Week 4: Android Views and Widgets

Selection View/Widget

- RadioButton, CheckButton: used to select items from a small collection.

- For bigger collections we use Listbox, ComboBox, DropDownList, PictureGallery…

- View/Widget that represents a list of options, and can be connected and controlled by an Adapter called Selection View/Widget.

- Common Selection View/Widget: ListView, GridView…

  - GridView: a ViewGroup that displays information in rows and columns that can be wrapped.

- DataAdapter: a bridge between data source and UI component. Ex: it connects a list of dog breeds and a ListView component, so that the ListView will display a list of dog breeds in the list.

```
ArrayAdapter my_adapter = new ArrayAdapter<String>(this, R.layout.my_list, Dogs);
// this: the context
// R.layout.my_list: a layout that represents each item in the Dogs array
// Dogs: a list containing dog breeds

// find the list and set the adapter
ListView List = findViewById(R.id.Dog_List);
List.setAdapter(my_adapter);
```

- Common DataAdapter

  - ArrayAdapter

  - BaseAdapter

  - CursorAdapter

  - SimpleCursorAdapter

  - SpinnerAdapter

- WrapperListAdapter