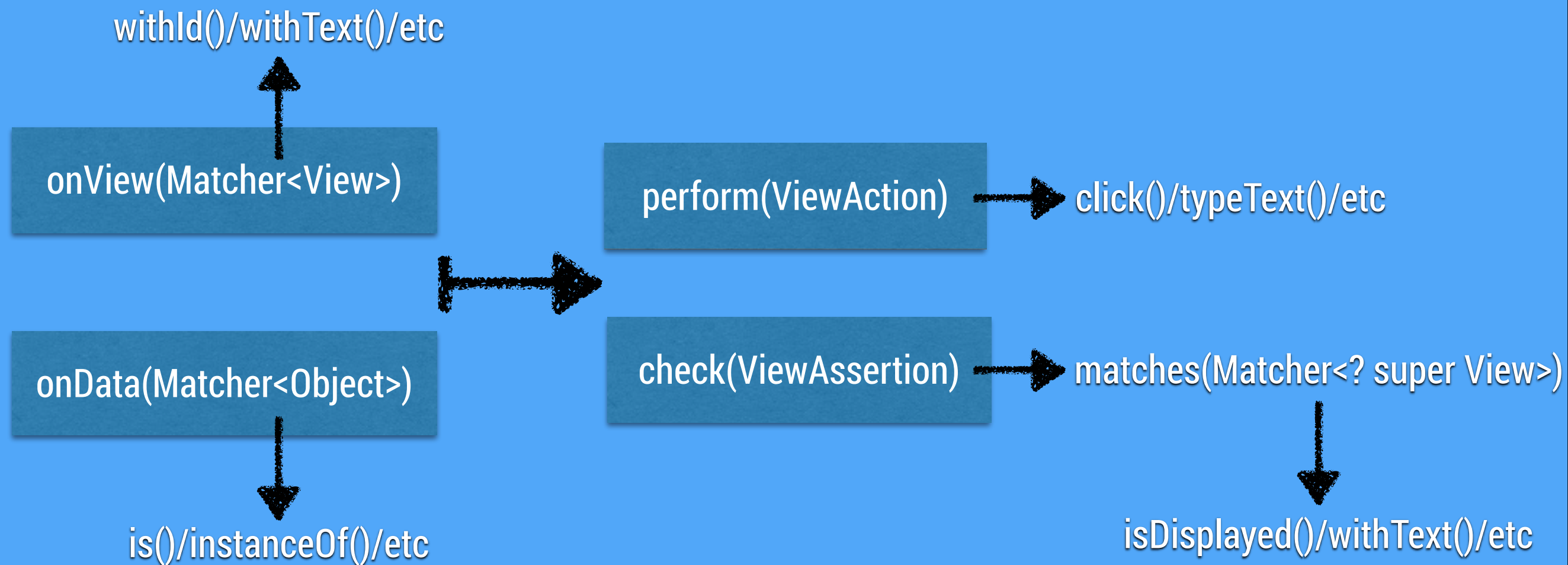


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API Overview



API Overview

✦ *Examples:*

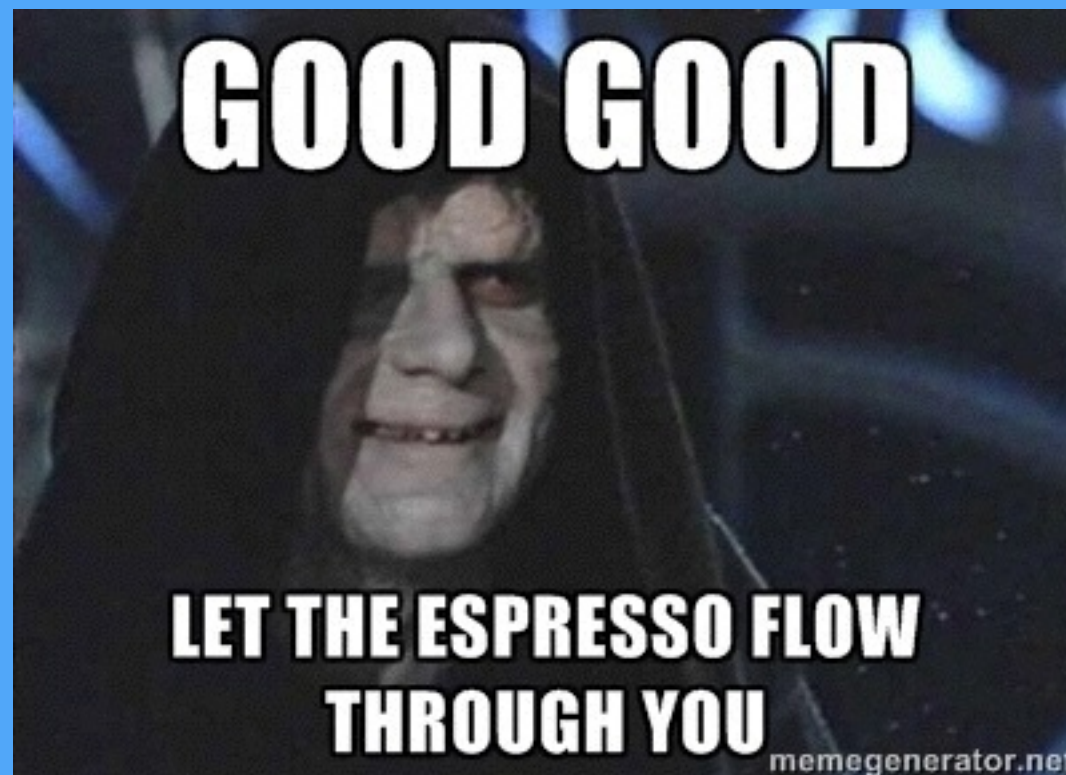
- *onView(withId(R.id.some_id)).check(matches(isDisplayed()));*
- *onView(withId(R.id.other_id)).perform(click());*
- *onData(is(someObject)).perform(click());*

Practice!

- ✦ *Espresso – \$ git clone <https://code.google.com/p/android-test-kit/>*
- ✦ *droidcon-android-espresso – github.com/xrigau/droidcon-android-espresso*
- ✦ *\$ git clone [git@github.com:xrigau/droidcon-android-espresso.git](https://github.com/xrigau/droidcon-android-espresso.git)*
- ✦ *Write some tests! (Look at the “Next steps” section in the Readme file)*

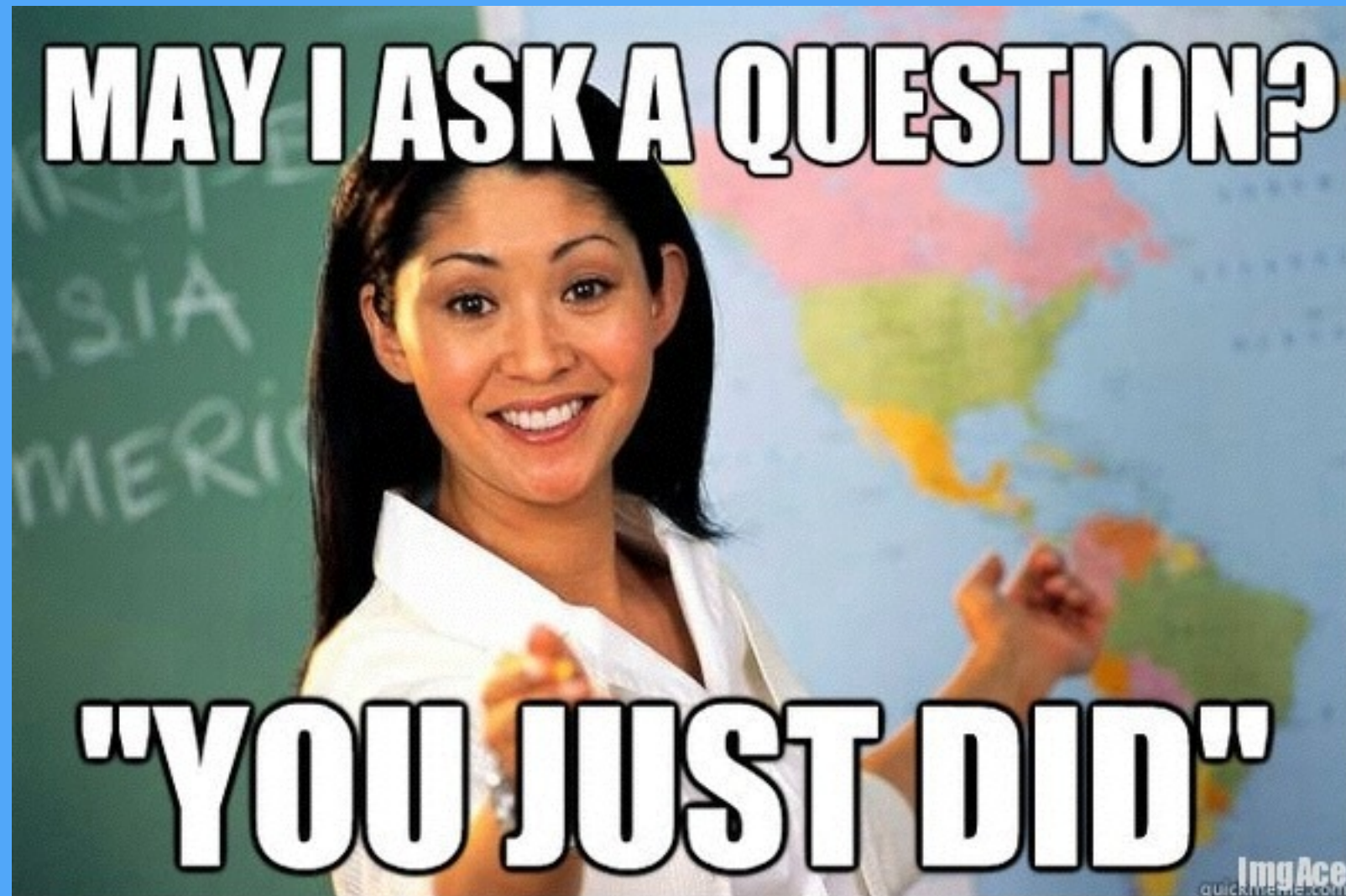
Practice!

- ✦ Espresso – `$ git clone https://code.google.com/p/android-test-kit/`
- ✦ droidcon-android-espresso – `github.com/xrigau/droidcon-android-espresso`
- ✦ `$ git clone git@github.com:xrigau/droidcon-android-espresso.git`
- ✦ Write some tests! (Look at the “Next steps” section in the Readme file)



<http://memegenerator.net/instance/27270106>

Thanks!



<http://imgace.com/pic/2011/09/unhelpful-high-school-teacher-meme/>