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# IOS模块化开发实战

官勤

# 内容提要

- 什么是模块化开发 - What

- 为什么要模块化开发 - Why

- 什么时候进行模块化开发 - When

- 如何实现模块化开发 - How

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# 什么是模块化开发
# WHAT

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# 为什么要模块化开发
# WHY

复用

解耦

独 立 开 发 测 试

加快编译速度

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# 什么时候进行模块化开发
# WHEN

纵向划分技术模块的简单示意图

数据展示
View、ViewModel、Presenter等

数据处理模块（业务逻辑、Controller等）

数据请求模块（Model、Entity等）

缓存模块

数据库模块

网络通信模块

多平台

横向划分业务模块，以一电商型App为例

| 商品模块 | 订单模块 | 购物车模块 | 消息模块 | 支付模块 | ... |

技术模块作支撑

多 条 独 立 的 业 务 线

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# 如何实现模块化开发
# HOW

业界的一些模块方案

URL Router
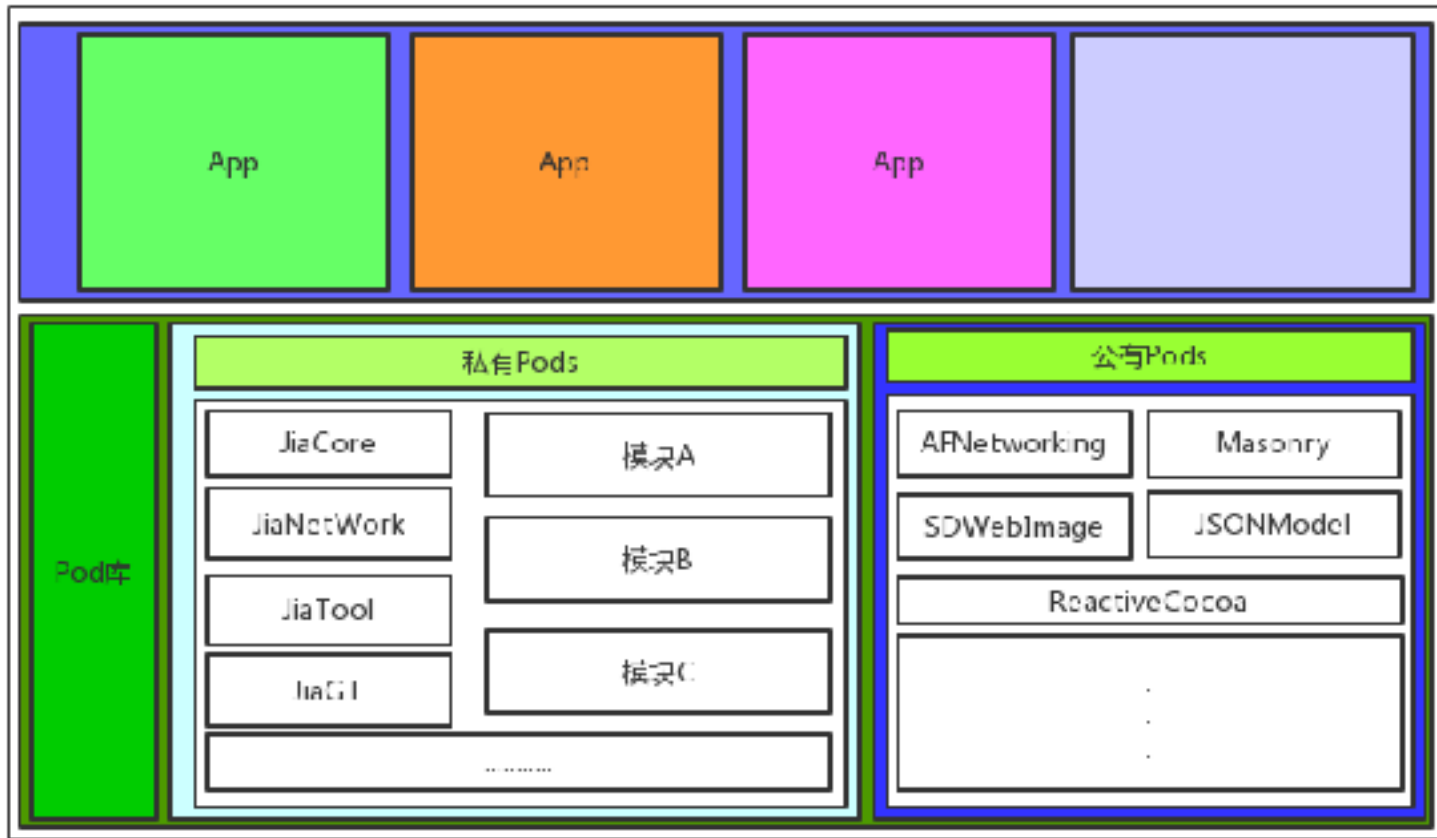
Target Action

Protocol class

CTMediator

# Demo

# Demo_Category

# Framework

CocoaPods

私有Pod

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

platform :ios, '9.0'
target 'App' do
    use_frameworks!

    pod 'PublicPod', '0.2.0'
end
```

私有Spec Repo

pod repo add PrivateSpecs https://private.git

~/.cocoapods/repos

更新podspec版本号到1.0.0

git commit

git tag -m "first release" 1.0.0

git push 1.0.0

pod repo push --allow-warnings
PrivateSpecs demo.podspec

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

platform :ios, '9.0'
target 'App' do
    use_frameworks!

    pod 'PublicPod', '0.2.0'
    pod 'Demo', '1.0.1'
    pod 'Demo_category', '1.0.0'
end
```

Nightmare

```
Pod::Spec.new do |s|
    s.name          = "App function"
    s.version       = "0.0.3"
    s.platform      = :ios, "9.0"
    s.source        = { :git => "appfunction.git", :tag => s.version.to_s }
    s.dependency "Demo_category", "1.0.0"
```

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

platform :ios, '9.0'
target 'App' do
    use_frameworks!

    pod 'PublicPod', '0.2.0'
    pod 'Demo', :git => 'demo.git', :tag => '1.0.1'
    pod 'Demo_category', '1.0.0'
end
```

二 进 制 化

CocoaPods Packager

Carthage

Shell

sub spec

```ruby
s.version = "1.0.0"
s.source  = { :git => "https://demo.git", :tag => s.version.to_s }
s.defaule_subspec = 'source'

s.subspec 'source' do |ss|
    ss.source_files = 'Demo/Demo/* */*'
end


s.subspec 'framework' do |ss|
    ss.vendored_frameworks = 'Demo/Framework/*.framework'
end
```

```
pod 'Demo', '1.0.0'

pod 'Demo/framework', '1.0.0'
```

公有Pod的二进制化

prepare_command

# Development Pod

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

platform :ios, '9.0'

target 'App' do
    use_frameworks!

    pod 'PublicPod', '0.2.0'

    if ENV['dev']
        pod 'Demo', :path=>'../Demo'
    else
        pod 'Demo/framework', '1.0.0'
    end
end
```

dev=1 pod install

CI/CD

# 依赖管理

Show Time

# THANK YOU

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