



链滴

android 版 easypr 车牌识别

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来源网站: [链滴](#)

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<h2 id="easypr车牌识别">easypr 车牌识别</h2>

<h4 id="1-新建java类-申明native-本地方法-如-">1.新建 java 类,申明 native 本地方法, 如: </h4>

```
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> public class PlateRecognizer {
</span> </span> <span class="highlight-line"> <span class="highlight-cl">     public static native String stringFromJNI();
</span> </span> <span class="highlight-line"> <span class="highlight-cl">     public static native long initPR(String svmpath, String annpath);
</span> </span> <span class="highlight-line"> <span class="highlight-cl">     public static native long uninitPR(long recognizerPtr);
</span> </span> <span class="highlight-line"> <span class="highlight-cl">     public static native byte[] plateRecognize(long recognizerPtr, String imgpath);
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> }
</span> </span> </code> </pre>
```

<h4 id="2-在app模块的main下新建jni文件夹-编译JNI-">2.在 app 模块的 main 下新建 jni 文件夹
编译 JNI:</h4>

<p>申明 native 方法后, 点击 build --> make project, 生成 class 字节文件。一般在 app\build\intermediates\classes\debug </p>

<p>cd 进入该目录, 使用 javah 命令, 生成我们想要得到的.h 头文件, 如执行 javah -jni com.lczp.prtest.EasyPR.PlateRecognizer 命令之后, 会在 classes 目录下生成头文件: com_lczp_prtest_EasyPR_PlateRecognizer.h,将它复制到 jni 文件夹下, 该文件是通过 javah 命令生成 jni 层代码文件。 </p>

<p>创建.cpp 文件来实现 jni 方法, 具体可百度</p>

<p>在 jni 目录下创建 Android.mk</p>

```
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> LOCAL_PATH := $(call my-dir)
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> include $(CLEAR_VARS)
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> # OpenCV
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> OPENCV_CAMERA_MODULES:=on
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> OPENCV_INSTALL_MODULES:=on
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> include ../../../../pencvNative/jni/OpenCV.mk
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> FILE_LIST := $(wildcard $(LOCAL_PATH)/easyPR/src/*/*.cpp)
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> LOCAL_SRC_FILE := $(LOCAL_PATH)/EasyPR.cpp
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> LOCAL_SRC_FILE += $(FILE_LIST:$(LOCAL_PATH)/%=%)
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> LOCAL_C_INCLUDES += $(LOCAL_PATH)/
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> LOCAL_C_INCLUDES += $(LOCAL_PATH)/easyPR/include
</span> </span>
```

```

</span></span><span class="highlight-line"><span class="highlight-cl"> LOCAL_MODULE
:= EasyPR
</span></span><span class="highlight-line"><span class="highlight-cl"> LOCAL_LDLIBS
= -llog
</span></span><span class="highlight-line"><span class="highlight-cl"> include $(BUILD_
HARED_LIBRARY)
</span></span></code></pre>
</li>
</ol>
<blockquote>
<p>其中:</p>
</blockquote>
<ul>
<li>LOCAL_PATH 是 C/C++ 代码所在目录, 也就是我们的 jni 目录。</li>
<li>LOCAL_MODULE 是要编译的库的名称。编译器会自动在前面加上 lib, 在后面加上.so。</li>
<li>LOCAL_SRC_FILES 是要编译的 C/C++ 文件。</li>
</ul>
<blockquote>
<p>然后我还需要在 Android 项目根目录下创建 Application.mk 文件: </p>
</blockquote>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> APP_STL := gnustl_static
</span></span><span class="highlight-line"><span class="highlight-cl"> APP_CPPFLAGS
:= -frtti -fexceptions -std=c++0x
</span></span><span class="highlight-line"><span class="highlight-cl"> APP_ABI := ar
eabi-v7a
</span></span><span class="highlight-line"><span class="highlight-cl"> APP_PLATFORM
:= android-14
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span></code></pre>
<blockquote>
<p>下载 easy 库, <a href="https://ld246.com/forward?goto=https%3A%2F%2Fgithub.com%
Flinuxxx%2FEasyPR_Android%2F" target="_blank" rel="nofollow ugc">EasyPR_Android</a><
p>
</blockquote>
<blockquote>
<p>复制其中的 OpencvNative 到项目根目录下, 拷贝其中的 easypr 到 jni 目录下。</p>
</blockquote>
<ul>
<li>进入 Application.mk 文件所在目录, 在命令行中使用 ndk-build 生成.so 文件</li>
</ul>

```