

Gradle Wrapper 入门

- Gradle Wrapper 的作用
- Gradle Wrapper 初始化及升级
- 使用 Gradle Wrapper 运行构建基本任务

Gradle for Android 入门

- 构建生命周期
- 构建配置文件及结构

```
MyApp
|——build.gradle
|——settings.gradle
|——app
|——settings.gradle
```



Gradle 插件

- 插件的继承关系
- Android Plugin extends Java Base Plugin
- > Java Base Plugin extends Base Plugin



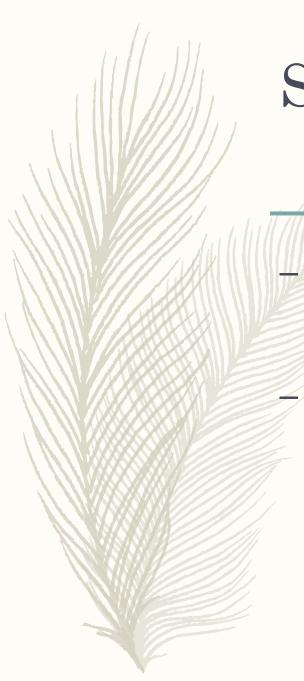
Gradle Task 入门

- X Base Plugin的任务约定
- ▶assemble:集合项目的输出
- ▶ clean: 清理项目的输出
- > check: 运行检查,通常是单元测试和集成测试
- ➤ build: 同时进行assemble 与check



Android Gradle Tasks

- >assemble: 为每个构建版本创建一个APK
- >clean: 删除所有的构建内容,包括APK
- > check: 运行Lint检查,如果Lint检查发现问题则构建终止
- ➤ build: 同时进行assemble与check
- ➤ Others.....



Set Default Task

defaultTasks 'clean', 'assDebug'

- ./gradlew tasks | grep "Default tasks"

Dependencies

- 依赖类型
- compile
- apk
- provided
- > xxxCompile



– groupID:name:major.minor.patch

- +

> 22.2.+

> 22.2+

>+

Variant

- bulidType
- ▶源集概念
- ➤依赖配置 xxxCompile

- product flavor
- ➢ flavorDimensions
- ▶flavor过滤器

多模块管理

- java依赖
- library依赖
- 加速构建 org.gradle.parallel=true
- 模块耦合 all projects

Groovy 入门

- "Gradle 就是Groovy"
- 完全兼容Java
- 类与成员变量
- 动态编程

def method='toString'
println(new Date()."\$method"())



闭包 squre 4

```
def squre = { num ->
                                  def squre = {
      num * num
                                        it * it
                                  squre 4
```

回到 Gradle for Android

```
apply plugin: 'com.android.application'
project.apply([plugin: 'com.android.application'])
dependencies {
    compile 'com.android.support:appcompat-v7:25.1.0'
project.dependencies({
     dependencies.add('compile','com.android.support:appcompat-v7:25.1.0')
```

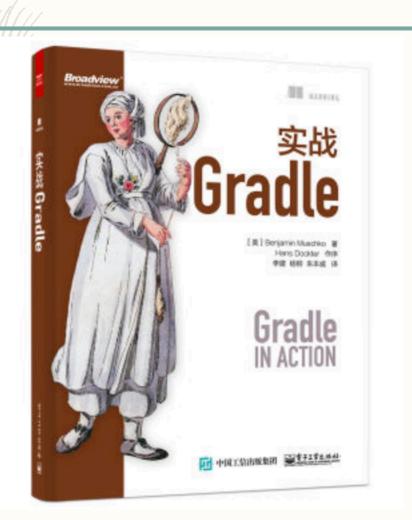
自定义Task

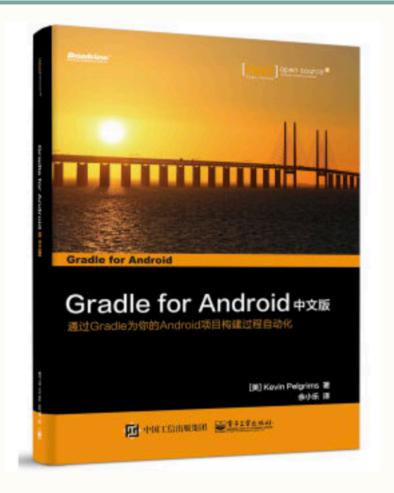
- task
- <<
- 任务剖析
 - doFirst
 - doLast
 - mustRunAfter
 - dependsOn

简单的应用: 使用task打开Settings

```
task openSetting << {
  exec {
    def adb = android.getAdbExe().toString()
    executable = "$adb"
    args = ['shell', 'am', 'start', '-n',
'com.android.settings/com.android.settings.Settings']
```

Good Books







Thank you.