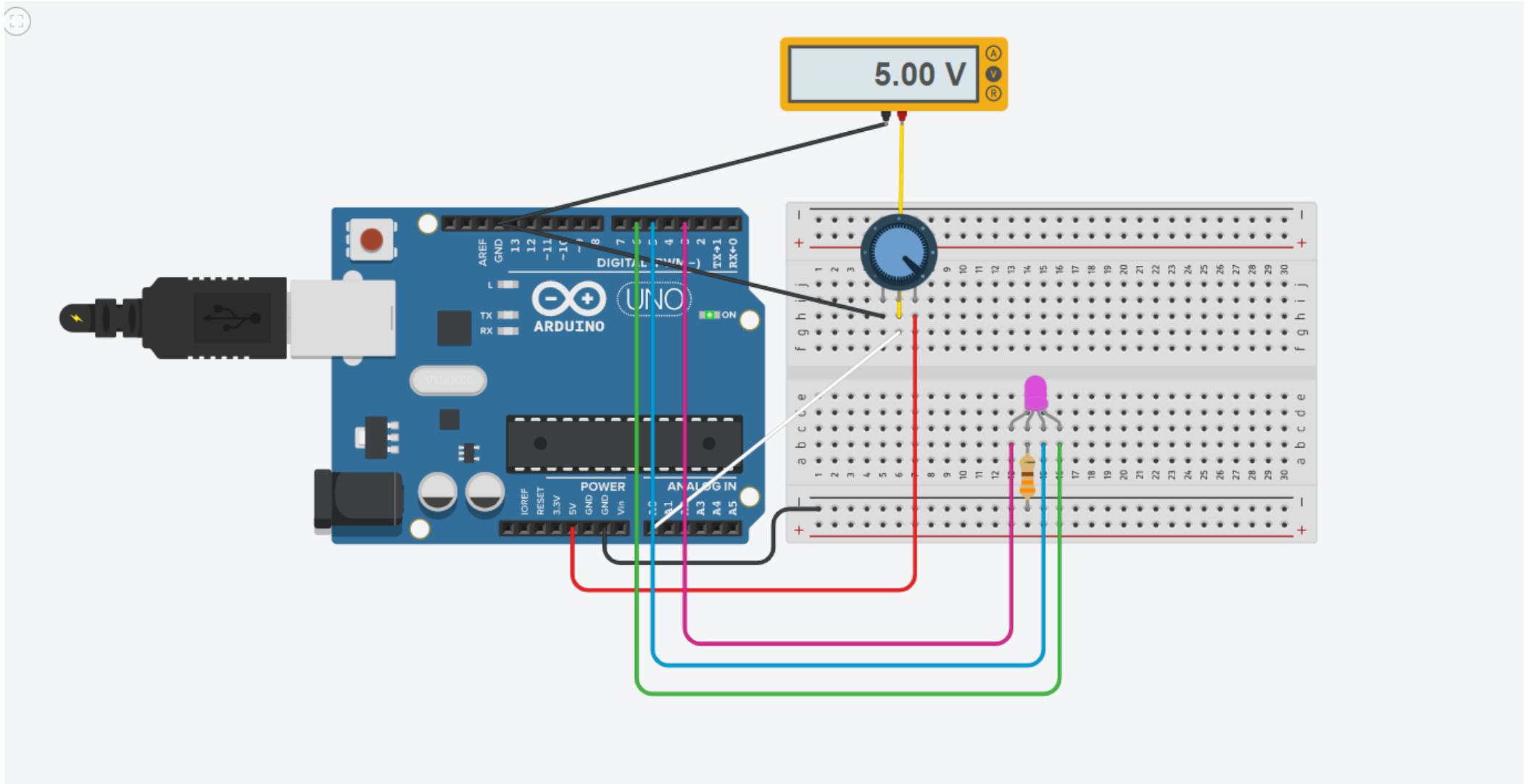


- Mudar a cor do LED RGB com Potenciômetro:



```

1 int led_R = 3; // LED Vermelho (R)
2 int led_G = 6; // LED Verde (G)
3 int led_B = 5; // LED Azul (B)
4
5 void setup()
6 {
7     pinMode(led_R, OUTPUT);
8     pinMode(led_G, OUTPUT);
9     pinMode(led_B, OUTPUT);
10    //lowLed();
11 }
12
13 void loop()
14 {
15     int sensorValue = analogRead(A0) / 4;
16
17     //acende vermelho
18     if(sensorValue >= 0 && sensorValue <= 35)
19     {
20         Red();
21     }
22
23     //acende laranja | amarelo + vermelho
24     if(sensorValue > 36 && sensorValue <= 71)
25     {
26         Yellow();
27         delay(10);
28         Red();
29         delay(10);
30     }
31
32     //acende amarelo | vermelho + verde
33     if(sensorValue > 72 && sensorValue <= 106)
34     {
35         Yellow();
36     }
37
38     //acende verde
39     if(sensorValue > 107 && sensorValue <= 141)
40     {
41         Green();
42     }
43
44     //acende azul
45     if(sensorValue > 142 && sensorValue <= 176)
46     {
47         Blue();
48     }
49

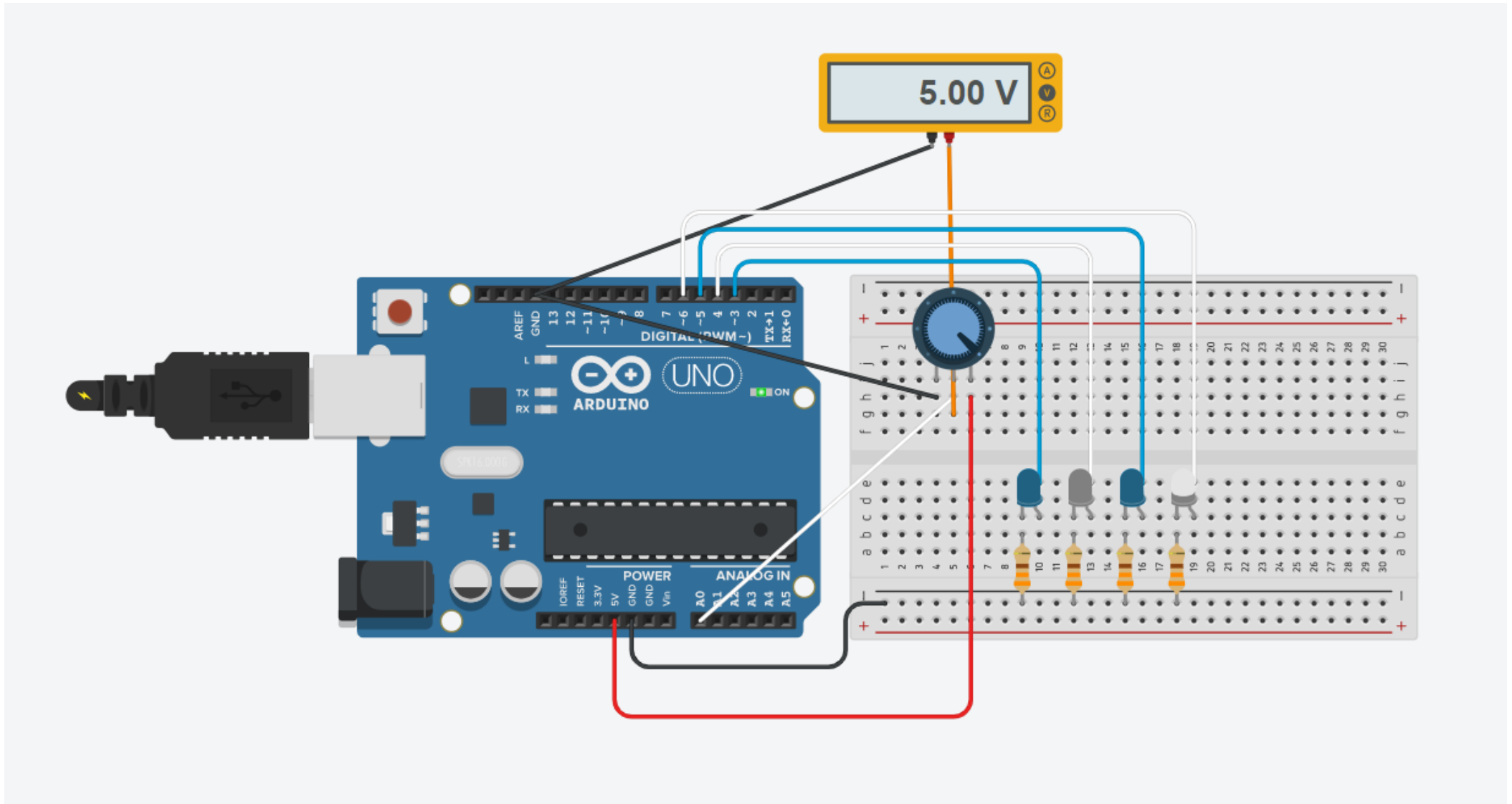
```

```

50    //acende anil | ciano + magenta + amarelo
51    if(sensorValue > 177 && sensorValue <= 211)
52    {
53        Blue();
54        delay(10);
55        Red();
56        delay(10);
57        Yellow();
58        delay(10);
59    }
60
61    //acende roxo | vermelho + azul
62    if(sensorValue > 212 && sensorValue <= 246)
63    {
64        Purple();
65    }
66 }
67
68 void Red()
69 {
70     digitalWrite(led_R, HIGH);
71     digitalWrite(led_G, LOW);
72     digitalWrite(led_B, LOW);
73 }
74
75 void Green()
76 {
77     digitalWrite(led_R, LOW);
78     digitalWrite(led_G, HIGH);
79     digitalWrite(led_B, LOW);
80 }
81
82 void Blue()
83 {
84     digitalWrite(led_R, LOW);
85     digitalWrite(led_G, LOW);
86     digitalWrite(led_B, HIGH);
87 }
88
89 void Yellow()
90 {
91     digitalWrite(led_R, HIGH);
92     delay(10);
93     digitalWrite(led_G, HIGH);
94     delay(10);
95 }
96
97 void Purple()
98 {
99     digitalWrite(led_R, HIGH);
100    delay(10);
101    digitalWrite(led_B, HIGH);
102    delay(10);
103 }

```

- Acender LEDs com Potenciômetro:



```
1 void setup()
2 {
3   pinMode(3, OUTPUT);
4   pinMode(4, OUTPUT);
5   pinMode(5, OUTPUT);
6   pinMode(6, OUTPUT);
7 }
8
9 void loop()
10 {
11   int sensorValue = analogRead(A0) / 4;
12
13   if(sensorValue >= 2 && sensorValue <= 64)
14   {
15     digitalWrite(3, HIGH);
16     //para poder acender e apagar, mesmo quando voltar:
17     delay(100);
18     digitalWrite(3, LOW);
19   }
20
21   if(sensorValue >= 65 && sensorValue <= 128)
22   {
23     digitalWrite(4, HIGH);
24     delay(100);
25     digitalWrite(4, LOW);
26   }
27
28   if(sensorValue >= 129 && sensorValue <= 192)
29   {
30     digitalWrite(5, HIGH);
31     delay(100);
32     digitalWrite(5, LOW);
33   }
34
35   if(sensorValue >= 193 && sensorValue <= 255)
36   {
37     digitalWrite(6, HIGH);
38     delay(100);
39     digitalWrite(6, LOW);
40   }
41 }
```