

```
1 package me.jamiepeterson.al7colors;
2
3 import android.graphics.Color;
4 import android.support.v7.app.AppCompatActivity;
5 import android.os.Bundle;
6 import android.text.Editable;
7 import android.text.TextWatcher;
8 import android.widget.EditText;
9 import android.widget.TextView;
10
11 public class MainActivity extends AppCompatActivity {
12
13     @Override
14     protected void onCreate(Bundle savedInstanceState) {
15         super.onCreate(savedInstanceState);
16         setContentView(R.layout.activity_main);
17
18         //Event Listeners
19         EditText redText = (EditText)findViewById(R.id.red);
20         EditText greenText = (EditText)findViewById(R.id.green);
21         EditText blueText = (EditText)findViewById(R.id.blue);
22         TextChangeListener temp = new TextChangeListener();
23         redText.addTextChangedListener(temp);
24         greenText.addTextChangedListener(temp);
25         blueText.addTextChangedListener(temp);
26     }
27
28     private class TextChangeListener implements TextWatcher{
29         @Override
30         public void afterTextChanged(Editable editable) {
31             changeColor();
32         }
33
34         @Override
35         public void beforeTextChanged(CharSequence charSequence, int i, int i1,
36 int i2) {
37         }
38
39         @Override
40         public void onTextChanged(CharSequence charSequence, int i, int i1, int i2
41 ) {
42         }
43     }
44
45     private void changeColor(){
46         //Get Edit Texts
47         EditText redText = (EditText)findViewById(R.id.red);
48         EditText greenText = (EditText)findViewById(R.id.green);
49         EditText blueText = (EditText)findViewById(R.id.blue);
50
51         //Get Strings
52         String redString = redText.getText().toString();
```

```
53     String greenString = greenText.getText().toString();
54     String blueString = blueText.getText().toString();
55
56     //Get numerical values
57     int red;
58     int green;
59     int blue;
60     try{
61         red = Integer.parseInt(redString);
62     }catch (NumberFormatException e){
63         red = 0;
64     }
65     try{
66         green = Integer.parseInt(greenString);
67     }catch (NumberFormatException e){
68         green = 0;
69     }
70     try{
71         blue = Integer.parseInt(blueString);
72     }catch (NumberFormatException e){
73         blue = 0;
74     }
75     //Error Check
76     if(red > 255)
77         red = 255;
78     if(green > 255)
79         green = 255;
80     if(blue > 255)
81         blue = 255;
82     //Show Color
83     TextView color = (TextView)findViewById(R.id.color);
84     color.setBackgroundColor(Color.rgb(red, green, blue));
85 }
86 }
87
```