ANINTRODUCTIONTOTHE SWIFT PROGRAMMING LANGUAGE

Speaker: Timirah James

Tech Evangelist Founder, TechniGal LA



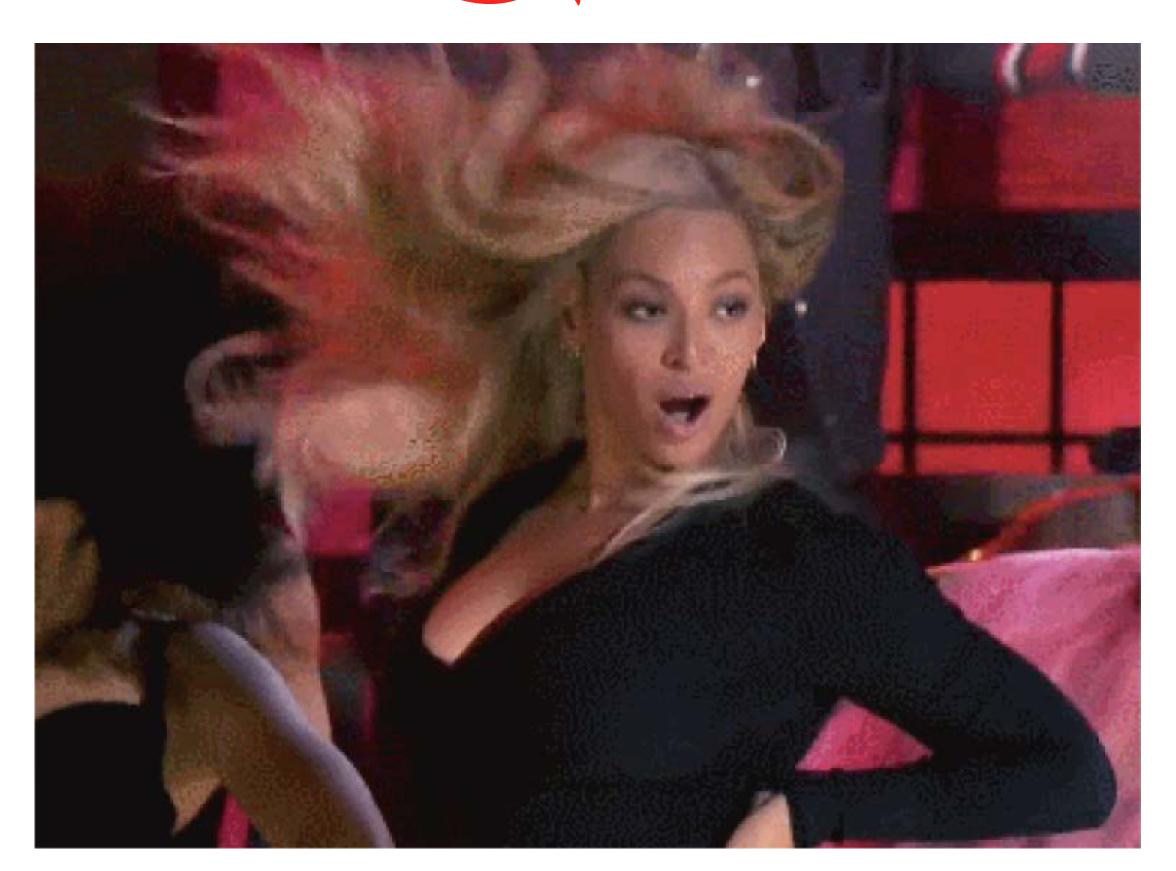




So let's jump right in!



Swift Est. 2014



Beginners

Initializing: Obj-C vs. Swift

Obj-C

```
Person *myFriend = [[Person alloc]init];
Person *myFriend = [[Person alloc]initWithName:@"Ted"];
```

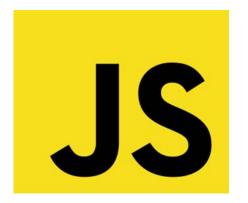
Swift

```
let myFriend = Person()
let myFriend = Person(name: "Ted")
```

Catchy Syntax



var name = "Jacob"





var name = "Jacob";

name = "Jacob"

Interoperability

Some Python code like this:

```
import sys

print(f"Python {sys.version_info.major}.{sys.version_info.minor}")
print(f"Python Version: {sys.version}")
print(f"Python Encoding: {sys.getdefaultencoding().upper()}")
```

Can be implemented in Swift through PythonKit with the following code:

```
import PythonKit

let sys = try Python.import("sys")

print("Python \((sys.version_info.major).\((sys.version_info.minor)"))
print("Python Version: \((sys.version)"))
print("Python Encoding: \((sys.getdefaultencoding().upper())"))
```





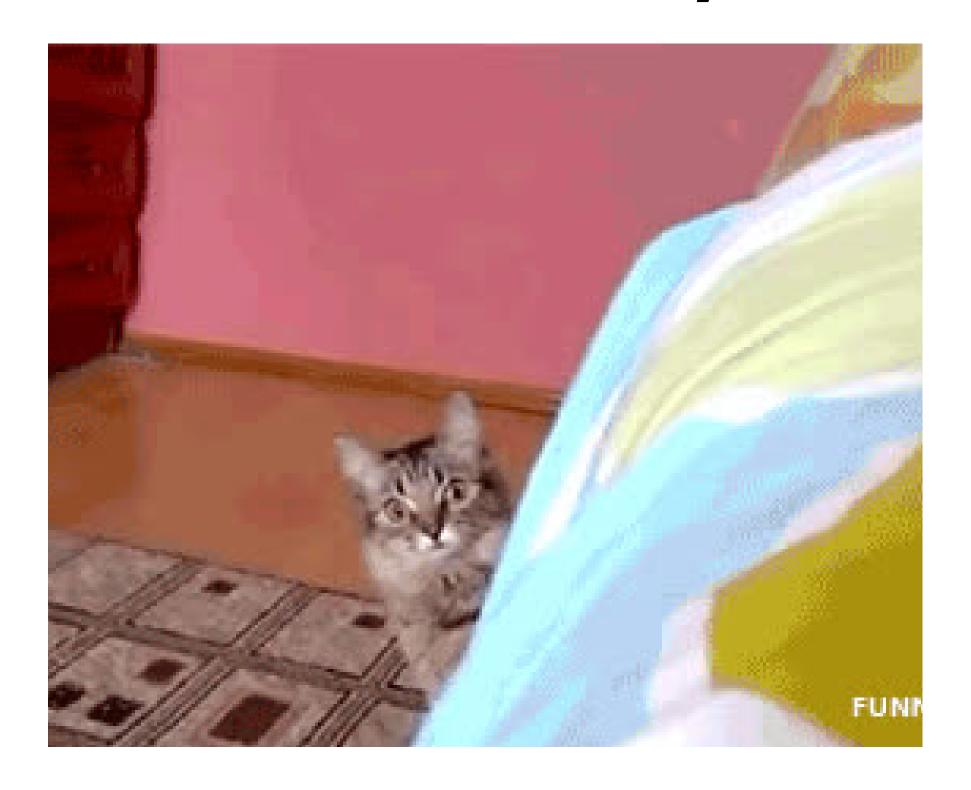
Optionals ?!

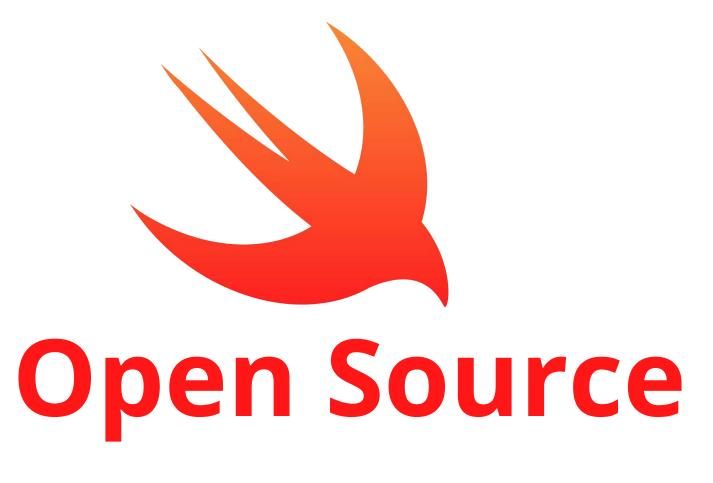
Checks for and protects values when compiling.

var username: String!

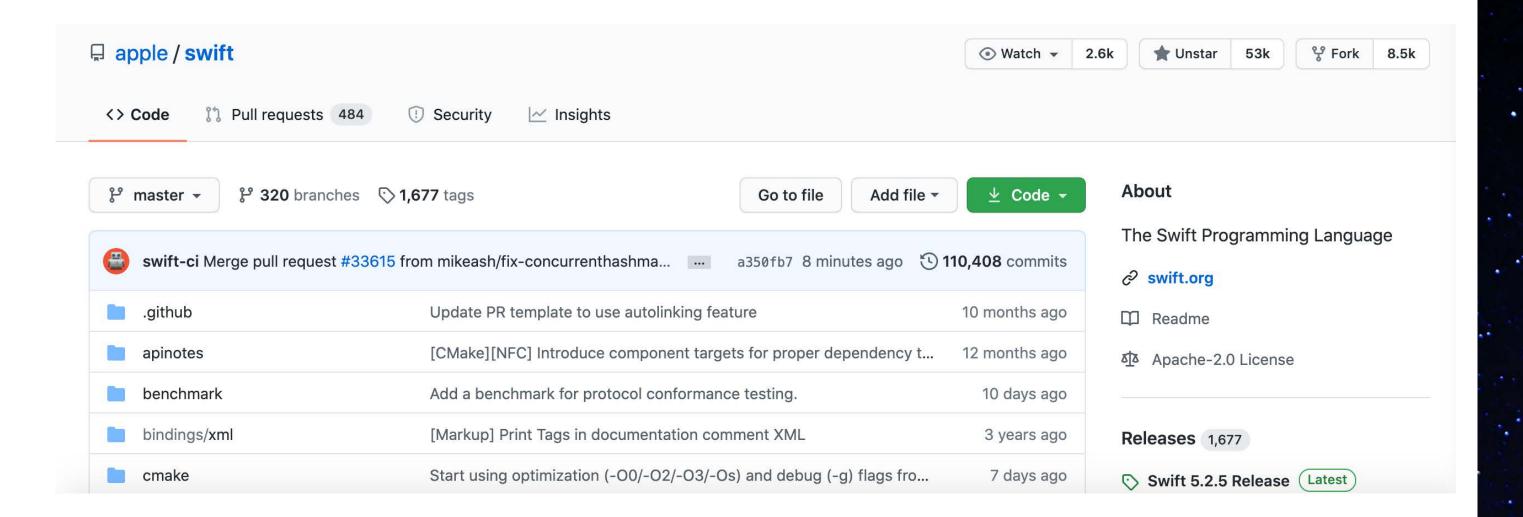
var followers: Int?

Then, in 2015...









- 800+ Contributors
- 100k+ Commits
- 1600+ Releases to date
- 8.5k Forks
- 500 Pull Requests



Server-Side Swift

• Transcend beyond "just Apple", and into the serverless realm

• Multiple IDEs (Xcode, Sublime, Atom, CodeRunner)

Adding End-to-End Capabilities

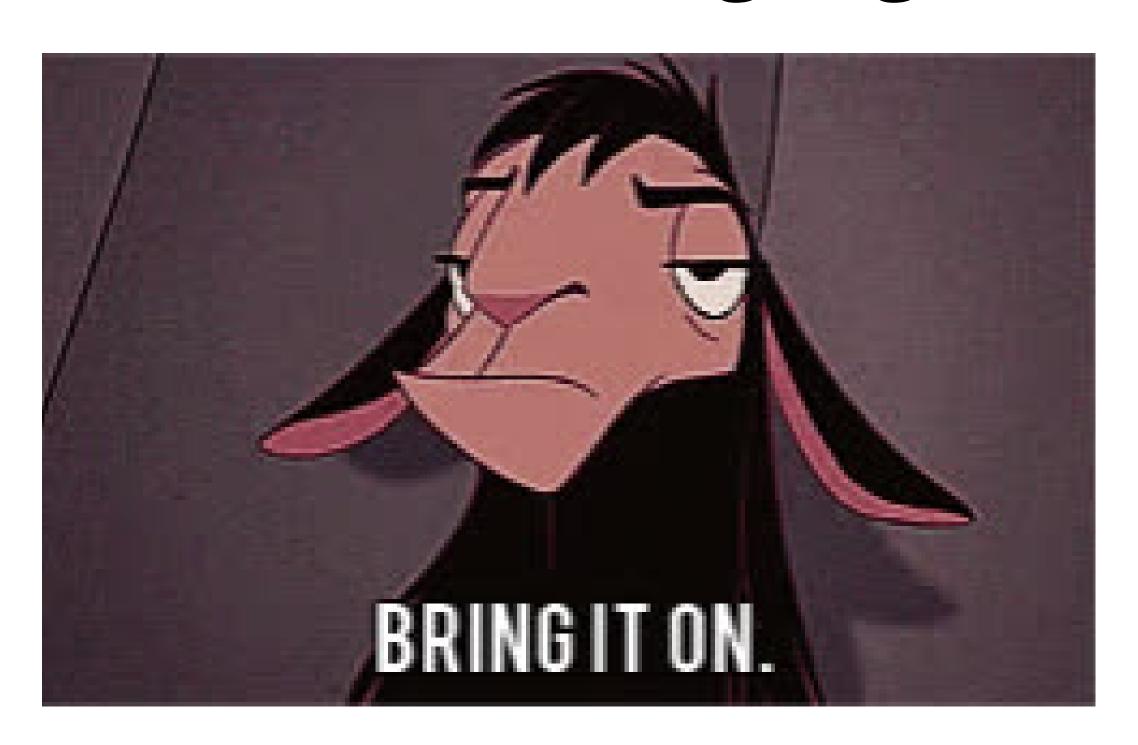








Swift vs. Your Favorite Backend Language



Performance

Swift vs. Node.JS

Swift vs. Ruby

<u>https://benchmarksgame-</u> team.pages.debian.net/benchmarksgame

Swift vs. Java

Top 10 Language to learn

What are *your* priorities as a developer?

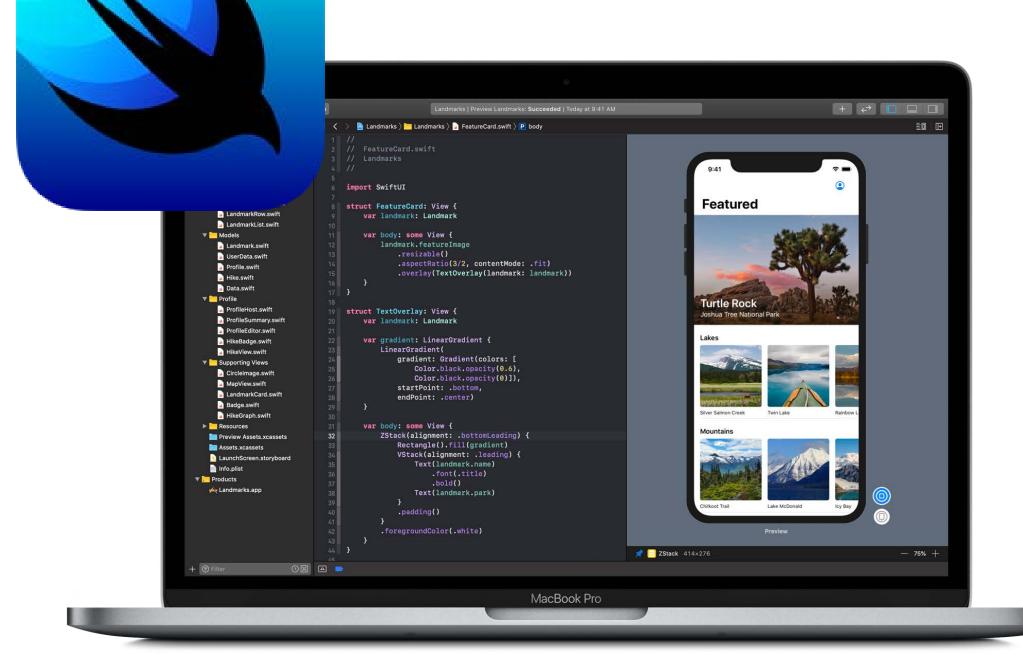
The Future of Swift...

- Easier to read
- Growth in Open Source
- More performant + type-safe
- Server-side
- Microservices
- Containerization

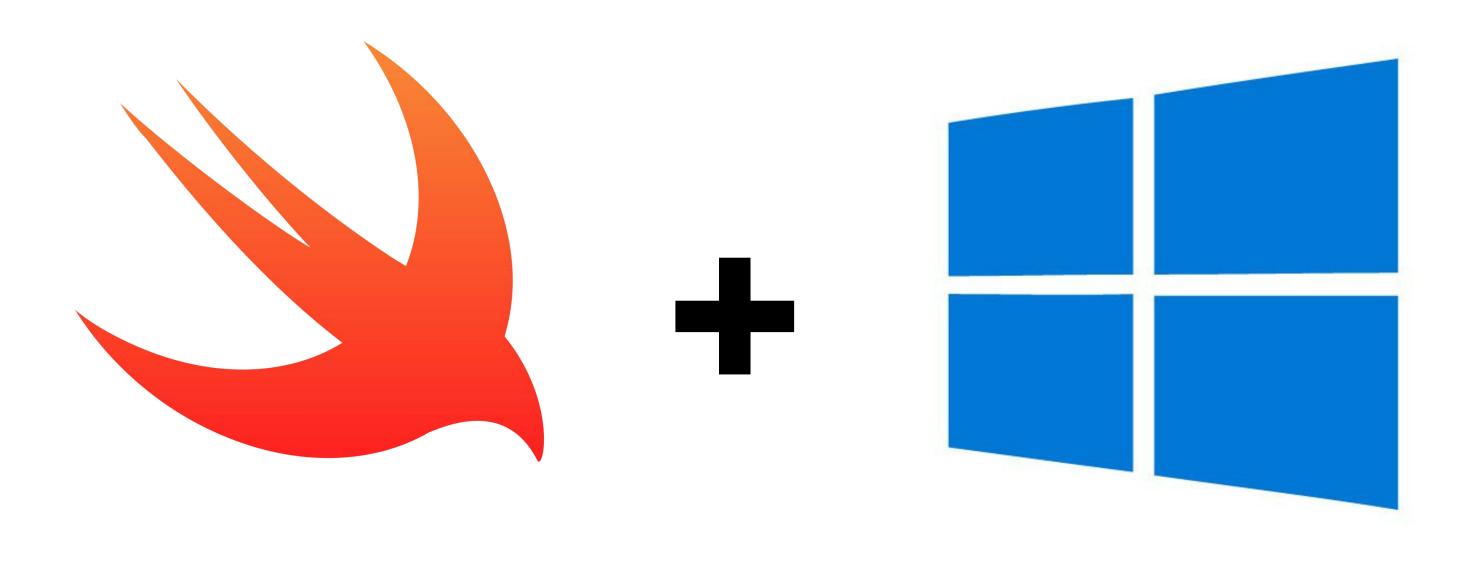


SwiftUI

A popular new declarative framework released with iOS13 used to create user interfaces in Swift.



Swift for Windows



How <u>relevant</u> is Swift in the industry?

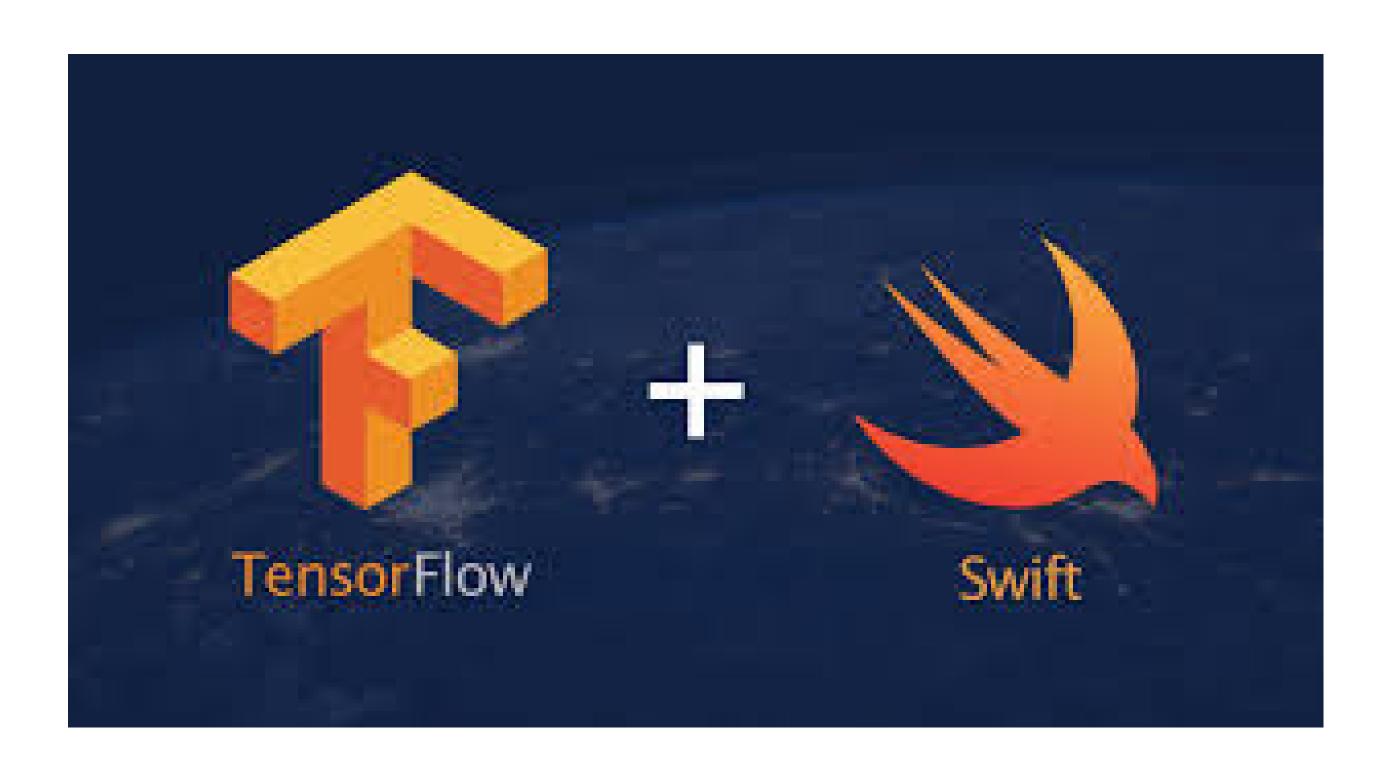
Machine Learning



VS.



Swift for Tensorflow





- iOS Devs
- **Backend Devs**
- (V) Mid-level Devs
- **ObevOps Engineers**

- **Senior Devs**
- **Junior Devs**
- **Front-End Devs**
- **ODATA Scientists**

What are *your* priorities as a developer?

Learn More + Get Started!

- Swift.org
- Apple Documentation
- RayWenderlich.com
- HackingWithSwift.com
- O'Reilly

Top 10 Language to learn... 2021 and beyond!

THANKYOU



Slides Available: github.com/timirahj/AllThinsOpen2020

