



FREE eBook

LEARNING cocoapods

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#cocoapods

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About

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Chapter 1: Getting started with cocoapods

Remarks

Cocoapods is a dependency manager for Swift and Objective C projects. As stated from the [official site](#), it has over 28 thousand libraries and is used in over 1.7 million apps. It can make developers develop faster by using third party libraries. Cocoapods makes managing dependencies in your code easier. Adding and removing dependencies can be done by writing them in a file (called the podfile) and running it.

Versions

Version	Release Notes	Release Date
1.2.0	https://github.com/CocoaPods/CocoaPods/blob/master/CHANGELOG.md#120-2017-01-28	2017-01-28
1.1.1	https://github.com/CocoaPods/CocoaPods/blob/master/CHANGELOG.md#111-2016-10-20	2016-10-20
1.1.0	https://github.com/CocoaPods/CocoaPods/blob/master/CHANGELOG.md#110-2016-10-19	2016-10-19
1.0.1	https://github.com/CocoaPods/CocoaPods/blob/master/CHANGELOG.md#101-2016-06-02	2016-06-02
1.0.0	https://github.com/CocoaPods/CocoaPods/blob/master/CHANGELOG.md#100-2016-05-10	2016-05-10

Examples

Updating CocoaPods

To update CocoaPods by simply installing the gem again

```
[sudo] gem install cocoapods
```

Or for a pre-release version

```
[sudo] gem install cocoapods --pre
```

Podfile sample

The dependencies for your projects are specified in a single text file called a Podfile. CocoaPods will resolve dependencies between libraries, fetch the resulting source code, then link it together in an Xcode workspace to build your project.

1. Create a podfile

```
# Next line contains target platform settings
platform :ios, '8.0'
# Use dynamic Frameworks
use_frameworks!

# Target name
target 'MyApp' do
  # List of target dependencies
  pod 'ObjectiveSugar', '~> 1.1'
  pod 'ORStackView', '~> 3.0'
  pod 'RxSwift', '~> 2.6'
end
```

2. Install dependencies. The process of dependencies installation is done by executing this command through terminal in the project directory:

```
pod install
```

3. Updating dependencies to new versions:

- Updating specific pod

```
pod update RxSwift
```

- Updating all pods

```
pod update
```

Using Cocoapods

Getting Started

Lets start installing the popular library [Alamofire](#) to our Xcode project!

Lets first install CocoaPods by using the command:

```
[sudo] gem install cocoapods
```

Then let's create a new project in Xcode called Start! Navigate to the folder that contains the `.xcodproj` and create a new text file called `podfile`!

Replace the `podfile` with the following:

```
source 'https://github.com/CocoaPods/Specs.git'
```

```
platform :ios, '10.0'  
use_frameworks!  
  
target 'start' do  
  pod 'Alamofire', '~> 4.3'  
end
```

Use the `cd` command to change to the directory containing the `.xcodproj` and issue the command `pod install`. Alamofire is installed in the project 'start'!

Now, double-click the xcworkspace file (not .xcodproj) and use Alamofire!

Read [Getting started with cocoapods online](https://riptutorial.com/cocoapods/topic/3326/getting-started-with-cocoapods): <https://riptutorial.com/cocoapods/topic/3326/getting-started-with-cocoapods>

Chapter 2: Creating Your First Pod With Github

Examples

Creating Your First Pod With Github

Open Repo

1. Create [new repo](#) (My advice first add pods on a temporary repo before adding to your original project)
2. Fill Repository name with your repo name. I'll use "myrepo" for this tutorial and will use "<" and ">" symbols for the parts you should change to your own.
3. Click "Initialize this repository with a README"
4. Add a license. I'll use "MIT" for this tutorial.

Pull Your Repo to Local

1. Open Terminal.
2. Go where your repo is `cd </your/path/<myrepo>` or create it with `cd </your/path>. mkdir <myrepo>. cd <myrepo>`
3. Add git to your folder with `git init`
4. Link your repo with `git remote add origin https://github.com/<username>/<myrepo>.git`. (You can check if its working with `git remote -v` (Not `git remove -v`))
5. Pull your repo from github with `git pull`
6. Type: `git pull origin master`
7. Type `git commit`

Add Cocoapods

1. Install cocoapods: `sudo gem install cocoapods`. Write `pod --help` to check if it's working. (Skip if you already have cocoapods)
2. Create `<myrepo>.podspec` with `touch <myrepo>.podspec`
3. Open `<myrepo>.podspec` with an editor. Use Xcode or Sublime Text.
4. Paste the following. You can checkout this [example](#). For details check the [documentation](#)

```
Pod::Spec.new do |s|
  s.name           = "<myrepo>"
  s.version        = "0.1"
  s.summary        = "<My summary>"
  s.description    = "<MUST BE LONGER THAN SUMMARY>"
  s.homepage       = "https://github.com/<username>/<myrepo>"
  s.license        = 'MIT'
  s.author         = { "<username>" => "<useremail>" }
  s.source         = { :git => "https://github.com/<username>/<myrepo>.git", :tag =>
  s.version.to_s }
  s.platform       = :ios, '8.0'
```

```
s.requires_arc = true

# If more than one source file: https://guides.cocoapods.org/syntax/podspec.html#source_files
s.source_files = '<myrepo>.swift'

end
```

4. Write `pod lib lint <myrepo>.podspec` to the terminal. If you have any errors write `pod lib lint <myrepo>.podspec --verbose`. Solve your errors (solving your errors could take some time can't help here).
5. Add newly changes to git with `git add .` then commit with `git commit -m "Added pods"`
6. Push your changes to your remote repo with `git push`
7. Create new release <https://github.com/> Click Releases -> Click New Version
8. Write "0.1" to Tag Version. (Optional you can fill the "Release Title"). Make sure the version is identical with the `s.version` inside `<myrepo>.podspec`
9. Write `pod trunk register name@example.org 'Your Name' --description='macbook pro'`
10. After your new release open terminal and write `pod trunk push <myrepo>.podspec`. This will change the [CocoaPods Specs](#) which will enable you to write `pod '<myrepo>'` inside your podfile

Read [Creating Your First Pod With Github](#) online:

<https://riptutorial.com/cocoapods/topic/3635/creating-your-first-pod-with-github>

Chapter 3: Podfiles

Introduction

The Podfile is a text file that describes the dependencies of one or more Xcode projects.

Examples

Creating a podfile and installing a dependency

In the directory of the xcodeproj, create a new file called Podfile. The following is an example of a Podfile that installs the pod 'AFNetworking' version 1.0 to the app MyApp.

```
target 'MyApp'  
pod 'AFNetworking', '~> 1.0'
```

Creating a podfile when you have to use Swift3.0

If you want to use Swift3.0 or Bitcode you can add this code in your podfile.

```
post_install do |installer|  
  installer.pods_project.targets.each do |target|  
    target.build_configurations.each do |config|  
      config.build_settings['ENABLE_BITCODE'] = 'YES'  
      config.build_settings['SWIFT_VERSION'] = '3.0'  
    end  
  end  
end
```

Creating a podfile when you want to use more than one target

If you want to use a podfile in more than one target, you can do like this. You can choose the download address when you pod this lib.

```
def testpods  
  pod 'YSDDPush', :git => 'https://github.com/youshaoduo/YSDDPush.git'  
end  
  
target 'One' do  
  testpods  
end  
target 'Two' do  
  testpods  
end
```

Read Podfiles online: <https://riptutorial.com/cocoapods/topic/9128/podfiles>

Chapter 4: Removing a Pod from your Project

Examples

Removing a Pod

Example Podfile:

```
target 'MyProject' do
  pod 'AWSS3'
  pod 'RealmSwift'
end
```

and if you wanted to remove `RealmSwift`, remove that line from your Podfile

```
target 'MyProject' do
  pod 'AWSS3'
end
```

then from the command line run

```
$ pod install
```

and CocoaPods will remove `RealmSwift`.

Read [Removing a Pod from your Project](https://riptutorial.com/cocoapods/topic/4041/removing-a-pod-from-your-project) online:

<https://riptutorial.com/cocoapods/topic/4041/removing-a-pod-from-your-project>

Chapter 5: Updating Your Pod In Github

Examples

Pod Update Checklist

1. Update your project with `git pull origin master`
2. Update `s.version` inside `MyRepo.podspec`
3. Check local errors with `pod lib lint MyRepo.podspec`
4. `git add .` & `git commit -m "Update pods version"`
5. `git push origin master`
6. Make a new release
7. `pod trunk push MyRepo.podspec`

Source

Read Updating Your Pod In Github online: <https://riptutorial.com/cocoapods/topic/3641/updating-your-pod-in-github>

Credits

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2	Creating Your First Pod With Github	Esqarrouth
3	Podfiles	paper1111 , Youssef
4	Removing a Pod from your Project	rigdonmr
5	Updating Your Pod In Github	Esqarrouth