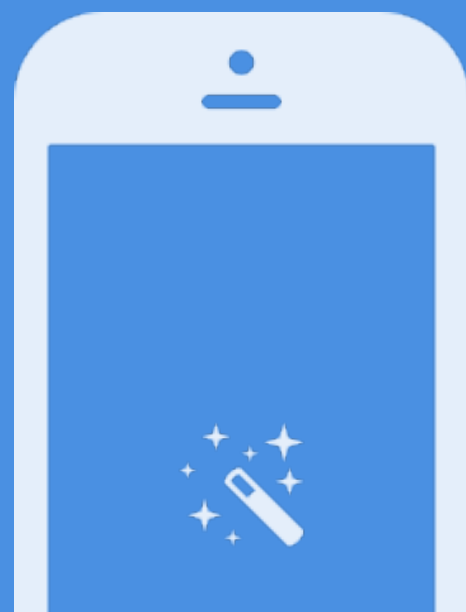# iOS Crash Course

Session One
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iOSCrashCour.se

Welcome

Welcome

- Welcome to the first session of iOS Crash Course!

- And this is an **introductory iOS app development course**

Before We Get Started

- My name is Janum Trivedi

- Developing for iOS ~4 years

- Enabled me to see a problem or find an idea, and **turn it into something real**

Why?

- Why am I here?

- We've all had great ideas–

  - "What if there was an app that did *x*?"

  - or even, "What if there was an app that did x *better*?"

Why?

- I want you to be able to make that app **yourself**

- So by coming here today, you've taken the first step in becoming that person

  - A builder, a creator, an app developer

Quick Poll

Class Overview

- What are we going to be learning?

- For the next **6 weeks, on Tuesdays and Thursdays**, we will be learning the essential concepts and skills of creating apps

- Both theory and execution

Class Overview

- Xcode (IDE)

- Objective-C

- Cocoa Frameworks

- Best Practices

Class Overview

- Xcode (IDE)

- Objective-C

- Cocoa Frameworks

- Best Practices

- This is how this course is structured

- First the tools, then the language, then combining the two

Class Overview

- Very hands-on approach

  - Value in doing vs. just listening

  - Experience comes before knowledge

- Most sessions will start with a few slides to introduce a new concept, then we'll use Xcode and **write code**

Nota Bene

- On "going through the motions":

- **Do it** even when you don't *fully* understand why or how something works

- Feeling lost is **normal,** so **do not** be discouraged

Nota Bene

- If something seems unclear or very under-explained, remember I am intentionally **not** giving you **all** the knowledge from the start

  - (because that would be insane)

- Some concepts or ideas will be best explained later when it comes up directly

Quick Example

(This is <u>just</u> an example, we're not learning this yet)

- ex. Class member variables in C++ vs Objective-C:

- `string str;`

- `@property (nonatomic, strong) NSString* str;`

Quick Example

- @property (nonatomic, strong) NSString* str;

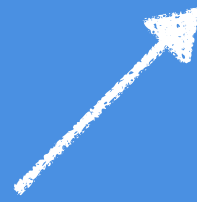   ↑   ↑   ↑   ↑

  ?   ??   ???   Oh, it's a string.

Quick Example

- `@property (nonatomic, strong) NSString* str;`

We will cover this later, don't worry!

Oh, it's a string.

Yay Logistics

- Everyone's favorite topic

- This course meets **twice a week** for **6 weeks**

  - *Tuesday and Thursday evenings*

- [Most] Tuesdays are here in **Rackham**, but [most] Thursdays will be in the **USB** (Undergraduate Science Building)

Yay Logistics

- For the exact time and location of each Session, **please check the website:**

- ## www.iOSCrashCour.se

Yay Logistics

- This course, and the material we'll cover is taught **sequentially**

- Every session builds upon the previous

- Lecture recordings (?)

What should you know?

- This is an Intro to iOS Development course

  - No prior Objective-C experience required

- However, this is not an introduction to programming course

- Loose, suggested pre-req: EECS 183/ENG 101/ Codecademy

What should you know?

- You do not need to be experienced in **Software Engineering**, but you should be comfortable with basic concepts like:

  - Variables, loops, functions, classes, etc.

- We will do some light review (esp. because I have to teach these concepts in a new language)

What do you need?

- A **Mac** running OS X 10.9+

    - Yes, you really do need a Mac

- **Xcode 6 <u>(link)</u>**

Diving In

- With most languages, a "Hello World" program gives a general sense of the environment

- Different with iOS development (we'll see why)

- But, let's make a Hello World app anyway and get a taste