iOS Dependency Manager

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Intro

Since now, Developer has more choices when creating project in Xcode
Comparing Package Manager in iOS since git submodules to Swift PM
Give a key benefits and disadvantages too





Intro

- Using Third Party in Project If not, You are awesome
- Comparing many in development
 - Rubygems for Ruby
 - NPM for NodeJS
 - o etc.





What are the options in iOS Development

- Git Submodule (Recommend by Apple since iOS 5)
- Cocoapods (Great Third party)
- Carthage (Also great third party) □
- Swift Package Manager (Official way since Swift 3.0)

Git Submodule

Pros

- No required third party (Not rely on them)
- No installing additional tools
- No waiting third party updated (git branch checkout)
- Most resistant to breaking changes
- Flexible

Git Submodule

Cons

- Required some skill to set it up
- Hard work of resolving conflict
- Hard to config for every third party dependencies (Have to read docs)
- Hard for versioning

(COCOAPODS)

- Base on Ruby gem (which is default in Mac)
- Create Podfile and using command to handle it
- Required to install pod command

(COCOAPODS)

Pros

- Provide you as easy setup and use
- Provide you a lot of setting for you
- Well grown community and support (32 k libs)
- Already Handled for newer version

(COCOAPODS)

Cons

- Invasive (Modify your project a lots)
- Centralized (Like Maven or another)
- Required 2 processes
- Loss of flexibility

Carthage

- Ruthlessly simple dependency management.
 (Simple setup between Git and Xcode)
- This is in contrast to Cocoapods
- Required brew

Carthage

- Pros
 - Decentralized
 - Non-invasive
 - Support as submodules

Carthage

- Cons
 - o Unstable
 - o Slow
 - Very least libraries
 - Inflexible

Swift PM

- As a part of Swift open source
- Release along with Swift 3.0

Swift PM

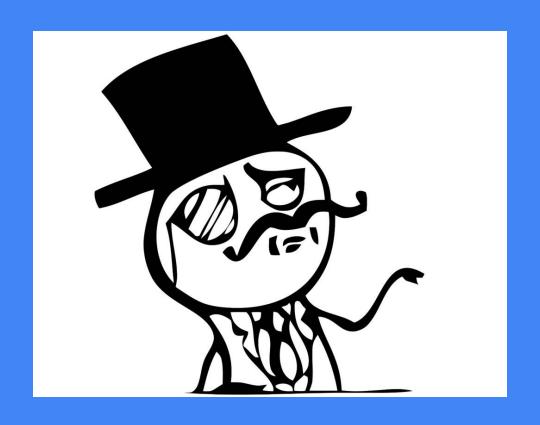
- Pros
 - Decentralized
 - Official PM for Swift and Managed by Apple
 - Future proof
 - Server Side and Cross Platform

Swift PM

- Cons
 - Not All Third Party ready for it
 - Too new, not all features work

Note that at this time the Package Manager has no support for iOS, watchOS, or tvOS platforms.

Demo And Summary



Thanks!

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