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IOExp9

sketch.ino diagram.json Library Manager ▼

```
1  const int redPin = 9;      // Red LED pin
2  const int greenPin = 10;   // Green LED pin
3  const int bluePin = 11;    // Blue LED pin
4
5  // Potentiometer
6  const int redPotPin = A0;   // Red
7  const int greenPotPin = A1; // green
8  const int bluePotPin = A2; // Blue
9
10 void setup() {
11   pinMode(redPin, OUTPUT);
12   pinMode(greenPin, OUTPUT);
13   pinMode(bluePin, OUTPUT);
14   Serial.begin(9600);
15 }
16
17 void loop() {
18   int redValue = analogRead(redPotPin);
19   int greenValue = analogRead(greenPotPin);
20   int blueValue = analogRead(bluePotPin);
21
22   redValue = map(redValue, 0, 1023, 0, 255);
23   greenValue = map(greenValue, 0, 1023, 0, 255);
24   blueValue = map(blueValue, 0, 1023, 0, 255);
25
26   analogWrite(redPin, redValue);
27   analogWrite(greenPin, greenValue);
28   analogWrite(bluePin, blueValue);
29
30   Serial.print("Red: ");
31   Serial.print(redValue);
32   Serial.print(" Green: ");
33   Serial.print(greenValue);
34   Serial.print(" Blue: ");
35   Serial.print(blueValue);
36   Serial.println();
37 }
```

Simulation

