# Android Dev Kotlin

CS 402: Mobile Development
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# Permissions Overview

To access certain device features, you have to ask the user for permission.

Some are granted on install.

Others need to be asked at run time.

# Permissions

```
val permissionCheck = ContextCompat.checkSelfPermission(this,
        Manifest.permission.[PERMISSION])
```

CAMERA

ACCESS_COURSE_LOCATION

INTERNET

READ_CONTACTS

SEND_SMS

WRITE_EXTERNAL_STORAGE

https://developer.android.com/guide/topics/permissions/requesting.html#perm-groups

# Permission Statuses

PackageManager.PERMISSION_GRANTED

PackageManager.PERMISSION_DENIED


```
if (permissionCheck != PackageManager.PERMISSION_GRANTED) {

    Log.i("MZ", "Permission to record denied")

    requestPermissions()

}
```

# Request Permission

```kotlin
private fun requestPermissions(){

    ActivityCompat.requestPermissions(this,

    arrayOf(android.Manifest.permission.CAMERA),

    888)
}
```

# Permission Request Result

```
override fun onRequestPermissionsResult(requestCode: Int, permissions:
Array<out String>, grantResults: IntArray) {

        super.onRequestPermissionsResult(requestCode, permissions, grantResults)

}
```

# Permission Request Result

```
if (permission != PackageManager.PERMISSION_GRANTED) {
   if (ActivityCompat.shouldShowRequestPermissionRationale(this, Manifest.permission.CAMERA)) {

       val builder = AlertDialog.Builder(this)
      builder.setMessage("Permission to access the camera is required.")
         .setTitle("Permission required")
      builder.setPositiveButton("OK") { dialog, id ->
          requestPermissions()
       }
       val dialog = builder.create()
       dialog.show()
   } else {
      requestPermissions()
   }
}
```

# Camera

```
val intent = Intent(MediaStore.ACTION_IMAGE_CAPTURE)

startActivityForResult(intent, 999)
```

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```