EECS4443 Notes

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XML advantages

- XML is used exclusively for the view. We can separate concerns between function and form by using MVC.
- The ID attribute: android:id="@+id/decbutton" signifies that we are pulling a value, in this case, a button from the R (resources) class.
- R. java is automatically generated based on what is in the XML view. This allows us to change a single value in the XML to change all occurences of that value in code.

Layout parameters

An app activity can have multiple layouts.

- Layouts take on the form of layout_foo
- LinearLayout: every element is stacked sequentially on the screen depending on the orientation of the screen.

What is a layout?

Simply put, a layout is what defines the UI elements in a given activity (screen). It is the **parent view** to all other elements within it. A Layout is a ViewGroup, and a ViewGroup is a View

Dynamic layout

In a dynamic layout, the elements on the screen are not pre determined. In other words, AdapterView is used to populate the layout with views at runtime like ListView, GridView, etc. These are very common views for organizing data in many applications, since they display items in either a list or a grid respectively.