# Code cheat sheet

XML Starter Code:
```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical" >

</LinearLayout>
```

Working Buttons:
- In XML to connect View to action:
```xml
android:onClick="subtract"
```

- In Java, to code action: (method name matches onClick)
```java
public void subtract(View view){
}
```

To move to a new screen: (put in the correct JAVA class name)
```java
Intent i = new Intent(this, InstructionsActivity.class);
startActivity(i);
```

To "find" the view so you can change it: (remember that Views need ids first)
```java
TextView t = (TextView) findViewById(R.id.txt);
ImageView i = (ImageView) findViewById(R.id.pic);
EditText e = (EditText) findViewById(R.id.write);
```

To get String out an EditText:
```java
String word = e.getText().toString();
```
To get an int out of an EditText:
```java
int num = Integer.parseInt(word);
```

To change an EditText or TextView:
```java
t.setText(word);
t.setText("subtract");
t.setText(num+" "+rNum);
```

To change an Image or ImageButton:
```java
i.setImageResource(R.drawable.hp2);
```

To disable a View:
```java
e.setEnabled(false);
```

To get a random number:
```java
int rNum = (int) (Math.random()*3+1);
```

To make a toast (aka onscreen message):
```java
Toast.makeText(getApplicationContext(), "Colour is Green!", Toast.LENGTH_SHORT).show();
```