Android IV

Intents
Sunshine has two activities

- The first lists summary info for each day in a recyclerview
- The second gives detailed information when a day is clicked in the first view
- Our News App will have a similar pattern
**INTENTS**

- An intent is a messaging component that requests that an action take place.
- It can request that another activity be launched.
- It can also ask that another app be launched.
Intents are like envelopes

- Intents involve target components or actions (consider this the address)
- They also can carry data with them in their bundles (like an envelope)
- This is the main way of sending data from one activity to another
Implicit and explicit intents

- Implicit intents: Ask the Android OS to find a component to do something using intent filters, open other apps
  - Pass in an action and some data
- Explicit intents: Send a message to a specific component (e.g. another activity)
Toy App: Adding more features to Githubreposearch

- We will depart from Udacity to beef up our Github search app
- We will add both an implicit and an explicit intent
- The implicit intent will open a browser app to see the github repo
- The explicit intent will open a webview activity to the url within our app
Create Activity

- Todos:
- Create an new Activity in our Github app
  - Create the activity using the dialog
**Create explicit intent**

- Create intent, put string in it, launch the new activity from the main activity (bottom)
- Retrieve the string in the other activity

**First Activity**

```java
Intent intent = new Intent(MainActivity.this, Main2Activity.class);
intent.putExtra("url", "www.google.com");
startActivity(intent);
```

**Second Activity**

```java
String url = null;
Intent intent = getIntent();

if(intent.hasExtra("url")){
    url = intent.getStringExtra("url");
}
```
Creating an implicit intent

Common intent actions can be found here: https://developer.android.com/guide/components/intents-common.html

Code for opening a browser at a url

```java
private void openWebPage(String url) {
    Uri webpage = Uri.parse(url);
    Intent intent = new Intent(Intent.ACTION_VIEW, webpage);
    if (intent.resolveActivity(getPackageManager()) != null) {
        startActivity(intent);
    }
}
```