
Publishing Your First CocoaPod

Pietro Rea
iOS Engineer @ Upside Travel

Getting started

- CocoaPods made its debut in 2011. It's the mainstream package manager in 2018.
- Other package managers also available. Carthage and SwiftPM are the main ones.
- **Everyone** uses it but **few** publish to it.



The Mechanics

0. Installing Cocoapods

1. Getting set up with Trunk.
2. Create a new pod from the default template.
3. Add your code to the pod.
4. Lint your podspec & test your pod
5. Publish your pod
6. ...
7. Profit!

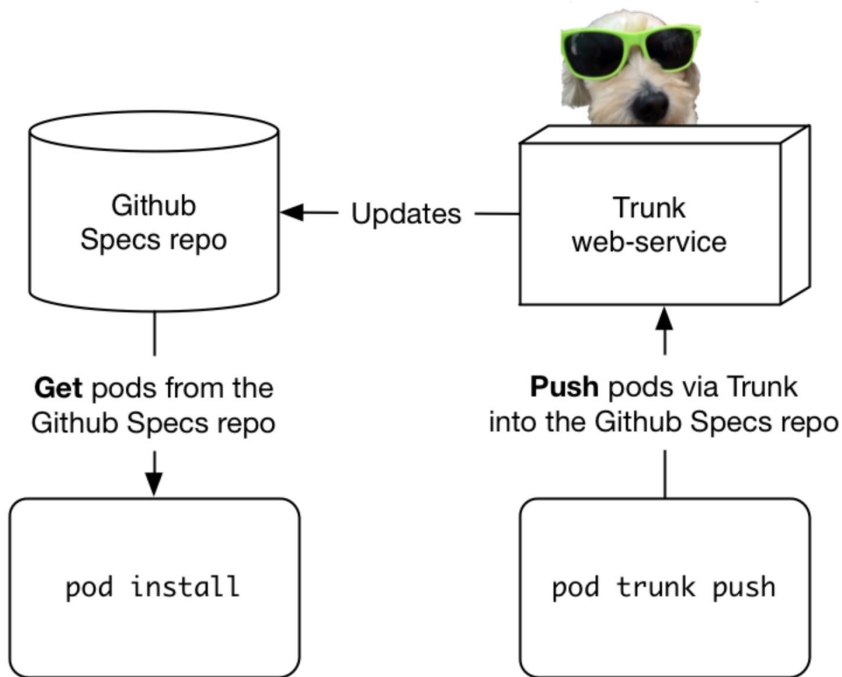


What is CocoaPods Trunk?

- Problem: Only the “owner” of a pod should update it.
How do we establish “ownership”?
- Answer: Authentication required. Enter **Trunk**.
- Trunk is an authentication API service for Cocoapods.
- Trunk doesn't use passwords. Ties a session to your machine.



What is CocoaPods Trunk?



Getting setup with Trunk

- `$ pod trunk register your@emailaddress.com 'Your Name' --description='Session name'`
- Confirmation link sent to your email address. Click to register yourself and start a session.
- Verify your current session: `$ pod trunk me`



Using the default pod template

- `$ pod lib create SpringAnimationController`
- “What platform do you want to use?” [**iOS** / macOS]
- “What language do you want to use?” [**Swift** / ObjC]
- “Would you like to include a demo application with your library?” [**Yes** / No]
- “Which testing frameworks will you use?” [**Quick** / None]
- “Would you like to do view based testing?” [**Yes** / No]



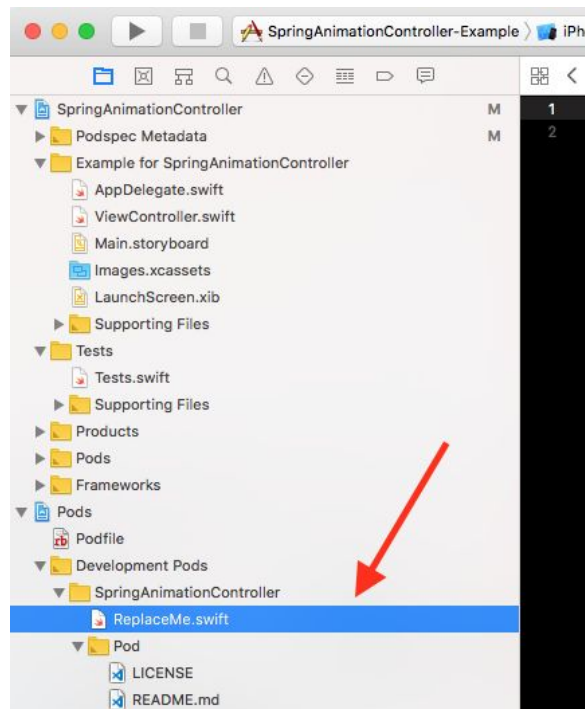
Change the podspec

```
Pod::Spec.new do |s|
  s.name          = 'SpringAnimationController'
  s.version       = '0.1.0'
  s.summary       = 'A short description of SpringAnimationController. 140 characters only!'
  s.description   = 'Add your description here'
  s.homepage      = 'https://github.com/pietrorea/SpringAnimationController'
  # s.screenshots = 'www.example.com/screenshots_1', 'www.example.com/screenshots_2'
  s.license       = { :type => 'MIT', :file => 'LICENSE' }
  s.author        = { 'pietrorea' => 'your@email.com' }
  s.source        = { :git => 'https://github.com/pietrorea/SpringAnimationController.git', :tag =>
s.version.to_s }
  # s.social_media_url = 'https://twitter.com/pietrorea'

  s.ios.deployment_target = '8.0'
  s.source_files = 'SpringAnimationController/Classes/**/*'
end
```


Move your code into the pod

- **Two** targets: one for your demo project and one for your pod.
- CocoaPods looks at the file pattern in **s.source_files** to find your code.
- Beware of **access control** problems. Entities have to be **public** to be visible to host app!



Testing/linting your pod

- Test before publishing to with trunk
 - Change podspec to use **branch** instead of **tag**
 - Push changes to GitHub
 - `pod 'SpringAnimationController', :git => ..., :branch => branchName in Podfile`
 - `$ pod install`
- Lint your podspec before publishing
 - `$ pod spec lint`
 - Linting catches basic problems (e.g configuration)



Publishing your work

- `$ git tag -a 1.0.0 -m '1.0.0' && git push --tags`
 - Add a tag* when you're done making changes to your pod (i.e. pod source files, sample project, README, podspect)
- `$ pod trunk push`
`SpringAnimationController.podspec`
- `$ pod try SpringAnimationController`
 - Use `pod try` to verify you can pull from CocoaPods.



Celebrate!

🎉 Congrats

🦋 SpringAnimationController (1.0.0) successfully published

📅 June 11th, 02:16

📄 <https://cocoapods.org/pods/SpringAnimationController>

👉 Tell your friends!

Okay, but what do I publish??

- **Idea #1:** Pull out something reusable from a side project. E.g. [SpringAnimationController](#)
- **Idea #2:** Your very own bag 'o tricks. E.g. [SSToolkit](#)
- **Idea #3:** Keep track of **schleps** you have to solve over and over. Some common ones: configuring `NSAttributedString`, writing out Auto Layout constraints manually, etc.



Judge me by my lines of code, do you?

- Failable v 0.1.0:
<https://cocoapods.org/pods/Failable>
- 30,844 total downloads.
- 34 lines of code (but really 4)

```
public enum Failable<T> {  
    case success(T)  
    case failure(Error)  
}
```



Embrace the letters Y and A

- Yahoo! (Yet another hierarchical, officious oracle!)
- YAML (Yet another markup language)
- Yandex (Yet another indexer)
- YACC (Yet another compiler compiler)
- [https://en.wikipedia.org/wiki/Yet another](https://en.wikipedia.org/wiki/Yet_another)
- [Insert your CocoaPod here]



Questions?

Pietro Rea
iOS Engineer @ Upside Travel
