Groovy

Gradle

0.0.1　执行流程

There is a one-to-one relationship between a Project and a "build.gradle" file. During build initialisation, Gradle assembles a Project object for each project which is to participate in the build, as follows:

Create a Settings instance for the build. Evaluate the "settings.gradle" script, if present, against the Settings object to configure it. Use the configured Settings object to create the hierarchy of Project instances. Finally, evaluate each Project by executing its "build.gradle" file, if present, against the project. The projects are evaluated in breadth-wise order, such that a project is evaluated before its child projects. This order can be overridden by calling evaluationDependsOnChildren() or by adding an explicit evaluation dependency using evaluationDependsOn(String).

0.0.2　repositories

在 Gradle 构建标本 build.gradle 里，经常会看到如下脚本：

```
repositories {
    maven {
        url 'http://www.eveoh.nl/files/maven2'
    }
    maven {
        url 'http://repox.gtan.com:8078'
    }
    mavenCentral()
    jcenter()
    maven { url 'http://repo.spring.io/plugins-release' }
}
```

总的来说，只有两个标准的 library 文件服务器：Jcenter 和 Maven Central。起初，Android Studio 选择 Maven Central 作为默认仓库。如果你使用老版本的 Android Studio 创建一个新项目，mavenCentral() 会自动的定义在 build.gradle

中。但是 Maven Central 的最大问题是对开发者不够友好。上传 library 异常困难。上传上去的开发者都是某种程度的极客。同时还因为诸如安全方面的其他原因，Android Studio 团队决定把默认的仓库替换成 jcenter。正如你看到的，一旦使用最新版本的 Android Studio 创建一个项目，jcenter() 自动被定义，而不是 mavenCentral()。mavenCentral() 表示依赖是从 Central Maven 2 仓库中获取的，库的地址是 `https://repo1.maven.org/maven2`。jcenter 表示依赖是从 Bintary's JCenter Maven 仓库中获取的，仓库的地址是 `https://jcenter.bintray.com`，bintray 是一家提供全球企业软件开发包托管的商业公司。

0.0.3　属性 (Properties)

Extra Properties

extra 属性一般用于定义常量，All extra properties[1] must be defined through the "ext" namespace. Once an extra property has been defined, it is available directly on the owning object (in the below case the Project, Task, and sub-projects respectively) and can be read and updated. Only the initial declaration that needs to be done via the namespace.

```
buildscript {
    ext {
        springBootVersion = '1.4.5.RELEASE'
        jacksonVersion = '2.8.7'
        springfoxVersion = '2.6.1'
        poiVersion = "3.14"
        aspectjVersion = '1.7.4'
    }
}
```

Reading extra properties is done through the "ext" or through the owning object. ext.isSnapshot = version.endsWith("-SNAPSHOT") if (isSnapshot) // do snapshot stuff

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[1] `https://docs.gradle.org/current/javadoc/org/gradle/api/Project.html#extraproperties`

Part I

Tool

0.1 Curl

```
1  curl 'http://59.214.215.6:3800/inapi/united/detail?param=%E8%B0%8A
          %E5%BE%B7%E5%AE%9E%E4%B8%9A&reds=&blacks=
          TS_F_HEIMINGDAN_C500033,TS_F_HEIMINGDAN' −H '
          Pragma: no−cache' −H 'HL−APP−KEY:
          CreditChongqingSharePortal' −H 'DNT: 1' −H 'Accept−
          Encoding: gzip, deflate, sdch' −H 'Accept−Language: zh−CN,zh;q
          =0.8,en;q=0.6,zh−TW;q=0.4' −H 'User−Agent: Mozilla/5.0 (X11
          ; Fedora; Linux x86_64) AppleWebKit/537.36 (KHTML, like
          Gecko) Chrome/55.0.2883.87 Safari/537.36' −H 'Accept:
          application/json, text/plain, */*' −H 'Cache−Control: no−cache'
          −H 'HL−CURRENT−URL: http://59.214.215.6:3800/main/
          search/unitedListQuery' −H 'Referer: http://59.214.215.6:3800/
          main/search/unitedListQuery' −H 'Cookie: UM_distinctid=15
          b667c97f65a−0afddd1bed9cb8−1421150f−15f900−15b667c97f737f;
           CNZZDATA1257579122=576897936−1492070602−http%253A
          %252F%252F59.214.215.6%253A8081%252F%7C1492393083; cc−o
          −t=
          ZnNoeEpnMXZUcklpRXAyTm9ReXhwWTdNSFFUMnptZ2NOdmFDWlhPajhlakRvYYk1eEtRem53enJMNVpzdU5HF
          ' −H 'Connection: keep−alive' −−compressed
```

0.2 LaTex

0.2.1 字体

Computer Modern 是自由软件 TeX 的默认字体，为美国计算机科学家高德纳（Donald Knuth）使用 METAFONT 软件创造。但是此字体不是很漂亮，所以考虑换一个字体。