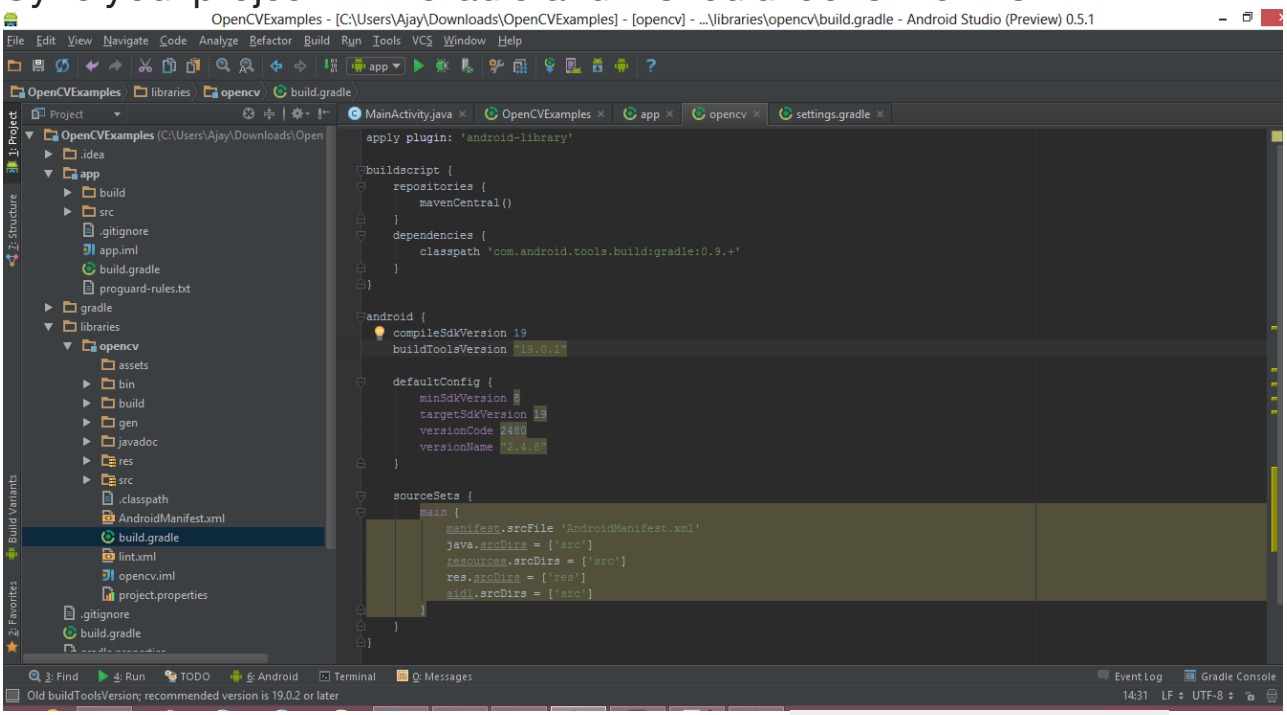
Instructions for installing OpenCV in Android Studio

Thursday, April 9, 2015 12:49 AM

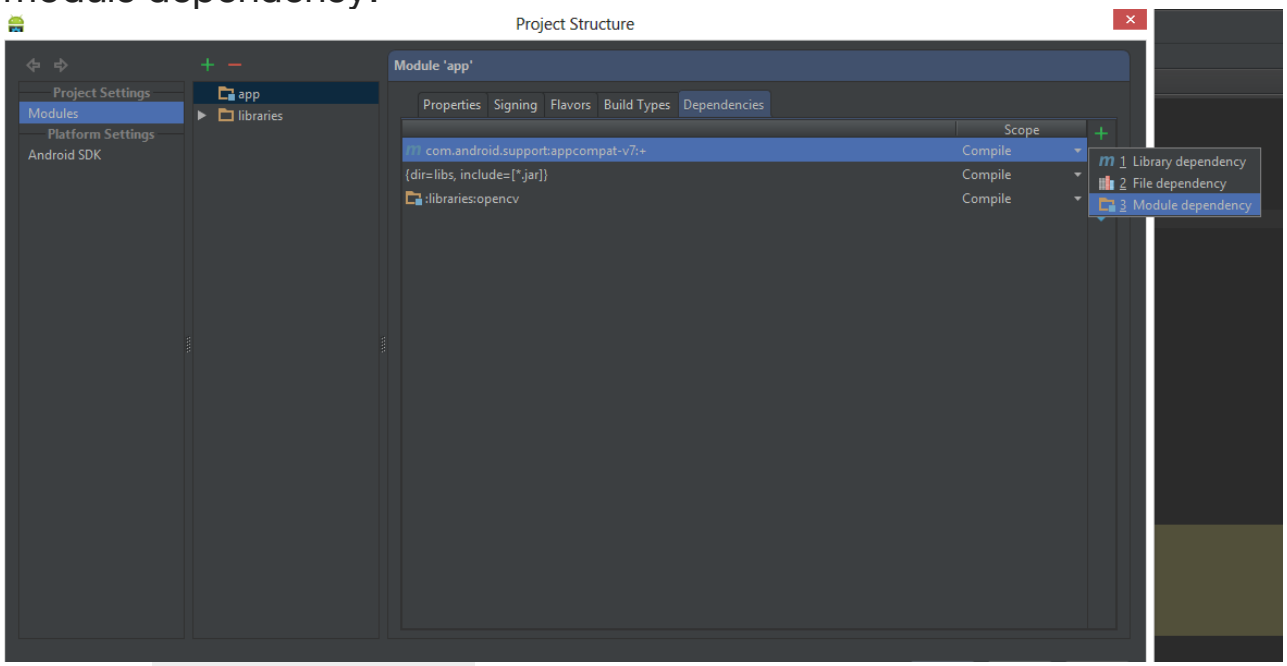
1. Create a `libraries` folder underneath your project main directory. For example, if your project is `OpenCVExamples`, you would create a `OpenCVExamples/libraries` folder.
2. Go to the location where you have SDK "\OpenCV-2.4.8-android-sdk\sdk" here you will find the `java` folder, rename it to `opencv`.
3. Now copy the complete opencv directory from the SDK into the libraries folder you just created.
4. Now create a `build.gradle` file in the `opencv` directory with the following contents

```
apply plugin: 'android-library'

buildscript {
    repositories {
        mavenCentral()
    }
    dependencies {
        classpath 'com.android.tools.build:gradle:0.9.+'
    }
}

android {
    compileSdkVersion 19
    buildToolsVersion "19.0.1"

defaultConfig {
        minSdkVersion 8
        targetSdkVersion 19
        versionCode 2480
        versionName "2.4.8"
    }

sourceSets {
        main {
            manifest.srcFile 'AndroidManifest.xml'
            java.srcDirs = ['src']
            resources.srcDirs = ['src']
            res.srcDirs = ['res']
            aidl.srcDirs = ['src']
        }
    }
}
```

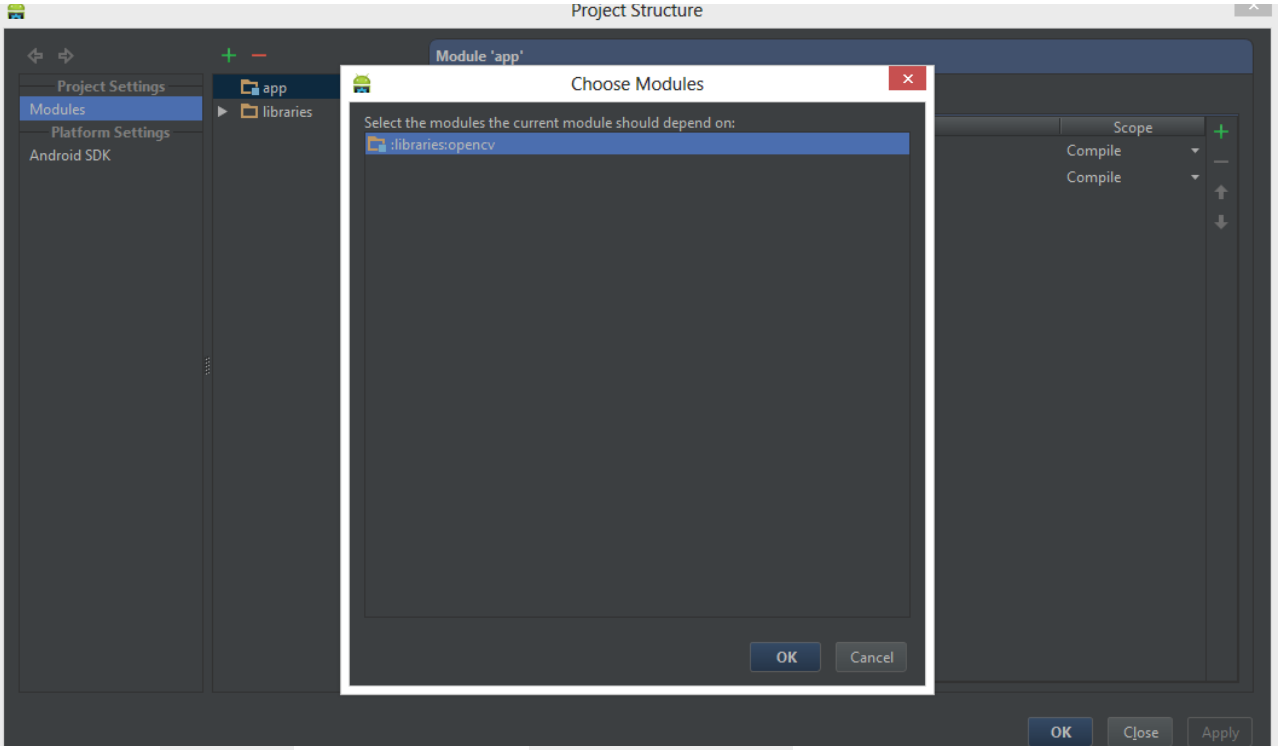
5. Edit your settings.gradle file in your application's main directory and add this line:
   `include ':libraries:opencv'`
6. Sync your project with Gradle and it should looks like this



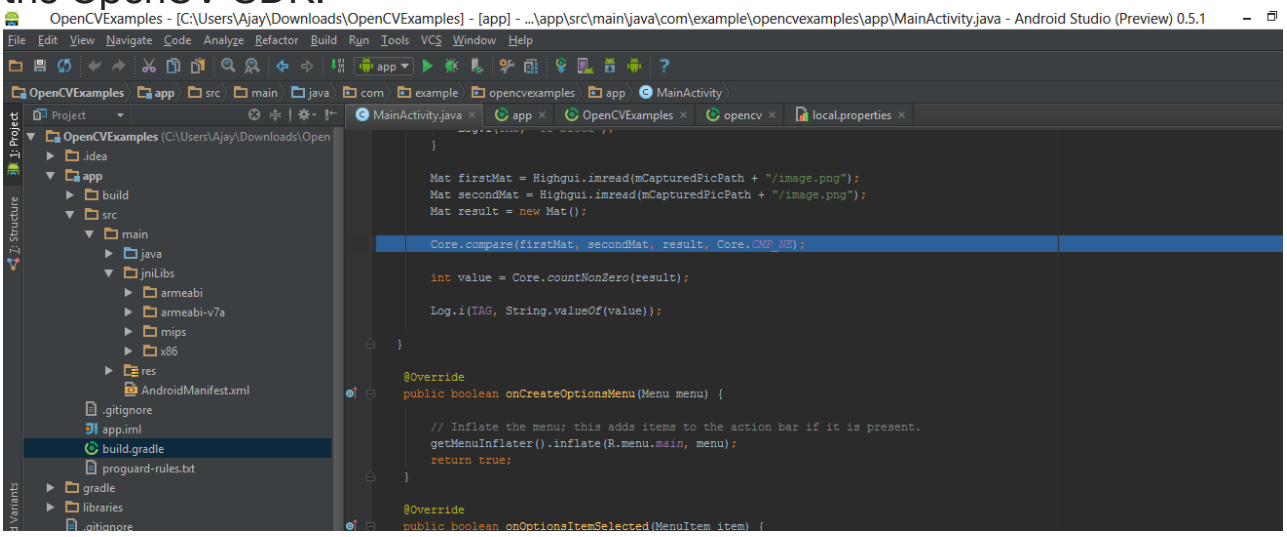
7. Right click on your project then click on the `Open Module Settings` then Choose Modules from the left-hand list, click on your application's module, click on the Dependencies tab, and click on the + button to add a new module dependency.



8. Choose `Module dependency`. It will open a dialog with a list of modules to choose from; select ":libraries:opencv".



9. Create a `jniLibs` folder in the `/app/src/main/` location and copy the all the folder with *.so files (armeabi, armeabi-v7a, mips, x86) in the `jniLibs` from the OpenCV SDK.



10. Click OK. Now everything done, go and enjoy with OpenCV.