

UI testing with Espresso

Xavi Rigau



Who am I?

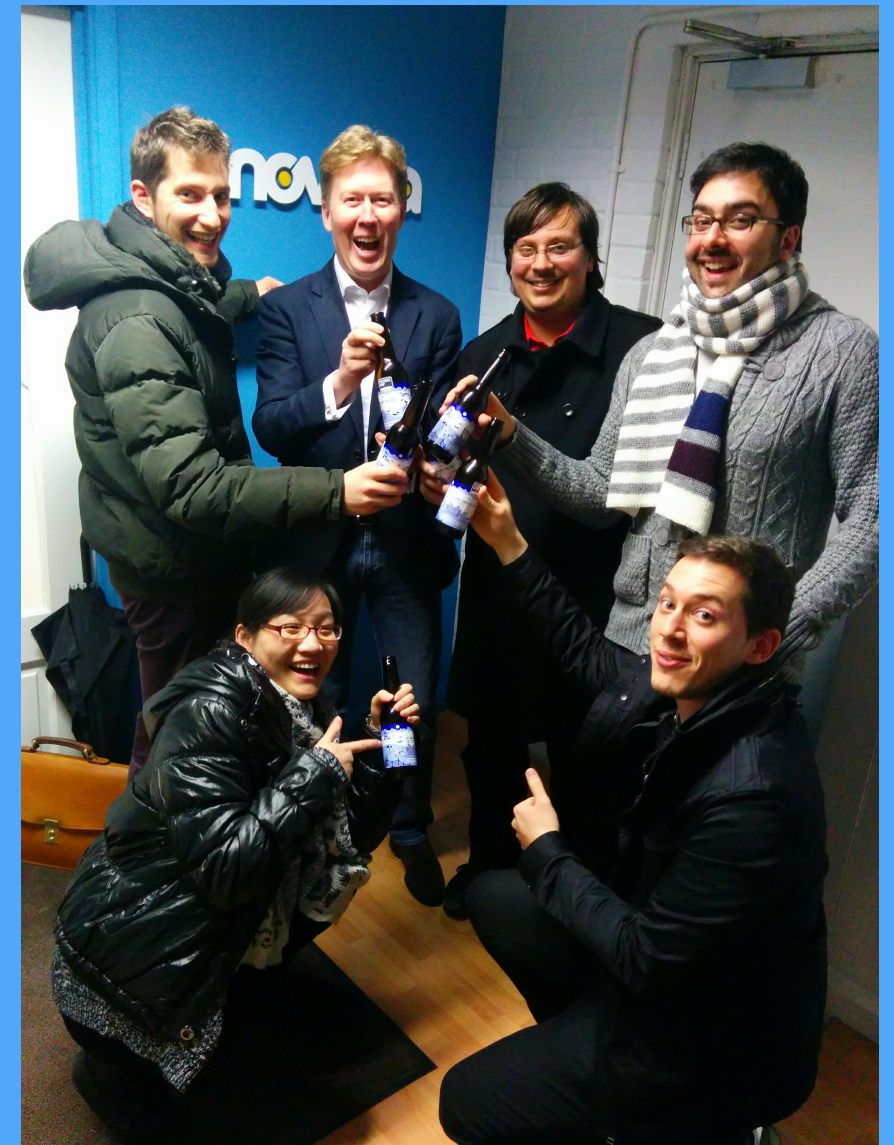
- ✦ *+Xavi Rigau – @xrigau – github.com/xrigau – xavi@novoda.com*
- ✦ *23. Born in Barcelona – Living in London*
- ✦ *Started working on Android in 2010*
- ✦ *Currently working @Novoda – github.com/novoda*

Novoda



We're hiring!

- ✦ *Software craftsmen*
- ✦ *Passionate people*
- ✦ *Open source enthusiasts*
- ✦ *Positions available in London and Berlin*
- ✦ *Send us an email: info@novoda.com*



Agenda

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

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?

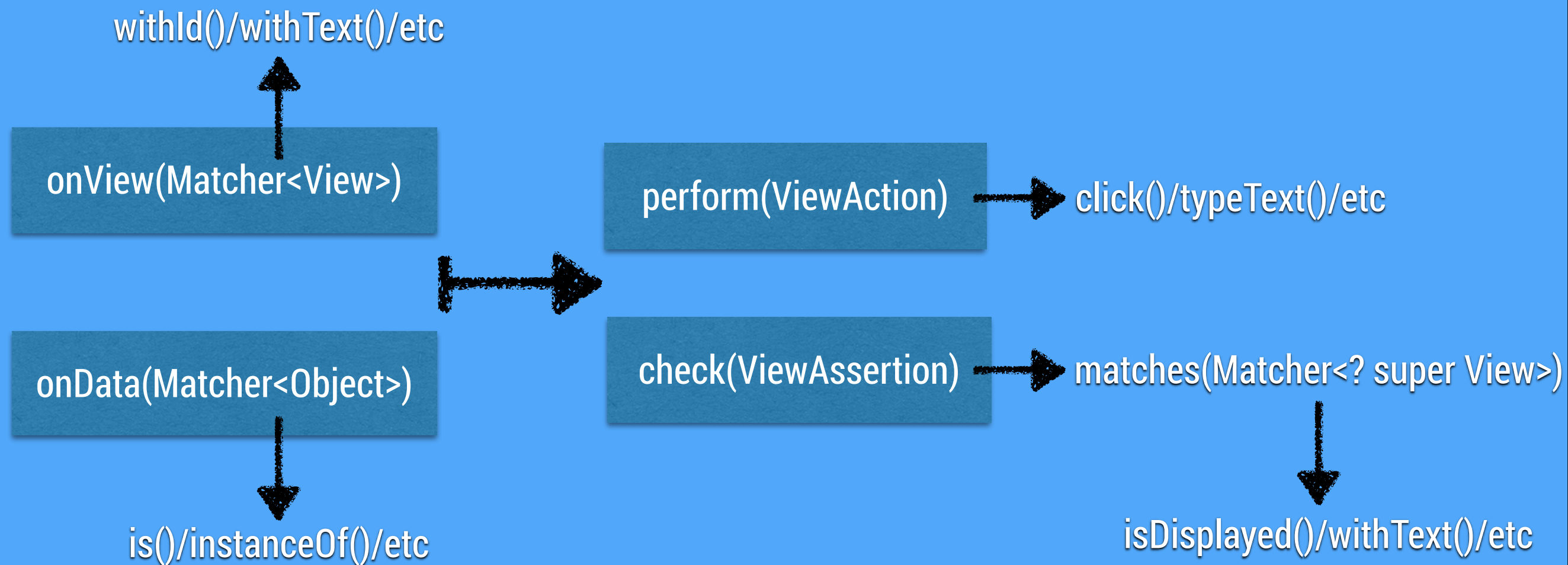
- ✦ *Easy to set up ⁽¹⁾*
- ✦ *Fluid API (high level, readable tests)*
- ✦ *Extensible (based on Matchers – create your own!)*
- ✦ *Fast execution (Smart Waiting – no need to sleep())*



http://en.wikipedia.org/wiki/Buddy_Christ

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

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());*

Demo time!

- ✦ 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>

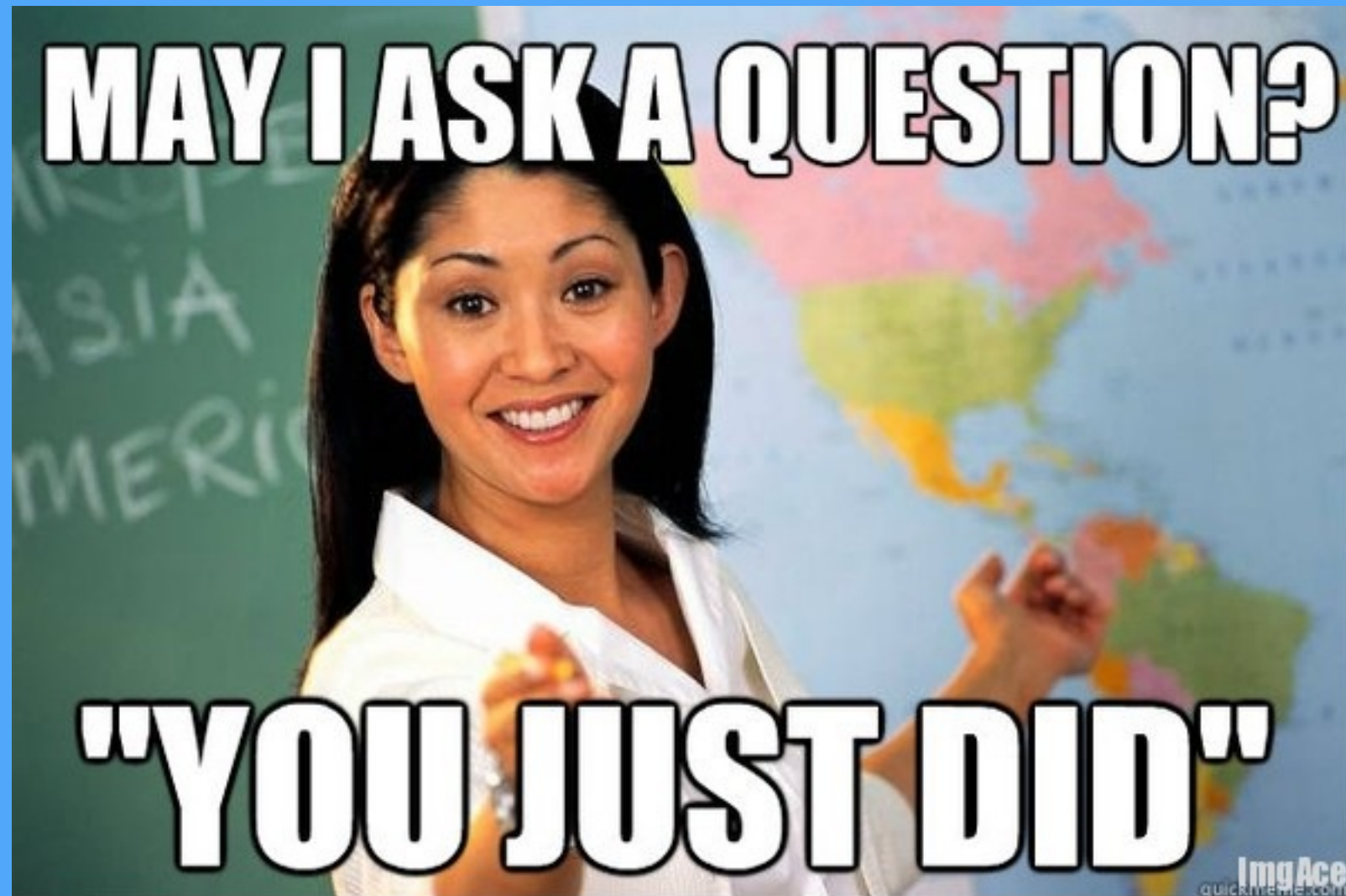
Bonus: Espresso 1.1

- ✦ *Adds swipe left & right actions for ViewPagers*
- ✦ *Multi-window support! (for Dialog, AutoCompleteTextView, ...)*
- ✦ *Contrib Library (depends on the support library - not in core)*
 - *Adds support for DrawerLayout*
- ✦ *Other improvements, bug fixes and optimisations*

Release notes: <https://code.google.com/p/android-test-kit/wiki/ReleaseNotes>



Thanks!



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