06. Dependency management

DON'T REINVENT THE WHEEL

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Someone probably did it already.

01

Dependency managers

What are they?
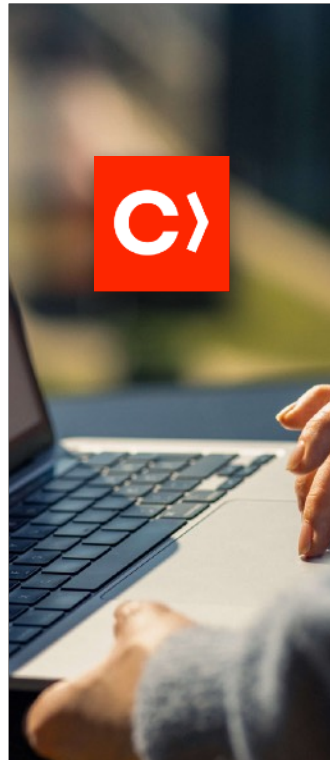
- Fancy title for third party **library managers**

- 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
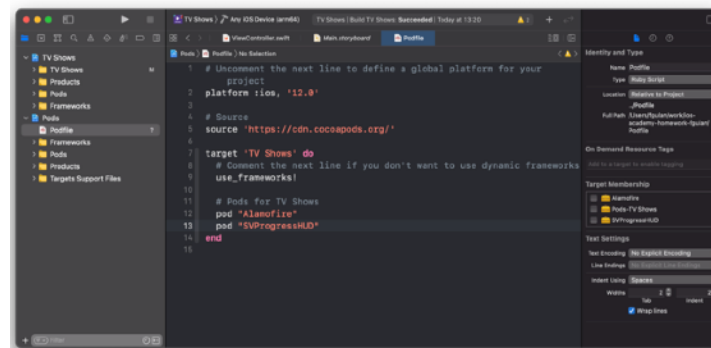
Basic info

- 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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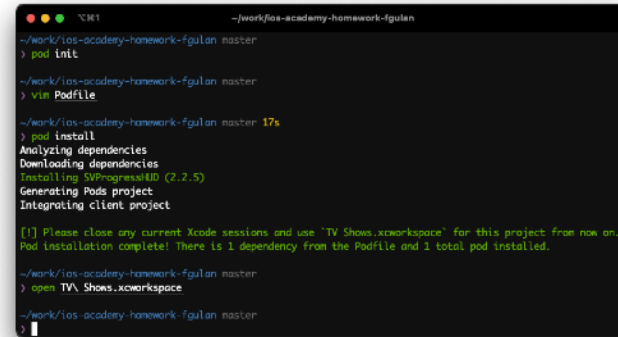We always push all of the dependencies to git

The Podfile

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

- Configurations for certain target

Terminal Commands

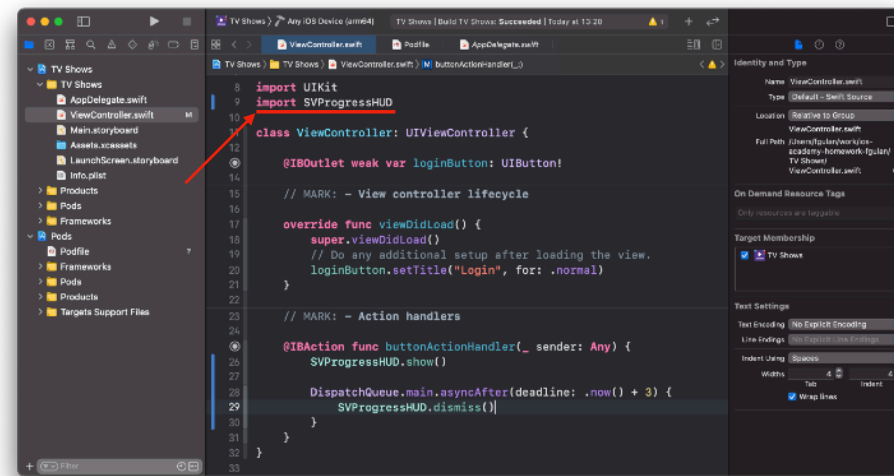

- pod init
- pod install
- pod update
- pod try `name of the lib`

- pod init will create and empty `Podfile` inside you 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

- 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

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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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