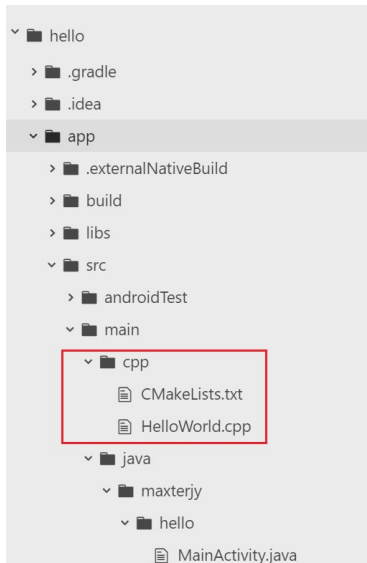


# Add C/C++ Code To Android Project

- Create native source folder “src/main/cpp”



- Create native code “src/main/cpp/HelloWorld.cpp”

```
build.gradle | HelloWorld.cpp
1
2  #include <jni.h>
3  #include <android/log.h>
4
5  extern "C" {
6      JNIEXPORT void JNICALL Java_maxterjy_hello_MainActivity_sayHelloWorld(JNIEnv* env, jobject obj) {
7          __android_log_print(ANDROID_LOG_INFO, "maxterjy", "hello");
8      }
9  }
10
```

- Create cmake file “src/main/cpp/CMakeLists.txt”

```
1  cmake_minimum_required(VERSION 3.4.1)
2  add_library(HelloWorld SHARED ./HelloWorld.cpp)
3  target_link_libraries(HelloWorld android log)
4
```

- Configure module-level gradle “app/build.gradle”

```
7      minSdkVersion 14
8      targetSdkVersion 26
9      versionCode 1
10     versionName "1.0"
11     testInstrumentationRunner "android.support.test.runner.AndroidJUnit4"
12 }
13 buildTypes {
14     release {
15         minifyEnabled false
16         proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'), 'proguard-rules.pro'
17     }
18 }
19
20 externalNativeBuild {
21     cmake {
22         path "../src/main/cpp/CMakeLists.txt"
23     }
24 }
25
26 splits {
27     abi {
28         enable true
29         reset()
30         include "armeabi-v7a"
31         universalApk false
32     }
33 }
34 }
```

- Load library, call native function in MainActivity

build.gradle	MainActivity.java
1 package maxterjy.hello;	
2	
3 import android.support.v7.app.AppCompatActivity;	
4 import android.os.Bundle;	
5	
6 public class MainActivity extends AppCompatActivity {	
7	
8     static {	
9         System.loadLibrary("HelloWorld");	
10     }	
11	
12     public native void sayHelloWorld();	
13	
14     @Override	
15     protected void onCreate(Bundle savedInstanceState) {	
16         super.onCreate(savedInstanceState);	
17         setContentView(R.layout.activity_main);	
18	
19         sayHelloWorld();	
20     }	
21 }	
22	

- Result

Android Device Monitor

File Edit Run Window Help

Devices

Name

nokia-nokia2ds-6509c86: Online

maxterjy.hello

4.3

7610

8600

Threads

Heap

Allocation Tracker

Network Statistics

LogCat

Console

Saved Filters

All messages (no filters) (212)

maxterjy

Search for messages. Accepts Java regexes. Prefix with pid:, app:, tag: or text: to limit scope.

L...	Time	PID	TID	Application	Tag	Text
I	02-03 12:19...	7610	7610	maxterjy.hello	maxterjy	hello