

Fotorezistor 3 led

```
// Pin where the LEDs connect
int pinLed1 = 2;
int pinLed2 = 3;
int pinLed3 = 4;
// Analog input pin for the LDR
int pinLDR = 0;

// Variable where the LDR value is stored
//int valueLDR = 0;
int LDRvalue = 0;

void setup ()
{
  // We configure the pins where the LEDs are connected as outputs
  pinMode (pinLed1, OUTPUT);
  pinMode (pinLed2, OUTPUT);
  pinMode (pinLed3, OUTPUT);

  // configure the serial port
  Serial.begin (9600);
}

void loop ()
{
  // Turn off all LEDs whenever the cycle starts
  digitalWrite (pinLed1, LOW);
  digitalWrite (pinLed2, LOW);
  digitalWrite (pinLed3, LOW);

  // Store the read value of the ADC in a variable
  // The value read by the ADC (voltage) increases directly proportionally
  // regarding the light perceived by the LDR
  LDRvalue = analogRead (pinLDR);

  // Return the value read to our serial monitor in the Arduino IDE
  Serial.println (LDRvalue);

  // Turn on the appropriate LEDs according to the ADC value
  if (LDRvalue > 256)
  {
    digitalWrite (pinLed1, HIGH);
  }
  if (LDRvalue > 512)
  {
    digitalWrite (pinLed2, HIGH);
  }
  if (LDRvalue > 768)
  {
    digitalWrite (pinLed3, HIGH);
  }
  // Wait a few milliseconds before updating
  delay (200);
}
```

