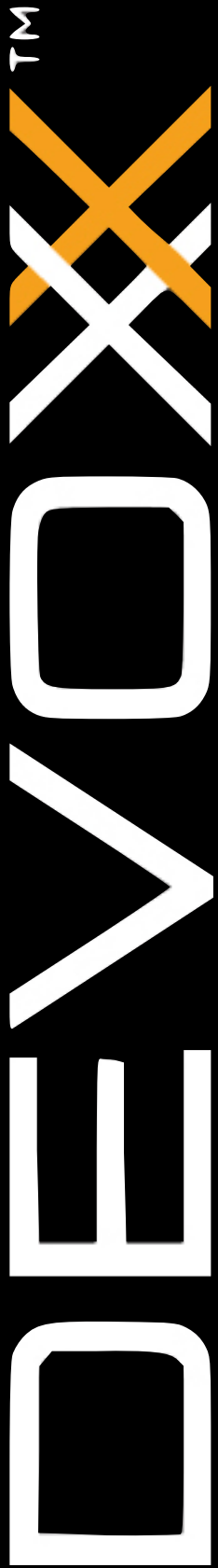


# How to test your awesome iOS mobile application ?

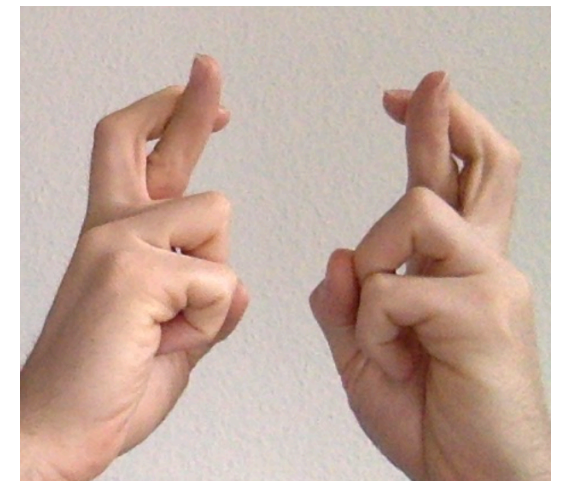
Maxime DAVID





# Agenda

- Why ?
- Overview of a demo app
- Unit Tests - synchronous & asynchronous - Live coding
- UI Tests - Live coding
- Questions





# Why testing your app is important ?

- Everything you know about software testing
  - Validity, robustness, safe refactoring ...



- Mobile specific constraints
  - Apple review process is long
  - Bugs can kill the app
  - UIElements can overlap
  - Deleting an app is super easy



# Overview of Hash2Colors

- Aim : generate a unique color scheme from a string via a hash
- Example : “Hello Devovx”
- Hash : 8742c1feba5e7b8f552bb5e4b03978f567759539

- Result :





- Demo !



# Unit Tests

- Built-in XCode feature (new target)
- XCTest framework
  - XCTAssertTrue, XCTAssertFalse, XCTAssertEqual....
- Main goal :
  - Validate the business logic
- In the demo app :
  - Check the correct transformation from a string to a color scheme

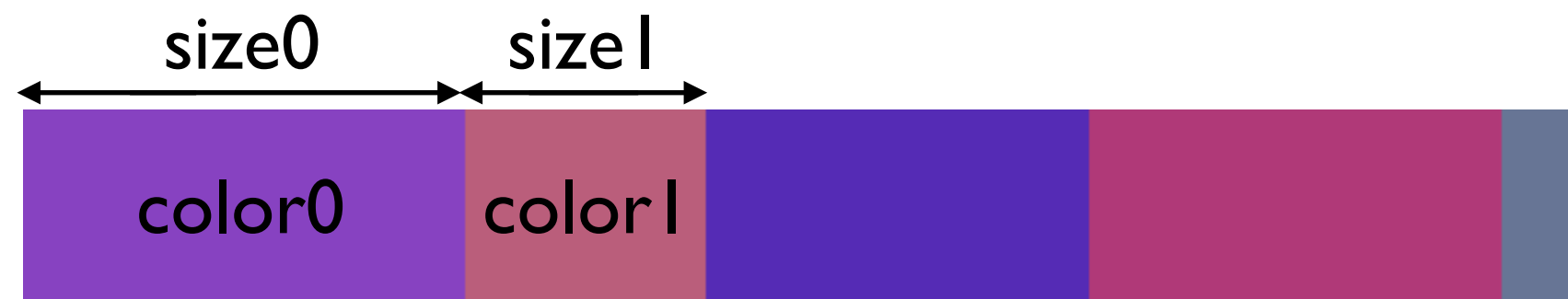


# How does it work ?

- Ex : “Hello Devovx”

- SHA1 8742c1fe ba5e7b8f 552bb5e4 b03978f5 67759539  
color0 size0 color1 size1

- Result :





- Demo !





# UI Tests

- Built-in XCode feature (new target)
  - XCTest + Accessibility framework
  - Main goal :
    - Interact with UI elements
    - Validate scenarios
- In the demo app :
    - Navigate through color details
    - Saving a hash



- Demo !



# Thanks !

- Questions ?
- Links
  - <https://developer.apple.com/videos/play/wwdc2015/406>
  - <https://talk.objc.io/episodes/S01E01-networking>
  - <https://github.com/maxday/DevovxBE-16>