Effective TDD on Android with Kotlin







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Overview

- Very simple Android App using TDD
- Develop in cycles
- Start each cycle with a (Failing) Test

Source of data

http://chucknorris.io API

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http://chucknorris.io API



The recipe

- Very simple architecture based on MVP
- kotlinx.coroutines
- arrow-kt

Example project

https://github.com/voghDev/ChuckNorrisJokes



Use cases

- Get Random Joke
- Search Jokes by keyword

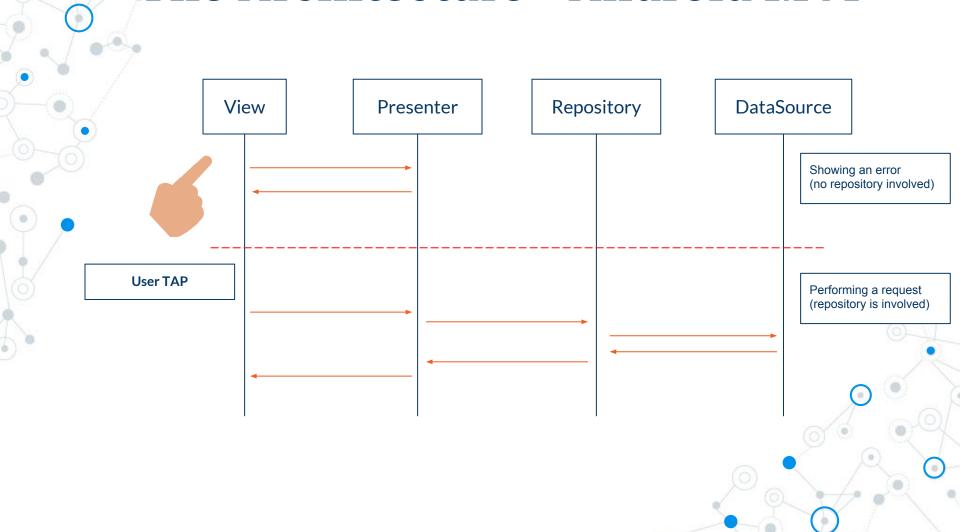
- Get Jokes by category
- Get categories

#1: Get Random Joke

- 1.- Request a Joke from the Api
- 2.- Render its text
- 3.- Render its image



The Architecture - Android MVP

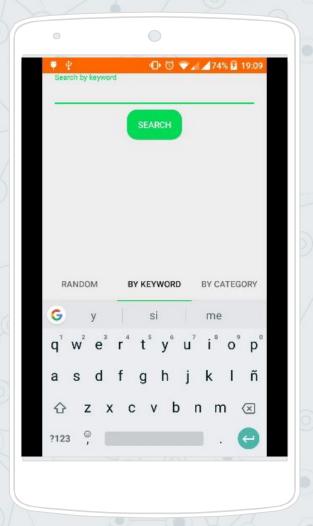


Interesting stuff while it compiles

- Kent Beck's "two modes of implementation" to get the green
- Martin Fowler's "Passive View"
- We're doing many assumptions in this approach
- Production apps following this guidelines
- Alternate executions (all Tests -vs- local Tests)

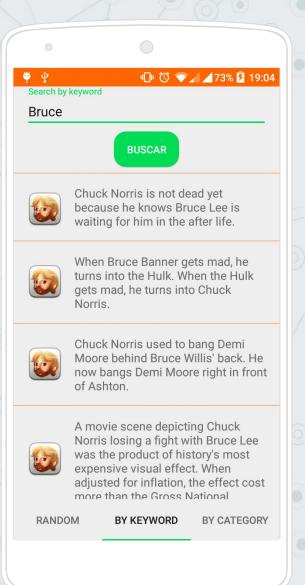
#2: Search by keyword

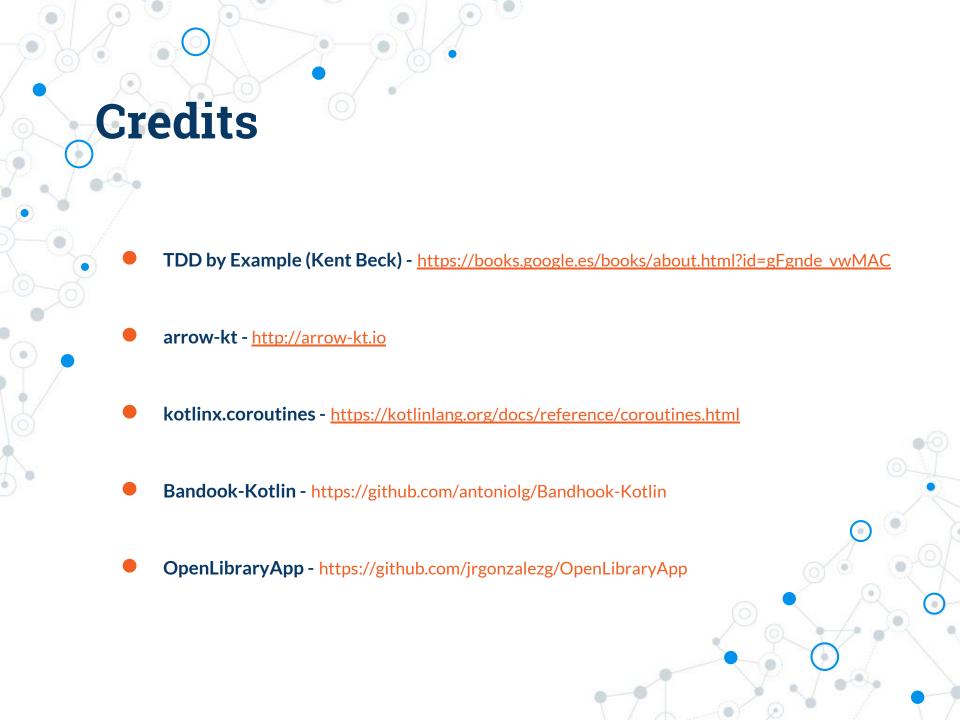
- 1.- Performing the search
- 2.- Dealing with wrong values
- 3.- Showing the results
- 4.- Dealing with the empty case
- 5.- Refactoring



#2: Search by keyword

- 1.- Performing the search
- 2.- Dealing with wrong values
- 3.- Showing the results
- 4.- Dealing with the empty case
- 5.- Refactoring





Questions & Answers

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Thanks for coming!





