Using Object Oriented Frameworks
Example: Champaign Landmarks

- https://dev.socrata.com/foundry/data.illinois.gov/pwzm-4yz8/no-redirect
Want more interesting list item?

- Sub-class the Adapter!

- Only hard part to remember:

```java
if (v == null) {
    LayoutInflater inflater =
        (LayoutInflater)getContext().
            getSystemService(Context.LAYOUT_INFLATER_SERVICE);
    v = inflater.inflate(R.layout.your_listitem_layout, null);
}
```
Sending non-primitives as Extras

- Parcelable interface
- Serialization


- Like converting to JSON and passing as String and converting back, but much more efficient.

- Addon to write the code for you. See:
public class MyParcelable implements Parcelable {
    private int mData;

    public int describeContents() { return 0; }
    public void writeToParcel(Parcel out, int flags) {
        out.writeInt(mData);
    }

    public static final Parcelable.Creator<MyParcelable> CREATOR = new Parcelable.Creator<MyParcelable>() {
        public MyParcelablecreateFromParcel(Parcel in) {
            return new MyParcelable(in);
        }
        public MyParcelable[] newArray(int size) {
            return new MyParcelable[size];
        }
    };

    private MyParcelable(Parcel in) {
        mData = in.readInt();
    }
}

To Do for Tuesday

- Watch Lesson 8 of the Google/Udacity class
  - Rich and Responsive Layouts

- Make detail view for Election Predictions app (for next week)
  - Use a different layout resources for portrait & landscape
  - Bonus: Tablet layout with list & detail fragments

- Write your own Adapter to use custom list view.
  - Your list items should display more than a single string
    - E.g., color them based on winner, add a picture of the candidate, load a picture of the state, etc.

- Continue thinking about a final Android project