Anton McConville

Developer Advocate - IBM Bluemix

@antonmc
What’s in store …

why swift?

working with swift

demo and walkthrough

future steps

swift workshop - @antonmc
why swift?
Swift. A modern programming language that is safe, fast, and interactive.

Swift is a powerful and intuitive programming language for iOS, OS X, tvOS, and watchOS. **Writing Swift code is interactive and fun, the syntax is concise yet expressive, and apps run lightning-fast.** Swift is ready for your next project — or addition into your current app — because Swift code works side-by-side with Objective-C.
Full stack

Compiled
Full stack

Compiled

Future friendly?

api
working with swift
where to get it ...

swift.org
compatibility
compatibility

early days still

linux

OS X
package manager
Swift organizes code into **modules**. Each module specifies a namespace and enforces access controls on which parts of that code can be used outside of the module.

A program may have all of its code in a single module, or it may import other modules as **dependencies**.
A package consists of Swift source files and a manifest file.

The manifest file, called Package.swift, defines the package's name and its contents using the PackageDescription module.

A package has one or more targets. Each target specifies a product and may declare one or more dependencies.
import PackageDescription

let package = Package(
    name: "project",
    targets: [],
    dependencies: [
                 majorVersion: 1),
    ]
)
project
  └── Sources
      ├── main.swift
      │    └── another.swift
      │         └── stuff.swift
      └── Package.swift
> swift build
build

project
  └── .build
    └── debug
        └── project.a
        └── project.o
        └── project.swiftdoc
        └── project.swiftmodule
> .build/debug/Server
demo and walkthrough
future steps
Kitura

web framework
Kitura

Swift 3

evolution
Bluemix & Swift

http://www.ibm.com/cloud-computing/bluemix/swift/
open swift packages

https://swiftpkg.ng.bluemix.net/
This workshop

[GitHub Logo]

https://github.com/antonmc/swift-workshop
thanks :)