

UNIVERSITY OF SCIENCE - VNUHCM

Faculty of Information Technology

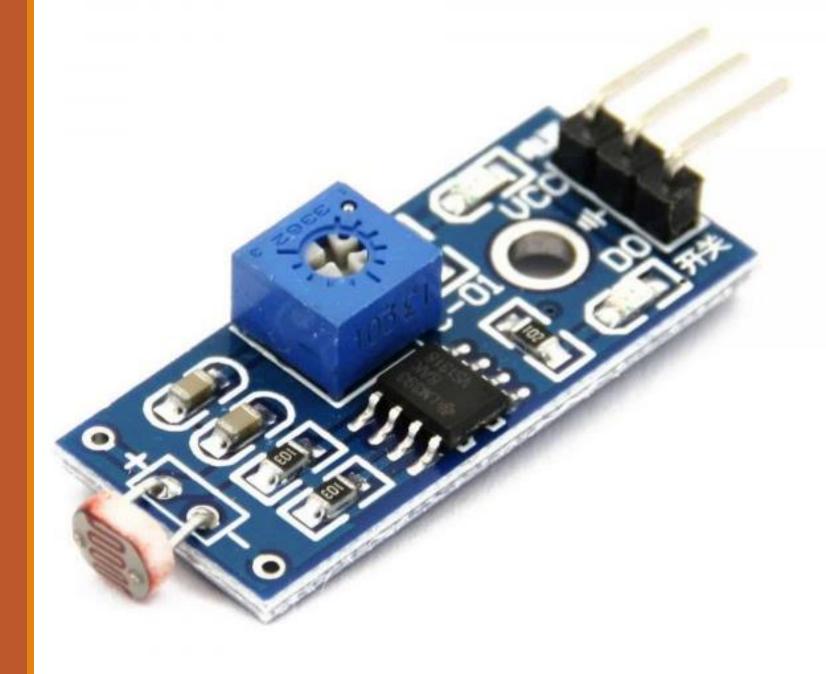
INTERNET OF THINGS

1.7

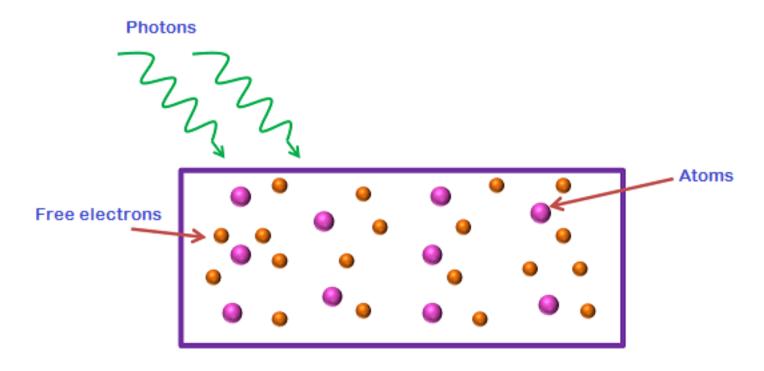
PHOTORESISTOR SENSOR



Photoresistor

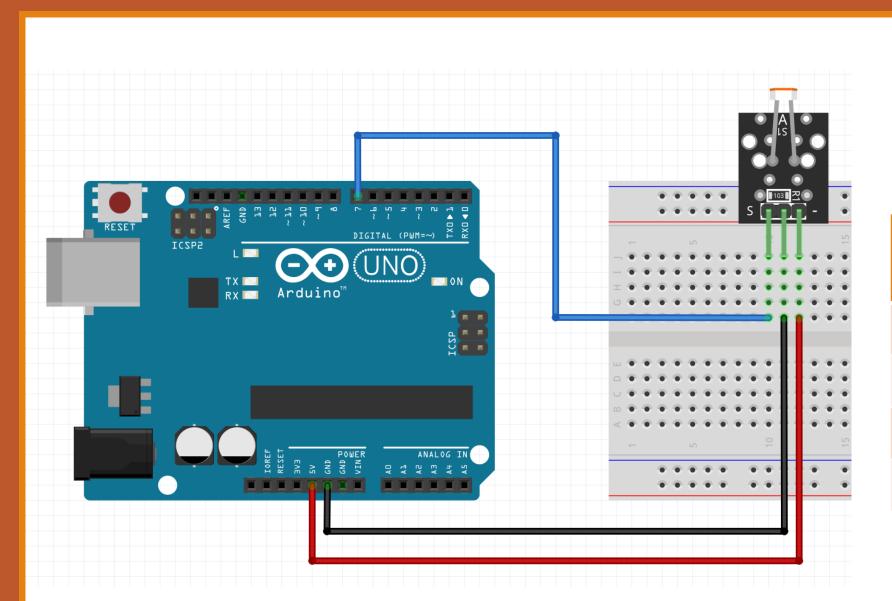


How photoresistor work?



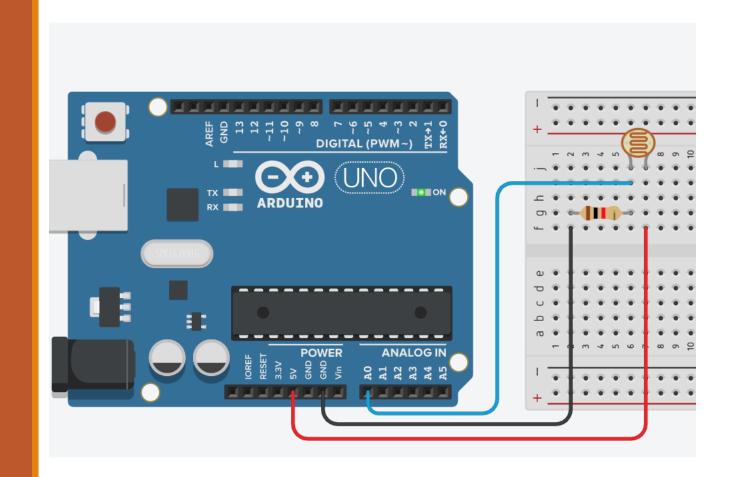
www.physics-and-radio-electronics.com





Photoresi ster	Arduino
VCC	5v
GND	GND
DO	7
AO	

```
int light_pin = 7;
void setup(){
  pinMode(light_pin, INPUT);
  Serial.begin(9600);
void loop(){
  int value = digitalRead(light_pin);
  Serial.println(value);
  delay(100);
```



Photoresister	Arduino
+	5v
-	GND
-	A0

Resistance = 1000Ω

```
int light pin = A0;
void setup() {
  Serial.begin(9600);
  pinMode(light_pin, INPUT);
void loop() {
  Serial.println(analogRead(light pin));
  delay(100);
```



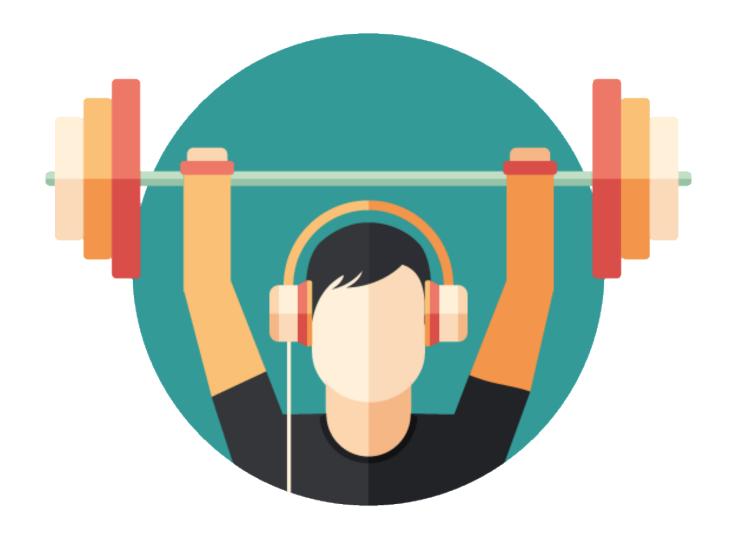
Turn LED on/off according to light condition



Photocell	Arduino
VCC	5v
GND	GND
DO	
AO	A0

Reading analog signal from A0 pin

The bigger the value, the weaker the light



Fade LED in/out according to the light condition