



# Hello world!

Build your own iOS app !

**“Get to know The App Academy, get a practical insight on iOS development and a less abstract idea of a developer’s job”**

# Today

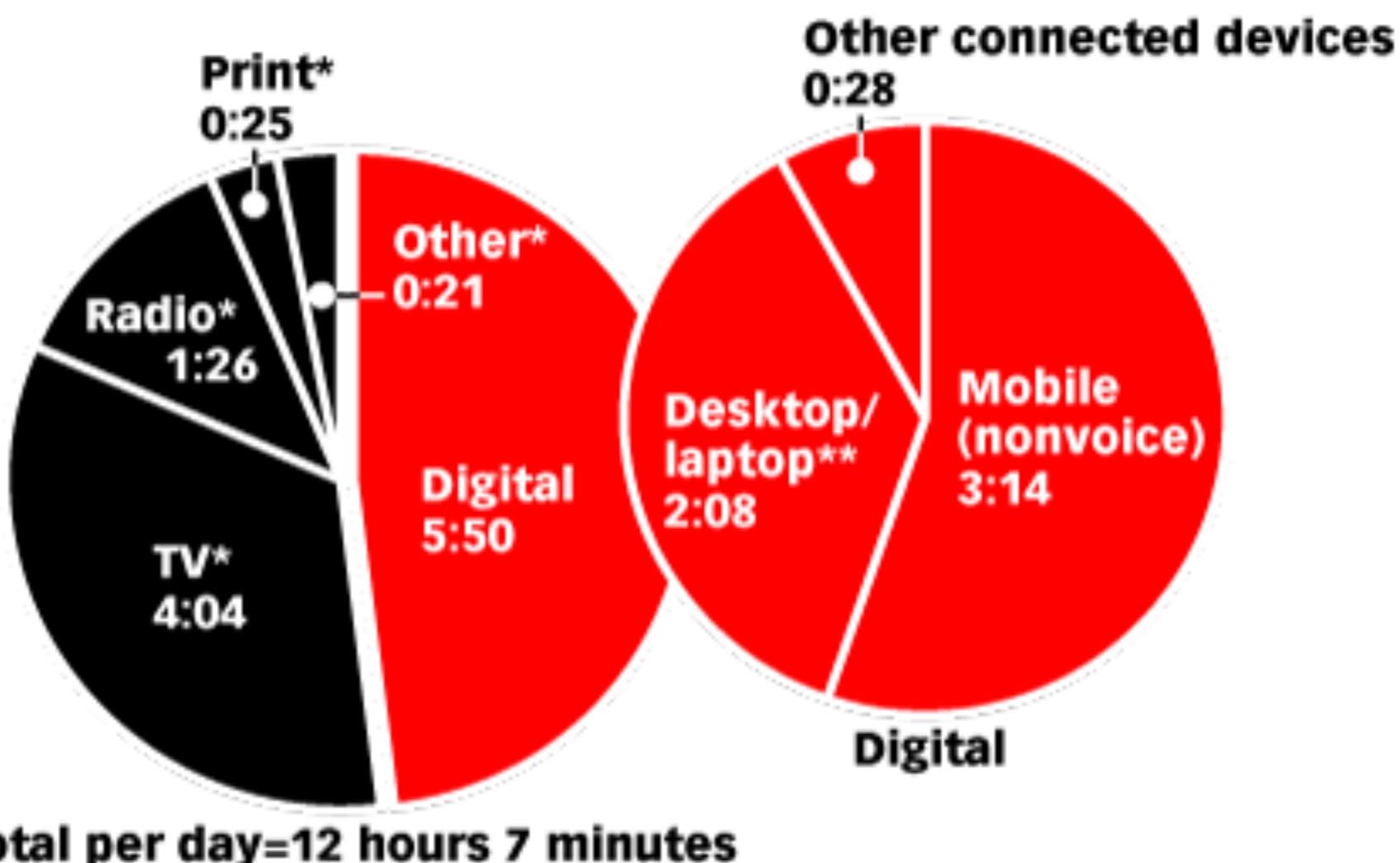
- Introduction
- About the future of mobile app development & the App Academy by Daniël
- Introduction to iOS development by Jolijn
- Building an app together!
  - Wire frames assignment
  - Introduction to xCode
  - Live coding
- What happens now & Questions
- Former TAA Student Jeroen Brokaar, iOS Dev @ ABN Amro



**CODING ON  
THE BEACH**

## Average Time Spent per Day with Major Media by US Adults, 2017

hrs:mins



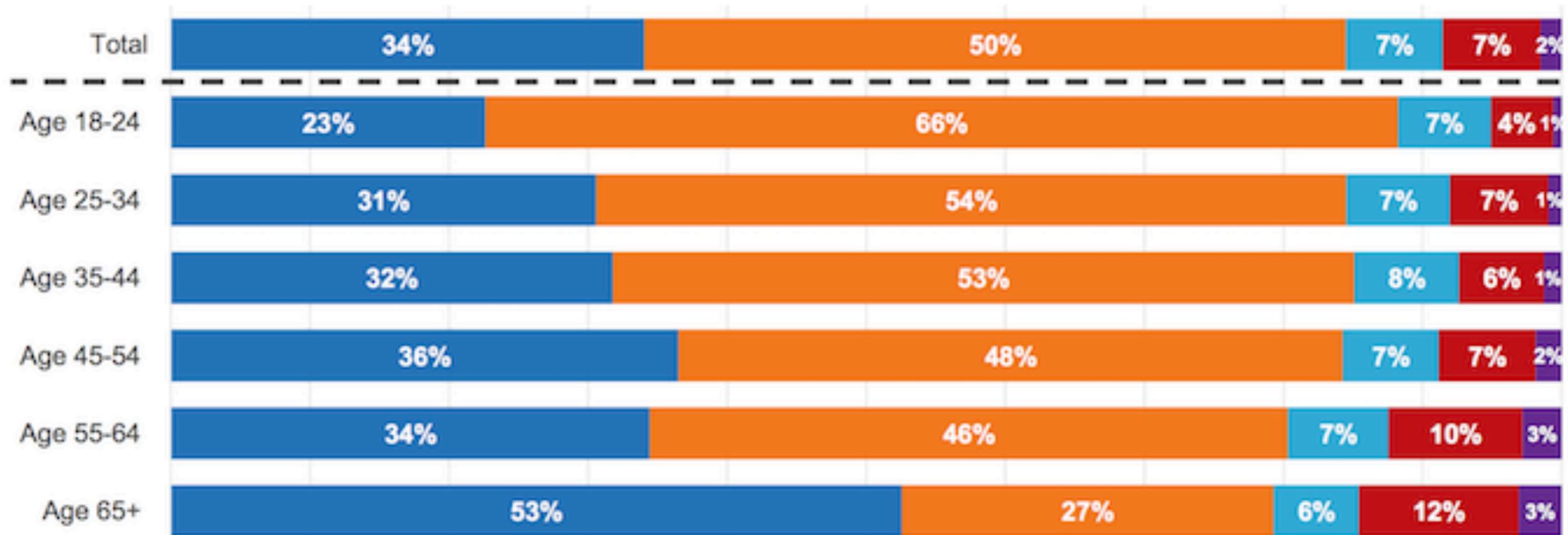
Note: ages 18+; time spent with each medium includes all time spent with that medium, regardless of multitasking; for example, 1 hour of multitasking on desktop/laptop while watching TV is counted as 1 hour for TV and 1 hour for desktop/laptop; \*excludes digital; \*\*includes all internet activities on desktop and laptop computers

Source: eMarketer, April 2017

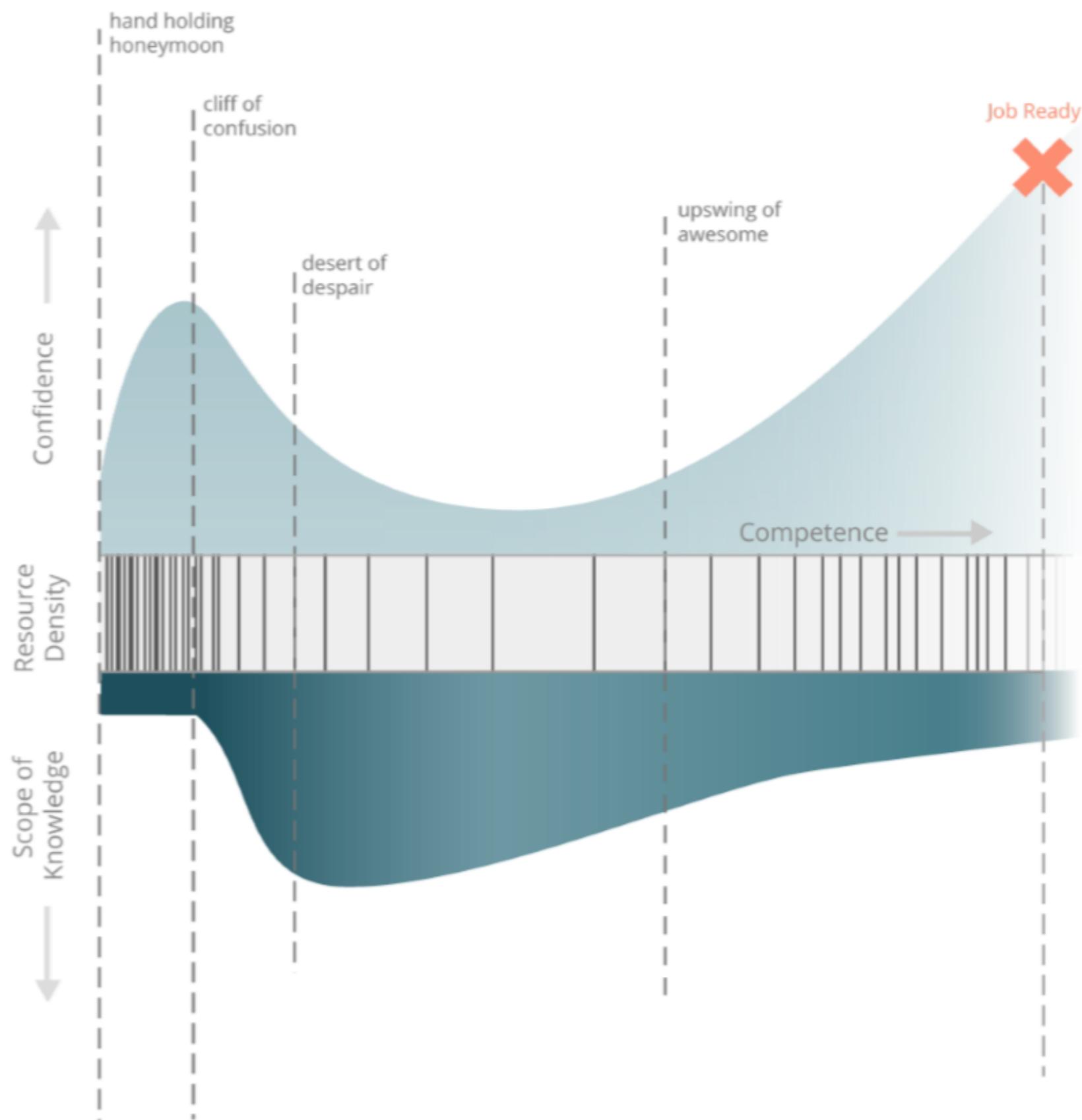
## Share of Platform Time Spent by Age

Source: comScore Media Metrix Multi-Platform & Mobile Metrix, U.S., Age 18+, June 2017

■ Desktop ■ Smartphone App ■ Smartphone Web ■ Tablet App ■ Tablet Web



# Why learning to code is hard?



“Everybody in this world should learn how to program a computer, because it teaches you how to think.”

- Steve Jobs

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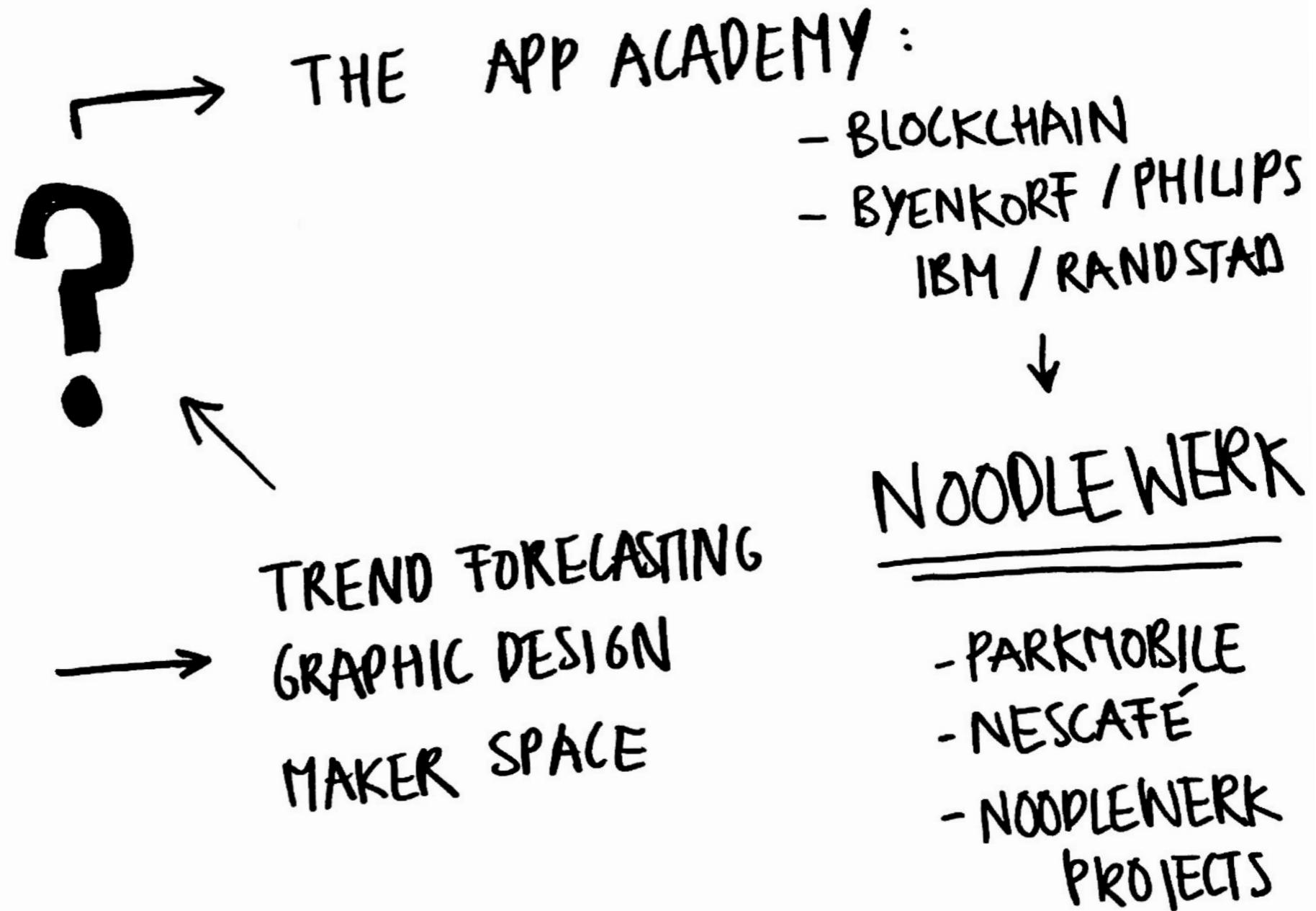


# **1.0 Introduction to iOS development**

# Life Path

Bachelor  
Fashion & Design  
@  
AMFI

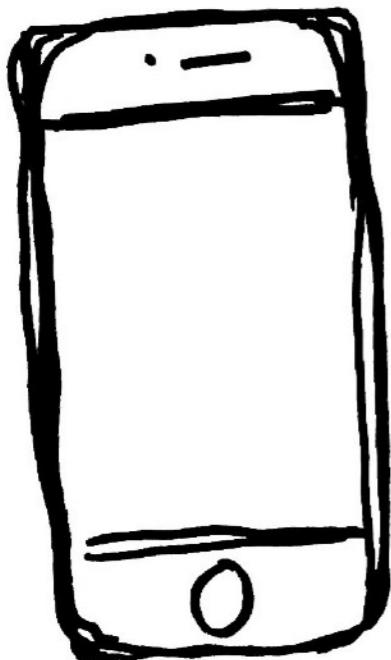
↓  
THEESIS ABOUT  
the future  
of the Industry



ios development

- ~~BUILDING project~~ -

- CREATION -



phone + OS

FOUNDATION

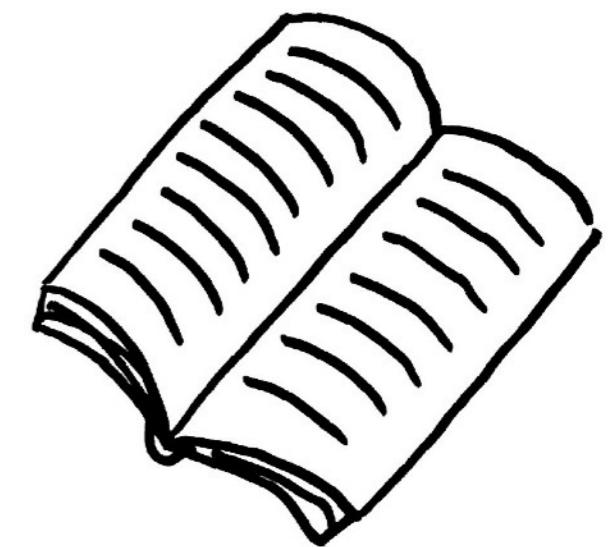
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xCode + Swift

TOOLS

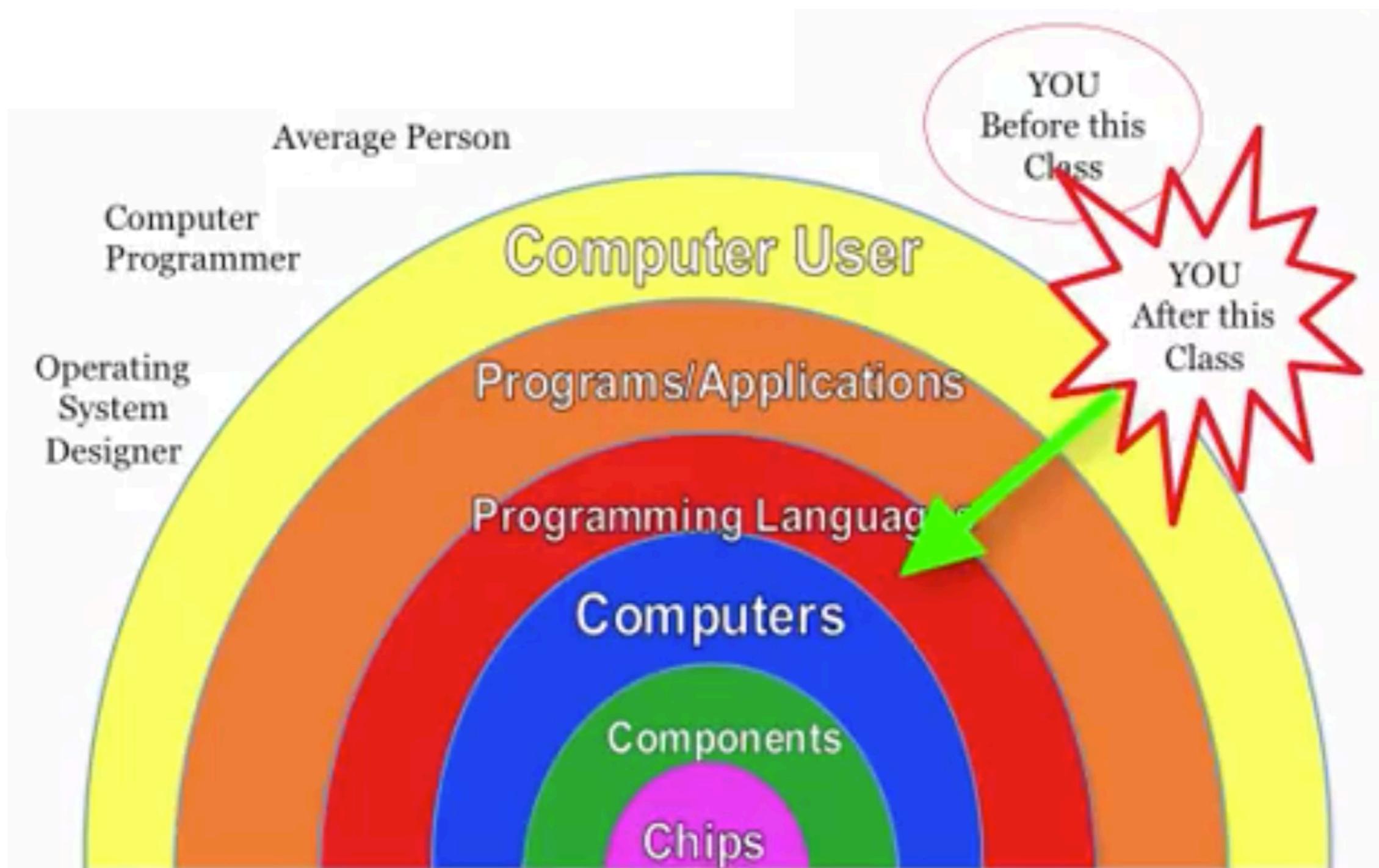
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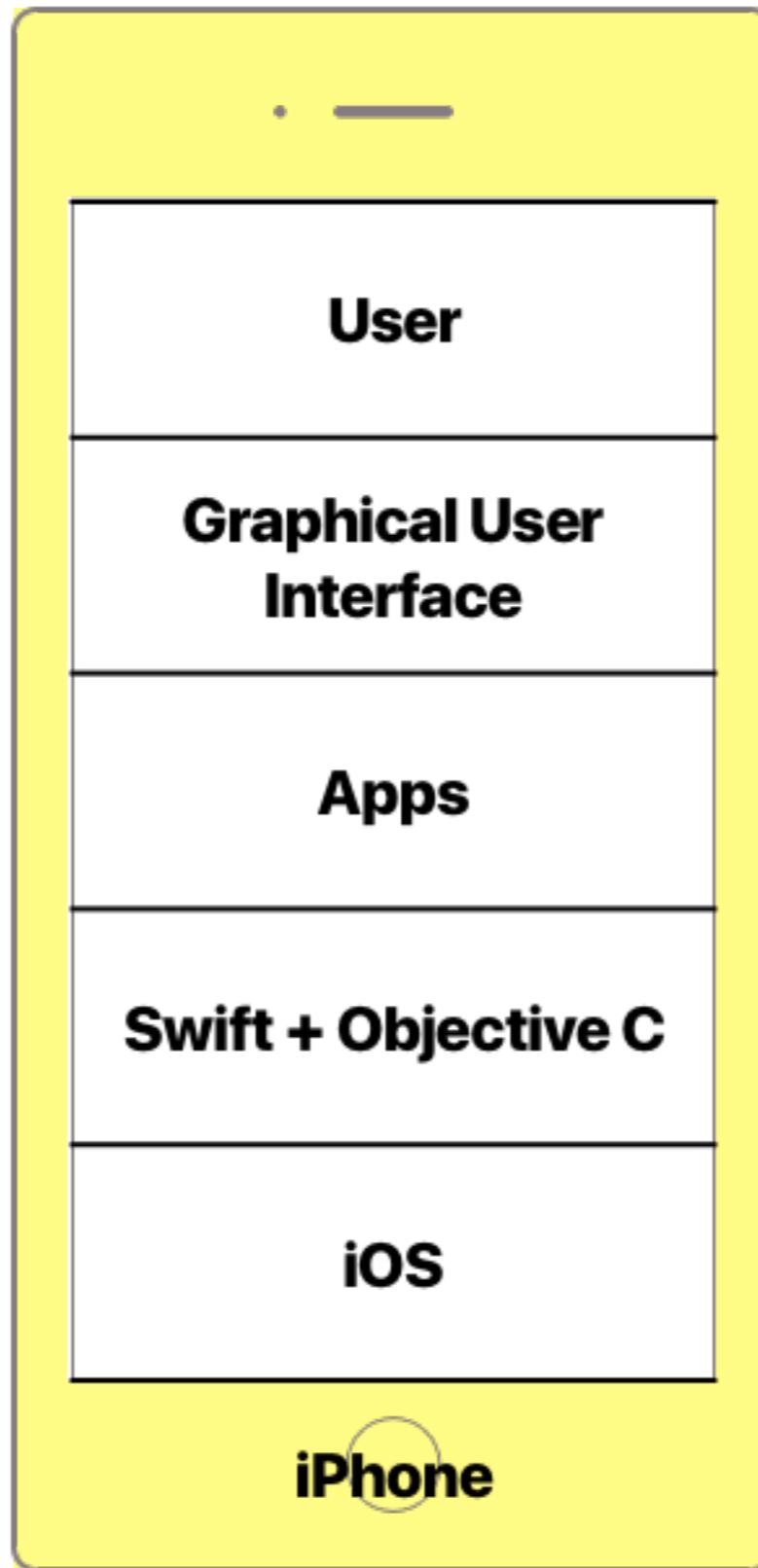


documentation +  
FRAMEWORKS

KNOWLEDGE

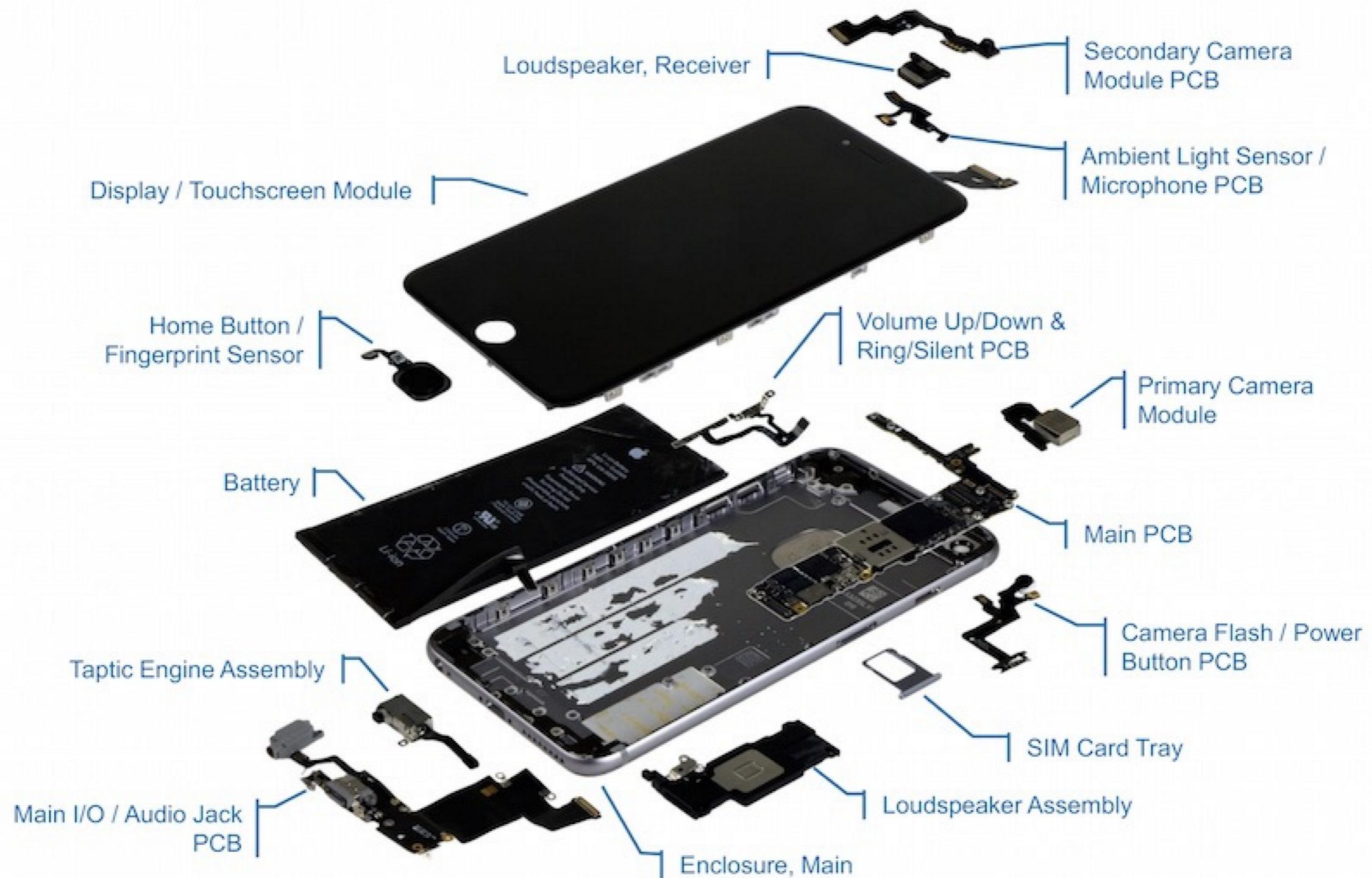
# Levels of Abstraction





# Levels of abstraction: iOS

# The iPhone



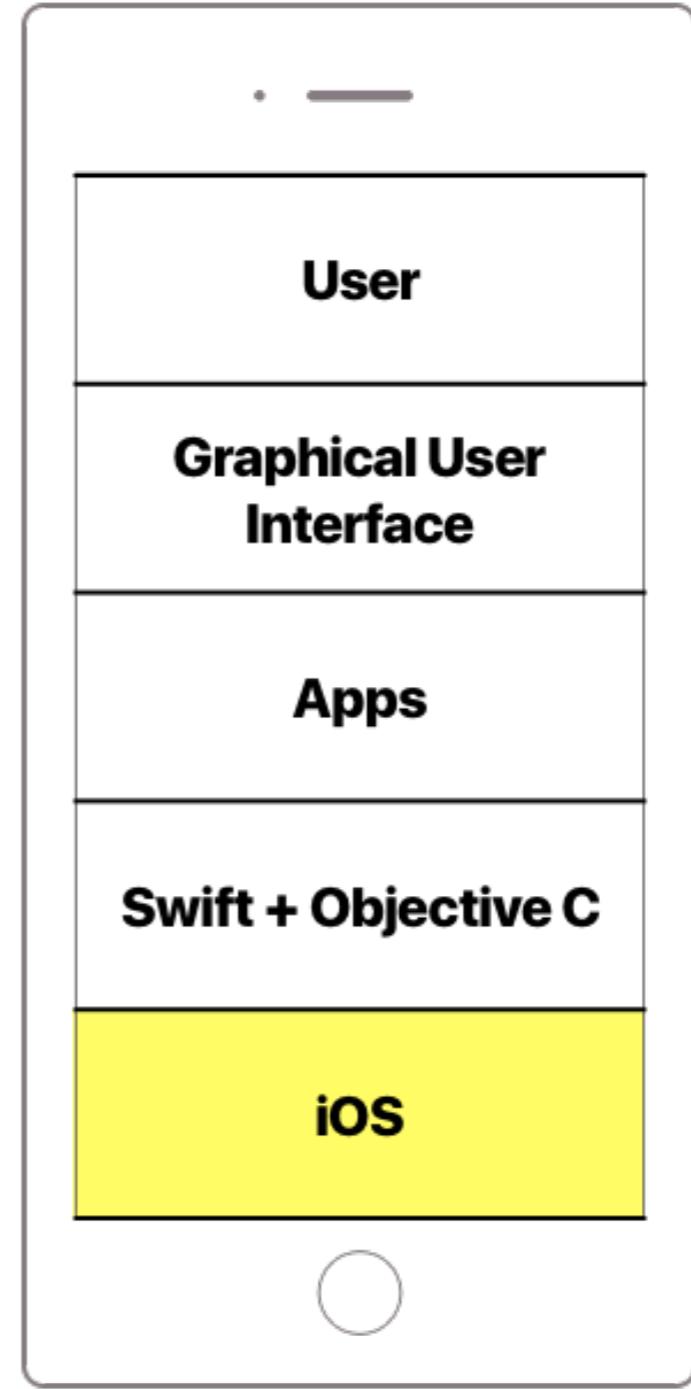
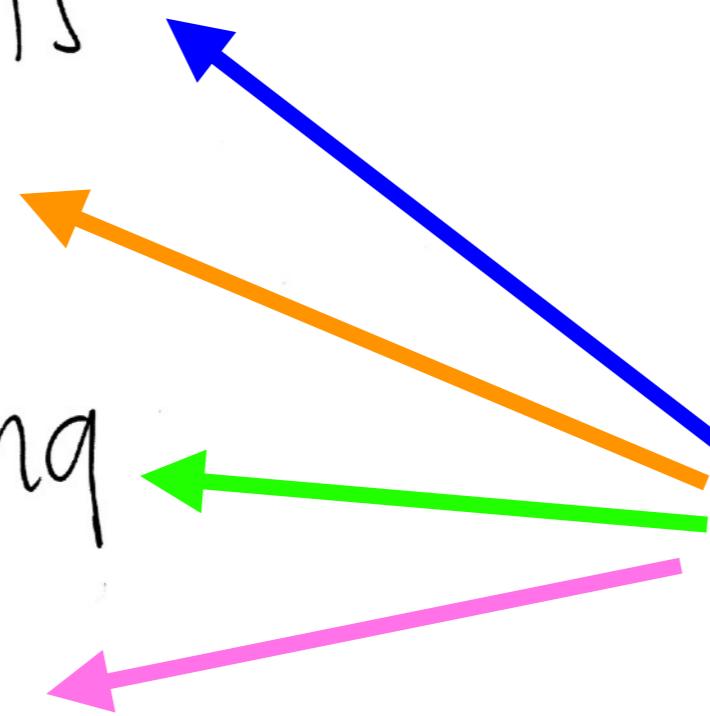
# iOS + iOS SDK

Touch events

Camera

Networking

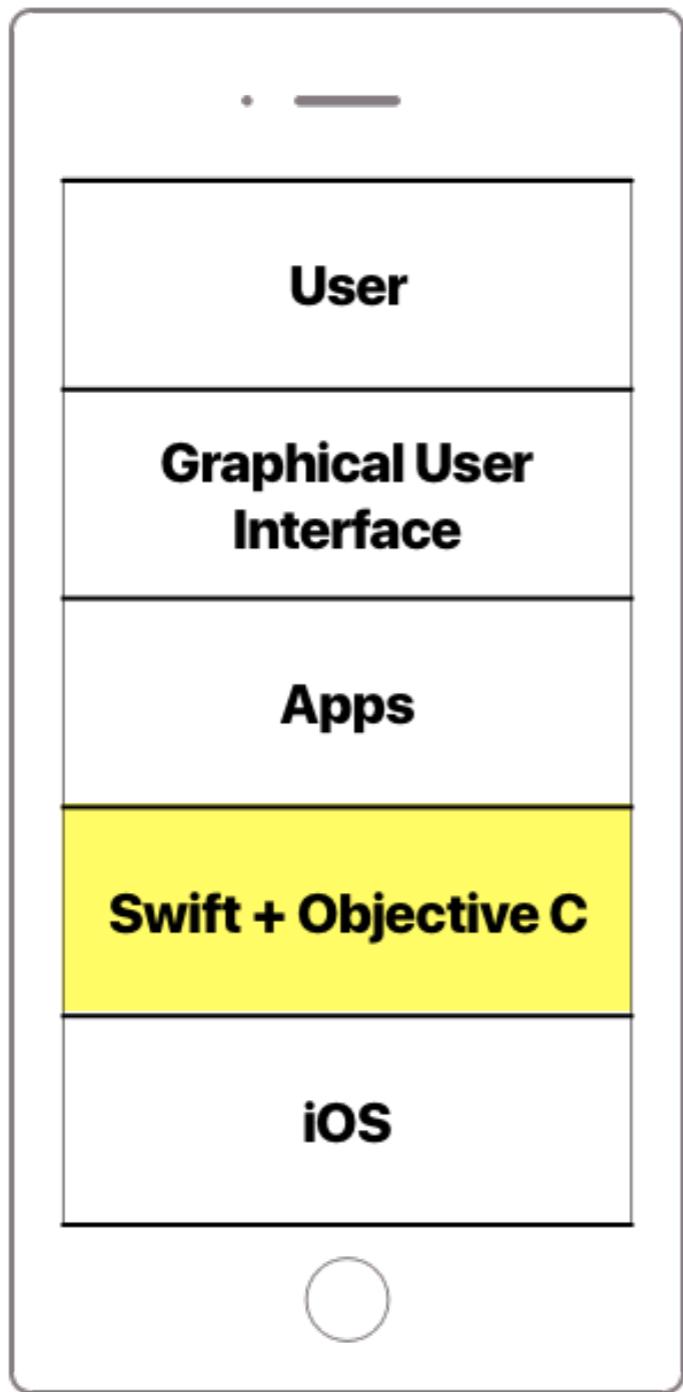
Graphics



iPhone

# Operating the phone

# Swift



- Born in 2014
  - Follow-up of Objective C
  - Still in development  
current version = 4.0
  - Safe
  - fast
  - Expressive
- } MODERN !

```
// Created by Jolijn Friederichs on 18-11-17.  
// Copyright © 2017 The App Academy. All rights reserved.
```

```
import Foundation

class TestCode: NSObject {

    var myName = "Jolijn"

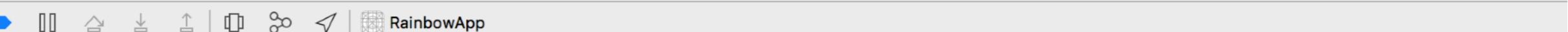
    func printMyName() {
        print("Hi, my name is: \(myName)")
    }

    func sayHelloWorld() {
        print("Hello World!")
    }

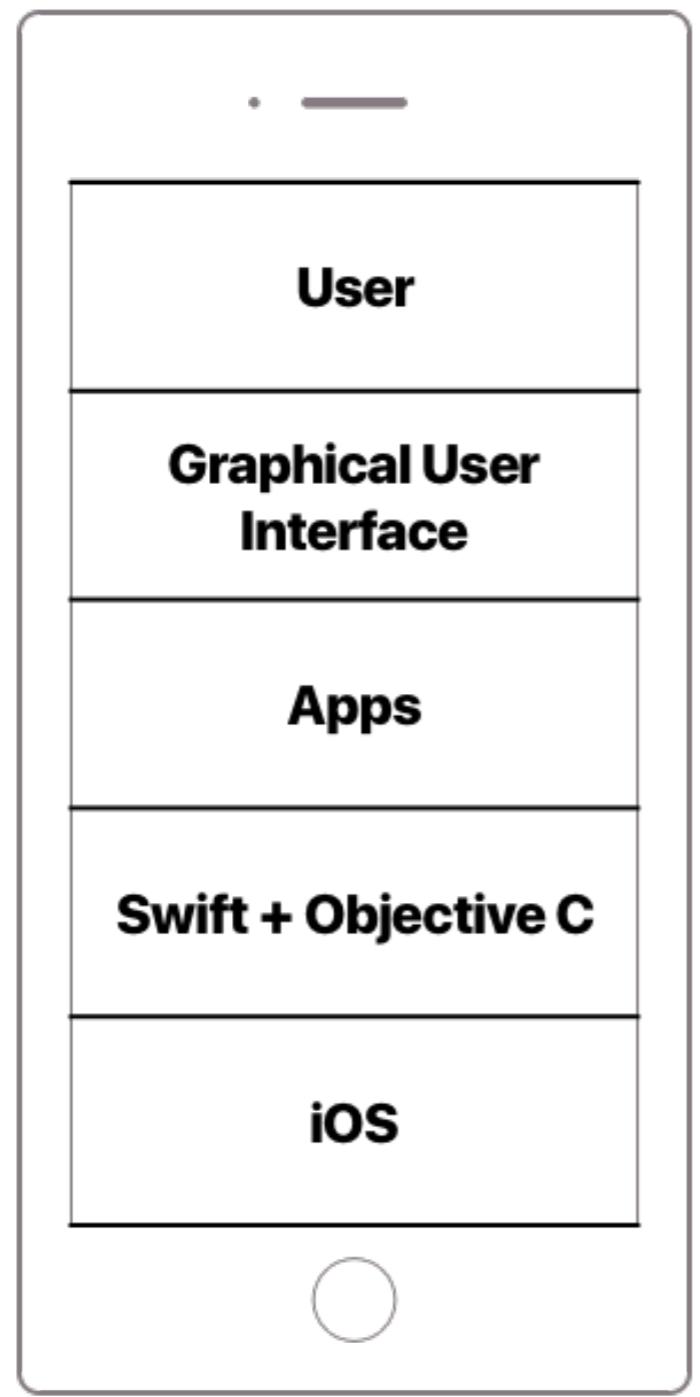
    func calculate1Plus1() {
        print("1 + 1 = \(1 + 1)")
    }

    func printMessage() {
        printMyName()
        sayHelloWorld()
        calculate1Plus1()
    }
}
```

# Example

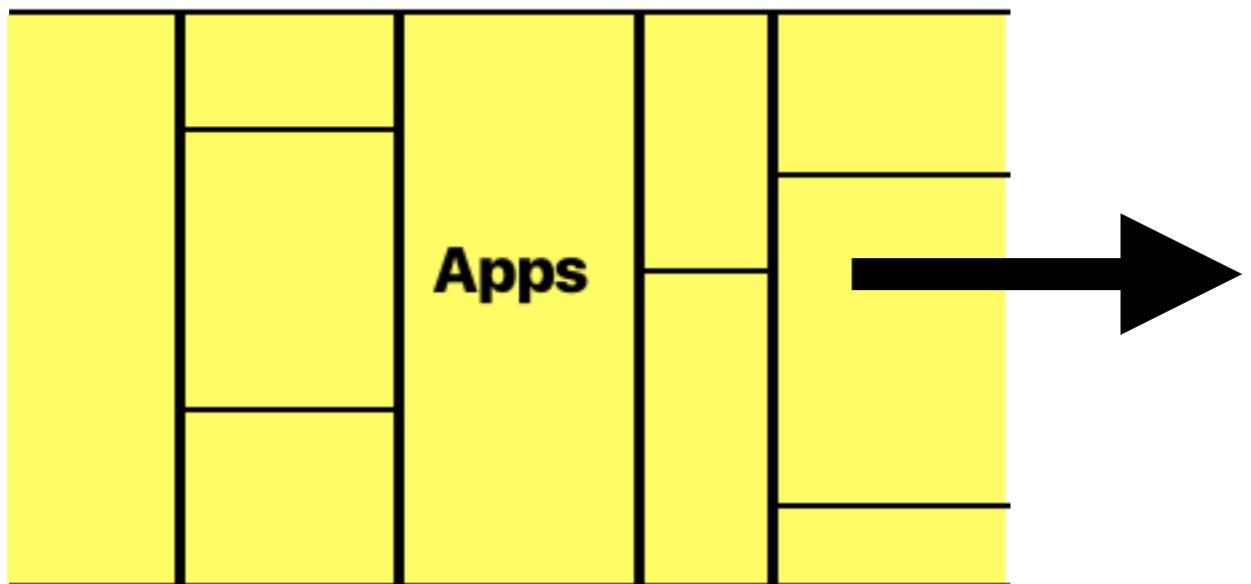


```
Hi, my name is: Jolijn  
Hello World!  
1 + 1 = 2
```



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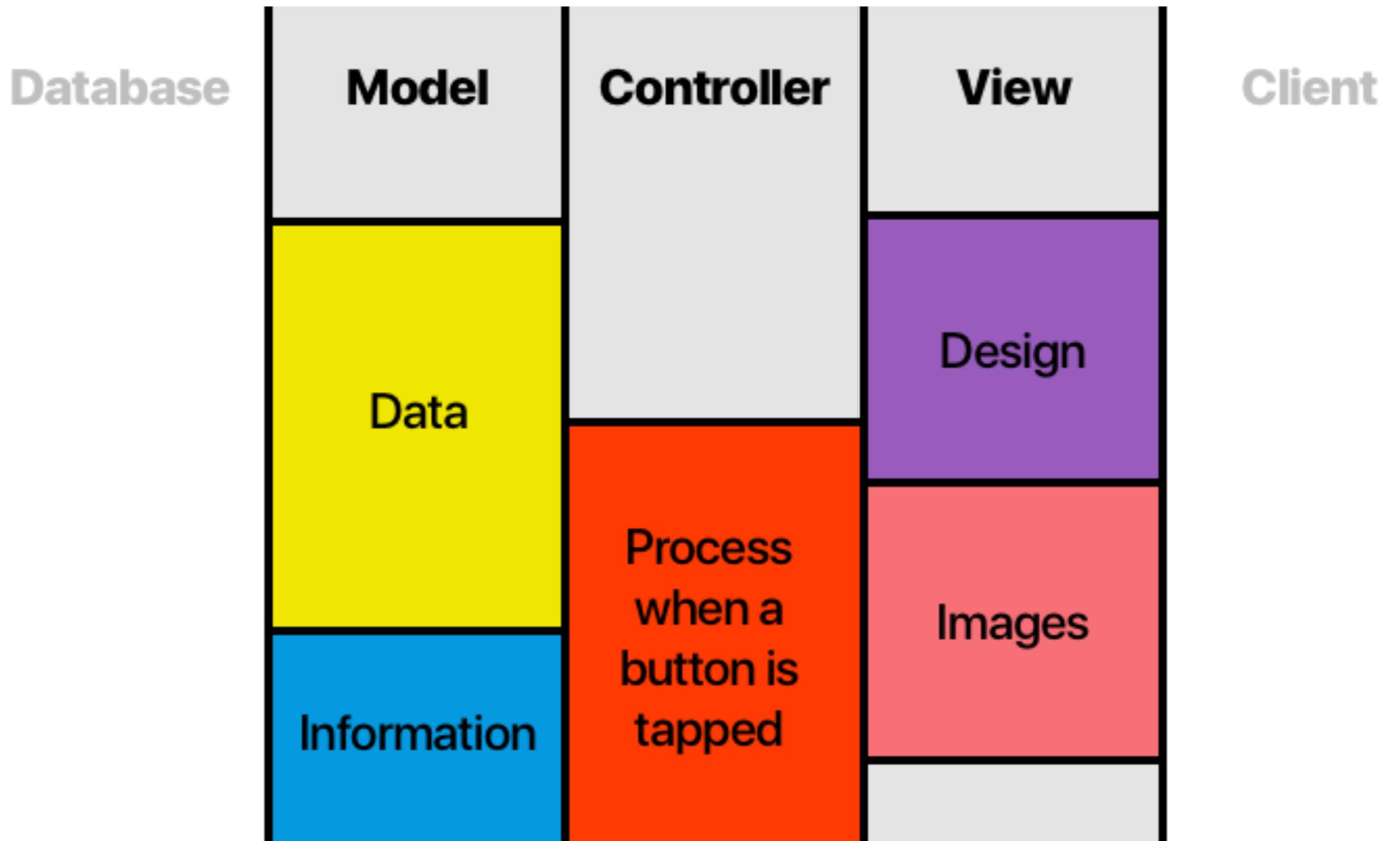
## Graphical User Interface



**Swift + Objective C**

---

# App Structure



```
class TestCode: NSObject {

    var myName = "Jolijn"

    func printMyName() {
        print("Hi, my name is: \(myName)")
    }

    func sayHelloWorld() {
        print("Hello World!")
    }

    func calculate1Plus1() {
        print("1 + 1 = \(1 + 1)")
    }

    func printMessage() {
        printMyName()
        sayHelloWorld()
        calculate1Plus1()
    }
}
```

# Example

# The Apple Library

iOS standard

- Apple Frameworks

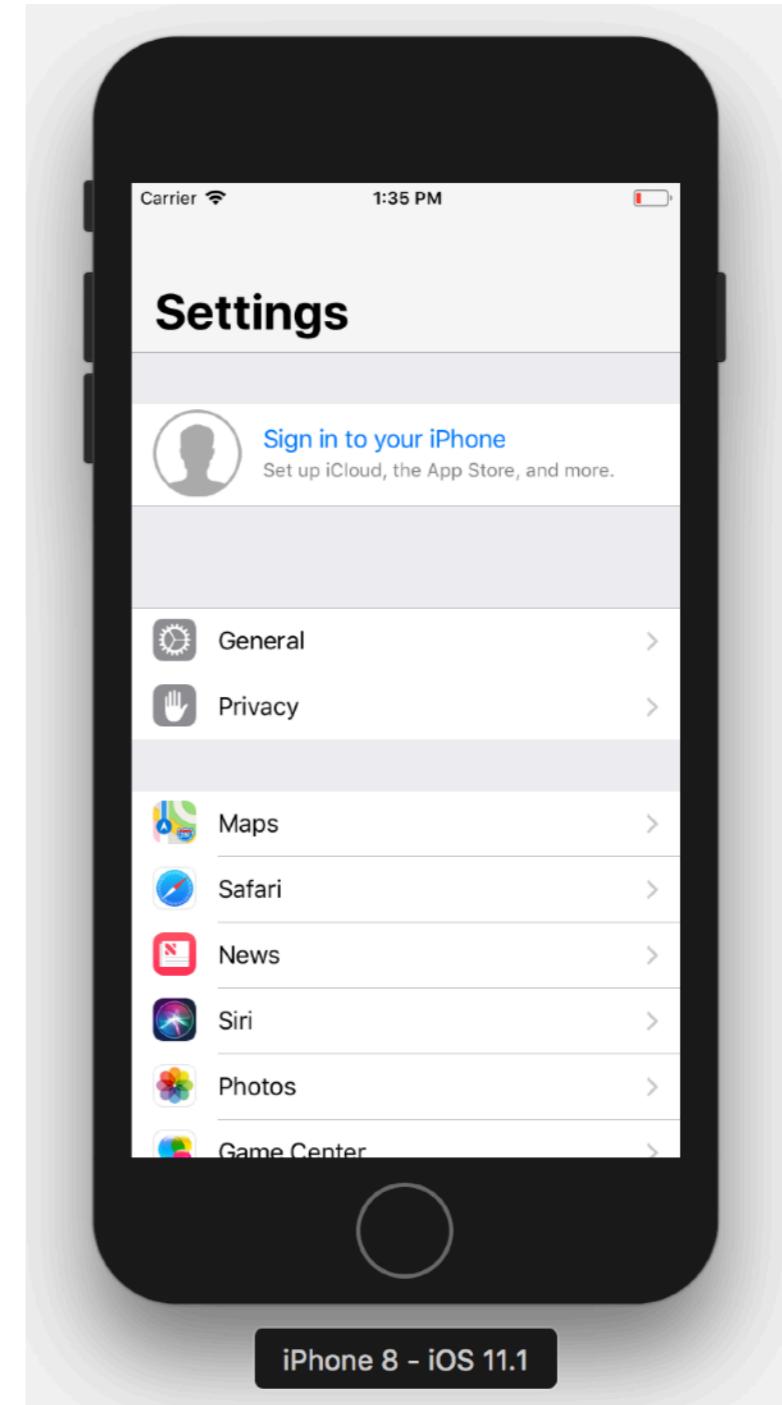
- Apple Documentation

Custom

- Online developers

Community

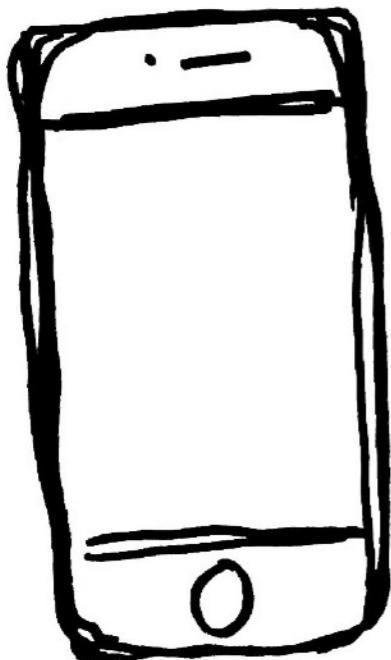
- own knowledge



ios development

- ~~BUILDING project~~ -

- CREATION -



phone + OS

FOUNDATION

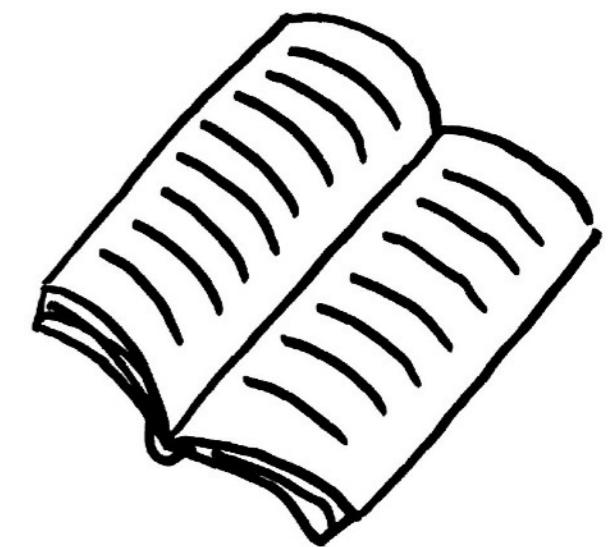
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xCode + Swift

TOOLS

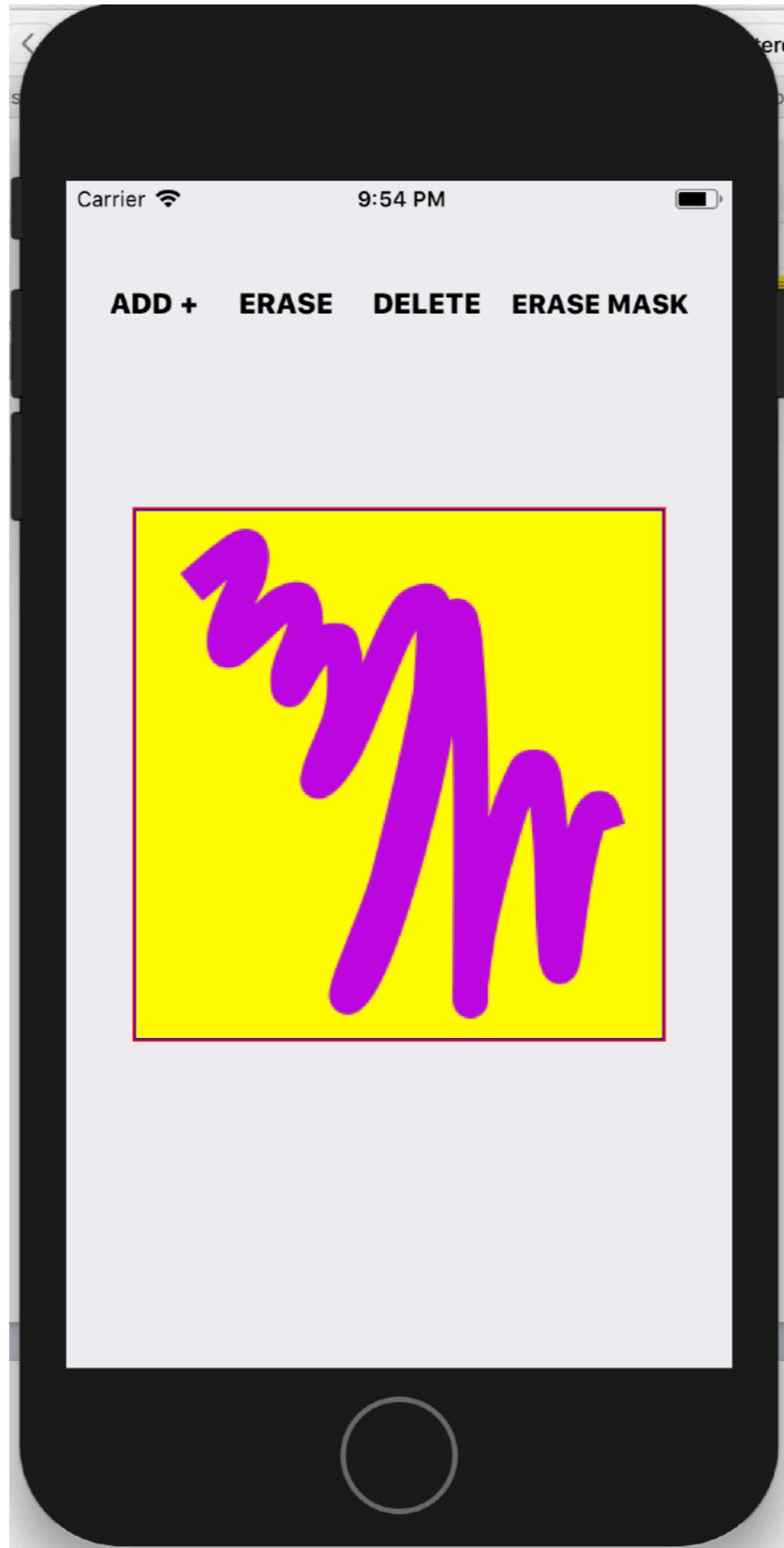
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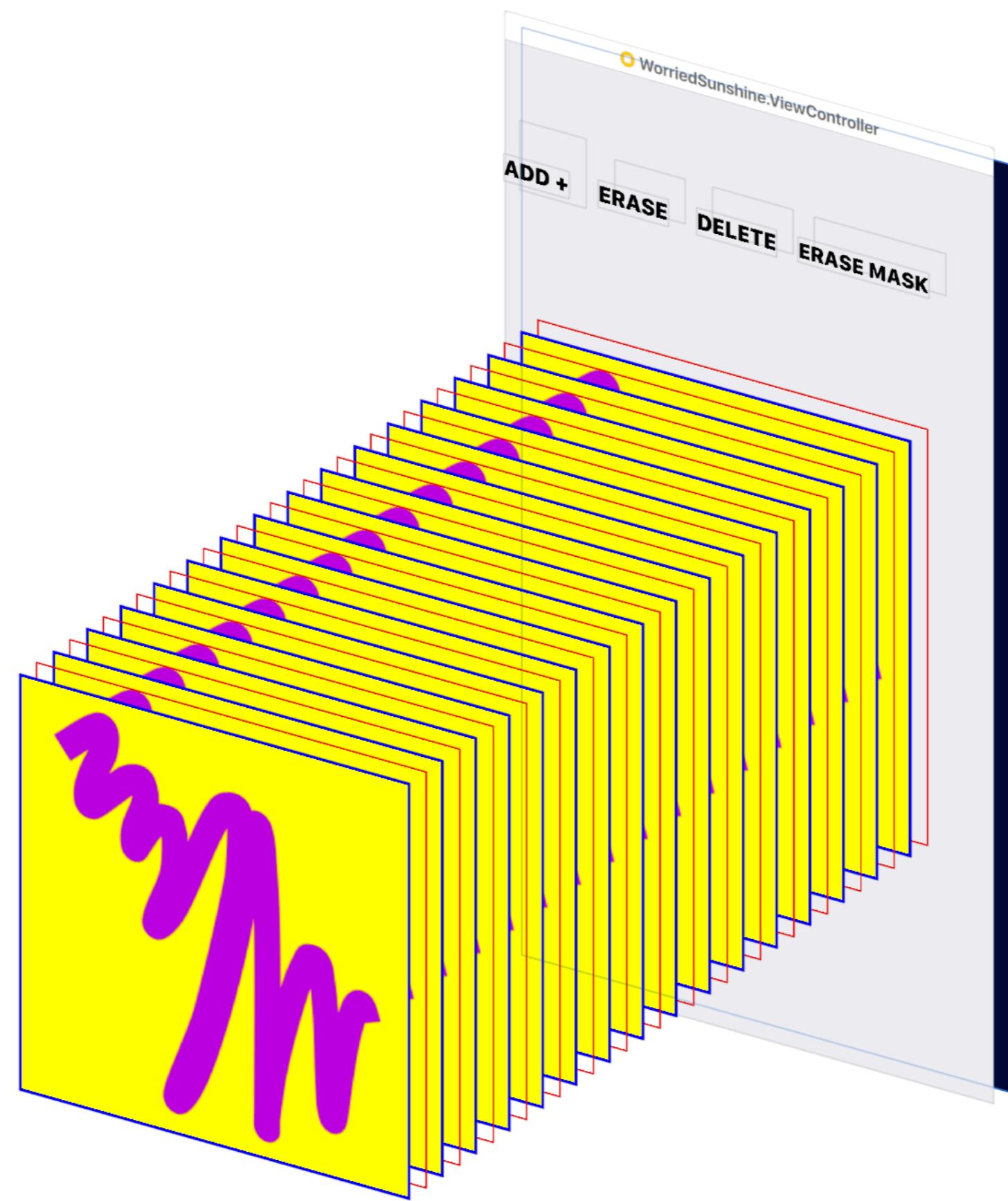


documentation +  
FRAMEWORKS

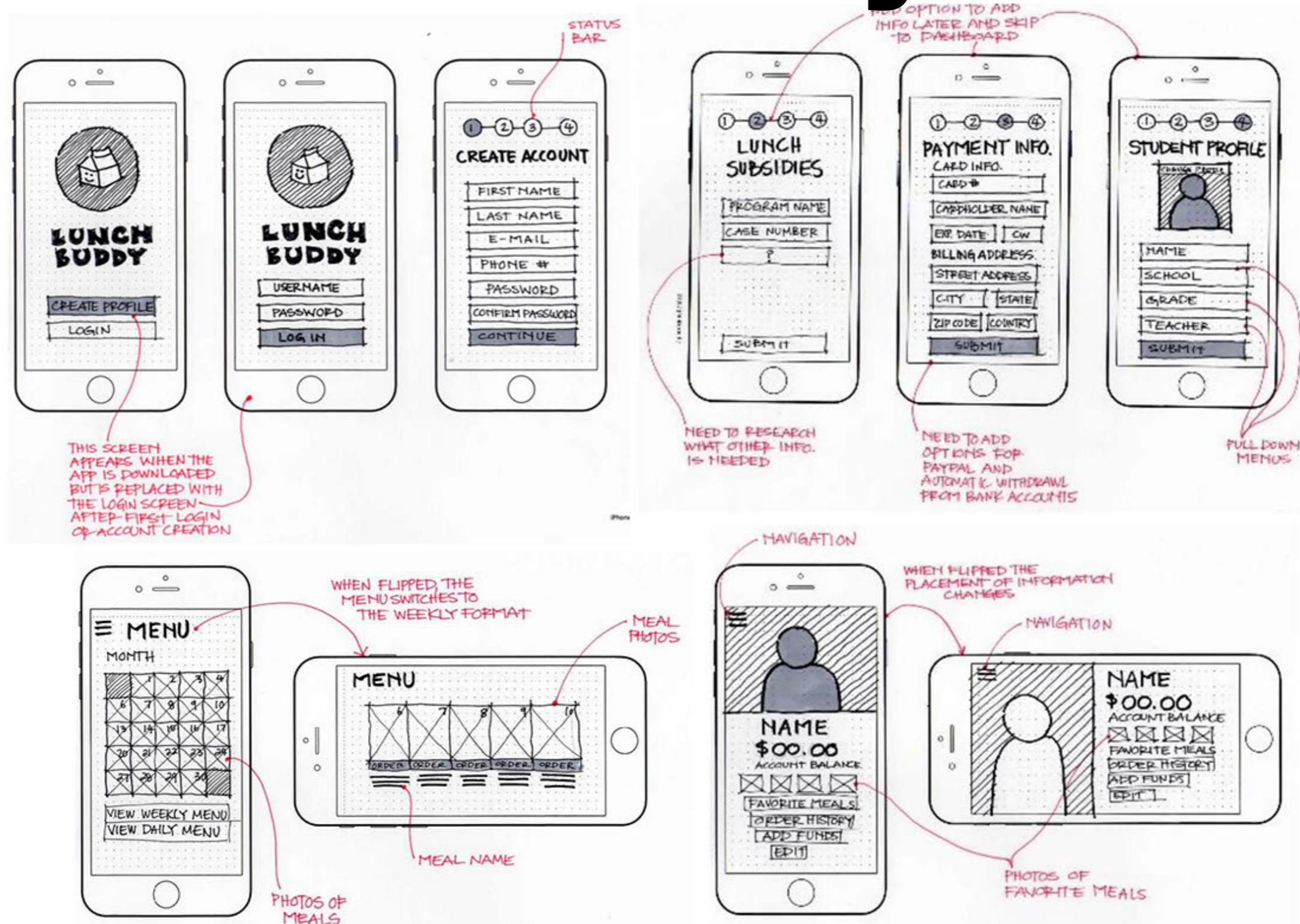
KNOWLEDGE

# **2.0 Building an iOS App**

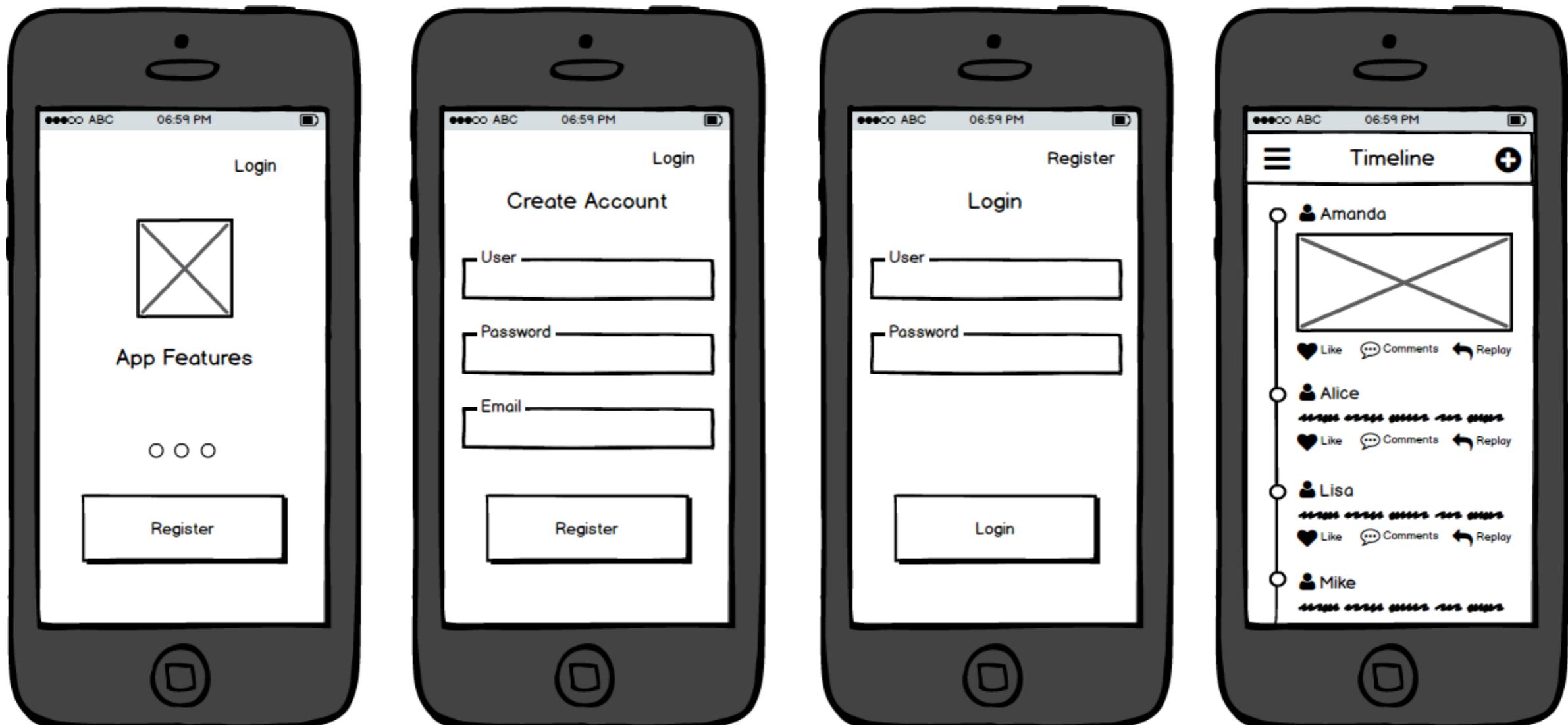




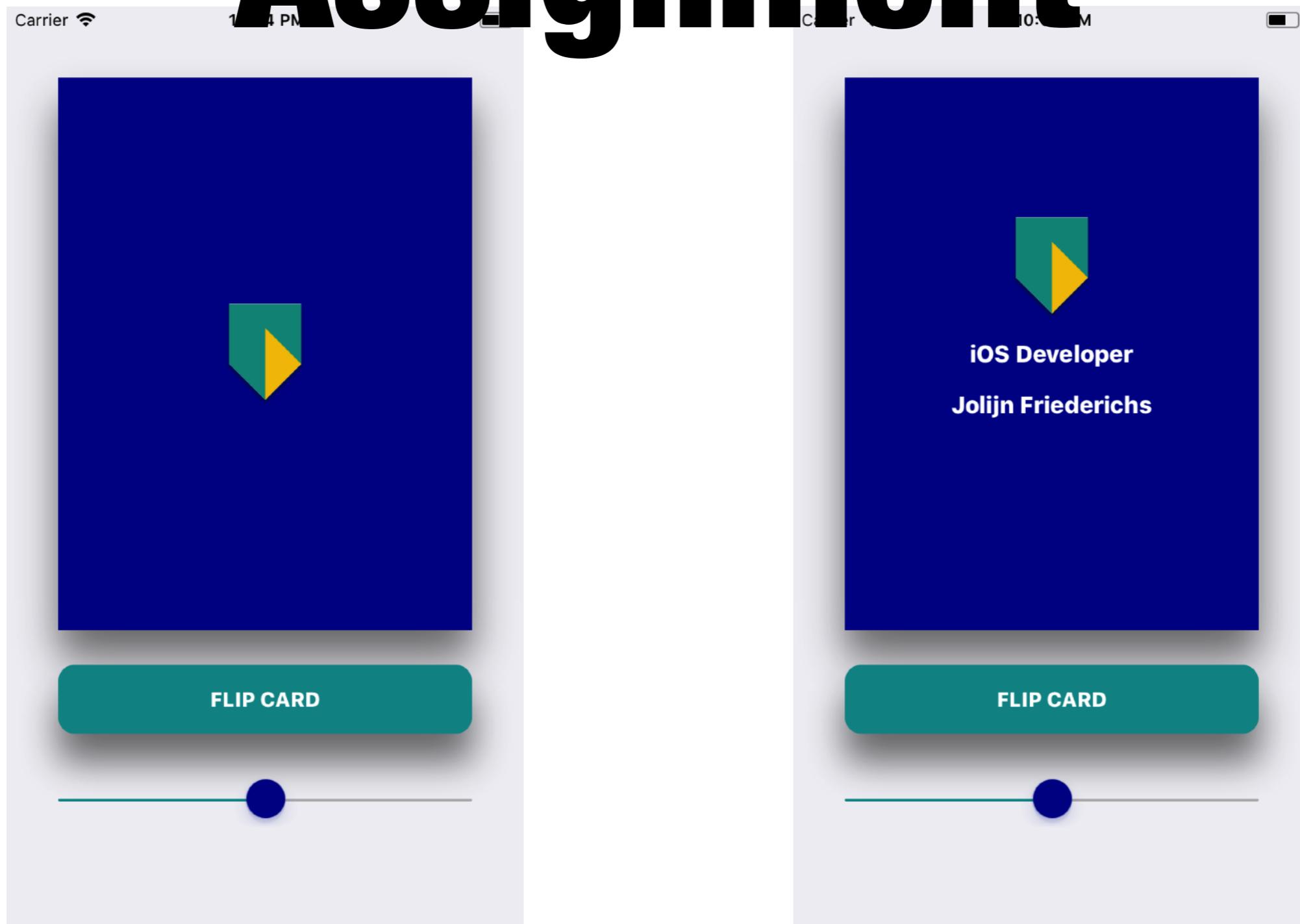
# Think before you do



# Draw before you code



# Assignment



Front

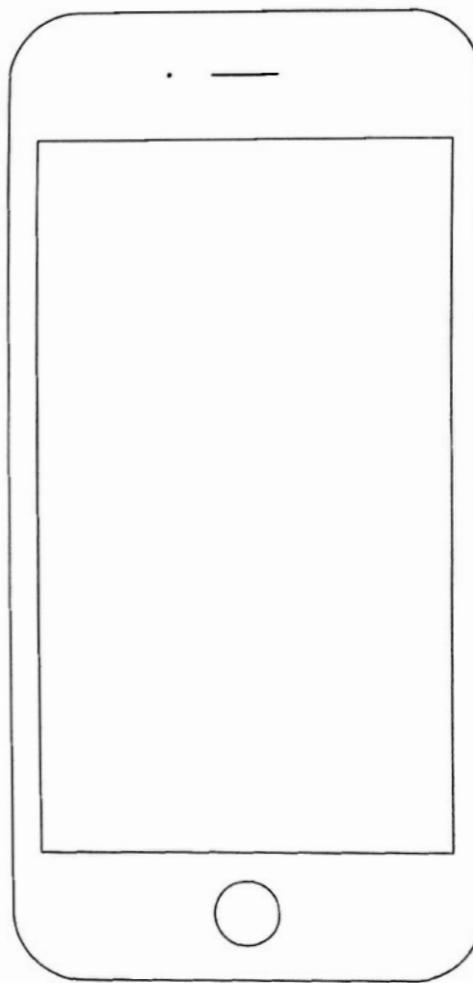
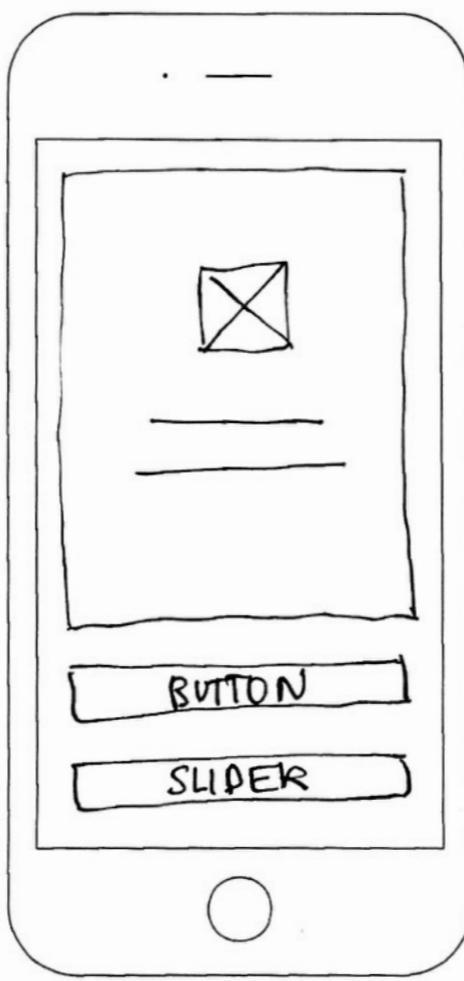
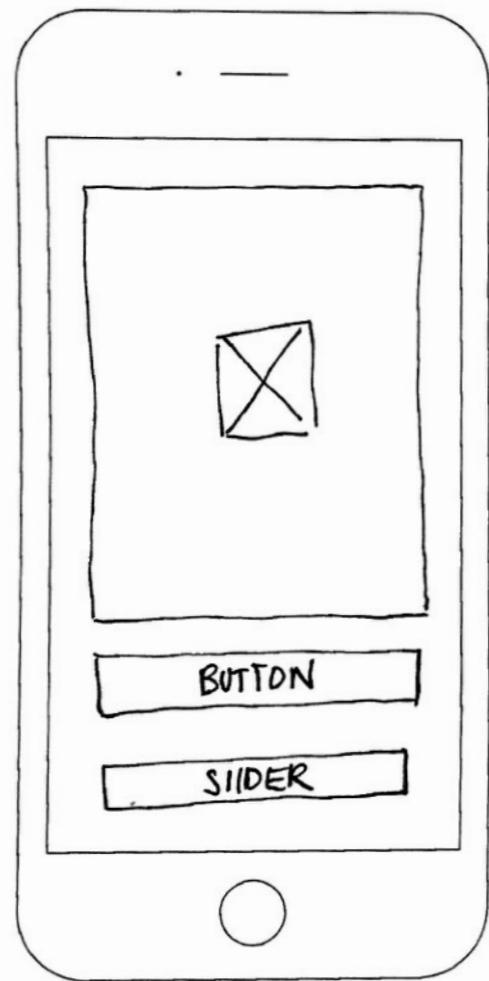
Back

# Assignment

23 Hello World!  
19/11/2017



NOTES



**Let's build an app!**



# xCode

# What now?

Debugging

Testing

User testing

Deployment

# Sharing experiences

Questions?

<a href="https://github.com/jolijnFriederichs>HelloWorld  
Project + Documentation

**Jeroen Brokaar**  
**iOS Dev @ ABN Amro**