

"Love Meter" Carnival Display Example

1

AnalogInput.ino

```
1 void setup() {
2   // declare the ledPin as an OUTPUT:
3   pinMode(4, OUTPUT);
4   pinMode(5, OUTPUT);
5   pinMode(6, OUTPUT);
6   pinMode(7, OUTPUT);
7   Serial.begin(9600);
8 }
9
10 void loop() {
11   int sensorValue = analogRead(A0);
12   Serial.print(sensorValue);
13   float voltage_mV = 5000 * (sensorValue / 1023.0);
14   Serial.print("\t");
15   Serial.print(voltage_mV);
16   // LM34 is 10mV/F = 0.010 V/F
17   float t_f = voltage_mV / 10;
18   Serial.print("\t");
19   Serial.println(t_f);
20
21   delay(1000);
22 }
```

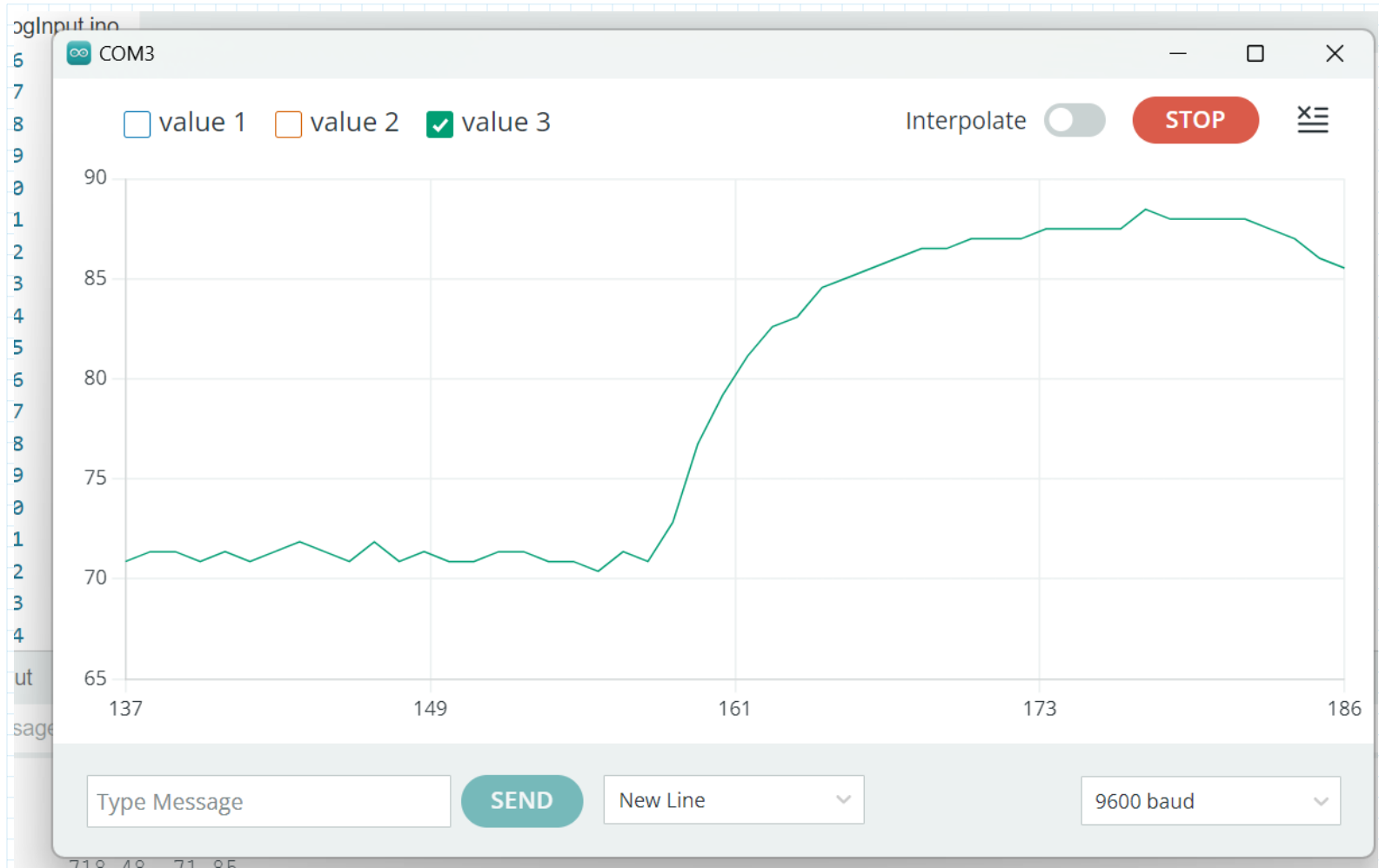
34

Output Serial Monitor X

Message (Enter to send message)

146	713.59	71.36
145	708.70	70.87
146	713.59	71.36

```
23 // Love-meter loop
24
25 if (t_f < 80) {
26     digitalWrite(4, HIGH);
27     digitalWrite(5, LOW);
28     digitalWrite(6, LOW);
29     digitalWrite(7, LOW);
30 }
31 if (t_f > 80 and t_f < 85) {
32     digitalWrite(4, LOW);
33     digitalWrite(5, HIGH);
34     digitalWrite(6, LOW);
35     digitalWrite(7, LOW);
36 }
37
38 if (t_f > 85 and t_f < 90) {
39     digitalWrite(4, LOW);
40     digitalWrite(5, LOW);
41     digitalWrite(6, HIGH);
42     digitalWrite(7, LOW);
43 }
44 if (t_f > 90) {
45     digitalWrite(4, LOW);
46     digitalWrite(5, LOW);
47     digitalWrite(6, LOW);
48     digitalWrite(7, HIGH);
49     delay(100);
50     digitalWrite(7, LOW);
51     delay(100);
52     digitalWrite(7, HIGH);
53 }
```



Nathan's Fingers are not hot enough
to light ALL the LED's