

Mobile Apps Development for Journalists

Week 2 - Fall 2019

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School of Journalism

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Agenda

- Reminder: Assignment 1 Due Next Week
- Apps Video
- Programming Languages
- Learning Swift
- Swift Tutorial

Apps Video

- <https://developer.apple.com/videos/play/wwdc2017/101/>
- Just the first few minutes

Learning to Code!

- Not just this class
- <https://www.freecodecamp.org/>
- <https://www.theodinproject.com/>
- <https://www.meetup.com/Learn-to-Code-Austin/>

(Some) Programming Languages

- Python
- Javascript
- Ruby
- PHP
- Java
- Swift
- C# (C Sharp)

Pick one of the languages and find these things

- A website to help you learn that language - getting started guides, helpful tutorials, etc.
- A video class to help you learn
- A meetup in Austin (or your hometown, if you want)
- Their big conference in the US (and the price for a student to go)
- A fun fact!

Learning Swift

- Working on Swift together with <http://online.swiftplayground.run/>
- Lesson 1.2, 1.3, 1.4 in "App Development with Swift"
- Variables and Constants
- Type Inference
- Math
- If Else
- Functions

Variables

- Single = sign to *assign* a variable
- `var city = "Austin"`
- `var age = 21`

Constants

- `let state = "Texas"`
- Can't change the value of a constant

Types and Type Safety

- String
- Int
- Double
- Boolean

Type Inference

- If a type isn't declared, then Swift can figure it out (*infer*) the data type from the value assigned to it
- "Jeff"
- 13.1

Math

- Standard arithmetic - $+$, $-$, $*$, $/$
- Modulo operator - $\%$

if else

- ```
if age >= 18 {
 isAdult = true
} else {
 isAdult = false
}
```
- Operators (`==`, `!=`, `>`, `<`, `&&`, `||`)

# Functions

- ```
func isAdult(age:Int) -> Bool {  
  if age >= 18 {  
    return true  
  } else {  
    return false  
  }  
}
```
- name, arguments, data type, return value

Swift Tutorial

- <https://www.raywenderlich.com/143771/swift-tutorial-part-1-expressions-variables-constants>
- <https://www.raywenderlich.com/6364-swift-tutorial-part-2-types-and-operations>
- I'll go through this with you
- Different take on the same things as we discussed and in the book
- Ignore the left shift and right shift discussion, also ignore tuples in part 2

Coding for iOS Demo

- I'm going to walk through coding an iOS app with Xcode

Wrap Up

- We did some of the basics with Swift
- Next week, we'll do more with Swift, and also work with some of the iPhone App Development tools for making actual apps