

Bigkeeper

iOS模块化项目效率提升工具

Efficiency improvement for iOS&Android module development, iOSer&Android using this tool can make module development easier.



个人简介

Background Introduction

李蕊,饿了么即时配送BU 物流移动组 iOS 开发高级工程师。

目前主要工作是参与蜂鸟配送团队版的业务迭代以及业务模块/组件化的开发,以及性能优化以及稳定性相关的工作。

Part 01

模块化背景简介

模块化背景简介

Background Introduction

User

Order

Login

Wallet

Promotion

...

User

Order

Service

Kit

Router

RAC

MVVM

Cache

DB

Controls

Networking

Additions

Part 02

Bigkeeper 项目简介

背景简介

Background Introduction

日渐增多的模块/组件

并发迭代导致分支管理混乱

主工程遗留部分代码未拆分

有待提升效率的同时
规范各种操作

工程自动化

Project Automation

1. 规范模块发布，方便回归测试
2. 改进 workflow，不需要专门的项目管理人员
3. 解放双手，像开发单模块 App 一样开发多模块 App



What's Bigkeeper

prepare for tech

Ruby

一个多模块开发辅助脚本库

Git flow

Git flow 增强版功能

Cocoapods

iOS依赖Cocoapods进行第三方库、模块集成管理

Gradle

Android依赖Gradle进行第三方库、模块集成管理

Part 03

Bigkeeper 功能介绍

日常开发场景（一）

The recent decline of such practices, especially in cities, in favour of choosing your own mate,

今天又有新需求开发了...想想要干啥



1. 先在主工程开个 feature 分支
2. 还要改模块 A...继续在模块 A 开 feature 分支
3. 还要把主工程 A 模块的引用改成 :path
4. pod install

日常开发场景（一）

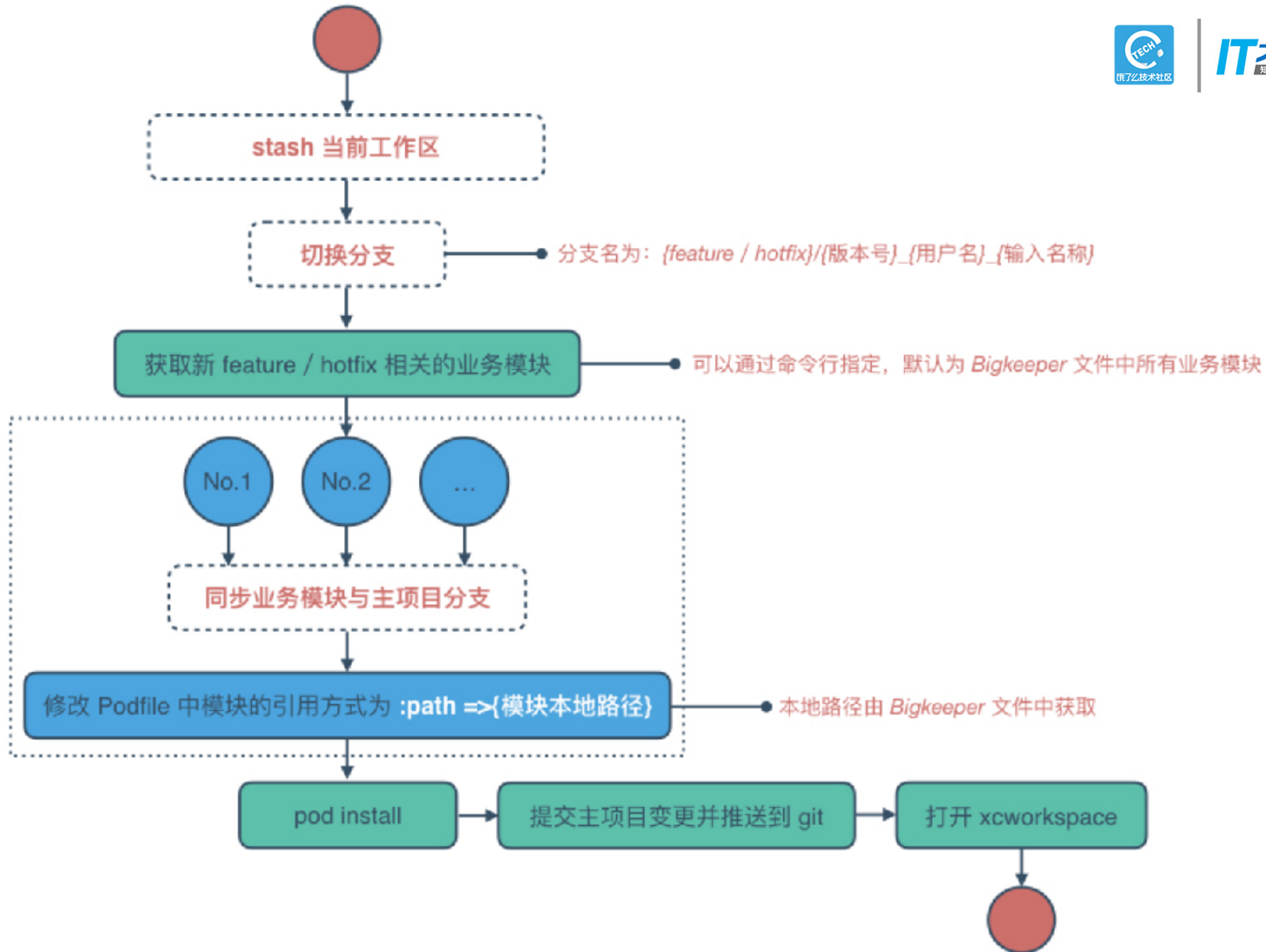
The recent decline of such practices, especially in cities, in favour of choosing your own mate,

换个方式

如果你用 bigkeeper

big feature start hello BigKeeperModule

5s...可以开始愉快的写代码了



日常开发场景（二）

The recent decline of such practices, especially in cities, in favour of choosing your own mate,

需求开发到一半,发现
还要改 B 模块...



- 1.在模块 B 开 feature 分支
- 2.还要把主工程 B 模块的引用改成 :path
- 3.pod install

3分钟过去了...

日常开发场景（一）

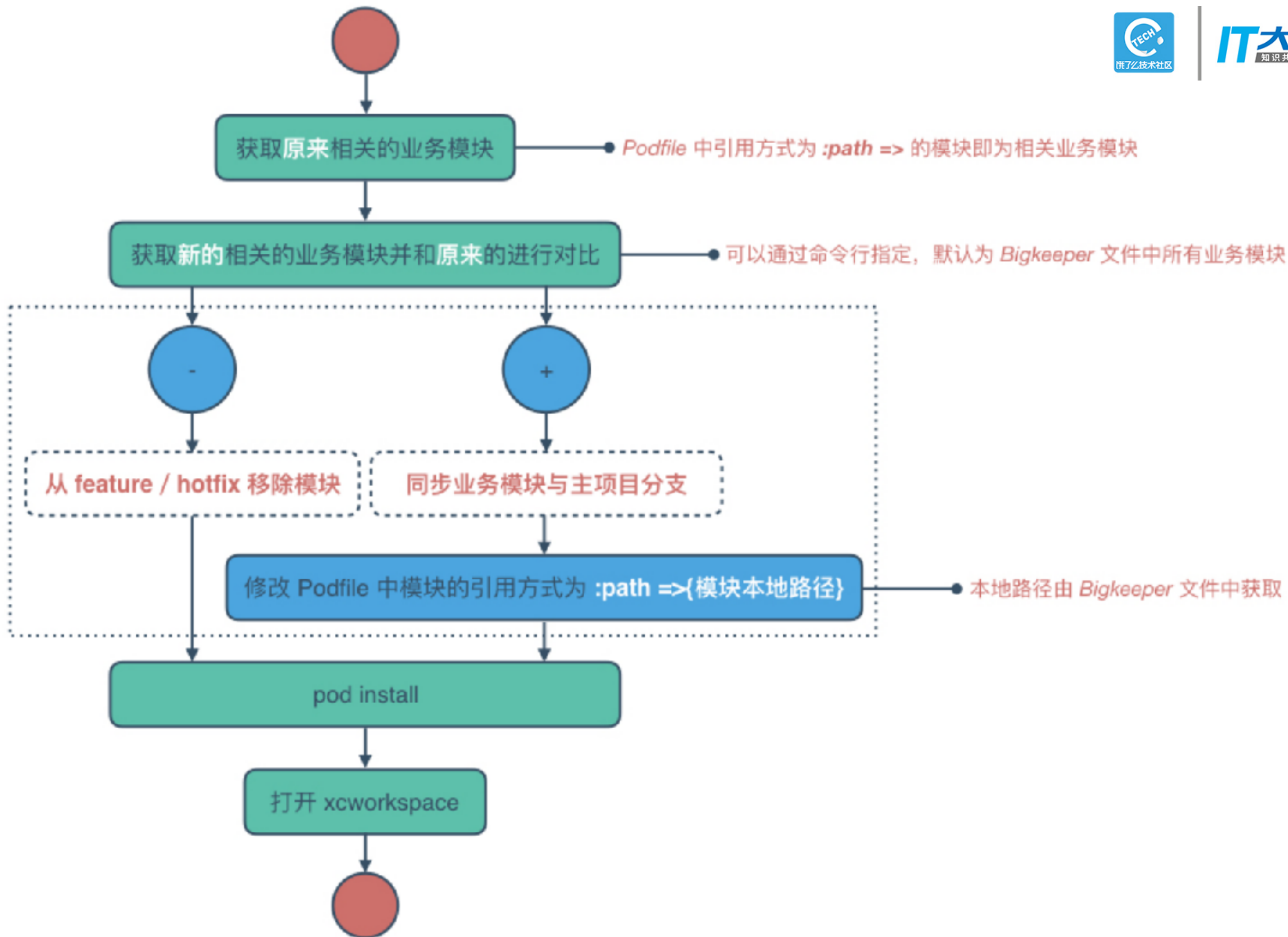
The recent decline of such practices, especially in cities, in favour of choosing your own mate,

换个方式

如果你使用 bigkeeper

big feature update BigKeeperOrderModule BigKeeperUserCenterModule

继续写代码...



日常开发场景（三）

The recent decline of such practices, especially in cities, in favour of choosing your own mate,

产品大人突然插了一个CR
测试大人突然提了一个bug



- 1.所有模块stash 切换到其他分支
- 2.主工程stash 切换到其他分支
- 3.pod install
- 4.所有模块 切换到开发分支 恢复stash
- 5.主工程 切换到开发分支 恢复stash
- 6.pod install

噗...一口老血...卒

日常开发场景（三）

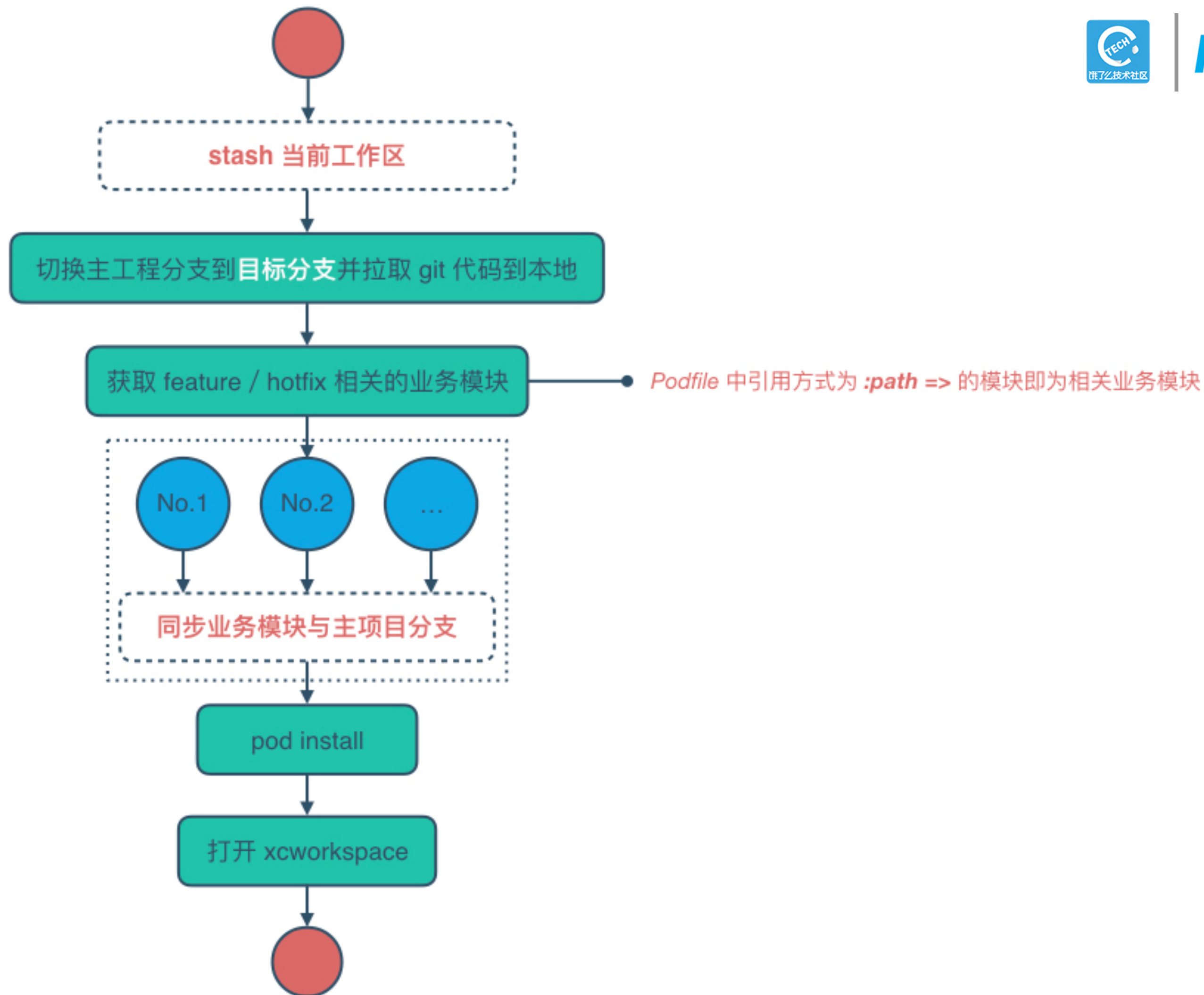
The recent decline of such practices, especially in cities, in favour of choosing your own mate,

换个方式

如果你使用 bigkeeper

big feature switch 分支名

神清气爽!



日常开发场景（三）

The recent decline of such practices, especially in cities, in favour of choosing your own mate,

需求开发完了,准备提交测试...



- 1.先把 :path 的模块 push;
- 2.再把主工程里面 :path换成 :git
- 3.pod install
- 4.再 push 主工程...

又是好多分钟过去了...

日常开发场景（三）

The recent decline of such practices, especially in cities, in favour of choosing your own mate,

换个方式

如果你使用 bigkeeper

big feature finish

OK,收工。

日常开发场景（四）

The recent decline of such practices, especially in cities, in favour of choosing your own mate,

我是个小白,今天开发了新的模块,去主工程
update一下...



1.pod repo update

2.pod update

3.git push

会发生什么事...?

日常开发场景（四）

The recent decline of such practices, especially in cities, in favour of choosing your own mate,

换个方式

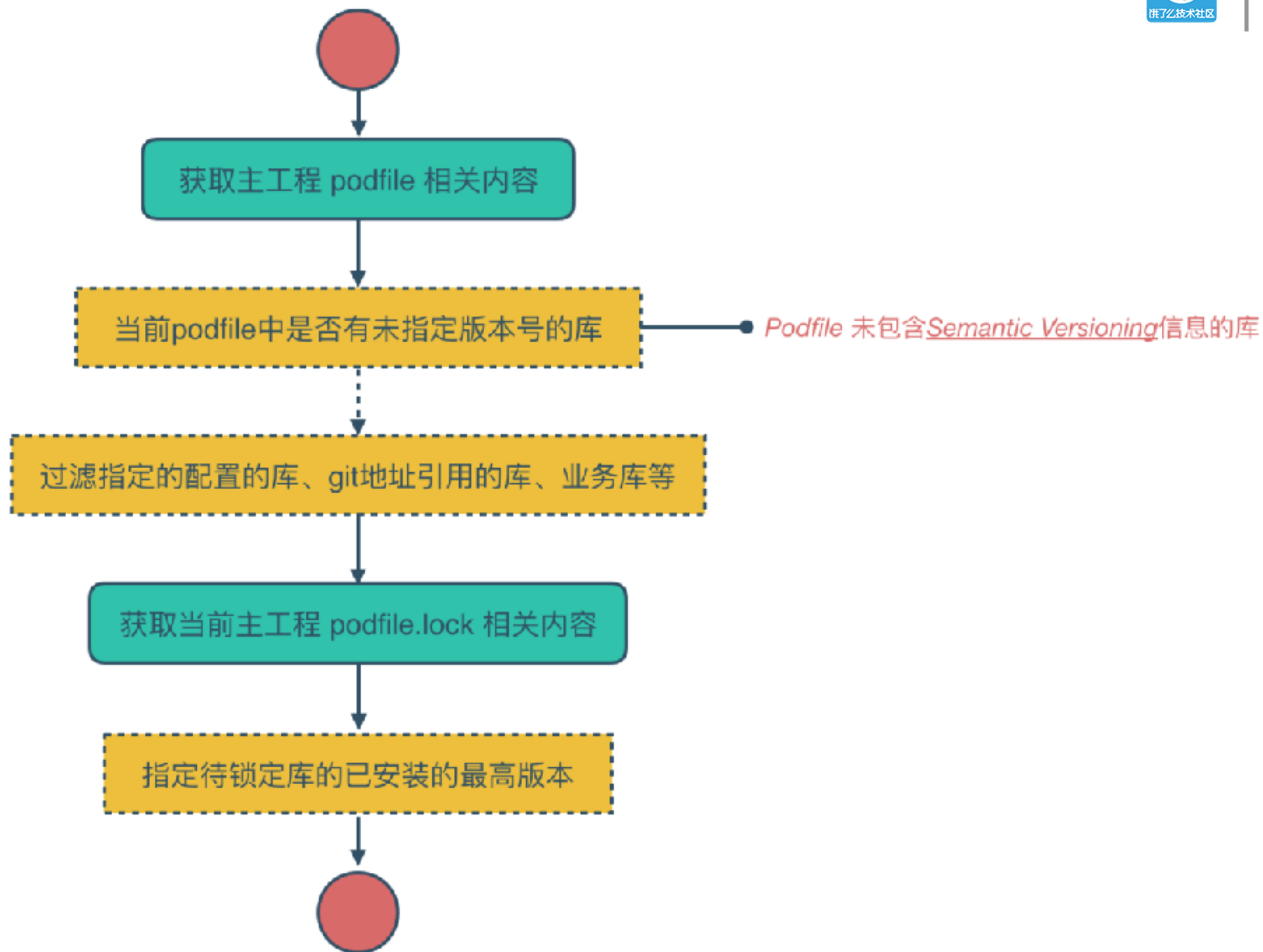
如果你使用 bigkeeper

big pod detect

big pod lock

big pod update

再也不怕翻车了！



日常开发场景（五）

The recent decline of such practices, especially in cities, in favour of choosing your own mate,

需求验收通过,改动的
模块终于可以发版了.

..



- 1.在 develop 分支 pod lib lint
- 2.改 podspec 中的version
- 3.rebase develop 到 master 分支
- 4.push, tag
- 5.pod repo push

以上都是理想状况, lint/push失败会导致不可预测问题...

日常开发场景（五）

The recent decline of such practices, especially in cities, in favour of choosing your own mate,

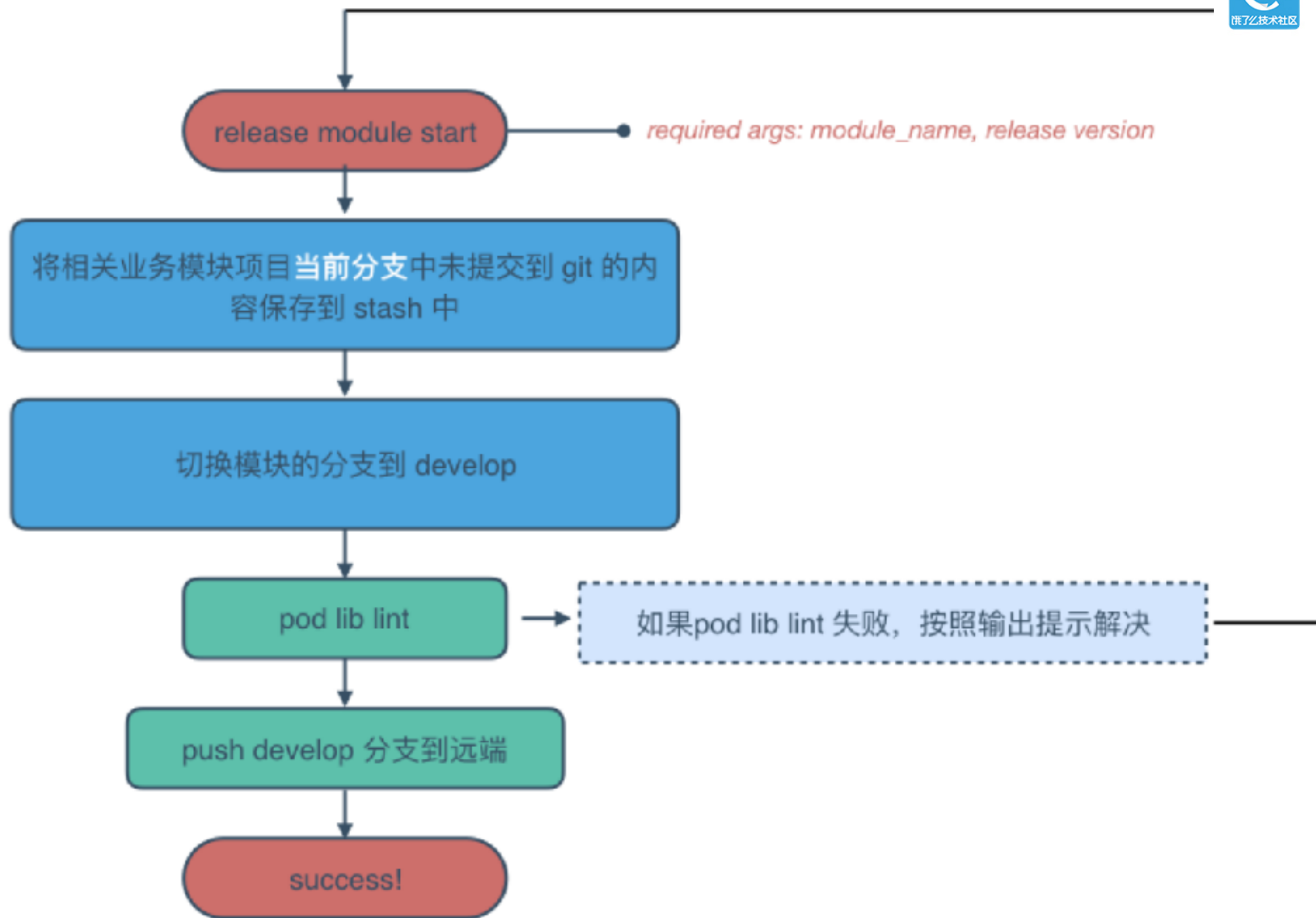
换个方式

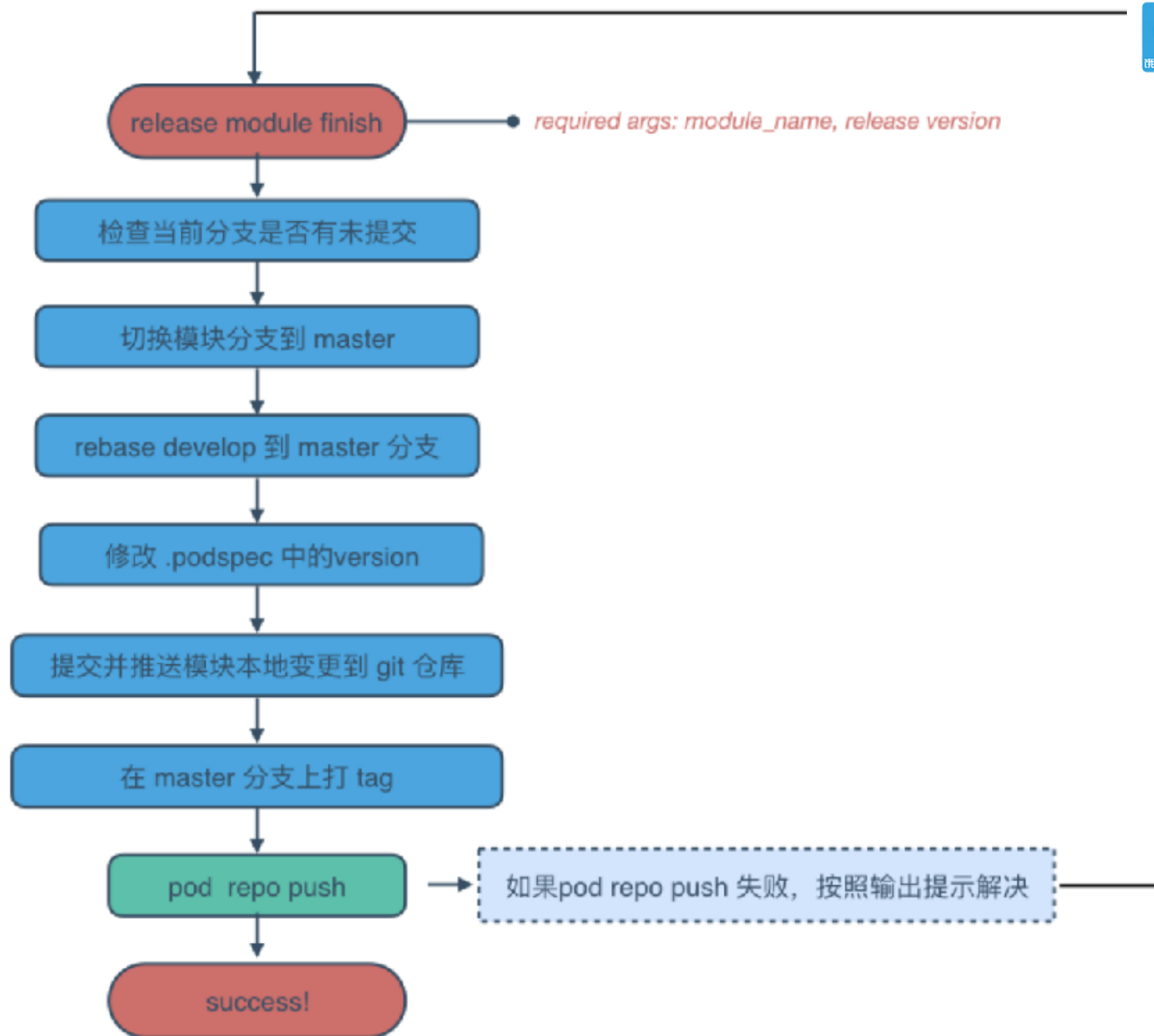
如果你使用 bigkeeper

big release module start (上图 1,2)

big release module finish (上图 3,4,5)

虽然你还是需要等 lint/push,但是一行指令还是舒服多了吧





日常开发场景（七）

The recent decline of such practices, especially in cities, in favour of choosing your own mate,

开发结束了,准备开始
发版!



- 1.从 develop 开一个 release 分支
- 2.把模块的引用改成 version ,改 version,build
- 3.合并 release到 develop
- 4.合并 release到 master
- 5.在master 上打上 tag.

终于结束了，可以打包提交了

日常开发场景（七）

The recent decline of such practices, especially in cities, in favour of choosing your own mate,

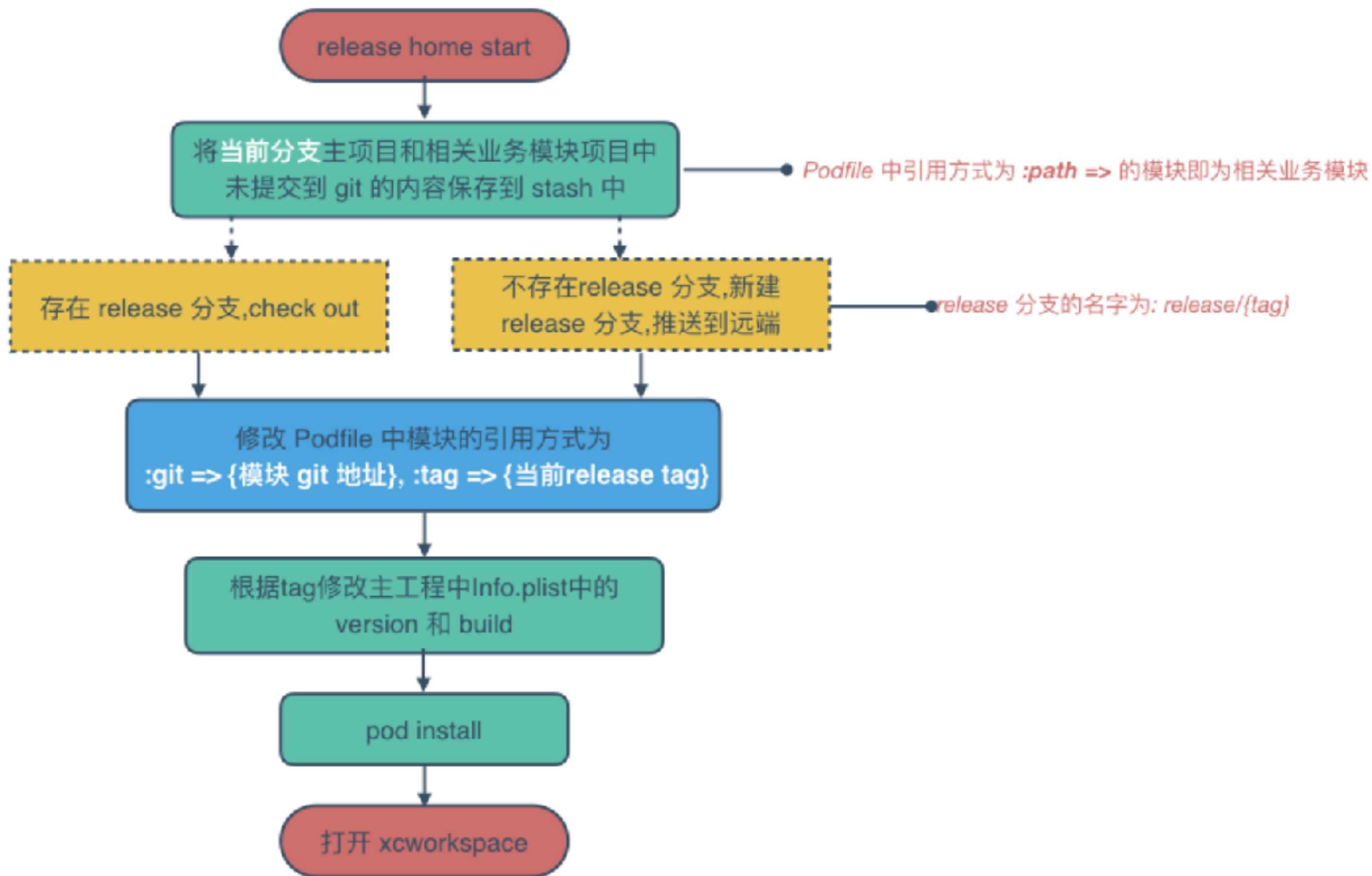
换个方式

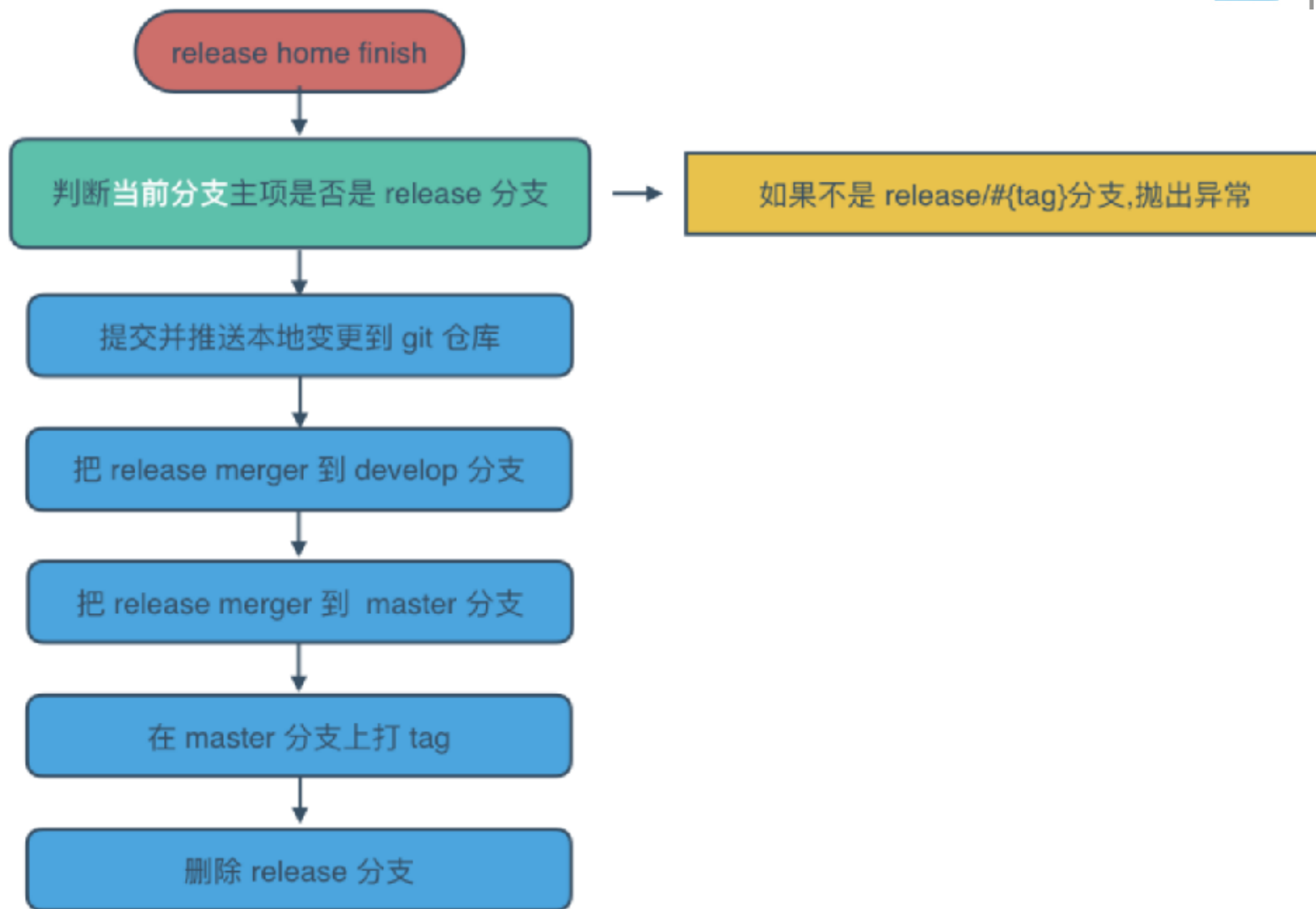
如果你使用 bigkeeper

big release home start (上图 1,2)

big release home finish (上图 3,4,5)

倒杯水回来就可以打包啦！





日常开发场景（六）

The recent decline of such practices, especially in cities, in favour of choosing your own mate,

是不是觉得效率飞升？

Part 04

Bigkeeper 安装&配置

如何接入Bigkeeper

The recent decline of such practices, especially in cities, in favour of choosing your own mate,

先通过 gem安装 bigkeeper

在项目根目录下配置 Bigkeeper 文件



```
version '3.0.2'
```

```
home 'BigKeeperMain', :git => 'git@github.com:BigKeeper/BigKeeperMain.git', :pulls =>
'https://github.com/BigKeeper/BigKeeperMain/pulls'
```

```
modules do
```

```
  mod 'BigKeeperUserCenterModule', :git => 'git@github.com:BigKeeper/BigKeeperUserCenterModule.g
'https://github.com/BigKeeper/BigKeeperUserCenterModule/pulls'
```

```
  mod 'BigKeeperOrderModule', :git => 'git@github.com:BigKeeper/BigKeeperOrderModule.git', :pulls
'https://github.com/BigKeeper/BigKeeperOrderModule/pulls'
```

```
end
```

```
user 'perry' do
```

```
  mod 'BigKeeperModular', :path => '../BigKeeperModular'
end
```

```
user 'tom' do
```

```
  mod 'BigKeeperModular', :path => '../BigKeeperModular'
end
```

Commands

The recent decline of such practices, especially in cities, in favour of choosing your own mate,

Feature/Hotfix

start
update
switch
finish
pull
push
publish
delete
list
rebase

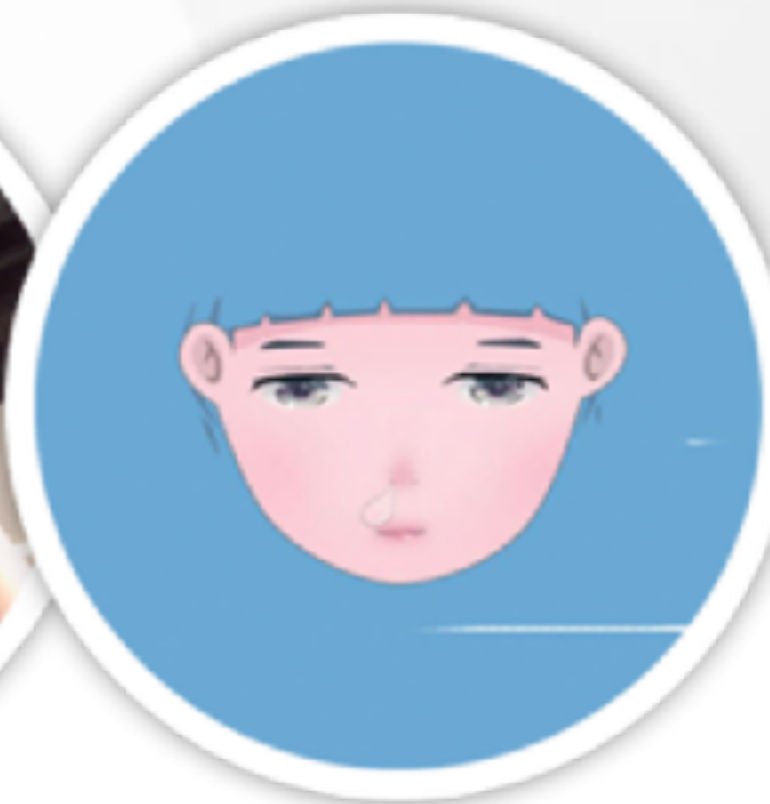
Release

home
module

Podfile

detect
lock
update

Team



THANK YOU

欢迎 Star&Pull Request&Issue