

06. Dependency management

DON'T REINVENT THE WHEEL

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**Someone probably
did it already.**

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01

Dependency managers

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What are they?

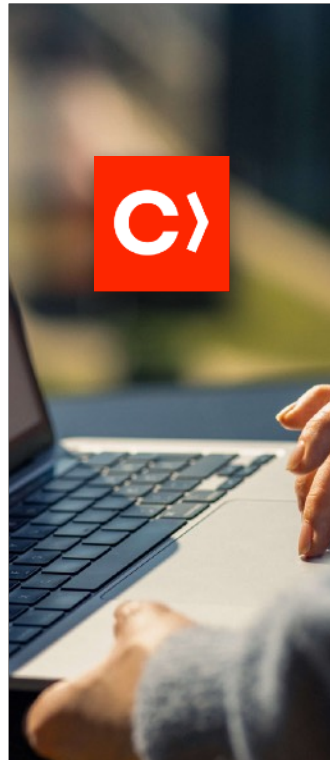


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- Fancy title for third party **library managers**
- The most used ones for iOS are CocoaPods, Carthage and Swift Package Manager
- **Swift Package Manager** is the new kid in town
- You can avoid them entirely, but why resort to manual problem fixing? :)
- **CocoaPods** are the preferred manager for the course

- If you are coming from .Net -> NuGet
- If you are coming from Java -> Maven
- If you are coming from Ruby -> Gem
- If you are coming from Debian -> apt



Basic info

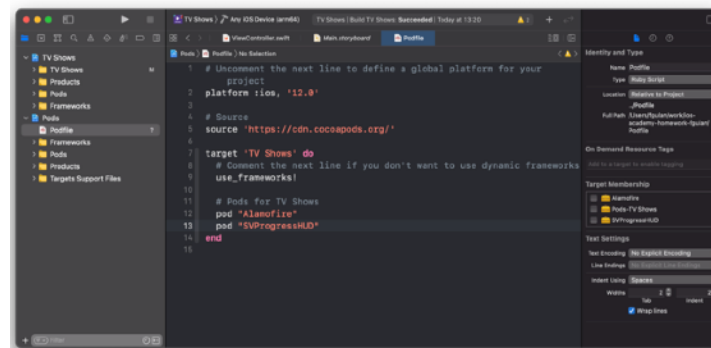
- <https://cocoapods.org/>
- Has a desktop app, but most of us use it through **Terminal**
- Very easy target management
- Configured through **Podfile**
- Keep Pods in your git repo

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We always push all of the dependencies to git

The Podfile

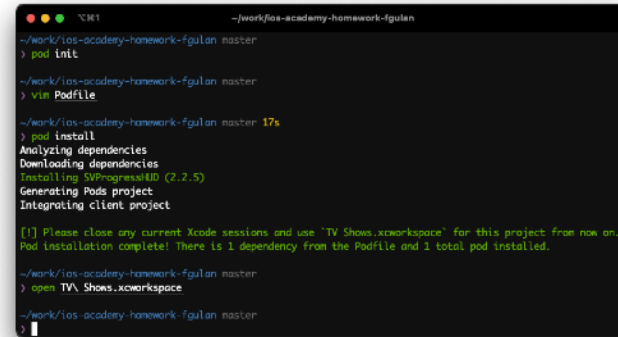


- A list of pods (libraries) to be used for a certain target
- Configurations for certain target

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Terminal Commands



```
~/work/ios-academy-homework-fgulan master
> pod init
~/work/ios-academy-homework-fgulan master
> vim Podfile
~/work/ios-academy-homework-fgulan master 17s
> pod install
Analyzing dependencies
Downloading dependencies
Installing SVProgressHUD (2.2.5)
Generating Pods project
Integrating client project
[!] Please close any current Xcode sessions and use 'TV Shows.xcworkspace' for this project from now on.
Pod installation complete! There is 1 dependency from the Podfile and 1 total pod installed.

~/work/ios-academy-homework-fgulan master
> open TV\ Shows.xcworkspace
~/work/ios-academy-homework-fgulan master
>
```

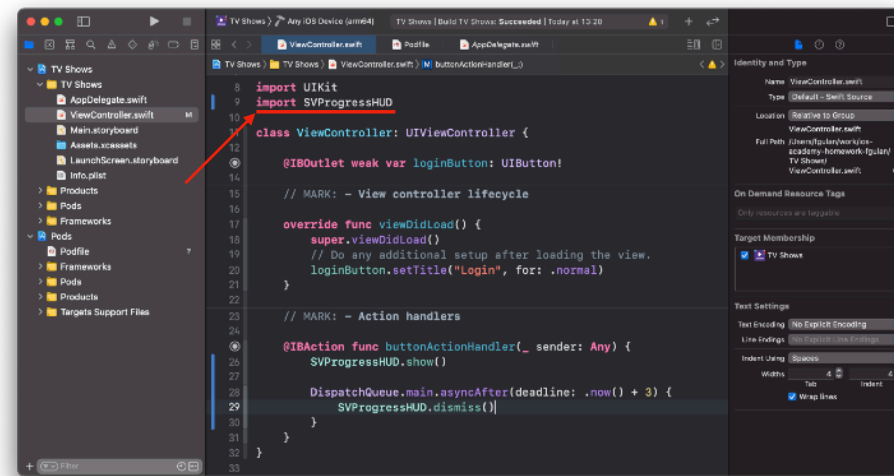
- pod init
- pod install
- pod update
- pod try `name of the lib`

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- pod init will create an empty `Podfile` inside your project directory
- pod install will install third party frameworks that you add, and it will create a new project and a workspace
- pod update will update existing pods
- pod try will download the framework that you want to test, and create a test project for it

Importing Pods



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- Here you can see it in action ;)
- Image here is on purpose, so that you train your muscle memory
- Here we also use DispatchQueue class cluster which is part of GCD
- GCD – Grand Central Dispatch
 - abstraction over threads

02

Other options

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Carthage



- Doesn't create an **.xcworkspace**
- Libraries are compiled and need to be added **manually**
- Somewhat **lighter** on your project
- Much **harder** to debug

Swift Package Manager



- **Native** "client" (Apple Solution)
- Libraries are stored in **DerivedData** (Local cache)
- CocoaPods **replacement** in future

Manually



- Probably **not** the way you want to do stuff
- Even if you need a custom flavour library, it's **easier** to manage it with a **pod**
- Keeping track of updates is a **PITA**

Demo time

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