

## Circuit #10: Soft Potentiometer

### Code:

```
const int RED_LED_PIN = 9;
const int GREEN_LED_PIN = 10;
const int BLUE_LED_PIN = 11;

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

void loop() {
  int sensorValue = analogRead(0);
  int redValue = constrain(map(sensorValue, 0, 512, 255,
0,0,255);
  int greenValue = constrain(map(sensorValue, 0, 512, 0,
255),0,255)-constrain(map(sensorValue, 512, 1023, 0,
255),0,255);
  int blueValue = constrain(map(sensorValue, 512, 1023, 0,
255),0,255);

  analogWrite(RED_LED_PIN, redValue);
  analogWrite(GREEN_LED_PIN, greenValue);
  analogWrite(BLUE_LED_PIN, blueValue);
}
```