

Arduino – Luca Petrosino

Posizionare il piano della pianta nel punto in cui c'è più luce.

```
#include
#define SENSORE 0
#define SERVO 11
#define LED 13
#define WAIT1 40
#define WAIT2 1000
#define WAIT3 1000
#define STEP1 1

Servo myservo;
int max_light;
int max_light_position;
int current_light;
int position;

void setup() {
    Serial.begin(9600);
    myservo.attach(SERVO);
    pinMode(LED, OUTPUT);
}

void loop() {
    max_light=0;
    max_light_position=0;
    current_light=0;
    digitalWrite(LED, HIGH);
    for (position=0;position<180;position+=STEP1) {
        myservo.write(position);
        delay(WAIT1);
        if (position==0) delay(WAIT3);
        current_light=analogRead(SENSORE);
        Serial.println(current_light);
        if (current_light>max_light) {
            max_light=current_light;
            max_light_position=position;
        }
    }
}
```



```
digitalWrite(LED, LOW);
Serial.print("Massima luce rilevata a: ");
Serial.print(max_light_position);
Serial.print(" gradi.\n");
myservo.write(max_light_position);
blink(10);
}

void blink(int nBlink) {
  while (nBlink!=0) {
    digitalWrite(LED, HIGH);
    delay(WAIT2/2);
    digitalWrite(LED, LOW);
    delay(WAIT2/2);
    nBlink--;
  }
}
```

