

Effective TDD on Android with Kotlin



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Example project

<https://github.com/voghDev/ChuckNorrisJokes>

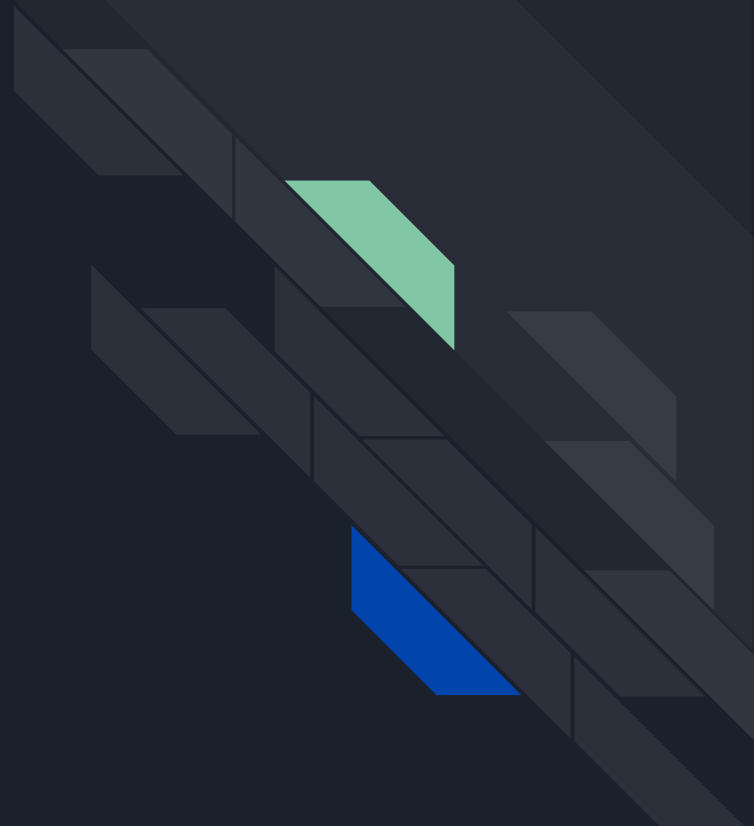




Overview - Basis of the workshop

- Custom approach to TDD
- Testable code
- Android architecture, MVP + Passive View
- Kotlin coroutines

<http://chucknorris.io> API



<http://chucknorris.io> API





API requests to <http://chucknorris.io>

- Get random joke



API requests to <http://chucknorris.io>

- Get random joke
- Get joke by category



API requests to <http://chucknorris.io>

- Get random joke
- Get joke by category
- Get categories



API requests to <http://chucknorris.io>

- Get random joke
- Get joke by category
- Get categories
- Search jokes by keyword



Example Request: Random joke by category

JSON

```
{
  "category": [
    "dev"
  ],
  "icon_url":
  "https://assets.chucknorris.host/img/avatar/chuck-norris.png",
  "id": "4rfk-ymnth28ny8q2pbrow",
  "url": "http://api.chucknorris.io/jokes/4rfk-ymnth28ny8q2pbrow",
  "value": "Chuck Norris went out of an infinite loop."
}
```



The Architecture - Android MVP

View

Presenter

Repository

DataSource



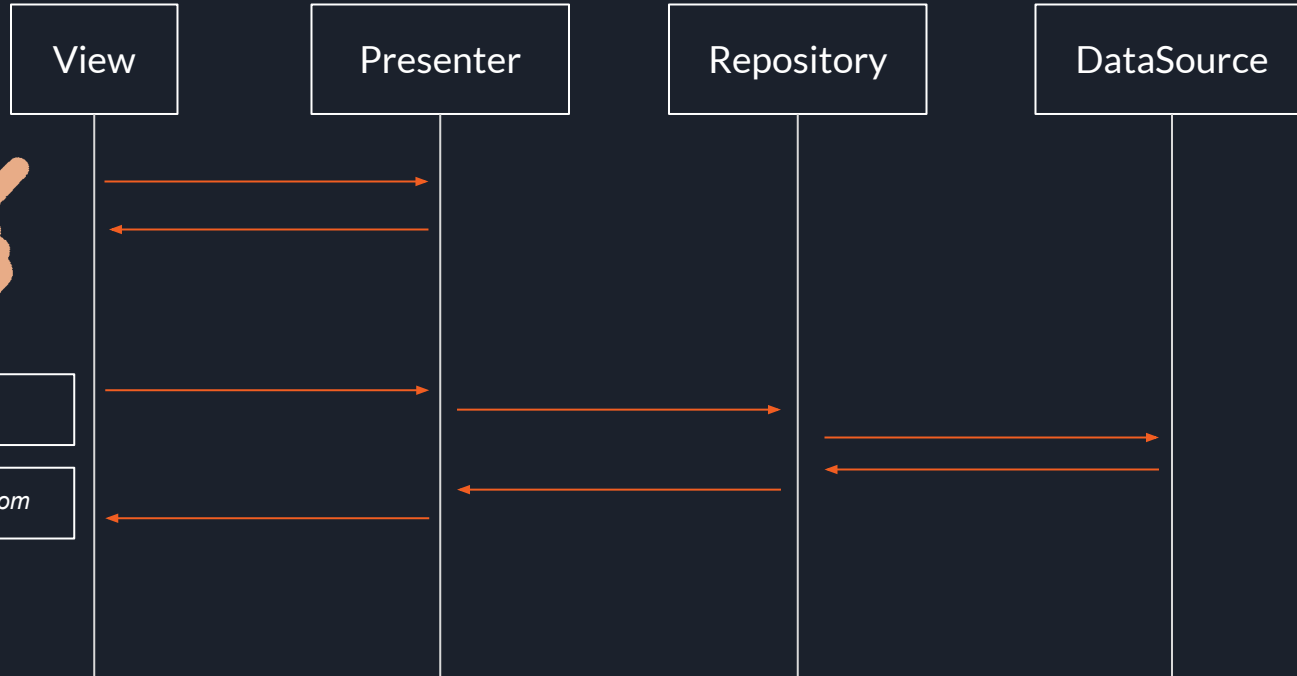
The Architecture - Android MVP



The Architecture - Android MVP



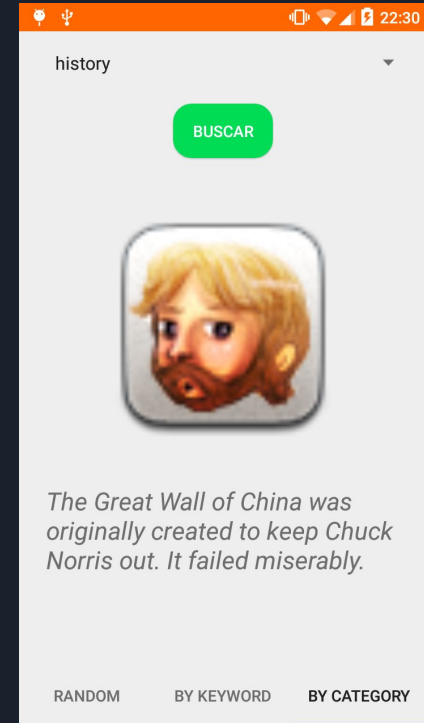
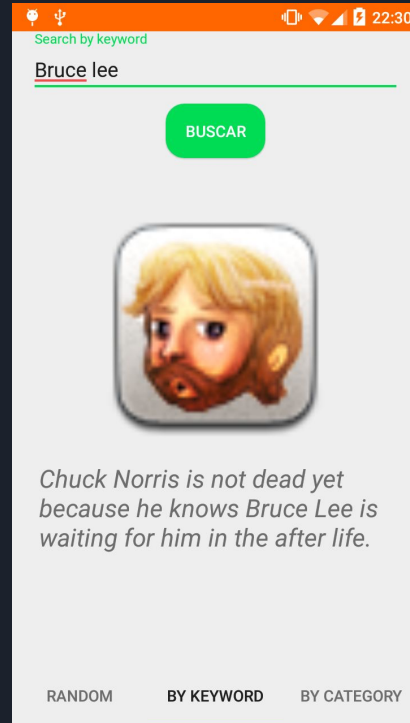
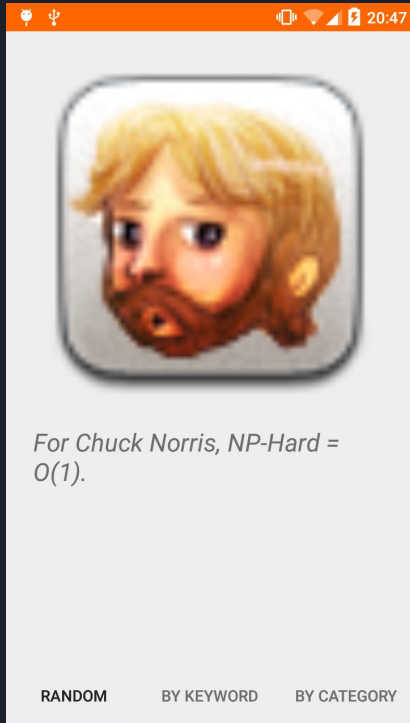
The Architecture - Android MVP




User TAP

icon by flaticon.com

Starting from empty App





Time to get some
work done!

The image features a dark blue background with several geometric shapes. In the top left, there is a large blue parallelogram and a light green parallelogram. In the bottom left, there is a smaller, multi-colored geometric shape composed of blue, orange, and pink triangles.