Making Mobile Apps

Lec 11. Take Photo

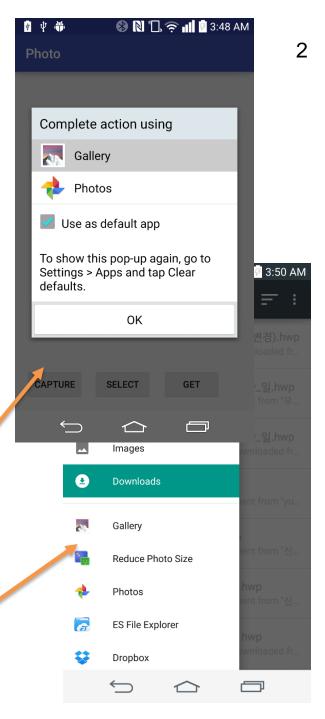


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Photo – capture or select







ID(code) for Camera/Select Activity request

```
class MainActivity : PermissionsActivity() {
   val CAMERA = 1
    val SELECT = 2
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        get_permission()
```

Get permission

```
fun get_permission() {
    requestPermissions(arrayOf(Manifest.permission.CAMERA,
            Manifest.permission.READ_EXTERNAL_STORAGE,
            Manifest.permission.WRITE_EXTERNAL_STORAGE), object : PermissionCallBack {
        override fun permissionGranted() {
            super.permissionGranted()
            Log.v("Call permissions", "Granted")
        override fun permissionDenied() {
            super.permissionDenied()
            Log.v("Call permissions", "Denied")
```

Request code

1 camera intent, 2 photo get intents

```
fun take_photo(view: View) {
   var intent = Intent(MediaStore.ACTION_IMAGE_CAPTURE)
    startActivityForResult(intent, CAMERA)
fun select_photo(view: View) {
    var intent = Intent(Intent.ACTION_PICK)
    intent.type = "image/*"
    startActivityForResult(intent, SELECT)
fun get_content(view: View) {
    var intent = Intent(Intent.ACTION_GET_CONTENT)
    intent.type = "image/*"
    startActivityForResult(intent, SELECT)
```

Load Image

We need a permission (in Menifest)

```
    app ×

                                                            AndroidManifest.xml ×
          activity_main.xml
                                       MainActivity.kt ×
Android
 app app
                               <?xml version="1.0" encoding="utf-8"?>
   iava
                               <manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 res
 Gradle Scripts
                                    package="com.mjkim.photo">
   build.gradle (Project: Photo)
   build.gradle (Module: app)
                                    <uses-permission android:name="android.permission.CAMERA"/>
   gradle-wrapper.properties (Grad
                                    <uses-permission android:name="android.permission.READ EXTERNAL STORAGE"/>
   proguard-rules pro (ProGuard R
   gradle.properties (Project Prope
                                    <uses-permission android:name="android.permission.WRITE EXTERNAL STORAGE"/>
   · 🖷 🛣 🕀 😩
1: Project
                                    <application</a>
     app app
                                        android:allowBackup="true"
         manifests manifests
                                        android:icon="@mipmap/ic launcher"
            AndroidMar
                                        android:label="Photo"
                                        android:roundIcon="@mipmap/ic_launcher_round"
         java
Structure
                                        android:supportsRtl="true"
                                        android:theme="@style/AppTheme">
      Gradle Scripts
                                        <activity android:name=".MainActivity">
                                             <intent-filter>
                                                  <action android:name="android.intent.action.MAIN" />
                       18
                       19
                                                  <category android:name="android.intent.category.LAUNCHER" />
                       20
                                             </intent-filter>
                       21
                                        </activity>
                       22
                       23
                                    </application>
                       24
                               </manifest>
                       25
```

<uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE"/>

We need Anko, Piccaso, ...

```
activity_main.xml >
                                           Weather ×

    app ×

                                                                 MainActivity.kt ×
Android
app
                                  allprojects{}
   manifests
                                  // Top-level build file where you can add conf
    AndroidManifest.xml
    java
                                  buildscript {
  Gradle Scripts
                                        ext.kotlin_version = '1.1.4-3'
    build.gradle (Project: Weath
                                       ext.anko_version='0.10.1
  build.gradle (Module: app)
  📊 gradle-wrapper.properties (🤇
  proguard-rules.pro (ProGuar
                                        repositories {
  gradle.properties (Project Pro
                                             google()
  settings.gradle (Project Settil
                                             jcenter()
  In local.properties (SDK Location
                        10
                                        dependencies {
                        11
                                             classpath 'com.android.tools.build:gra
                        12
```

