

Intents and Activities

Documentation: Intent | Android Developers (https://developer.android.com/reference/android/content/Intent.html)

- ~Intents~ are requests for an action to be performed by another app.
- Apps can specify ~intent filters~ in the AndroidManifest.xml file
- An intent filter watches for an intent and when received, it performs a certain action.

```
// Create the intent
Intent numbersIntent = new Intent(MainActivity.this, NumbersActivity.class);
// Start the activity specified in the Intent
startActivity(numbersIntent);
```

Documentation: Intents and Intent Filters | Android Developers (https://developer.android.com/quide/components/intents-filters.html)

- ~Implicit Intents~: use these when you don't care which app component handles the intent, as long as they can handle it.
- Need an Action and Data URI
- Optional: Category, Components, Extras
- Create an object instance of the intent class and in the constructor, pass in an action string (ACTION SENDTO)
- Implicit intents have a resolveActivity block where it handles making sure that the resolution happens

```
// Create the text message with a string
Intent sendIntent = new Intent(Intent.ACTION_SENDTO);
sendIntent.setData(Uri.parse("mailto:"));
sentIntent.putExtra(Intent.EXTRA_SUBJECT, "Just Java order for " + name);
sendIntent.putExtra(Intent.EXTRA_TEXT, priceMessage);

// Verify that the intent will resolve properly
if (sendIntent.resolveActivity(getPackageManager()) !=null) {
startActivity(sendIntent)}
```

- ~Explicit Intents~: use these when you know what activity you want to receive your intent (usually used within an application).
 - Context and Component(usually Class/Activity)

```
// Executed in an Activity, so 'this' is the Context
Intent intent = new Intent(this, NumbersActivity.class);
startActivity(intent);
```