

```
//vibrates when it detects something in range

#include <Wire.h>

#include "SparkFun_VL53L1X_Arduino_Library.h"
VL53L1X distanceSensor;

//servo stuff
#include <Servo.h>
Servo myservo;
int pin = 13;
int vibepin = 4;
Servo vibrator;

int range = 120;

//distance variables
int reverse = 1;
int distances[10];

void setup(void)
{
  Wire.begin();

  Serial.begin(9600);
  Serial.println("VL53L1X Qwiic Test");

  if (distanceSensor.begin() == false)
    Serial.println("Sensor offline!");

  //servo setup
  myservo.attach(pin);

  //vibrator setup
  pinMode(vibepin, OUTPUT);

  Serial.begin(9600);
}

void loop(void)
{
  reverse*=-1; //start moving in opposite direction
  digitalWrite(vibepin, LOW); //stop vibration if it happened last time
```

```
for(int i = (90-90*reverse); 90*(1+reverse)-reverse*i >0; i += 18*reverse){
  myservo.write(i); //move servo
  while (distanceSensor.newDataReady() == false) //Poll for completion of measurement. Takes
40-50ms.
    delay(5);
  int distance = distanceSensor.getDistance(); //Get the result of the measurement from the
sensor
  distances[i/18] = distance + 114.3; //Added to account for blind spot
  if(distances[i/18]<range)digitalWrite(vibepin, HIGH); //vibrate if there's an object in range
  for(int j = 0; j<180; j+=19){ //print out sensor values
    Serial.print(distances[j/18]);
    Serial.print("\t");}
  Serial.println();
  delay(150); //delay
}
}
```