



Talk

Using the Swift Package Manager on iOS

Swift Dependency Management

iOS

CocoaPods



Carthage



Swift Dependency Management

ios

Linux

CocoaPods

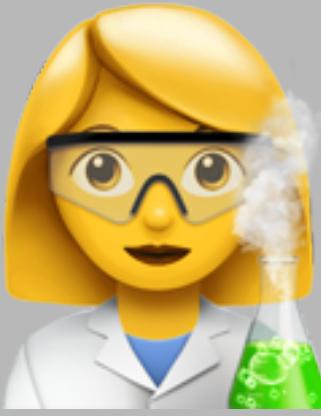
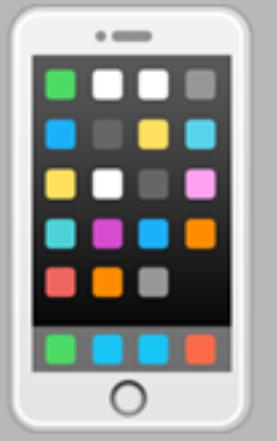


Carthage



SPM





Swift Dependency Management

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Carthage



SPM



HOWTO: SPM on iOS

- You have an SPM dependency
- ?
- Profit: Use as a dependency in your iOS project

HOWTO: SPM on iOS

- Create a shim SPM package to wrap your dependencies
- Write a `Package.swift` referencing your desired dependencies

```
// swift-tools-version:4.0

import PackageDescription

let package = Package(
    name: "SPM",
    products: [.library(name: "SPM", targets: ["SPM"])],
    dependencies: [
        .package(url: "git@github.com:OpenKitten/MongoKitten.git", from: "4.0.0")
    ],
    targets: [
        .target(name: "SPM", dependencies: ["MongoKitten"]),
    ]
)
```

1. Write a `Package.swift` referencing your desired dependencies
2. Run `swift package generate-xcodeproj`
3. Reference generated Xcode project from your app project

Frond

SPM.xcodeproj

Frond

Products

Pods

Frameworks

Pods

General Capabilities Resource Tags Info Build Settings Build Phases Build Rules

PROJECT TARGETS

Frond

Frond

Embedded Binaries

- Schrodinger.framework ...in build/Debug
- MongoSocket.framework ...in build/Debug
- GeoJSON.framework ...in build/Debug
- MongoKitten.framework ...in build/Debug
- BSON.framework ...in build/Debug
- CryptoKitten.framework ...in build/Debug
- ExtendedJSON.framework ...in build/Debug
- Cheetah.framework ...in build/Debug

+ -

Linked Frameworks and Libraries

Name	Status
BSON.framework	Required ▾
MongoKitten.framework	Required ▾
MongoSocket.framework	Required ▾
CryptoKitten.framework	Required ▾
Schrodinger.framework	Required ▾
GeoJSON.framework	Required ▾
Cheetah.framework	Required ▾
ExtendedJSON.framework	Required ▾
Pods_Frond.framework	Required ▾

General Capabilities Resource Tags Info Build Settings Build Phases Build Rules

PROJECT TARGETS

Frond

+

Filter

Target Dependencies (8 items)

- MongoKitten (SPM)
- ExtendedJSON (SPM)
- Schrodinger (SPM)
- CryptoKitten (SPM)
- Cheetah (SPM)
- BSON (SPM)
- MongoSocket (SPM)
- GeoJSON (SPM)

+ -

- Build and Enjoy
 - Nitty gritty:
 - Audit for non-ios compatible code



- MongoDB client using Mongokitten (SPM package) and CocoaPods
- 🌎 <https://github.com/flufff42/Frond>
- You can ship this to the store

demo

Edit

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● App Builders

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Frond

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Caveats

- Reliance on C dependencies can break this approach:
Pure Swift works best here.



Using the Swift Package Manager on iOS

How to build a MongoDB client with Mongokitten

Fin

@flufffel