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Arduino Mega or Mega 2...

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BOARDS MANAGER

hc-sr04

Type: All

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demo_01.ino

```
1  const int RedR=3;
2  const int RedA=2;
3  const int RedV=4;
4
5  const int Echo=12;
6  const int Gun=13;
7
8  float t;
9  float distancia;
10
11 void setup()
12 {
13     Serial.begin(9600);
14
15     pinMode(RedV, OUTPUT);
16     pinMode(RedA, OUTPUT);
17     pinMode(RedR, OUTPUT);
18     pinMode(Gun, OUTPUT);
19     pinMode(Echo, INPUT);
20
21 }
22
23 void loop()
24 {
25     Serial.print(" Distancia: ");
26     Serial.print(distancia);
27     Serial.println(" cm");
28
29     if(distancia<10){
30         digitalWrite(RedR,HIGH);
31         digitalWrite(RedA,LOW);
32         digitalWrite(RedV,LOW);
33     }
34
35     if(10<=distancia && distancia<=30){
36         digitalWrite(RedR,LOW);
37         digitalWrite(RedA,HIGH);
38         digitalWrite(RedV,LOW);
39     }
40
41     if(30<distancia){
42         digitalWrite(RedR,LOW);
43         digitalWrite(RedA,LOW);
44         digitalWrite(RedV,HIGH);
45     }
46
47     digitalWrite(Gun, LOW);
48     delayMicroseconds(2);
49     digitalWrite(Gun, HIGH);
50     delayMicroseconds(10);
51     digitalWrite(Gun, LOW);
52
53     t=pulseIn(Echo, HIGH);
54     distancia=t*0.034/2;
55
56
57     delay(500);
58 }
```