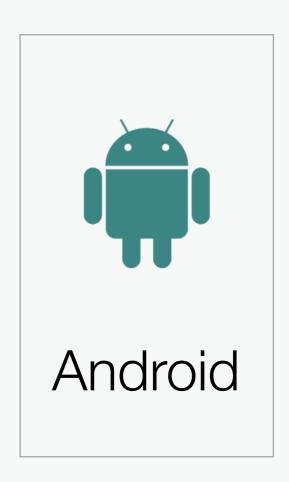
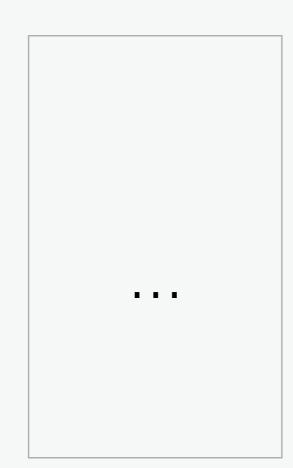
# iOS Tutorial

Human-Computer-Interaction and Psychology Cristina Morariu & Michael Oppermann

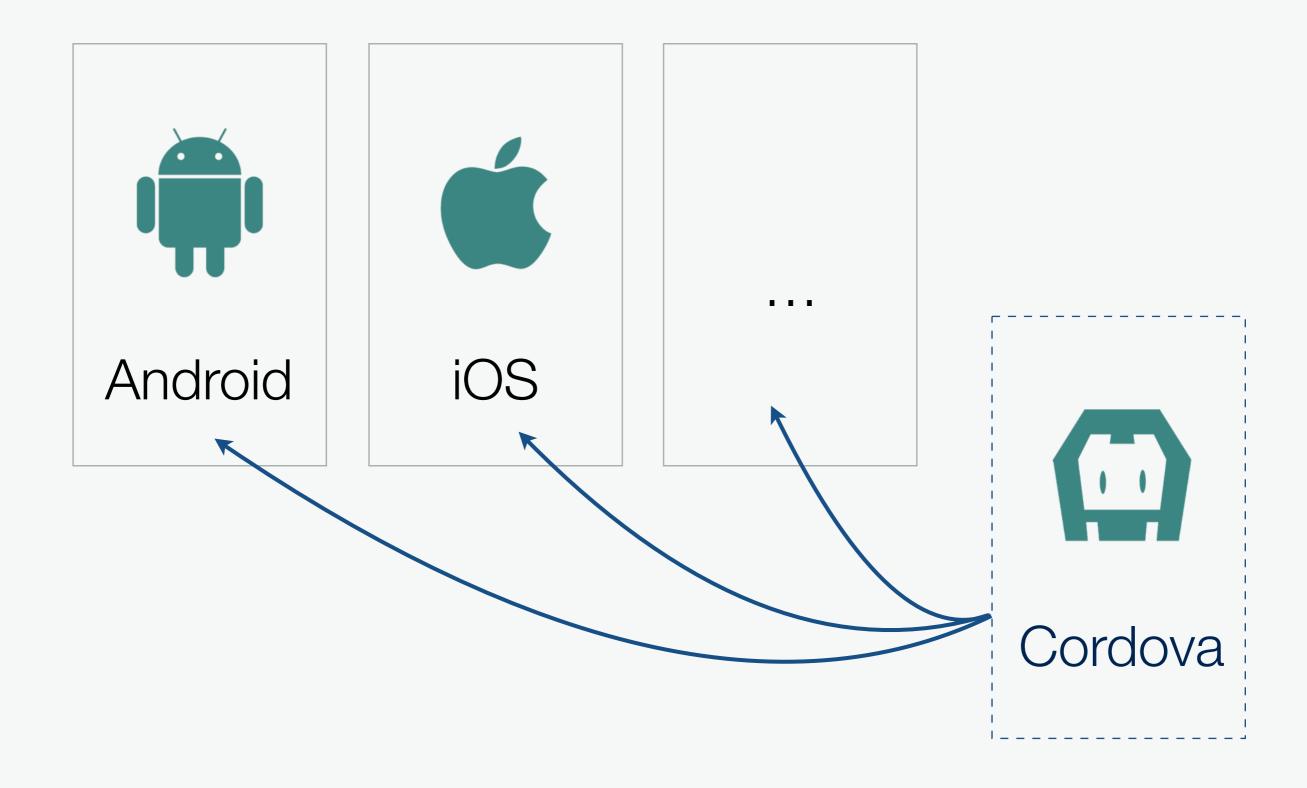
# Mobile App Development







# Mobile App Development



### iOS Fundamentals

- Languages: Swift or Objective-C
- Platforms: Mac OS X, (Linux)
- IDE: Xcode 7 (Mac users only)
- Create high quality native apps
- UlKit as an Ul framework
- Swift is very easy to learn
- Tones of documentation and tutorials

### **Android Fundamentals**

Language: Java

Platform: Android

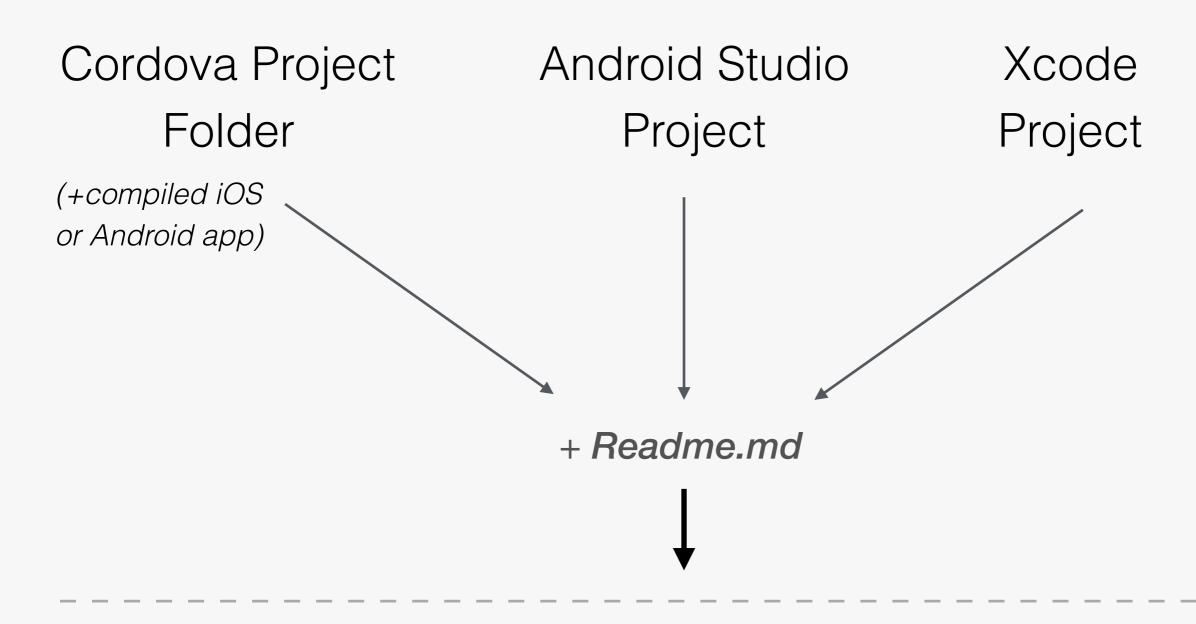
IDE: Android Studio 2.0

 Google has less restrictions as to what kinds of apps make it to their store

#### Cordova Fundamentals

- Language: HTML, CSS, JavaScript (jQuery, Angular etc)
- Platforms: all
- IDE: your favorite code editor (syntax highlighting)
- Ionic as the UI Framework (look and feel of a native app)
- Target multiple platforms (Android, iOS, Windows, Blackberry, Fire OS, ...) with one code base

# Assignment A2



**Moodle Upload** 

#### **Android Submission**

Functionality and design of your Android app will be evaluated with the following device (simulator):



Nexus 5X

Android 5.1 Lollipop

5.2" 1080x1920 420dpi

API-Level: 22

ABI: x86

(Android Studio 2)

Moodle Upload: Android Project + Readme.md

### iOS Submission

Functionality and design of your iOS app will be evaluated with the following device (simulator):



iPhone 6S

iOS 9

4.7" 1334x750 420dpi (*Xcode 7*)

Moodle Upload: Xcode Project + Readme.md

# iOS Prerequisites

- ✓ Device with Mac OS X
- ✓ Xcode 7 is installed
- ✓ Signed up for the Apple Developer Program

#### Xcode 7

- Development environment for Mac OS X and iOS apps
- Available for free in the App Store
- Programming Languages: Swift and Objective-C



iOS Interface Builder



iOS Simulator

```
let myConstant = 10
```

... Constant

```
var myVariable = 40.5 ... Variable
```

myVariable = 80.9

```
let myConstant = 10

var myVariable = 40.5

myVariable = 80.9

print("Price: " + String(myVariable))
```

```
let myConstant = 10

var myVariable = 40.5

myVariable = 80.9

print("Price: " + String(myVariable))

print("Price: \((myVariable)")
```

```
let myConstant = 10

var myVariable = 40.5

myVariable = 80.9

print("Price: " + String(myVariable))

print("Price: \((myVariable)"))

let explicitDoubleConstant: Double = 10
```

```
let myConstant = 10

var myVariable = 40.5

myVariable = 80.9

print("Price: " + String(myVariable))

print("Price: \((myVariable)"))

let explicitDoubleConstant: Double = 10

var fruits = ["Apple", "Banana", "Orange", "Mango"]
```

### Swift Control Flows

- if/else, switch statements
- for and while loops
- functions

```
func greet(name: String, day: String) -> String {
    return "Hello \(name), today is \(day)."
}
greet("Anna", day: "Tuesday")
```



Getting started