### An Introduction to Swift

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DevFountain

### About Me

- Software Engineer
- Swift since 2014
- DevFountain in 2015
- Two apps in the App Store







# Today's Session

- What is Swift?
- How do I get started?
- What resources are available?
- Demos

### What is Swift?

- Developed by Apple Inc.
- iOS, macOS, watchOS, tvOS, and Linux
- Ported to FreeBSD, Raspberry Pi, Android, and Windows

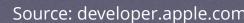
### macOS iOS watchOS tvOS











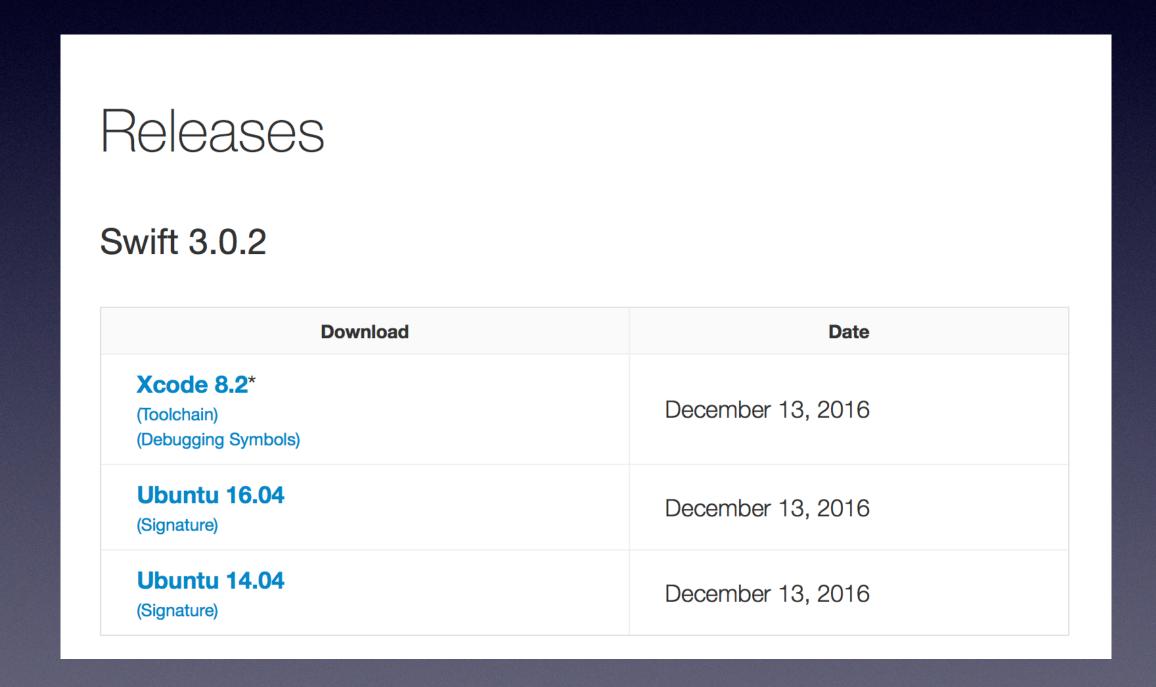
### What is Swift?

- Publicly released in September 2014
- Open sourced in December 2015
- One of the most popular programming languages in the world



# How do I get started?

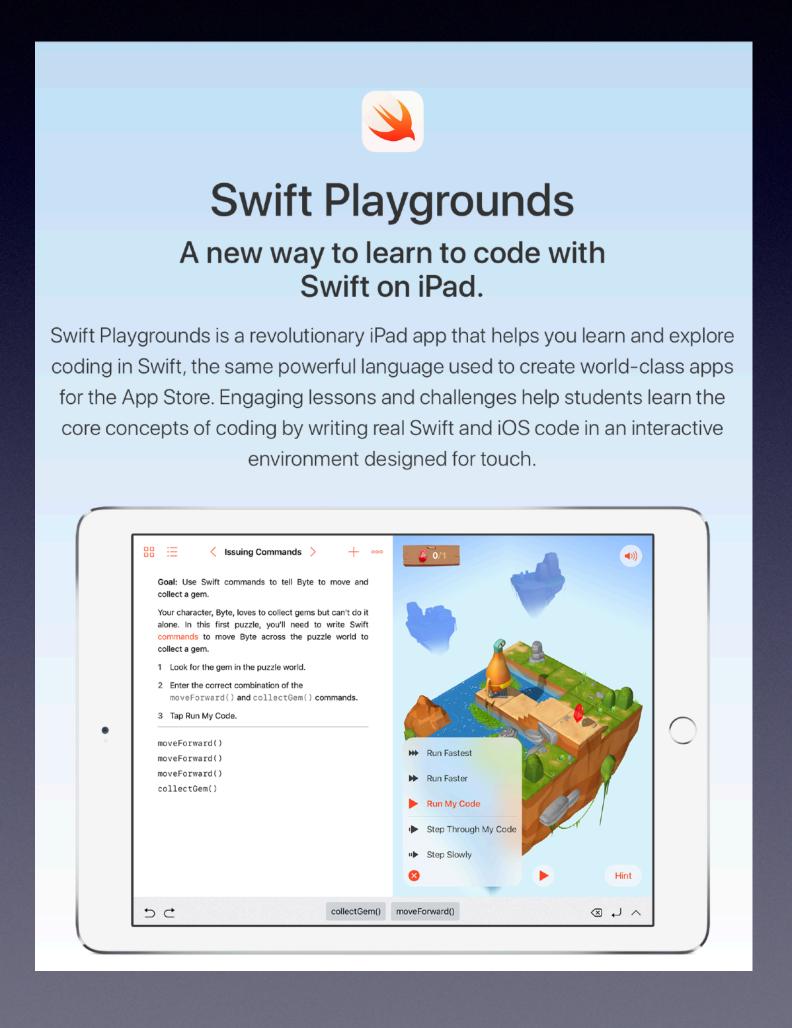
- Download and install Swift
  - https://swift.org/download/#releases
  - Requirements
    - macOS 10.11 (El Capitan) or later
    - Ubuntu 14.04 or 16.04 (64-bit)



To submit to the App Store you must build your app using the version of Swift that comes included within Xcode.

# How do I get started?

- Swift Playgrounds
  - https://developer.apple.com/swift/playgrounds/
  - Requirements
    - An iPad with iOS 10 or later



### What resources are available?

- Apple Developer Swift Resources
  - https://developer.apple.com/swift/resources/

### Presentations, Documentation, and Sample Code

### **Guides and Reference**

Get detailed information on Swift with a comprehensive reference and set of programming guides.

- App Development with Swift (iBooks Store)
- Swift Programming Series (iBooks Store)
- Swift Playgrounds Document Format
- Starter Playgrounds Book
- ☐ The Swift Programming Language (Swift 3)
- Using Swift with Cocoa and Objective-C (Swift 3)
- Swift Standard Library Reference
- Start Developing iOS Apps (Swift)
- Using Swift with Cocoa and Objective-C

### Sample Code

Download samples that show how Swift code works.

- Swift Standard Library.playground
- Crustacean.playground
- {} DemoBots: Building a Cross Platform Game with SpriteKit and GameplayKit
- {} Lister (for watchOS, iOS, and OS X)
- {} UlKit Catalog: Creating and Customizing Controls for iOS

### Videos

Watch videos from WWDC to learn about the latest with the Swift programming language.

- What's New in Foundation for Swift
- What's New in UlCollectionView in iOS 10
- What's New in Swift
- Swift API Design Guidelines
- Getting Started with Swift
- Going Server-side with Swift Open Source
- Understanding Swift Performance
- Protocol and Value Oriented Programming in UlKit Apps
- Concurrent Programming With GCD in Swift 3
- Introducing Swift Playgrounds
- View more videos

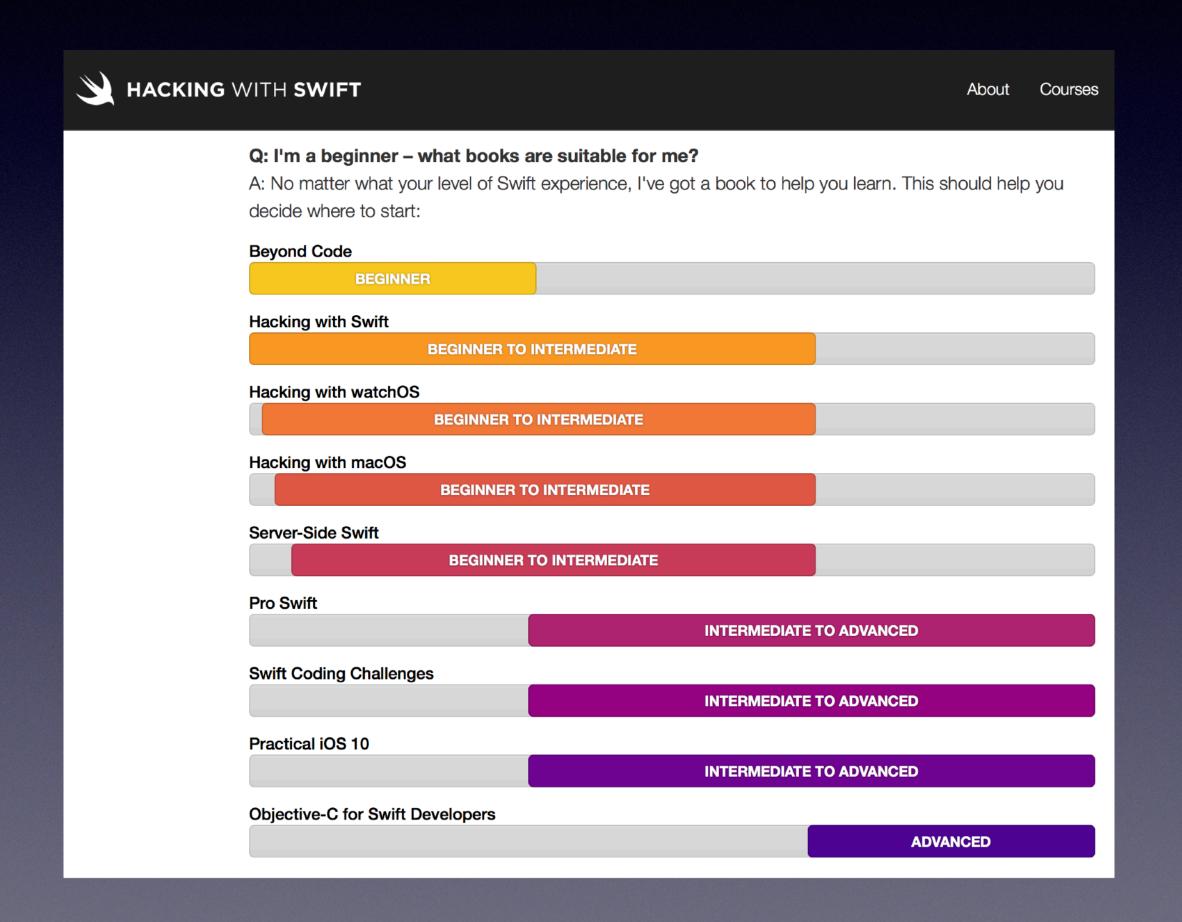
### **iTunes U Courses**

Learn how to build apps by following lessons from internationally recognized universities on iTunes U.

- Stanford University: Developing iOS 9 Apps with Swift
- Plymouth University: iOS Development in Swift

### What resources are available?

- Paul Hudson Hacking with Swift
  - https://www.hackingwithswift.com/



Tip Calculator

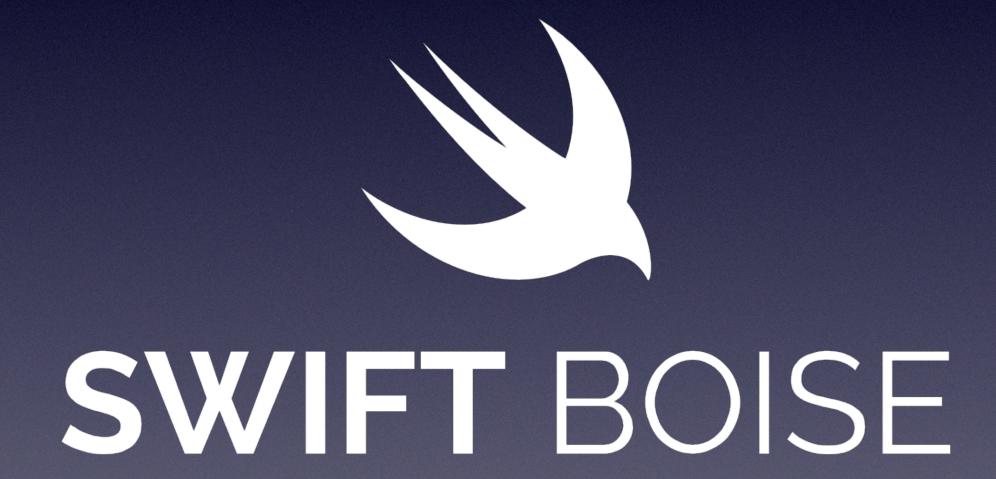
Tap Counter

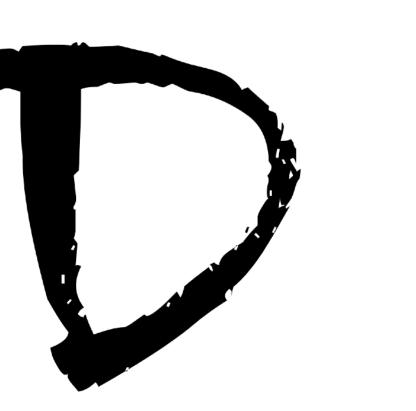
Server-Side Swift

Swift Playgrounds

# A local group

- Swift Boise
  - https://swiftboise.com/
  - @SwiftBoise





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