

Circuit #3: RGB LEDs

Code:

```
const int RED_LED_PIN = 9;
const int GREEN_LED_PIN = 10;
const int BLUE_LED_PIN = 11;
int redIntensity = 0;
int greenIntensity = 0;
int blueIntensity = 0;
const int DISPLAY_TIME = 100;

void setup() {
// No setup required but you still need it
}

void loop(){
  for (greenIntensity = 0; greenIntensity <= 255;
greenIntensity+=5) {
    redIntensity = 255-greenIntensity;
    analogWrite(GREEN_LED_PIN, greenIntensity);
    analogWrite(RED_LED_PIN, redIntensity);
    delay(DISPLAY_TIME);
  }
  for (blueIntensity = 0; blueIntensity <= 255; blueIntensity+=5)
  {
    greenIntensity = 255-blueIntensity;
    analogWrite(BLUE_LED_PIN, blueIntensity);
    analogWrite(GREEN_LED_PIN, greenIntensity);
    delay(DISPLAY_TIME);
  }
  for (redIntensity = 0; redIntensity <= 255; redIntensity+=5) {
    blueIntensity = 255-redIntensity;
    analogWrite(RED_LED_PIN, redIntensity);
    analogWrite(BLUE_LED_PIN, blueIntensity);
    delay(DISPLAY_TIME);
  }
}
```