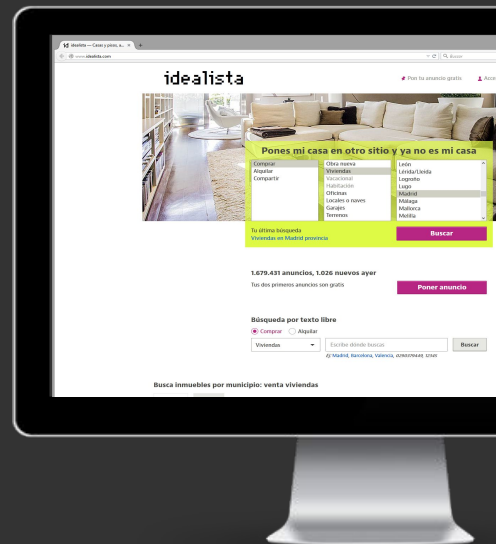
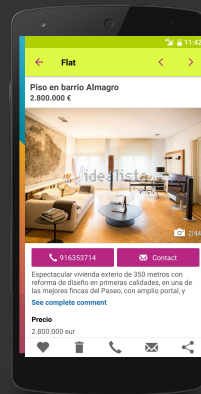




# Effective TDD on Android with Kotlin

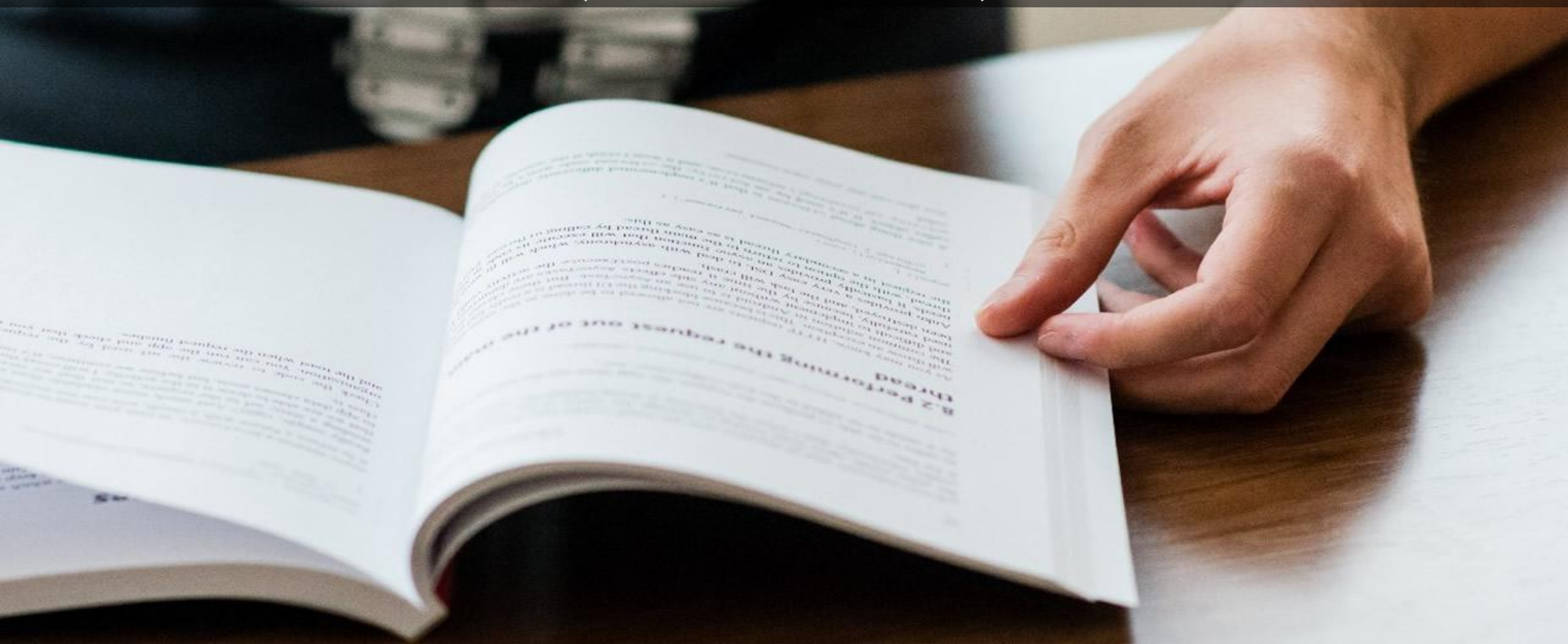
@MADGEvents

# idealista



# Kotlin for Android developers

(Antonio Leiva)



An aerial photograph of a city street, likely in Madrid, featuring ornate classical buildings and a busy road with cars and a bus. The entire image is covered with a semi-transparent green filter. Centered over the image is the text "#MADGtestsWithK" in a bold, white, sans-serif font.

**#MADGtestsWithK**






Madrid Android Developer Group



# Effective TDD on Android with Kotlin



# Effective TDD on Android with Kotlin

@MADGEvents



Olmo Gallegos Hernández



@voghDev

#MADGtestsWithK

# Example project

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



#MADGtestsWithK





# Overview - Basis of the workshop

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

<http://chucknorris.io> API

#MADGtestsWithK

<http://chucknorris.io> API



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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

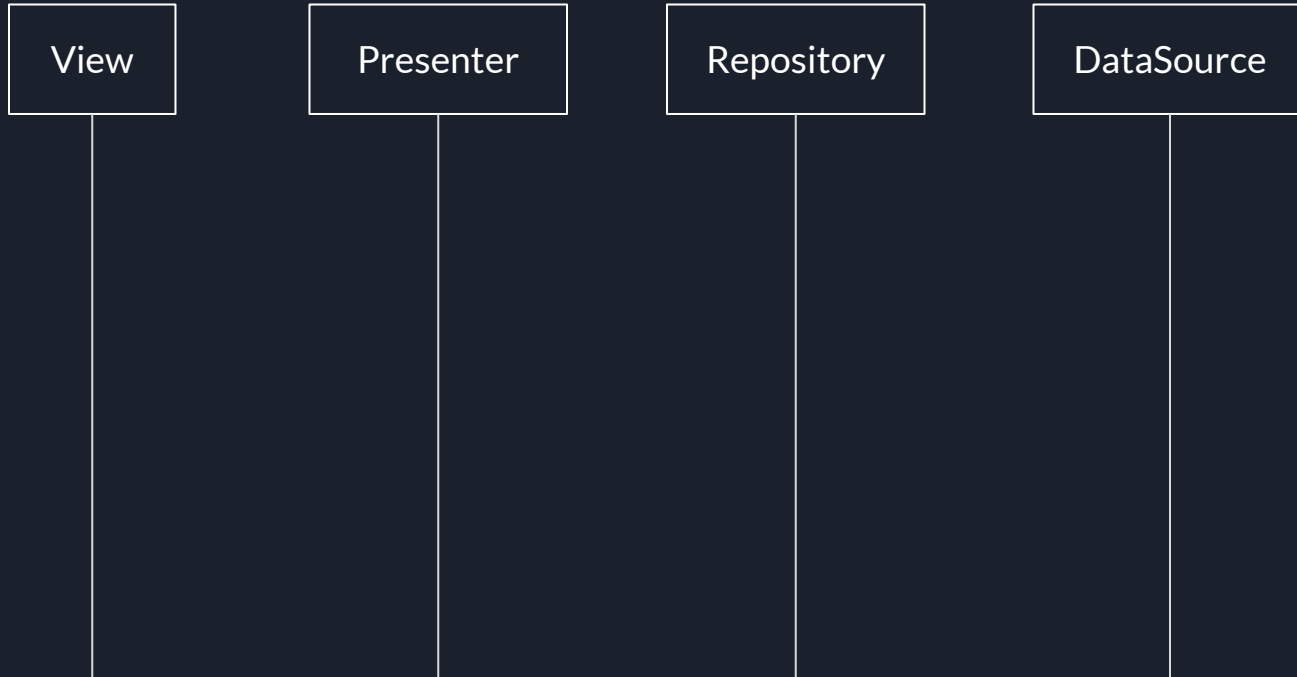
Presenter

Repository

DataSource



# The Architecture - Android MVP



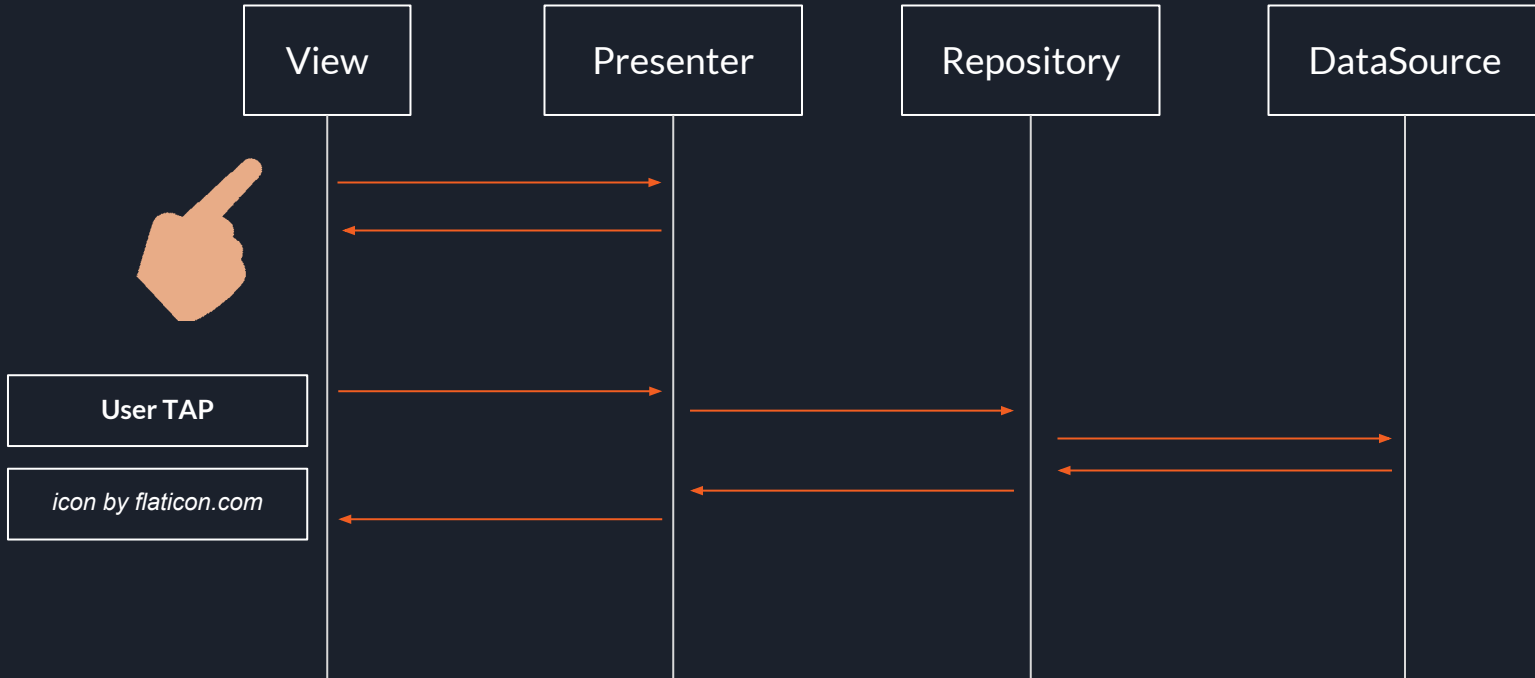
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# The Architecture - Android MVP



#MADGtestsWithK

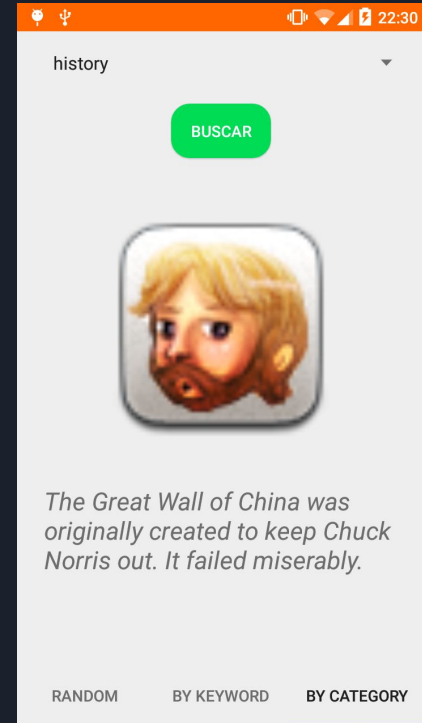
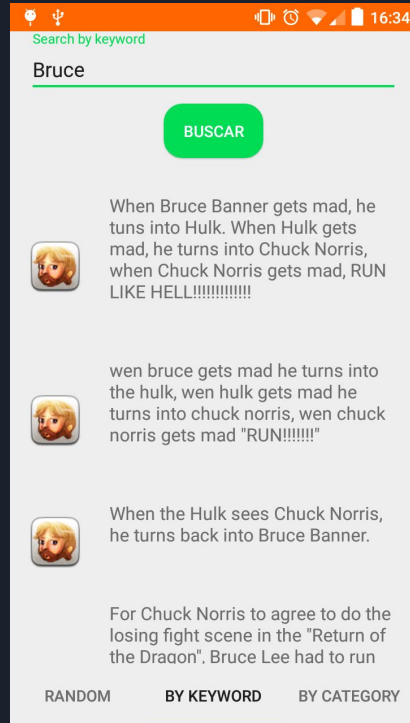
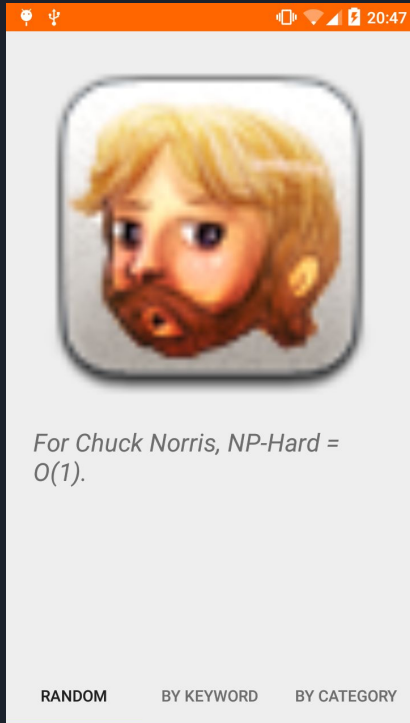
# The Architecture - Android MVP



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# Starting from empty App





Time to get some  
work done!



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# Credits

Bandhook Kotlin - <https://github.com/antonio1g/Bandhook-Kotlin>

OpenLibraryApp - <https://github.com/jrgonzalezg/OpenLibraryApp>

kotlinx.coroutines - <https://kotlinlang.org/docs/reference/coroutines.html>

kategory.io - <http://kategory.io>

Passive View - <https://martinfowler.com/eaaDev/PassiveScreen.html>



# Conclusions

- TDD is not the real challenge; **having testable code** is
- Tests need to be maintained, as requirements do
- The real win is to reproduce bugs directly in your tests
- Less executions → more productivity



That's all folks!



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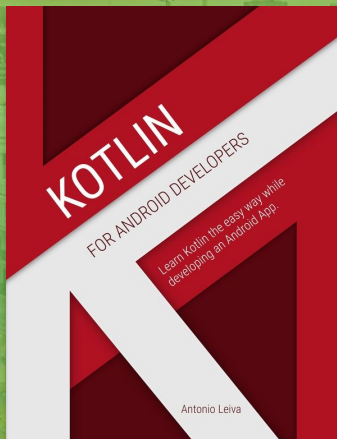
An aerial photograph of a city, likely Santiago, Chile, featuring the ornate, domed building of the Teatro Municipal in the foreground. The city extends to the horizon with various buildings and hills in the background. The entire image is covered with a semi-transparent green filter. Centered over the image is the text "Lighting talks" in a large, white, sans-serif font, with "(10-15 minutes)" in a smaller, white, sans-serif font directly below it.

# Lighting talks

(10-15 minutes)

**WE WANT  
YOU**





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