

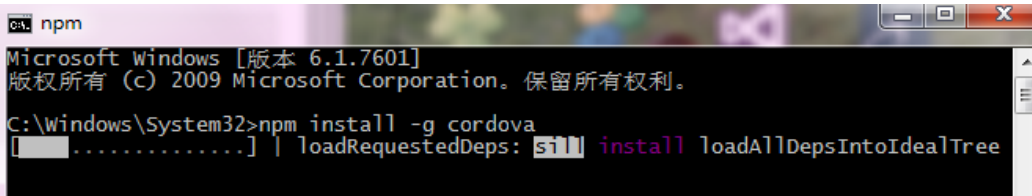
## WebStorm 之 Cordova 环境搭建

### 一、环境搭建

Cordova 环境配置之前，应先下载安装 Node.js，[中文官网](http://nodejs.cn/)：http://nodejs.cn/。

以管理员身份运行 cmd 命令行工具：

- 1、查看 Node.js 是否已安装成功，命令为：node -v
- 2、查看 npm 是否已安装，命令为：npm -v
- 3、Cordova 安装，命令为：npm install -g cordova，C:\Users\Administrator\AppData\Roaming\npm会生成对应的.cmd文件

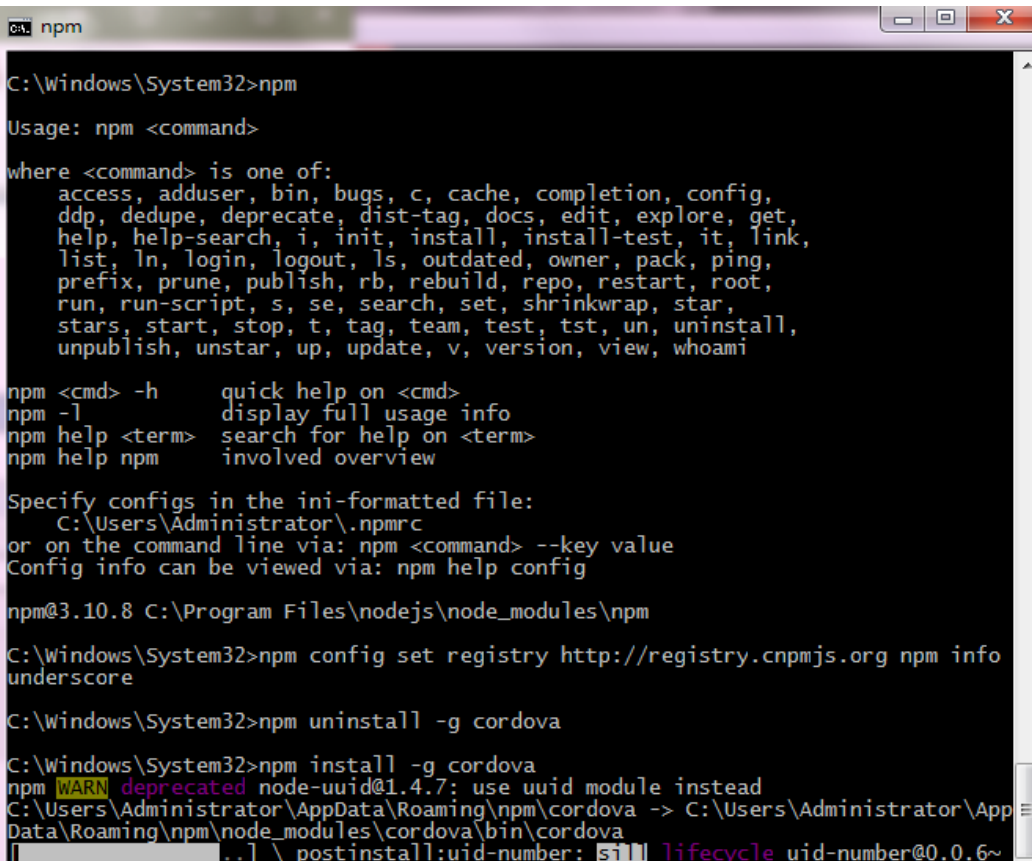


```
C:\Windows\System32>npm install -g cordova
[.....] | loadRequestedDeps: [.....] install loadAllDepsIntoIdealTree
```

如果慢，可以修改镜像，再进行安装。

npm config set registry http://registry.cnpmjs.org npm info underscore

npm install -g cordova



```
C:\Windows\System32>npm
Usage: npm <command>
where <command> is one of:
  access, adduser, bin, bugs, c, cache, completion, config,
  ddp, dedupe, deprecate, dist-tag, docs, edit, explore, get,
  help, help-search, i, init, install, install-test, it, link,
  list, ln, login, logout, ls, outdated, owner, pack, ping,
  prefix, prune, publish, rb, rebuild, repo, restart, root,
  run, run-script, s, se, search, set, shrinkwrap, star,
  stars, start, stop, t, tag, team, test, tst, un, uninstall,
  unpublish, unstar, up, update, v, version, view, whoami
npm <cmd> -h      quick help on <cmd>
npm -l           display full usage info
npm help <term>  search for help on <term>
npm help npm     involved overview
Specify configs in the ini-formatted file:
  C:\Users\Administrator\.npmrc
or on the command line via: npm <command> --key value
Config info can be viewed via: npm help config
npm@3.10.8 C:\Program Files\nodejs\node_modules\npm
C:\Windows\System32>npm config set registry http://registry.cnpmjs.org npm info
underscore
C:\Windows\System32>npm uninstall -g cordova
C:\Windows\System32>npm install -g cordova
npm WARN deprecated node-uuid@1.4.7: use uuid module instead
C:\Users\Administrator\AppData\Roaming\npm\cordova -> C:\Users\Administrator\AppData\Roaming\npm\node_modules\cordova\bin\cordova
[.....] \ postinstall:uid-number: [.....] lifecycle uid-number@0.0.6~
```

安装成功后做版本查看测试，命令为：cordova -version

```
管理员: Windows 命令处理程序

-- package-json@1.2.0
+-- got@3.3.1
| +-- duplexify@3.5.0
| | +-- end-of-stream@1.0.0
| | | -- once@1.3.3
| | -- stream-shift@1.0.0
| +-- infinity-agent@2.0.3
| +-- is-redirect@1.0.0
| +-- is-stream@1.1.0
| +-- lowercase-keys@1.0.0
| +-- nested-error-stacks@1.0.2
| +-- object-assign@3.0.0
| +-- prepend-http@1.0.4
| +-- read-all-stream@3.1.0
| -- timed-out@2.0.0
-- registry-url@3.1.0
-- rc@1.1.6
| +-- deep-extend@0.4.1
| +-- ini@1.3.4
| -- strip-json-comments@1.0.4
+-- repeating@1.1.3
| -- is-finite@1.0.2
| -- number-is-nan@1.0.1
+-- semver-diff@2.1.0
-- string-length@1.0.1

C:\Windows\System32>cordova -version
? May Cordova anonymously report usage statistics to improve the tool over time?
? May Cordova anonymously report usage statistics to improve the tool over time?
No
You have been opted out of telemetry. To change this, run: cordova telemetry on.
6.4.0
C:\Windows\System32>
```

4. ionic 安装, 命令为: npm install -g ionic, C:\Users\Administrator\AppData\Roaming\npm会生成对应的.cmd文件  
安装成功后做版本查看测试, 命令为: ionic -version

```
管理员: Windows 命令处理程序

a) Put your images in the ./resources directory, named splash
or icon. Accepted file types are .png, .ai, and .psd.
Icons should be 192x192 px without rounded corners.
Splashscreens should be 2208x2208 px, with the image centered in the middle.

upload ..... Upload an app to your Ionic account
share ..... Share an app with a client, co-worker, friend, or customer

lib ..... Gets Ionic library version or updates the Ionic library
login ..... Login to your Ionic account
io ..... Integrate your app with Ionic Cloud services
security ..... Store your app's credentials for the Ionic Cloud
push ..... Upload APNS and GCM credentials to Ionic Push
package ..... Use Ionic Package to build your app
config ..... Set configuration variables for your ionic app
service ..... Add an Ionic service package and install any required plugins

add ..... Add an Ion, bower component, or addon to the project
remove ..... Remove an Ion, bower component, or addon from the project
list ..... List Ions, bower components, or addons in the project
info ..... List information about the users runtime environment
help ..... Provides help for a certain command
link ..... Sets your Ionic App ID for your project
hooks ..... Manage your Ionic Cordova hooks
state ..... Saves or restores state of your Ionic Application using the package.json file
docs ..... Opens up the documentation for Ionic

C:\Windows\System32>ionic -version
2.1.18
C:\Windows\System32>
```

ios-sim 安装, 命令为: npm install -g ios-sim, C:\Users\Administrator\AppData\Roaming\npm会生成对应的.cmd文件  
安装成功后做版本查看测试, 命令为: ios-sim -version

```
管理员: 命令提示符
(c) 2016 Microsoft Corporation。保留所有权利。
C:\WINDOWS\system32>npm -v
3.10.10
C:\WINDOWS\system32>npm install -g ios-sim
C:\Users\yi081\AppData\Roaming\npm\ios-sim -> C:\Users\yi081\AppData\Roaming\npm\node_modules\ios-sim\bin\ios-sim
C:\Users\yi081\AppData\Roaming\npm
-- ios-sim@5.0.13
+-- bplist-parser@0.0.6
+-- nopt@1.0.9
|   -- abbrev@1.1.0
+-- plist@1.2.0
|   -- base64-js@0.0.8
|   -- util-deprecate@1.0.2
|   -- xmlbuilder@4.0.0
|       -- lodash@3.10.1
|       -- xml-dom@0.1.27
-- simctl@0.1.0
+-- shelljs@0.2.6
-- tail@0.4.0
```

5、查看 Java 版本信息，命令为：java -version

```
管理员: Windows 命令处理程序
C:\Windows\System32>java -version
java version "1.8.0_101"
Java(TM) SE Runtime Environment (build 1.8.0_101-b13)
Java HotSpot(TM) 64-Bit Server VM (build 25.101-b13, mixed mode)
C:\Windows\System32>
```

配置 JAVA\_HOME 系统环境变量（已配置直接跳过）：JAVA\_HOME=C:\Program Files\Java\jdk1.8.0\_101

6、查看 ant 版本信息，定位至 Apache Ant 解压目录，ant -version（可跳过）

官网地址：<http://ant.apache.org/>

```
管理员: Windows 命令处理程序
C:\Windows\System32>d:
D:\Program Files (x86)\Microsoft Visual Studio 14.0\Apps\apache-ant-1.9.3\bin>ant -version
Apache Ant(TM) version 1.9.3 compiled on December 23 2013
D:\Program Files (x86)\Microsoft Visual Studio 14.0\Apps\apache-ant-1.9.3\bin>
```

7、配置 Andorid 环境变量

path环境变量添加：D:\Program Files\Android\Android\Sdk\android-sdk\platform-tools;D:\Program Files\Android\Android\Sdk\android-sdk\tools;

添加系统变量：ANDROID\_HOME=C:\Program Files (x86)\Android\android-sdk

注：明确知道 adb.exe 的位置（android 2.3 及以上是在 android-sdk\platform-tools 目录下面的，而 2.2 及以下是放在 android-sdk\tools 目录下面），可只在 path 变量中添加其目录。

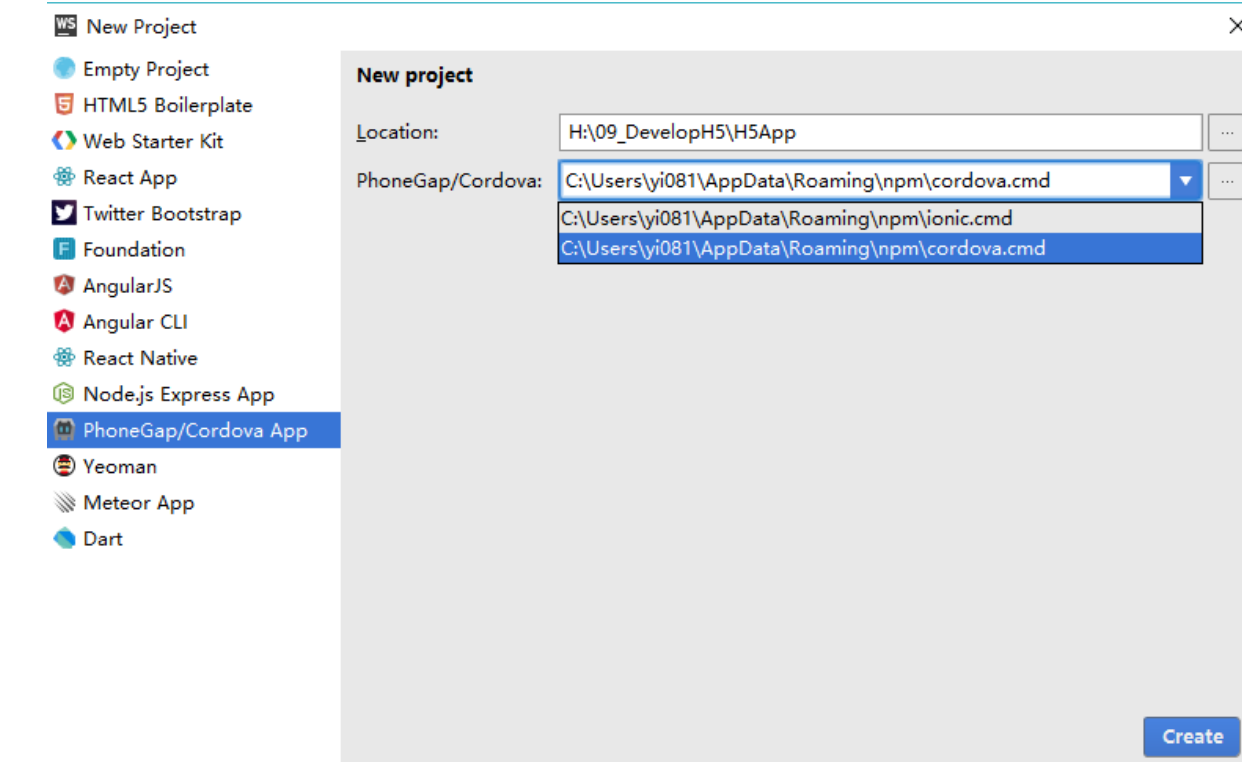
8、查看 adb 版本信息，命令为：adb version

```
管理员: Windows 命令处理程序
C:\Windows\System32>adb version
Android Debug Bridge version 1.0.32
C:\Windows\System32>
```

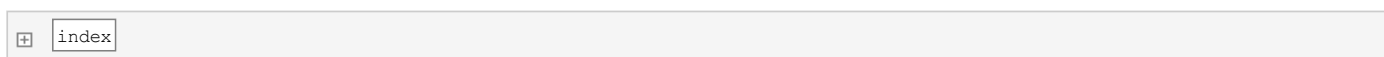
9、重启电脑....

## 二、环境测试

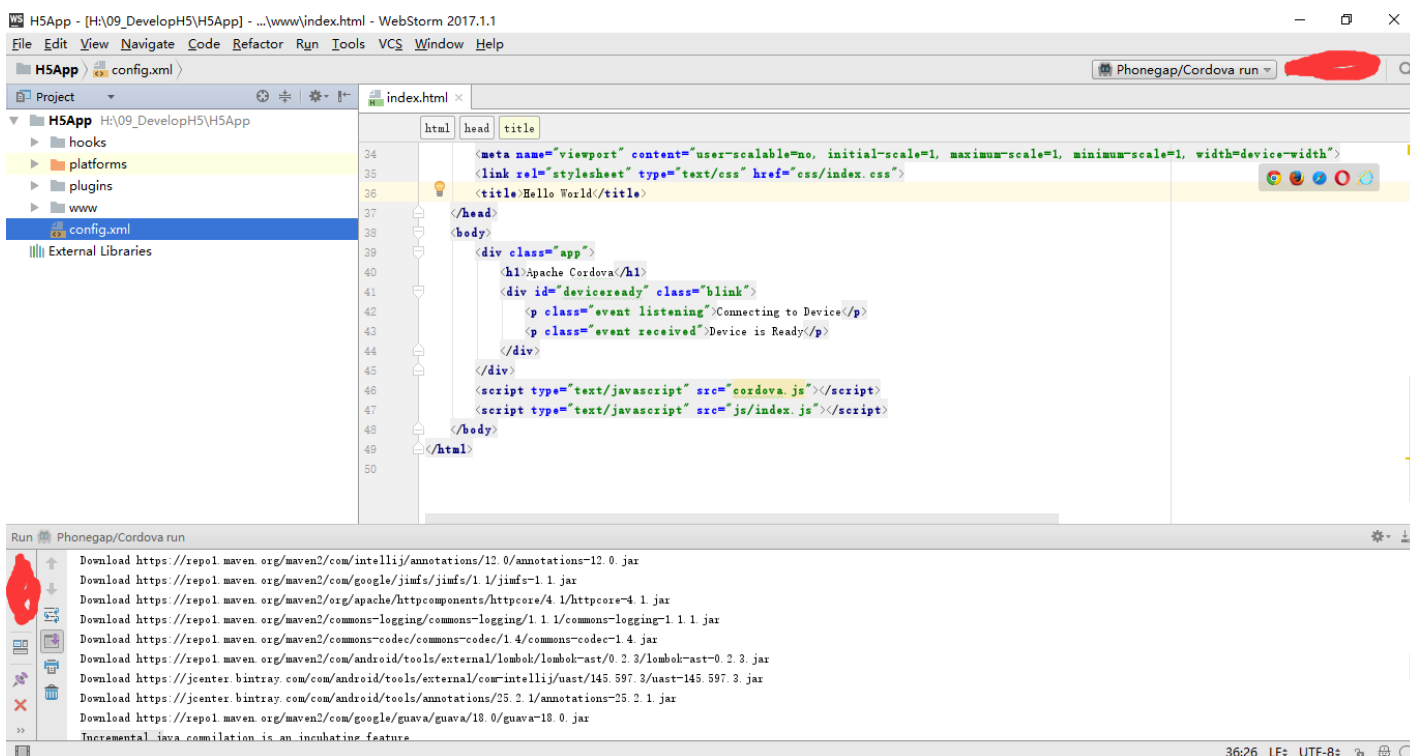
1、创建工程



index.html内容代码如下:



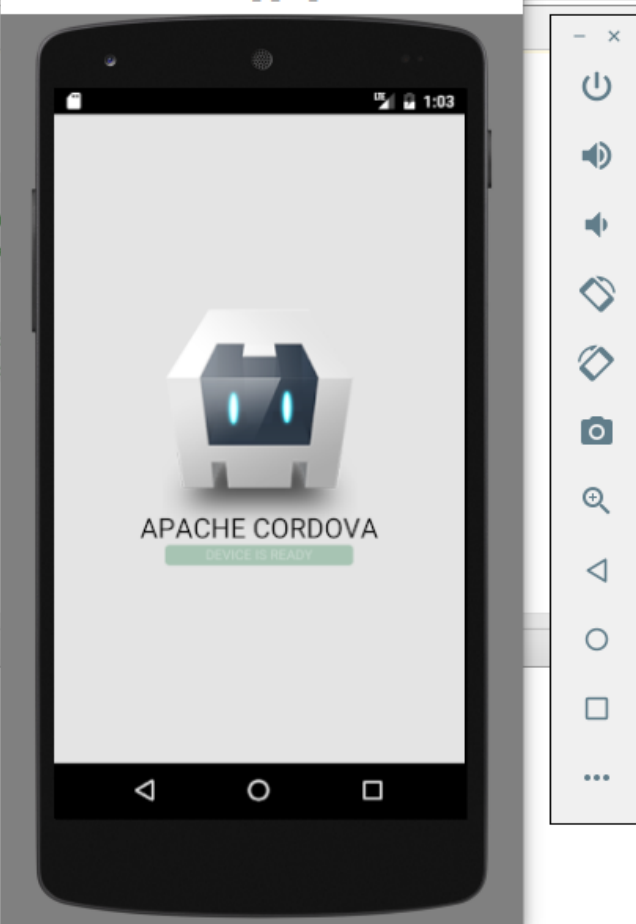
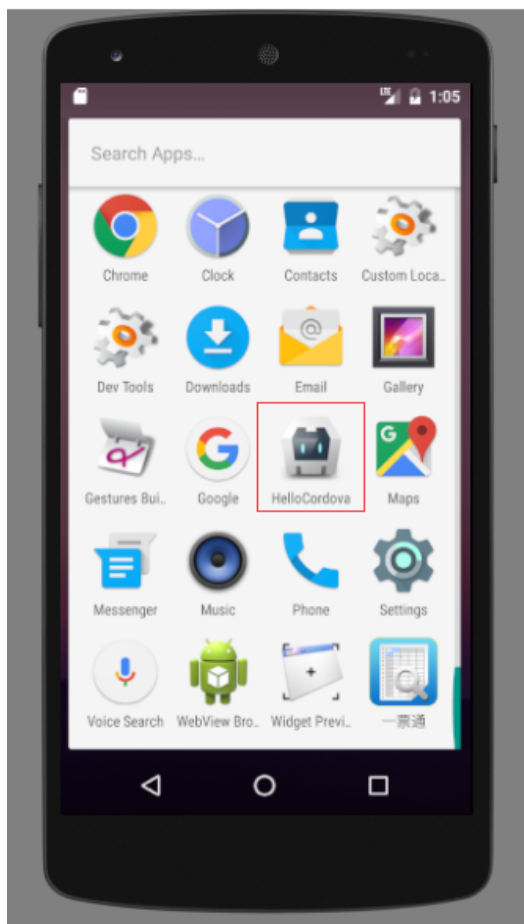
## 2. 编译, 运行



注意: android模拟器首次运行需要下载安装配置模拟器, 故运行缓慢, 再次编译运行可直接启动模拟器。

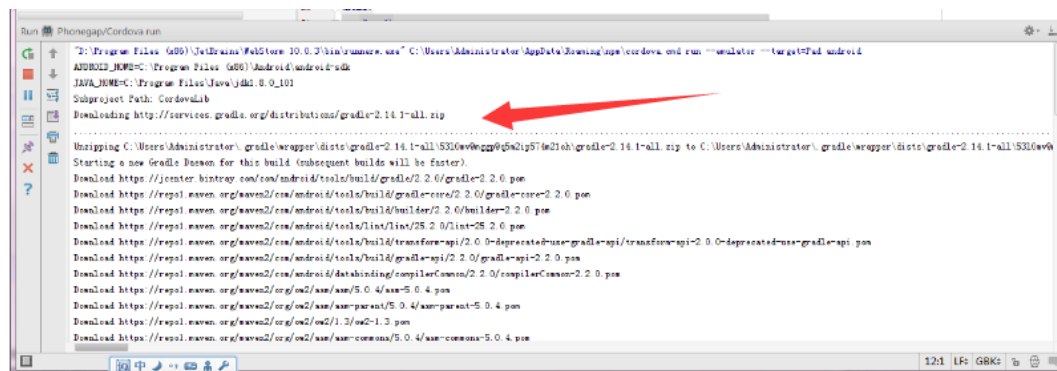
3. 安装包所在目录: platforms\android\build\outputs\apk

4. 运行模拟器测试, 如下图:

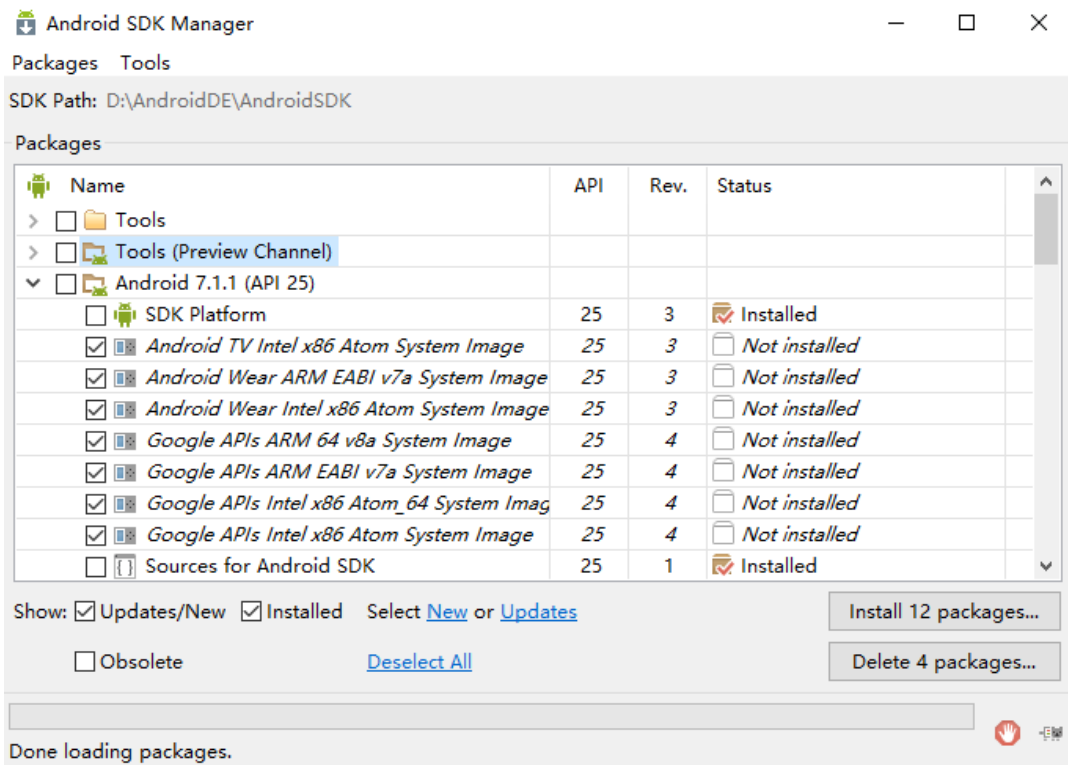


### 三、注意问题

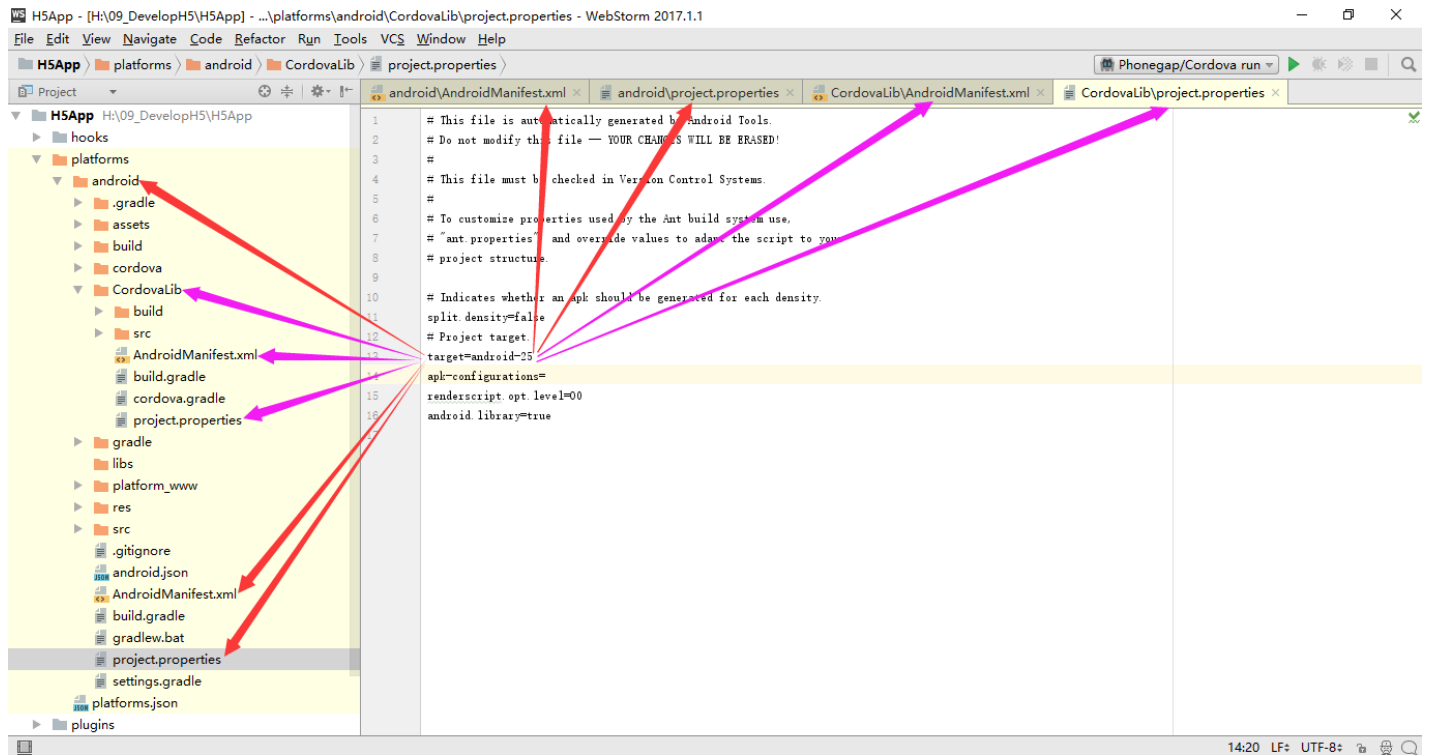
- 1、WebStorm编译依赖于gradle，WebStorm编译过程中自动下载，时间较长



- 2、Android版本不对，WebStorm创建工程生成的Android版本高，需要在Android SDK Manager中下载



3、Android SDK版本统一，platform/android/ 和 platform/android/CordovaLib 各自目录中的 AndroidManifest.xml 和 project.properties 文件中统一一致。



来源: <http://www.cnblogs.com/xinaixia/p/6756779.html>