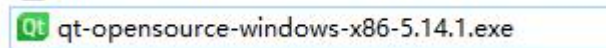


Qt for android 的移植

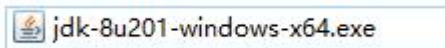
1. 安装 Qt

选择版本 Qt 5.14.1



2. 安装 JDK

使用 1.8.0.201 版本



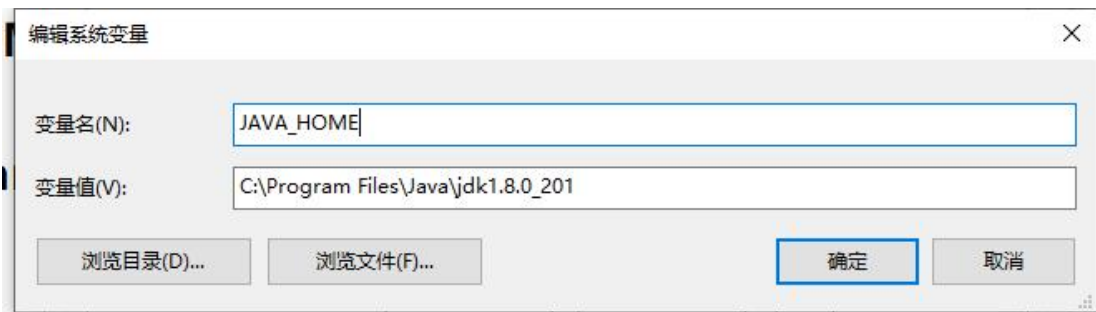
2.1 安装 JDK

双击安装包后，安装默认配置一路 next。
安装完后，会同时安装 jdk 和 jre.

2.2 添加环境变量(JAVA_HOME)

JAVA_HOME

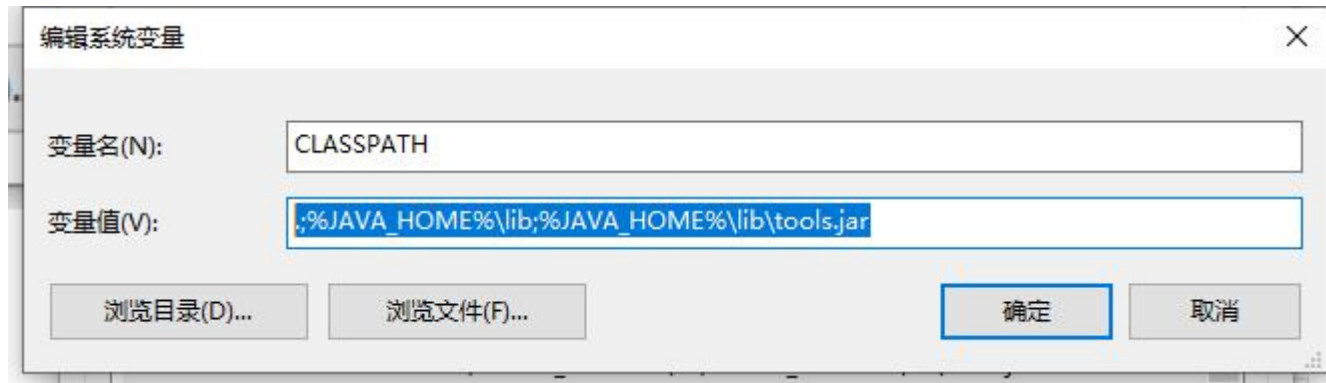
C:\Program Files\Java\jdk1.8.0_201



2.3 添加环境变量(CLASSPATH)

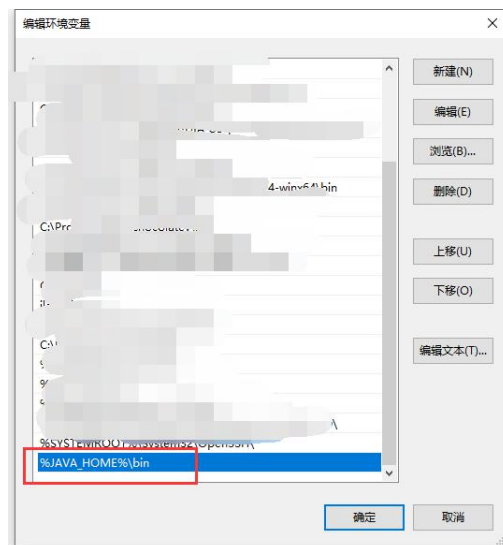
CLASSPATH

.;%JAVA_HOME%\lib;%JAVA_HOME%\lib\tools.jar



2.4 修改环境变量(Path)

添加: %JAVA_HOME%\bin



检查效果:

```
C:\Users\Administrator>javac -version  
javac 1.8.0_201
```

3. 安装 Android SDK

3.1 下载 android sdk manager

使用版本: installer_r24.4.1-windows.exe



3.2 配置 hosts 目录

因为谷歌已经被墙，需要修改谷歌官网的解析地址。

打开目录: C:\Windows\System32\drivers\etc

修改 hosts 文件，在文件的末尾添加:

```
203.208.39.192      dl-ssl.google.com
```

3.3 安装

双击 installer_r24.4.1-windows.exe 安装!

安装完后，会自动打开 android sdk manager




注意，安装过程中，不要使用默认目录，以免占用 C 盘太多磁盘空间。


我指定的是: E:\android\android_SDK

需要先创建这个目录 (E:\android\android_SDK)

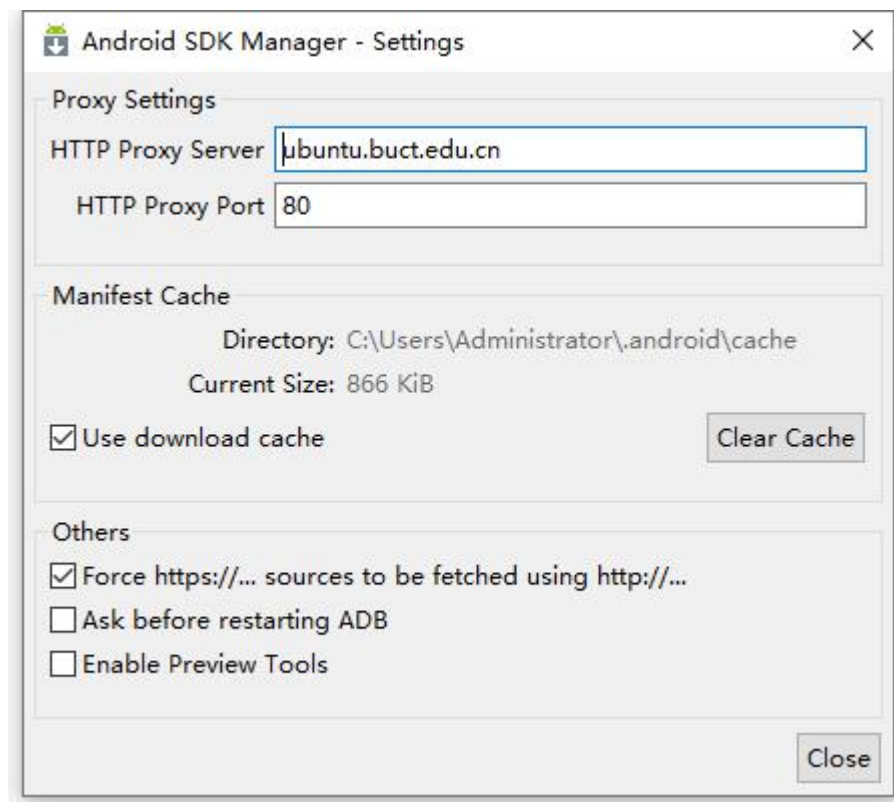
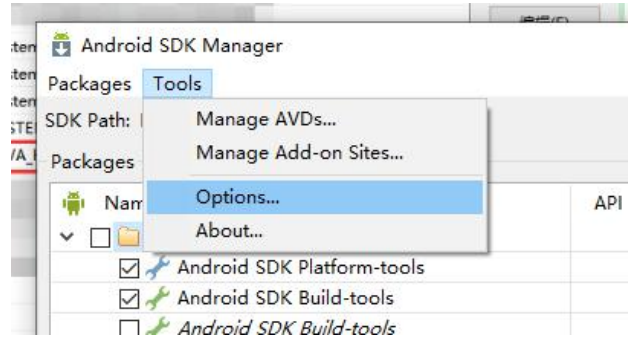
3.3 配置 android sdk manager

第一次打开 android sdk manager 时，保持选择即可。确保以下选项已经勾选:

	Name	API	Rev.
<input type="checkbox"/>	Tools		
<input checked="" type="checkbox"/>	 Android SDK Platform-tools		29.0.6
<input checked="" type="checkbox"/>	 Android SDK Build-tools		29.0.3

✓  Android 10 (API 29)	
✓  SDK Platform	29
✓  Intel x86 Atom_64 System Image	29
✓  Intel x86 Atom System Image	29
✓  Google Play Intel x86 Atom_64 System Imag	29
✓  Google Play Intel x86 Atom System Image	29
✓  Google APIs Intel x86 Atom_64 System Imag	29
✓  Google APIs Intel x86 Atom System Image	29
✓  Sources for Android SDK	29

安装完后，最后可能会提示部分安装包安装失败，修改

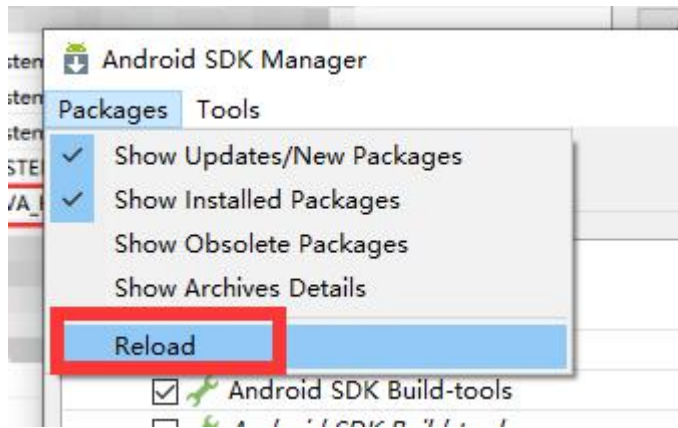


Http Proxy Server: ubuntu.buct.edu.cn

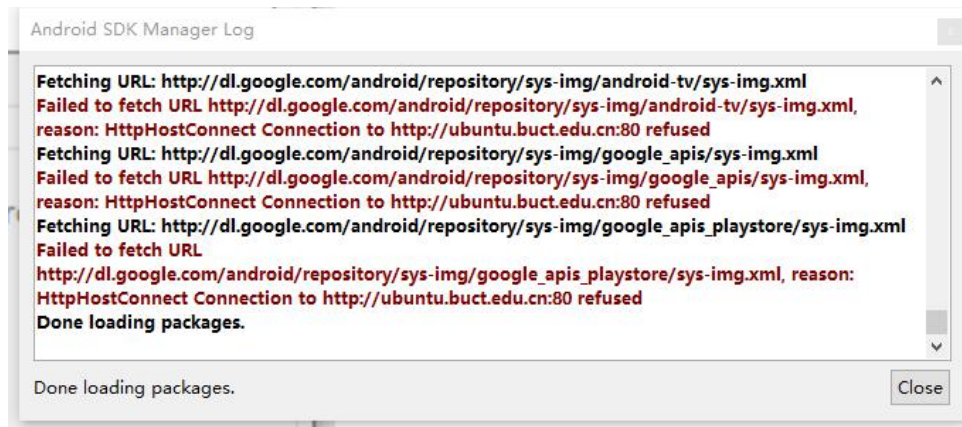
端口: 80

勾选 Force https:// ...

单击 close, 再重新加载:



重新加载后, 可能还是会提示部分安装包没有安装, 只要上面必选的安装选项安装成功了, 也能够移植成功。



如果要想全部都安装成功, 只有考虑翻墙了。(也可以考虑在 android studio 中安装, 没有测试过!)

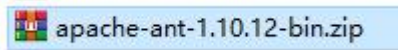
3.4 添加 SDK 的环境变量

把 SDK 下的平台工具目录: `E:\android\android_SDK\platform-tools`
添加到 Path 环境变量。

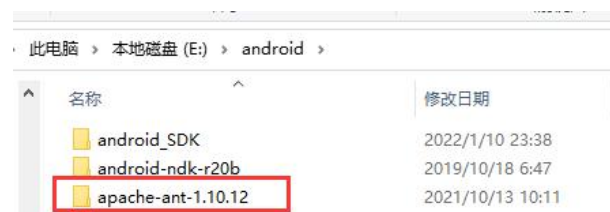
注意: 不添加, 也不影响 Qt 的移植。

4. 安装 Android NDK

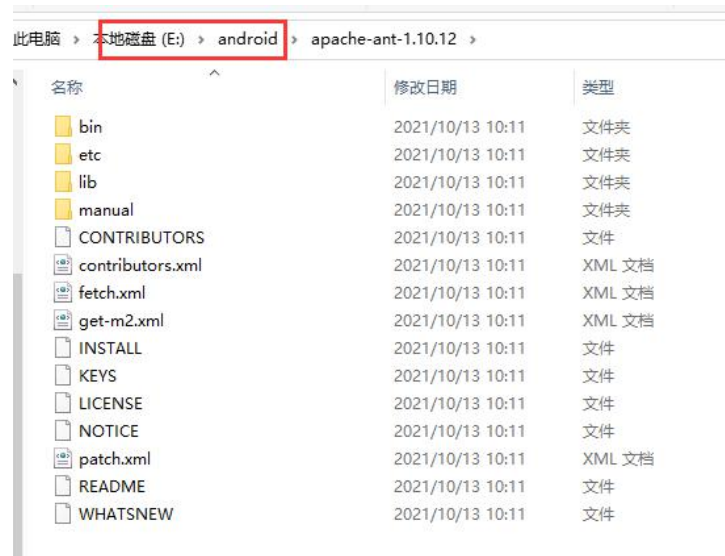
4.1 下载 apache-ant-1.10.12-bin.zip



4.2 解压到 E:/android 目录下：

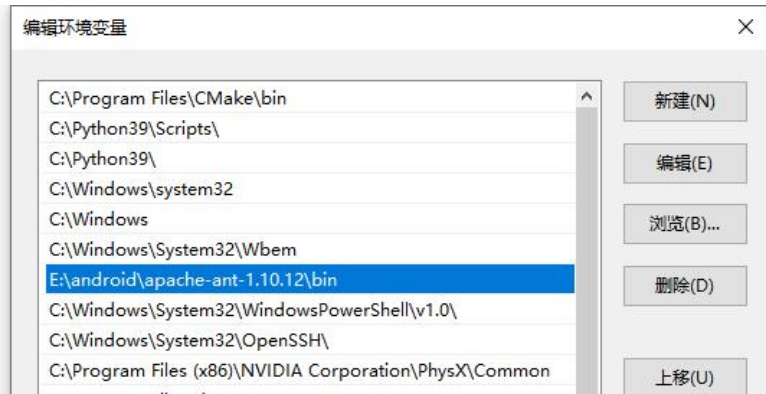


进入解压目录后，文件效果如下：



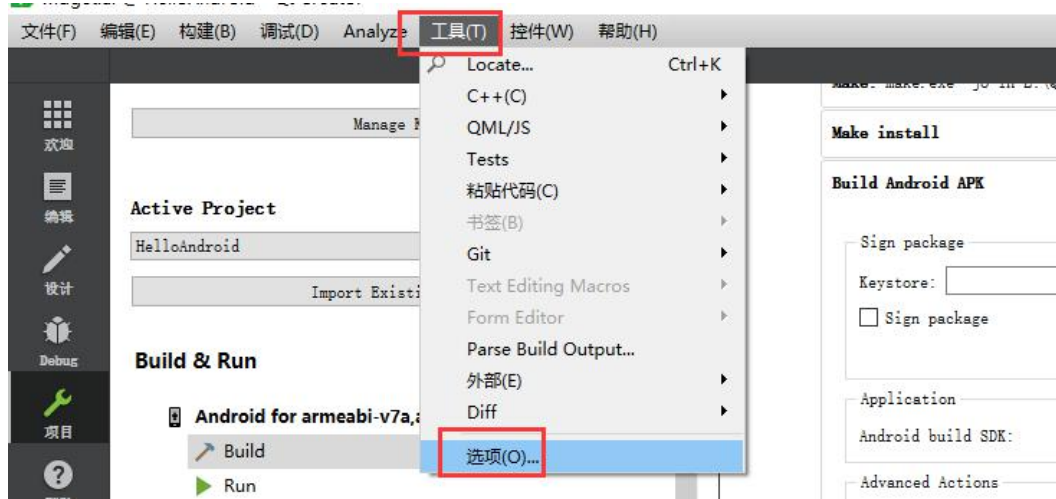
4.3 添加环境变量

在 Path 环境变量中，添加：E:\android\apache-ant-1.10.12\bin

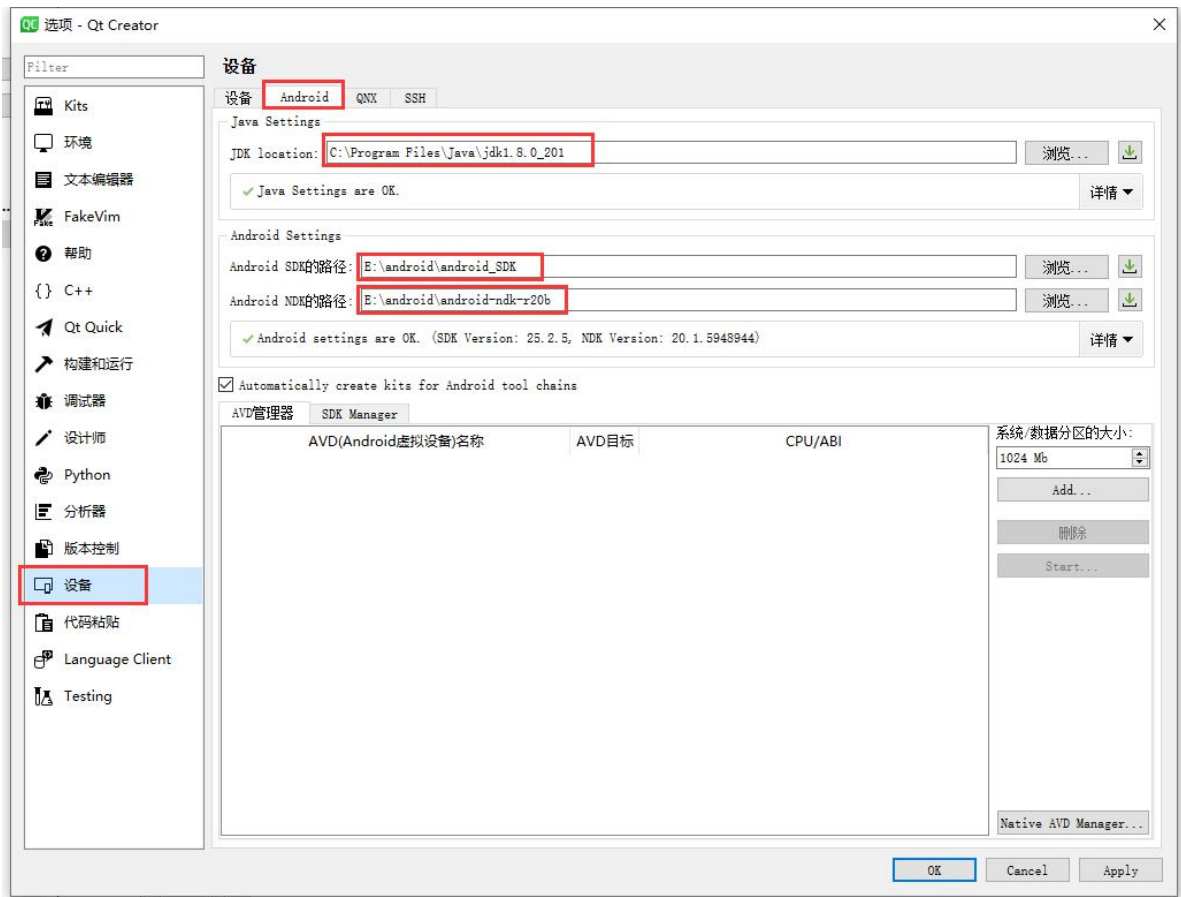


5. 配置 Qt Creator

打开 Qt Creator



配置如下：



Jdk location:

C:\Program Files\Java\jdk1.8.0_201

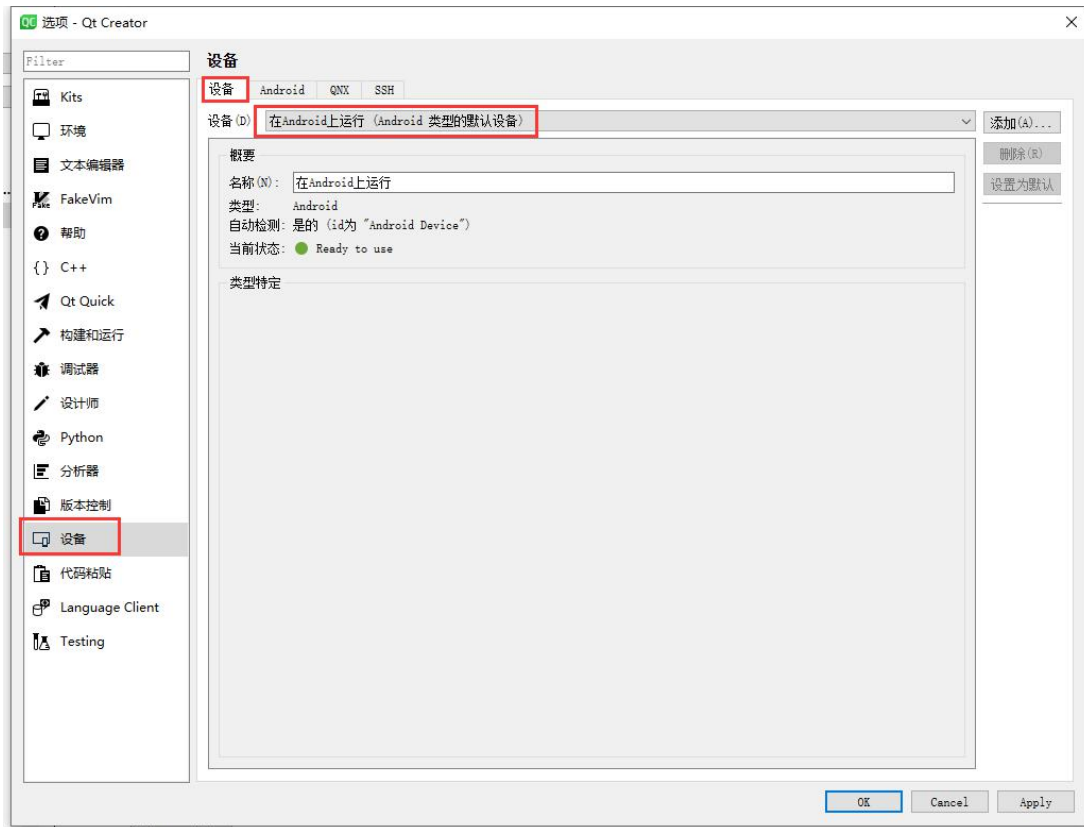
Android sdk 路径:

E:\android\android_SDK

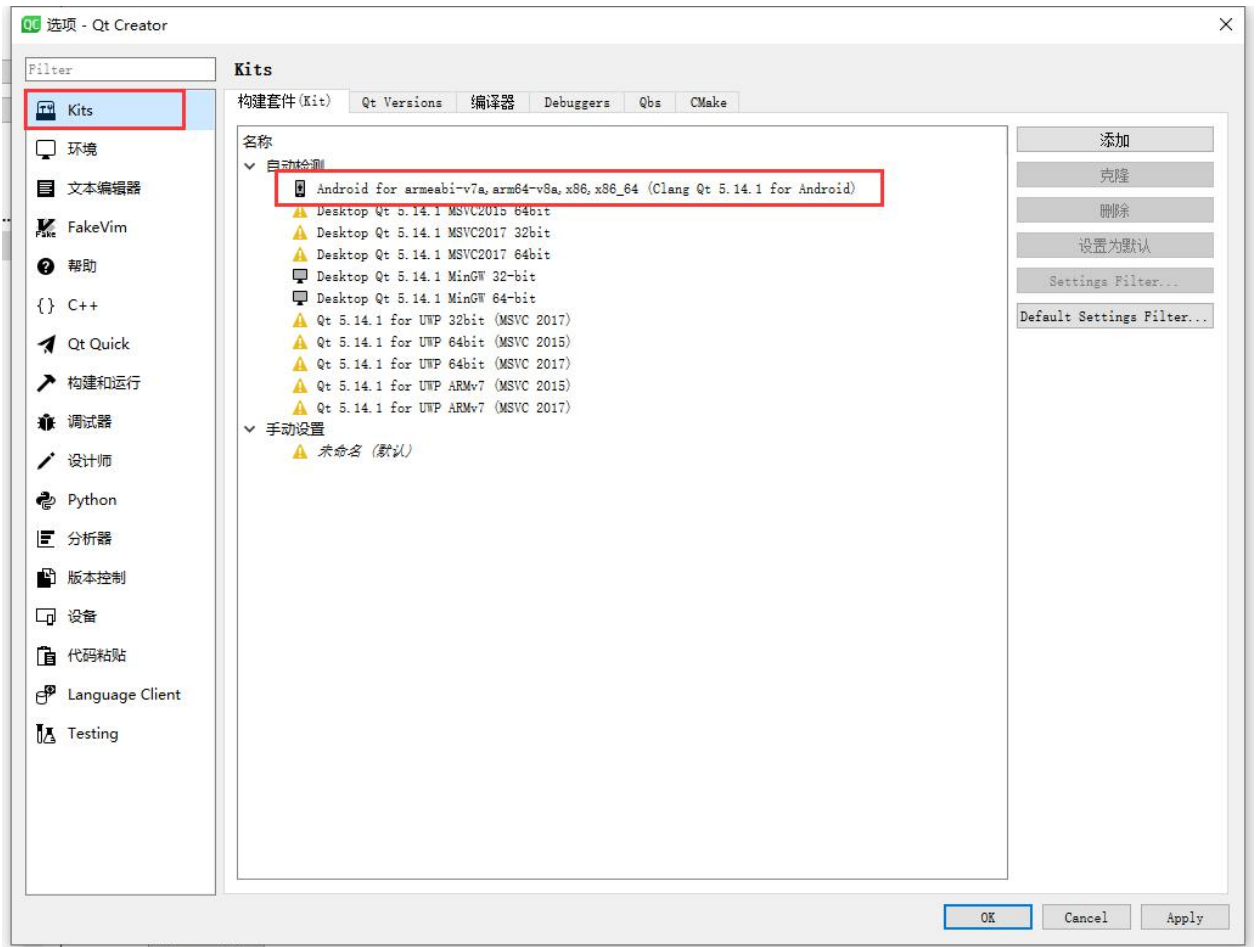
NDK 路径:

E:\android\android-ndk-r20b

单击确定后，再打开“设备选项卡”，选择：

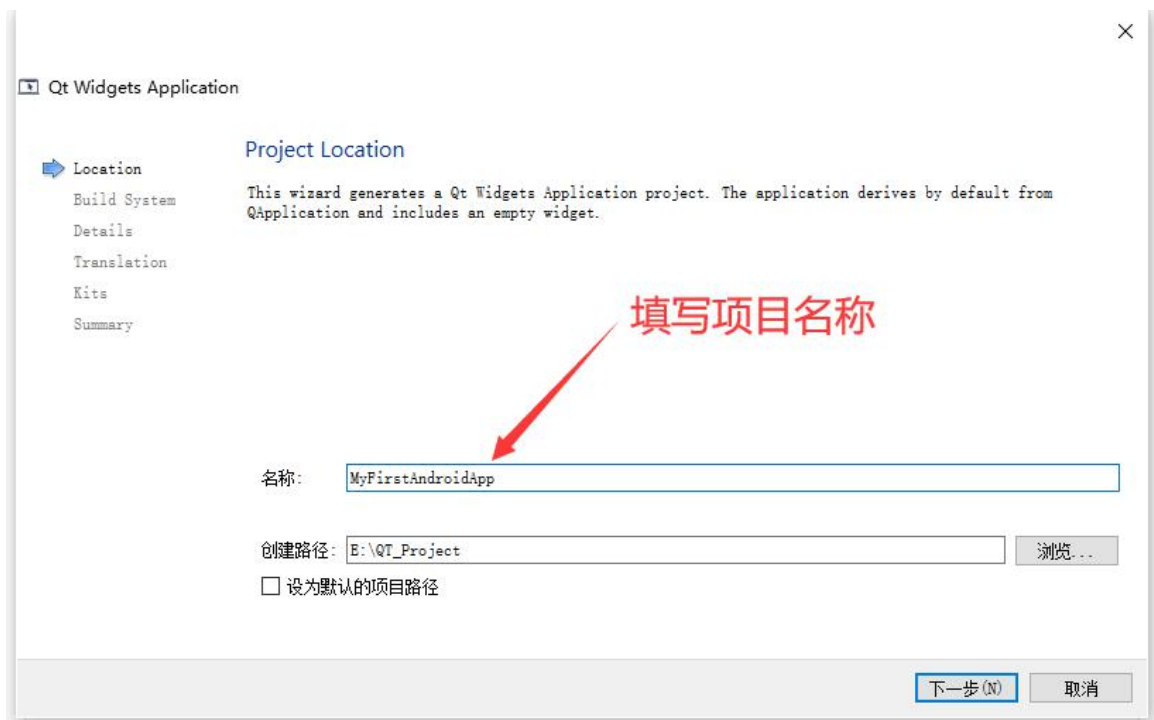
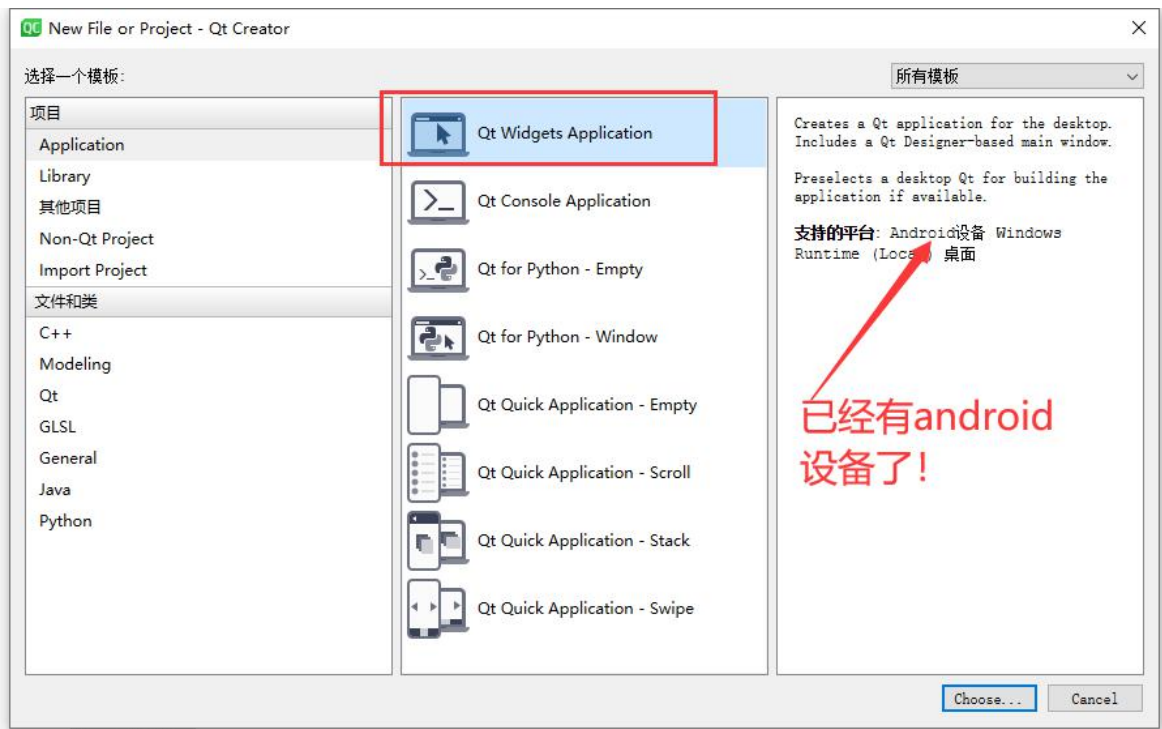


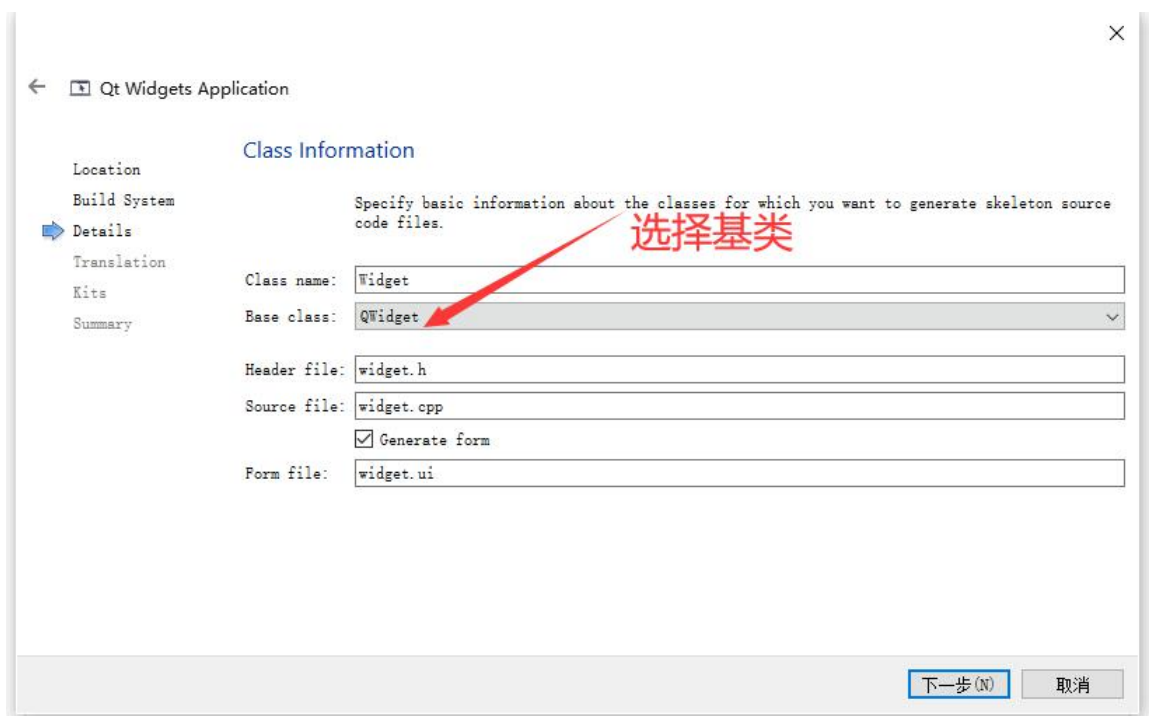
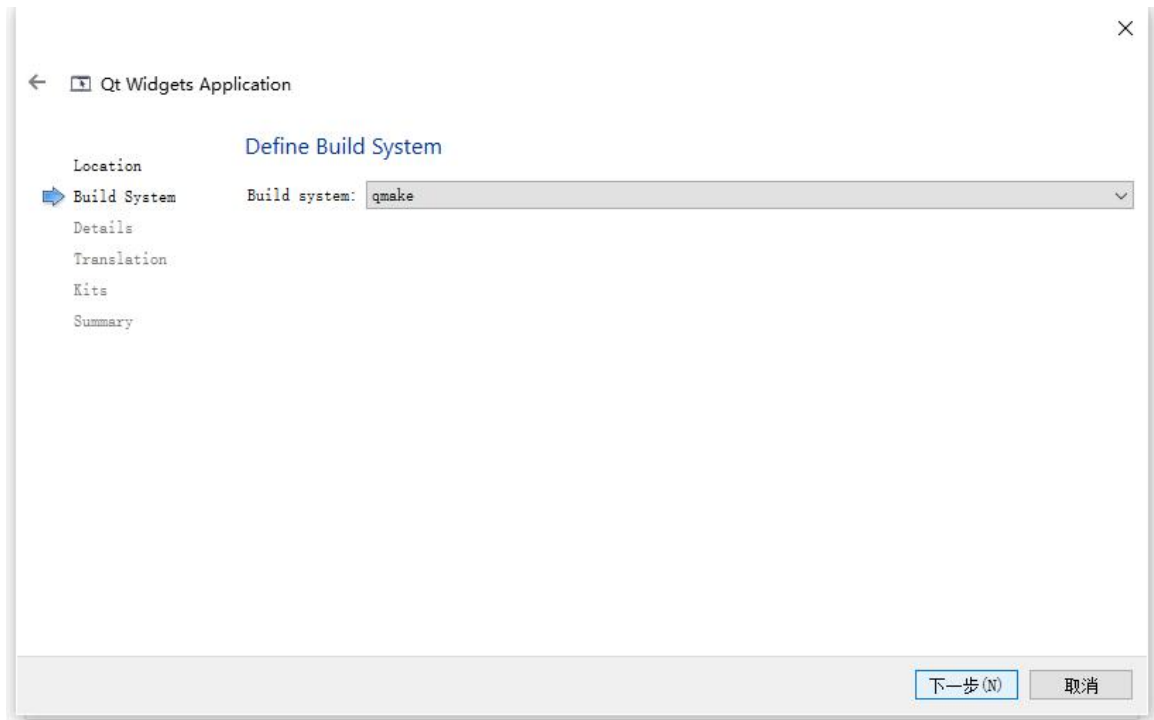
检查效果，在 Kits 中，已经自动检测到 android 开发套件：

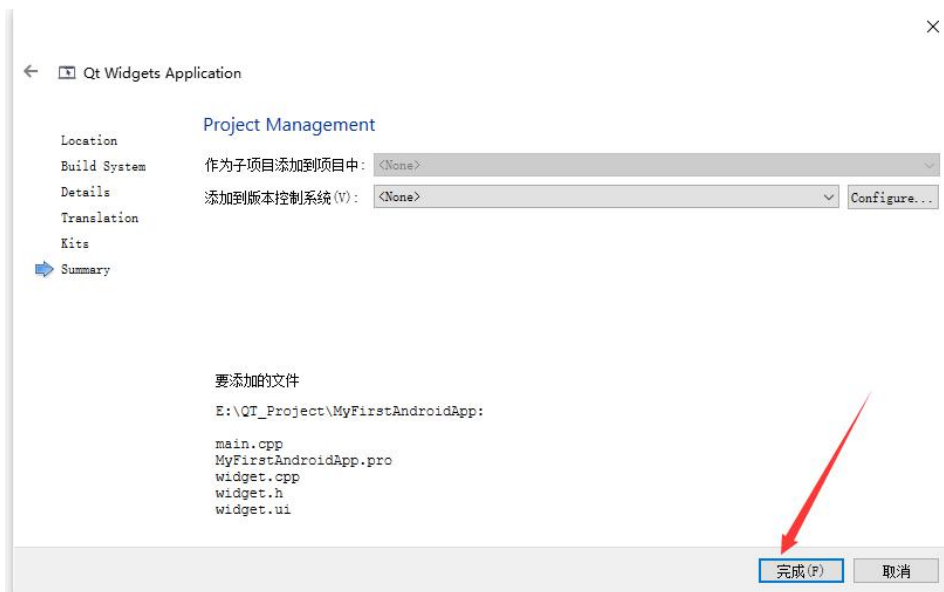
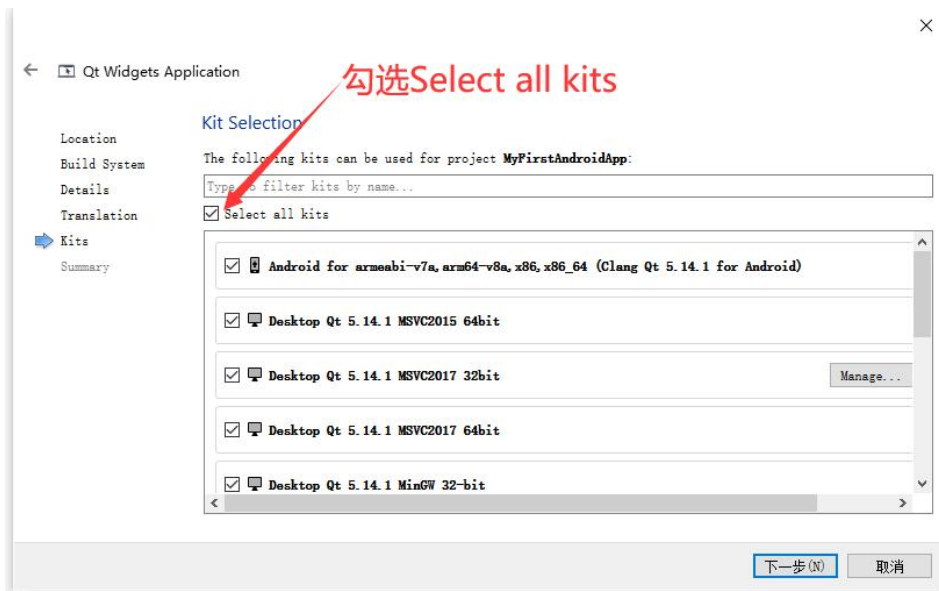
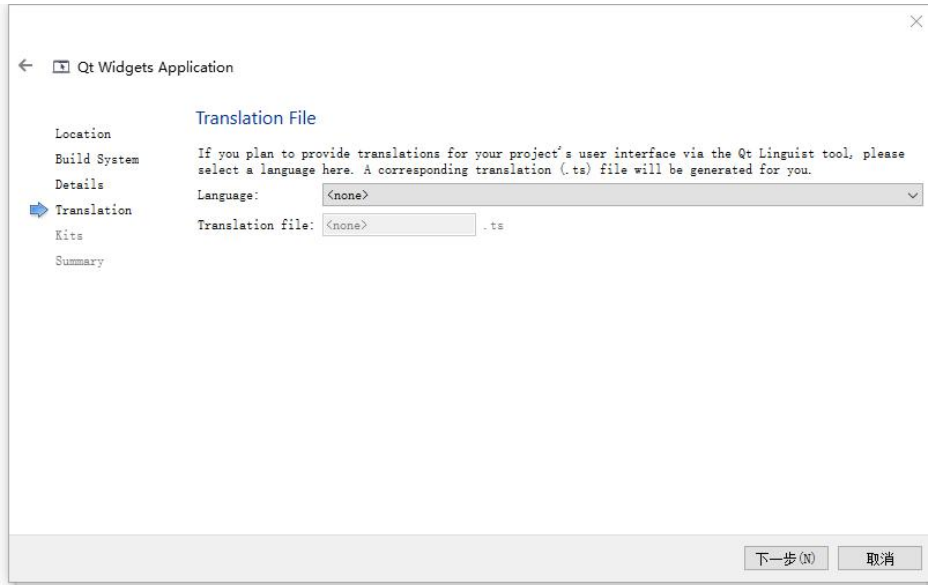


6. 移植测试

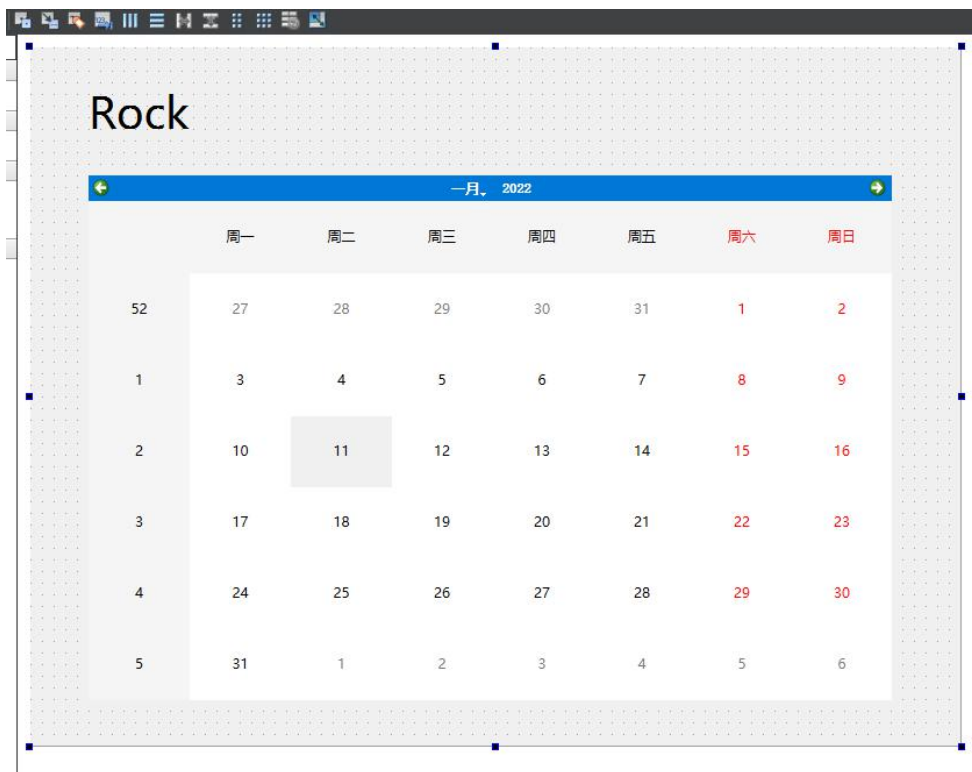
创建项目







随意拖动几个控件，用来测试：



构建项目：

```
编译输出
Filter
+ -
'ARMEABI_V7A'. Packaging it as is.
Unable to strip library 'E:\QT_Project\MyFirstAndroidApp\Debug\android-build\build\intermediates\merged_native_libs\debug\out\lib\armeabi-v7a\libarmeabi-v7a.so':
'ARMEABI_V7A'. Packaging it as is.
Unable to strip library 'E:\QT_Project\MyFirstAndroidApp\Debug\android-build\build\intermediates\merged_native_libs\debug\out\lib\armeabi-v7a\libarmeabi-v7a.so':
ABI 'ARMEABI_V7A'. Packaging it as is.

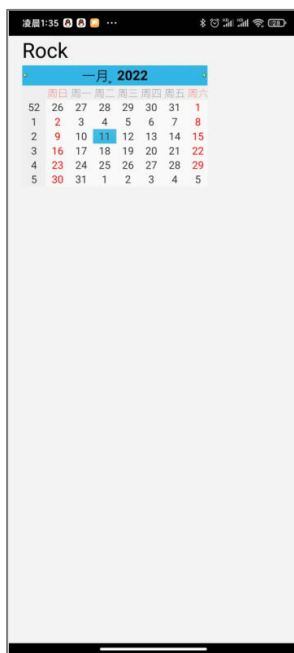
> Task :stripDebugDebugSymbols
Compatible side by side NDK version was not found.
Unable to strip library 'E:\QT_Project\MyFirstAndroidApp\Debug\android-build\build\intermediates\merged_native_libs\debug\out\lib\armeabi-v7a\libarmeabi-v7a.so':
strip tool for ABI 'ARMEABI_V7A'. Packaging it as is.

> Task :mergeDexDebug
> Task :packageDebug
> Task :assembleDebug

Deprecated Gradle features were used in this build, making it incompatible with Gradle 6.0.
Use '--warning-mode all' to show the individual deprecation warnings.
See https://docs.gradle.org/5.5.1/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 15s
25 actionable tasks: 25 executed
Android package built successfully in 16.459 ms.
-- File: E:\QT_Project\MyFirstAndroidApp\Debug\android-build\build\outputs\apk\debug\android-build-debug.apk
01:30:11: 进程"E:\Qt\Qt-5.14.1\5.14.1\android\bin\androiddeployqt.exe"正常退出。
01:30:11: Elapsed time: 00:24.
```

把 APK 文件传输到 android 手机，安装！



测试成功!