

私有库创建

1.准备知识

- 终端（启动台->其他->终端）
 - 一些基础命令：pwd：查看当前路径（位置），cd XXX：进入到某个文件夹，ls：查看当前路径下的文件夹
- 项目托管平台github，gitlab等，我选择以gitlab（<https://gitlab.com/>）为例（注册需要翻墙）
- 电脑已经安装了pod，参考：<https://www.jianshu.com/p/9e4e36ba8574>

2.开始动手

2.1 在gitlab上创建一个自己的远程私有索引库，用来存放私有框架的详细描述信息.podspec文件，（我的索引库名叫MyProjectSpec，这个索引库，我们已经帮你们创建好了的）



2.2 创建本地的私有索引库文件夹，并与远程私有索引库进行关联

2.2.1 在终端中输入：**pod repo**（作用：查看本地已存在的索引库，我的电脑里已存在7个本地索引库，每个人的电脑不一样。）

```
→ ~ pod repo

aliyun
- Type: git (master)
- URL: https://github.com/aliyun/aliyun-specs.git
- Path: /Users/chenli/.cocoapods/repos/aliyun

gitlab-chenli802-myproject
- Type: git (master)
- URL: https://gitlab.com/chenli802/MyProject.git
- Path: /Users/chenli/.cocoapods/repos/gitlab-chenli802-myproject

master
- Type: git (master)
- URL: https://github.com/CocoaPods/Specs.git
- Path: /Users/chenli/.cocoapods/repos/master

SelfProjectSpec
- Type: git (master)
- URL: https://gitlab.com/chenli802/SelfProjectSpec.git
- Path: /Users/chenli/.cocoapods/repos/SelfProjectSpec

tuya-inc-tuya-ios-tyspecs
- Type: git (master)
- URL: https://registry.code.tuya-inc.top/tuyaIOS/TYSpecs.git
- Path: /Users/chenli/.cocoapods/repos/tuya-inc-tuya-ios-tyspecs

TYPublicSpecs
- Type: git (master)
- URL: https://github.com/TuyaInc/TYPublicSpecs.git
- Path: /Users/chenli/.cocoapods/repos/TYPublicSpecs

TYSpecs
- Type: git (master)
- URL: https://code.registry.wgine.com/tuyaIOS/TYSpecs.git
- Path: /Users/chenli/.cocoapods/repos/TYSpecs

7 repos
→ ~
```

2.2.2 `pod repo add MyProjectSpec https://gitlab.com/chenli802/MyProjectSpec.git` [替换成自己的索引库名, git地址, 详见下图] (作用: 添加本地私有索引库并与远程私有库进行关联)

Project 'MyProjectSpec' was successfully created.



MyProjectSpec

这是一个远程索引库，用来存放私有框架的详细描述信息.podspec文件

☆ Star 0 HTTPS https://gitlab.com/chenli802 + Global

The repository for this project is empty

If you already have files you can push them using the [command line instructions](#) below.

Note that the master branch is automatically protected. [Learn more about protected branches](#)

You can automatically build and test your application if you [enable Auto DevOps](#) for this project. You can automatically deploy it as well, if you [add a Kubernetes cluster](#).

Otherwise it is recommended you start with one of the options below.

New file

Add Readme

Add License

Enable Auto DevOps

Add Kubernetes cluster

```
[→ ~] pod repo add MyProjectSpec https://gitlab.com/chenli802/MyProjectSpec.git
Cloning spec repo 'MyProjectSpec' from 'https://gitlab.com/chenli802/MyProjectSpec.git'
```

2.2.3 pod repo (再次查看本地索引库，查看是否添加本项目的索引库)

➔ ~ pod repo

aliyun

- Type: git (master)
- URL: <https://github.com/aliyun/aliyun-specs.git>
- Path: /Users/chenli/.cocoapods/repos/aliyun

gitlab-chenli802-selfprojectbase

- Type: git (tags/0.0.1)
- URL: <https://gitlab.com/chenli802/SelfProjectBase.git>
- Path: /Users/chenli/.cocoapods/repos/gitlab-chenli802-selfprojectbase

gitlab-isfangdong-hismartfmwkspec

- Type: git (master)
- URL: <https://gitlab.com/isfangdong/HiSmartFMWKSPEC.git>
- Path: /Users/chenli/.cocoapods/repos/gitlab-isfangdong-hismartfmwkspec

master

- Type: git (master)
- URL: <https://github.com/CocoaPods/Specs.git>
- Path: /Users/chenli/.cocoapods/repos/master

MyProjectSpec

fatal: ambiguous argument 'HEAD': unknown revision or path not in the working tree.
Use '--' to separate paths from revisions, like this:

'git <command> [<revision>...] -- [<file>...]'

- Type: git (unknown)
- URL: <https://gitlab.com/chenli802/MyProjectSpec.git>
- Path: /Users/chenli/.cocoapods/repos/MyProjectSpec

SelfProjectSpec

- Type: git (master)
- URL: <https://gitlab.com/chenli802/SelfProjectSpec.git>
- Path: /Users/chenli/.cocoapods/repos/SelfProjectSpec

tuya-inc-tuyaaios-tyspecs

- Type: git (master)
- URL: <https://registry.code.tuya-inc.top/tuyaIOS/TYSpecs.git>
- Path: /Users/chenli/.cocoapods/repos/tuya-inc-tuyaaios-tyspecs

TYPublicSpecs

- Type: git (master)
- URL: <https://github.com/TuyaInc/TYPublicSpecs.git>
- Path: /Users/chenli/.cocoapods/repos/TYPublicSpecs

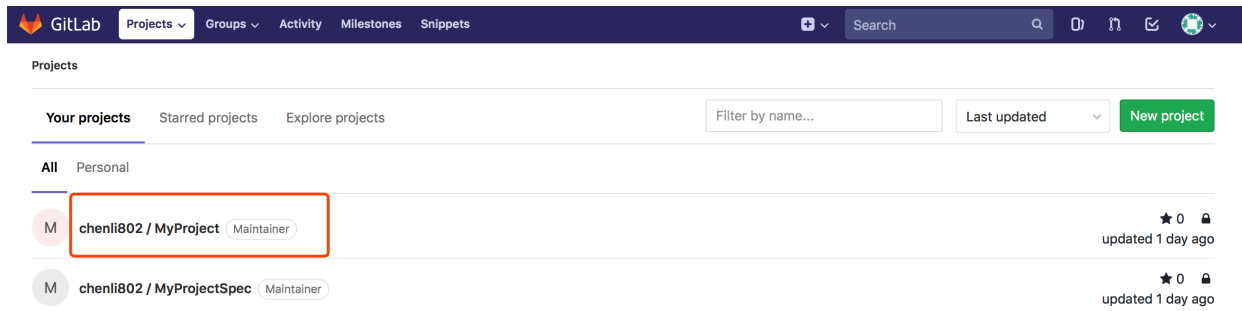
TYSpecs

- Type: git (master)
- URL: <https://code.registry.wgine.com/tuyaIOS/TYSpecs.git>
- Path: /Users/chenli/.cocoapods/repos/TYSpecs

9 repos

➔ ~ █

2.3 在gitlab上创建一个用来存放项目的仓库MyProject（这个项目，我们已经帮你们创建好了的）



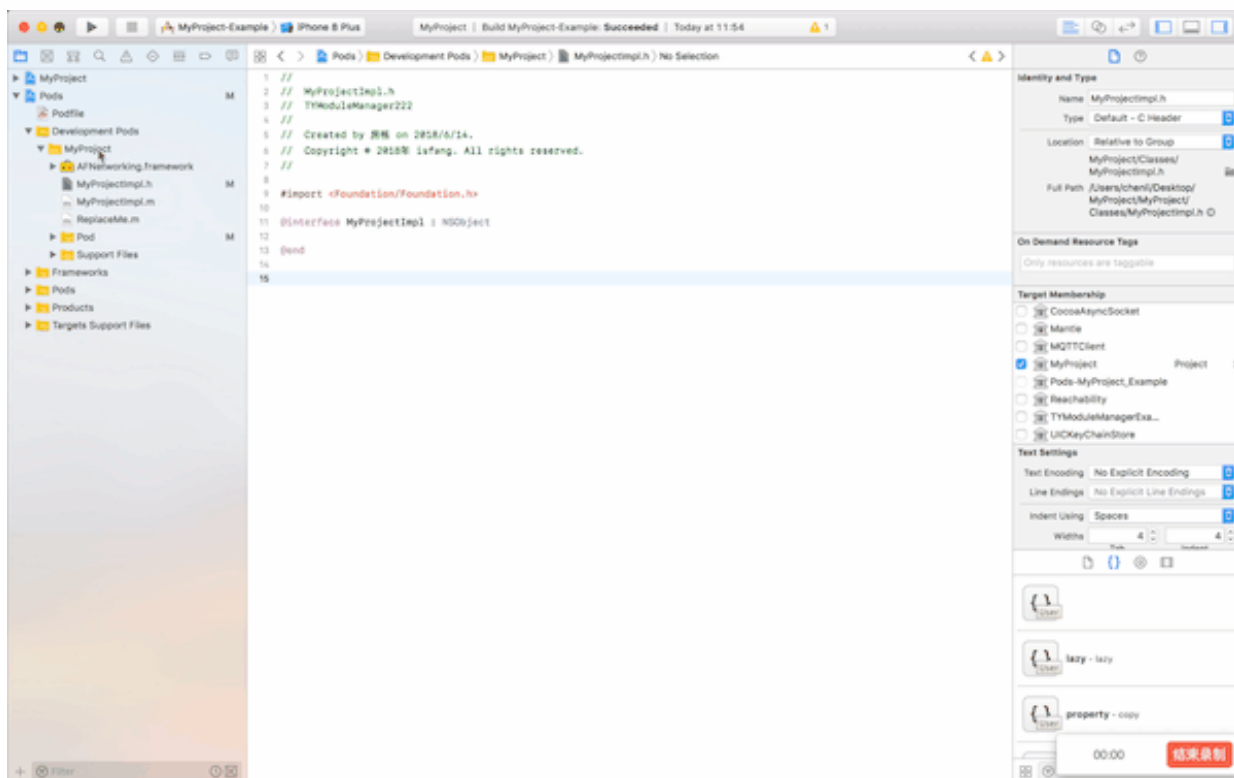
2.4 快速创建工程

2.4.1 首先选择一个地址用来存放该项目，进入到项目要存放的路径下：我选择放在桌面上：`cd /Users/chenli/Desktop`, (chenli —>替换成自己的电脑用户名)，然后`pod lib create MyProject --template-url=https://github.com/TuyaInc/pod-template.git`（快速创建一个pod项目,MyProject ->替换成自己的项目名）



2.4.2 删掉默认生成的Replace.m文件，在Classes文件中至少创建一个文件（如默认生成的MyProjectImpl.h和MyProjectImpl.m文件），使得Classes文件不为空，不然后面提交不上去，再cd回到该项目的`Example`文件路径下(`cd /Users/chenli/Desktop/MyProject/Example`), 重新执行`pod install`操作

新建.h和.m文件：



```
➔ Desktop cd /Users/chenli/Desktop/MyProject/Example  
➔ Example git:(master) ✖ pod install
```

```
Analyzing dependencies  
Fetching podspec for `MyProject` from `../`  
Downloading dependencies  
Using MyProject (0.1.0)  
Generating Pods project  
Integrating client project  
Sending stats  
Pod installation complete! There is 1 dependency from the Podfile and 1 total pod installed.
```

```
[!] Automatically assigning platform `ios` with version `9.3` on target `MyProject_Example` because  
e no platform was specified. Please specify a platform for this target in your Podfile. See `https  
://guides.cocoapods.org/syntax/podfile.html#platform`.
```

2.5 将上面的项目工程，提交到第2.3步创建的远程代码仓库 MyProject，具体步骤如下：

- `cd /Users/chenli/Desktop/MyProject` (进入到项目文件夹)
- `git status` (查看更改的文件)
- `git add -A` (add 后面有空格, 大写A, 提交增加, 删除, 修改的全部信息)
- `git commit -m '创建项目工程'`

```

→ Example git:(master) X cd /Users/chenli/Desktop/MyProject
→ MyProject git:(master) X git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   Example/MyProject.xcodeproj/project.pbxproj
        modified:   MyProject.podspec

Untracked files:
  (use "git add <file>..." to include in what will be committed)

        Example/MyProject.xcworkspace/
        Example/Podfile.lock
        Example/Pods/
        MyProject-0.0.1/

no changes added to commit (use "git add" and/or "git commit -a")
→ MyProject git:(master) X git add .
→ MyProject git:(master) X git commit -m '创建项目工程'
[master 2db9311] 创建项目工程
433 files changed, 43403 insertions(+), 5 deletions(-)
create mode 100644 Example/MyProject.xcworkspace/contents.xcworkspacedata
create mode 100644 Example/MyProject.xcworkspace/xcsourcedata/IDEWorkspaceCheck
s.plist
create mode 100644 Example/Podfile.lock
create mode 100644 Example/Pods/CocoaAsyncSocket/LICENSE.txt
create mode 100644 Example/Pods/CocoaAsyncSocket/README.markdown
create mode 100644 Example/Pods/CocoaAsyncSocket/Source/GCD/GCDAsyncSocket.h
create mode 100755 Example/Pods/CocoaAsyncSocket/Source/GCD/GCDAsyncSocket.m
create mode 100644 Example/Pods/CocoaAsyncSocket/Source/GCD/GCDAsyncUdpSocket.h

```

- 编辑MyProject项目工程里的MyProject.podspec文件（development pods->MyProject->pod->MyProject.podspec）
 - tag: 建议一开始为0.0.1
 - summary写项目的简要说明
 - source写该项目的gitlab地址，参考第2.2.2步
 - source_files :放源程序，不能为空
 - 本项目依赖的官方提供的 framework，没需要可以不写：


```
s.framework = 'CoreData'
```
 - 本项目被其他工程引入时，会导入MyProject/Classes 目录下的.h和.m文件


```
s.source_files = 'MyProject/Classes/*/'
```
 - 本项目被其他工程引入时，会导入MyProject/Assets 目录下的资源文件，如果资源文字暂时没有的话，要隐藏这句话，不然会提交不上去：


```
s.resources = ['MyProject/Assets/*.png,xib,plist,xcassets,bundle']
```

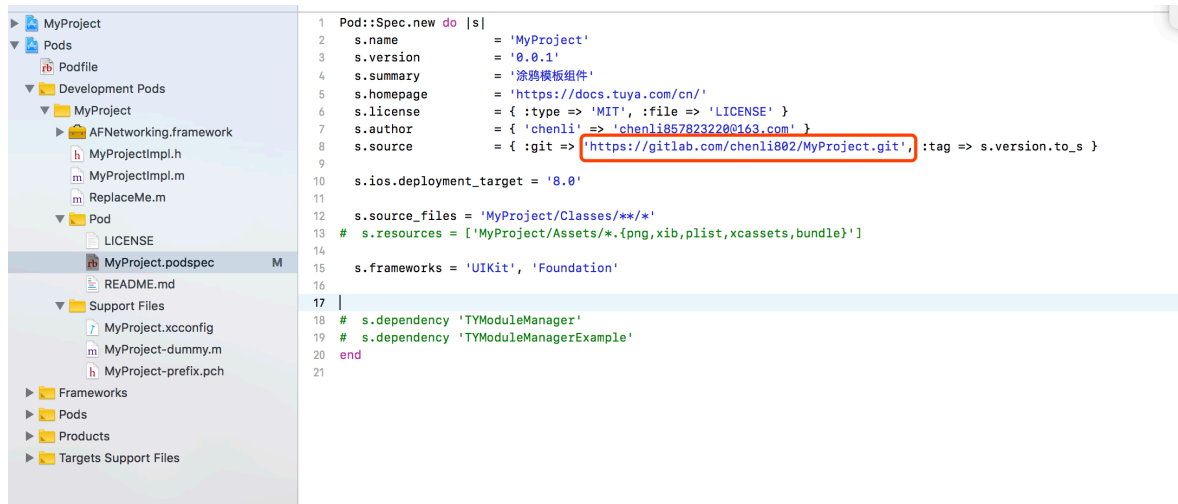

- 代码中包含静态库:

s.vendored_libraries = '/Pod/Classes/*.a'

- 该项目所依赖的其他库,比如:

s.dependency 'AFNetworking', '~> 2.3'

s.dependency 'MBProgressHUD '



- pod lib lint (验证上一步编辑的 MyProject.podspec文件)

```
[→ MyProject git:(master) pod lib lint]
-> MyProject (0.0.1)
MyProject passed validation.
```

- git status
- git add -A
- git commit -m '编辑spec文件'
- git remote add origin https://gitlab.com/chenli802/MyProject.git (将本地库与远程代码仓库进行关联, git地址换成自己的)
- git push origin master (提交到远程仓库)
- git tag '0.0.1' (要与MyProject.podspec文件中的tag值保持一致)
- git push --tags (将tag提交到远程)
- pod spec lint --allow-warnings (验证远程是否正确)


```

[→ MyProject git:(master) pod lib lint
    -> MyProject (0.0.1)

MyProject passed validation.
[→ MyProject git:(master) * git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   MyProject.podspec

no changes added to commit (use "git add" and/or "git commit -a")
[→ MyProject git:(master) * git add .
[→ MyProject git:(master) * git commit -m '编辑 spec文件'
[master 4155141] 编辑 spec文件
 1 file changed, 5 insertions(+), 5 deletions(-)
[→ MyProject git:(master) git remote add origin https://gitlab.com/chenli802/MyProject.git
[→ MyProject git:(master) git push origin master
Counting objects: 87, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (78/78), done.
Writing objects: 100% (87/87), 29.61 KiB | 2.69 MiB/s, done.
Total 87 (delta 21), reused 0 (delta 0)
To https://gitlab.com/chenli802/MyProject.git
 * [new branch]      master -> master
[→ MyProject git:(master) git tag '0.0.1'
[→ MyProject git:(master) git push --tags
Total 0 (delta 0), reused 0 (delta 0)
To https://gitlab.com/chenli802/MyProject.git
 * [new tag]         0.0.1 -> 0.0.1
[→ MyProject git:(master) pod spec lint --allow-warnings

    -> MyProject (0.0.1)

Analyzed 1 podspec.

MyProject.podspec passed validation.
[→ MyProject git:(master) █

```

2.6 pod repo push MyProjectSpec MyProject.podspec （将 podspec文件提交到远程的私有索引库）

```

[→ MyProject git:(master) pod repo push MyProjectSpec MyProject.podspec

Validating spec
    -> MyProject (0.0.1)

Updating the 'MyProjectSpec' repo

Your configuration specifies to merge with the ref 'refs/heads/master'
from the remote, but no such ref was fetched.

Adding the spec to the 'MyProjectSpec' repo

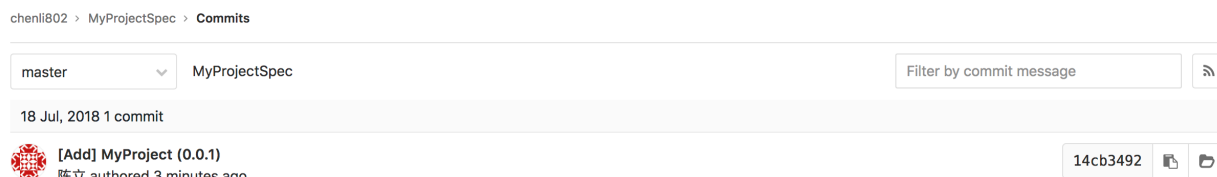
- [Add] MyProject (0.0.1)

Pushing the 'MyProjectSpec' repo
[→ MyProject git:(master) █

```

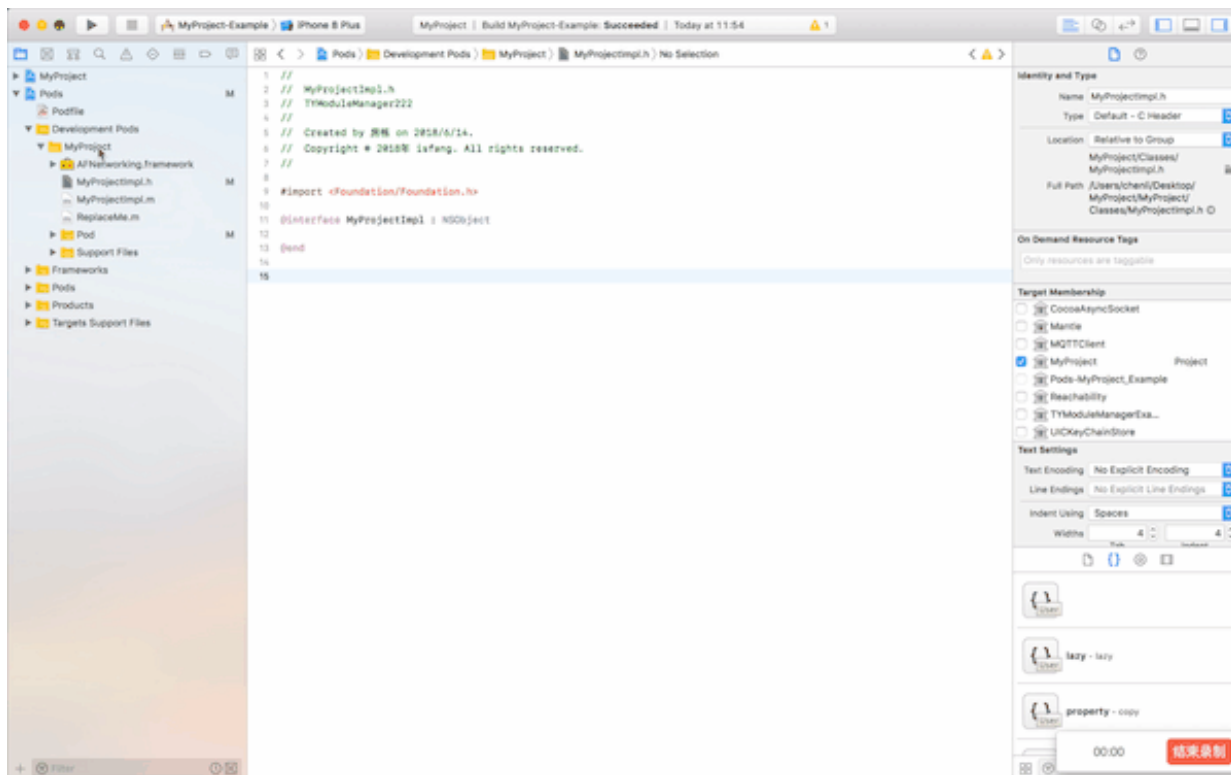
表示提交成功，此时远程私有库到此就已结束

注意：提交后，依然会验证 podspec文件，验证通过后 会自动上传到在远程spec索引库,不信的话你可以看看在第2.1步创建的Spec远程私有索引库，是不是多了一个[MyProject/ 0.0.1]文件！



2.7 添加及修改项目工程的内容，比如创建新的.h.m文件，添加依赖库

2.7.1 添加.h和.m文件（要创建在Classes文件夹中，因为在podspec文件中指明了：
`s.source_files = 'MyProject/Classes/*/'` ,[本项目被其他工程引入时，会导入MyProject/Classes 目录下的.h和.m文件]）



- 修改好之后，需要重新提交到远程，需要tag 加1:



- `cd /Users/chenli/Desktop/MyProject` (进入工程文件夹)
- `git status`
- `git add .`
- `git commit -m '添加及修改项目工程'`
- `git push origin master`
- `git tag '0.0.2'` (要与MyProject.podspec文件中的tag值保持一致)
- `git push --tags`

```

→ ~ cd /Users/chenli/Desktop/MyProject
→ MyProject git:(master) * git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   MyProject/Classes/View.h
    new file:   MyProject/Classes/View.m
    new file:   main.h
    new file:   main.m

Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   Example/Pods/Pods.xcodeproj/project.pbxproj
    modified:   MyProject.podspec
    deleted:    main.h
    deleted:    main.m

→ MyProject git:(master) * git add .
→ MyProject git:(master) * git commit -m'添加及修改项目工程'
[master a97ee12] 添加及修改项目工程
4 files changed, 46 insertions(+), 9 deletions(-)
create mode 100644 MyProject/Classes/View.h
create mode 100644 MyProject/Classes/View.m
→ MyProject git:(master) git push origin master
Counting objects: 11, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (10/10), done.
Writing objects: 100% (11/11), 1.46 KiB | 1.46 MiB/s, done.
Total 11 (delta 5), reused 0 (delta 0)
To https://gitlab.com/chenli802/MyProject.git
4155141..a97ee12 master -> master
→ MyProject git:(master) git tag '0.0.2'
→ MyProject git:(master) git push --tags
Total 0 (delta 0), reused 0 (delta 0)
To https://gitlab.com/chenli802/MyProject.git
* [new tag]          0.0.2 -> 0.0.2

```

- `pod repo push MyProjectSpec MyProject.podspec` （更新远程索引库）

```

→ MyProject git:(master) * pod repo push MyProjectSpec MyProject.podspec

Validating spec
  -> MyProject (0.0.2)

Updating the 'MyProjectSpec' repo

Already up to date.

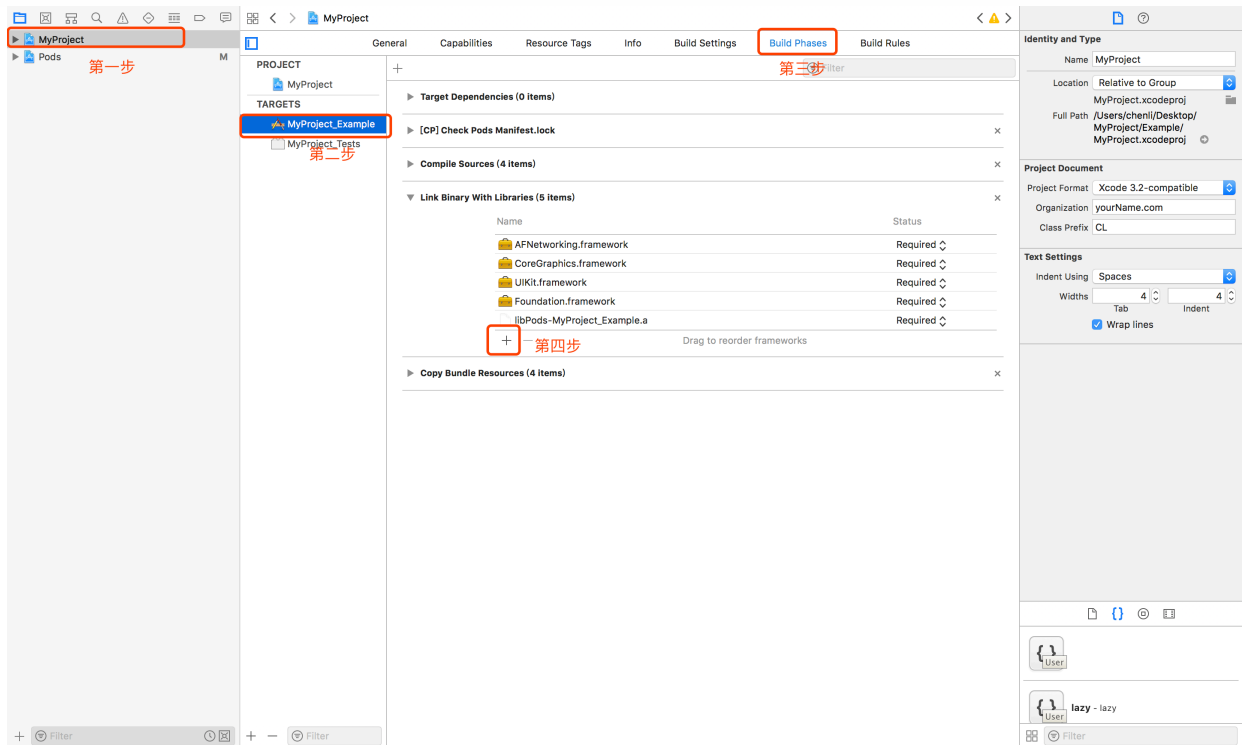
Adding the spec to the 'MyProjectSpec' repo
  - [Update] MyProject (0.0.2)

Pushing the 'MyProjectSpec' repo

```

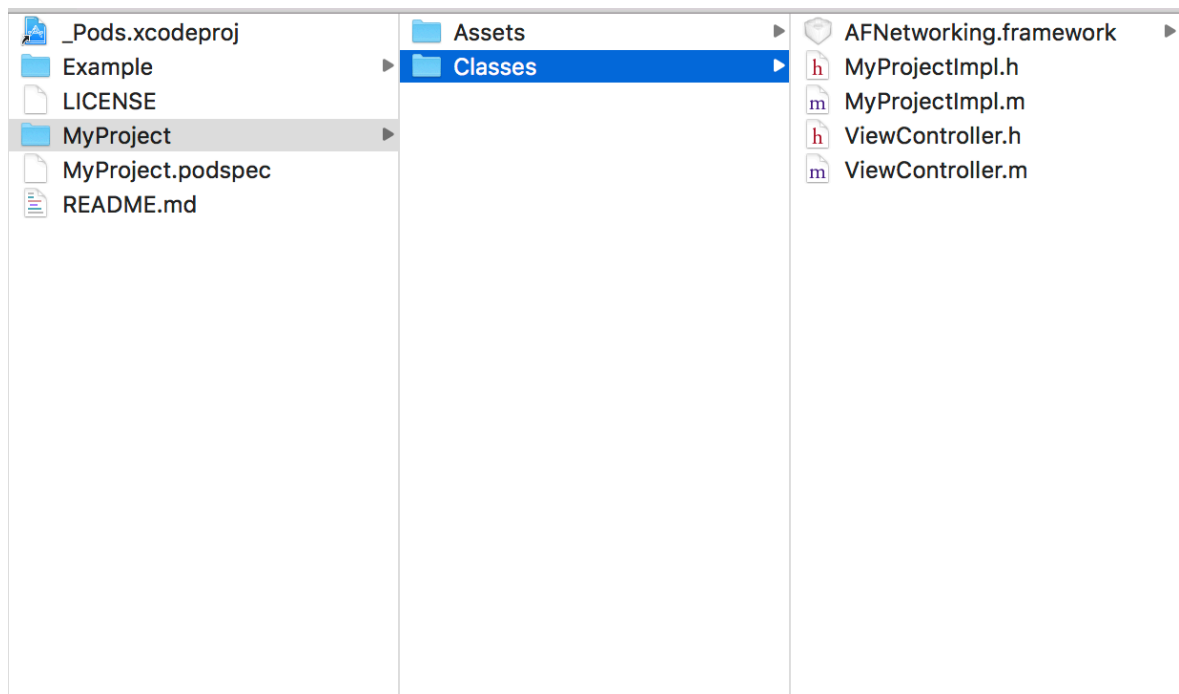
2.7.2 添加framework:

第一种：直接引用系统提供的.framework

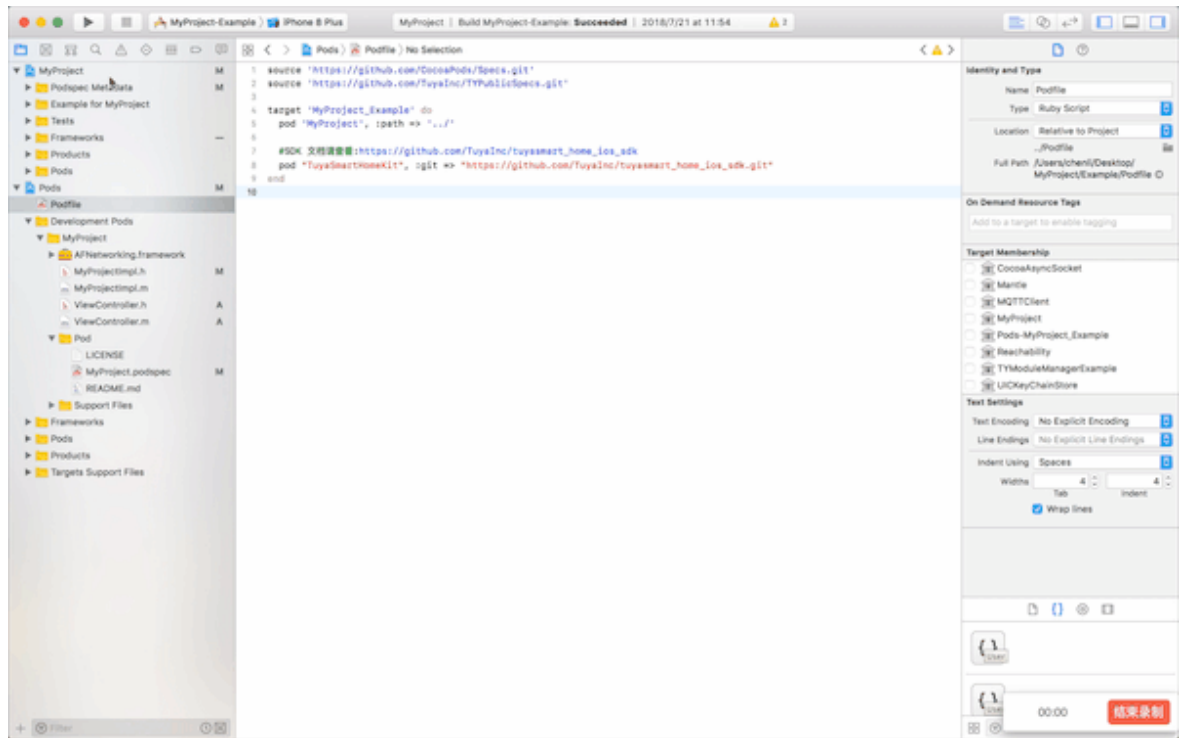


第二种：引用第三方提供的.framework

- 下载好所需要的第三方提供的.framework
- 将第三方.framework文件拷贝到工程所处的Classes文件夹中



- 在Link Binary With Libraries中添加



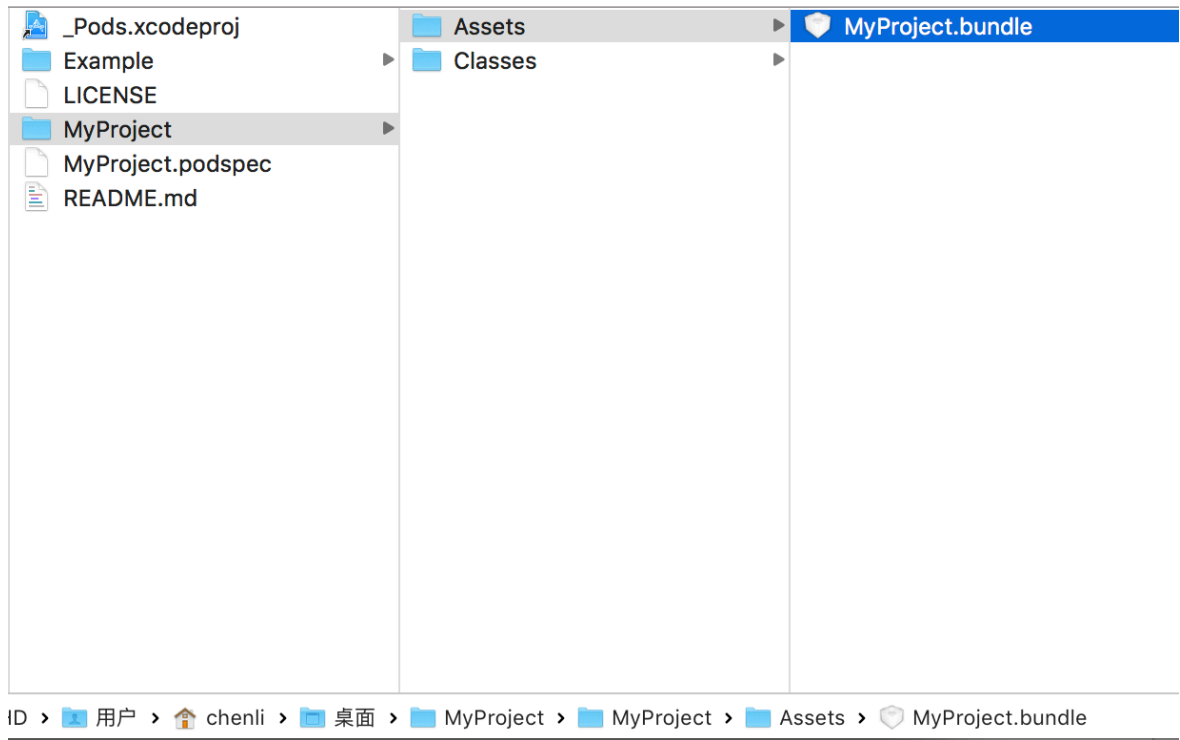
第三种：通过Cocoapods来导入.framework

- 在Podfile文件中，写入你需要导入的.framework文件的名字，如 pod 'XXXXXX'
- 执行pod安装命令：pod install

修改好之后，要提交代码至远程，参考2.7.1

2.7.3 现在我们来添加图片等资源文件：

- 将图片等资源添加到Assets文件中



- 修改podspec文件，添加这句话：

```
s.resources = ['MyProject/Assets/*.{png,xib,plist,xcassets,bundle}']
```

- 提交代码至远程，参考2.7.1