

Circuit #6: Photo Resistor

Code:

```
int lightPin = 0;
int ledPin = 13;

void setup() {
  pinMode(ledPin, OUTPUT);
}

void loop() {
  int lightLevel = analogRead(lightPin);
  lightLevel = map(lightLevel, 0, 900, 0, 255);
  lightLevel = constrain(lightLevel, 0, 255);
  analogWrite(ledPin, lightLevel);
}
```