

UI

# Using Layouts

- A Layout is a subclass of the ViewGroup class.
  - An invisible view with child views
  - View: the basic UI building block
  - Layouts are set to an activity in the onCreate method by:

```
setContentView(R.layout.yourlayoutfile);
```

```
find views defined in the layout with findViewById()
```

- Another way to inflate a view

```
LayoutInflater inflater = LayoutInflater.from(context);  
View exampleView = inflater.inflate(R.layout.example, container, false);  
Button myExampleButton = (Button)exampleView.findViewById(R.id.button1);  
//More details on this when we cover fragments
```

# Some Layout Types

- LinearLayout
- RelativeLayout
- TableLayout
- GridLayout
- FrameLayout

## Some Widgets (See *The FrankenApp*)

- TextView
- Button
- Spinner
- ProgressBar (often used with AsyncTask)
- SeekBar
- EditText
- AutoCompleteTextView

# The Action Bar and Menu Navigation

- The Options Menu
  - Display
    - `showAsAction` attribute
  - Older phones without ActionBar
  - Adding Icons to Menu Items
  - Responding to the Options Menu

- Using the Action Bar
  - Drop-Down Navigation
  - Tab Navigation