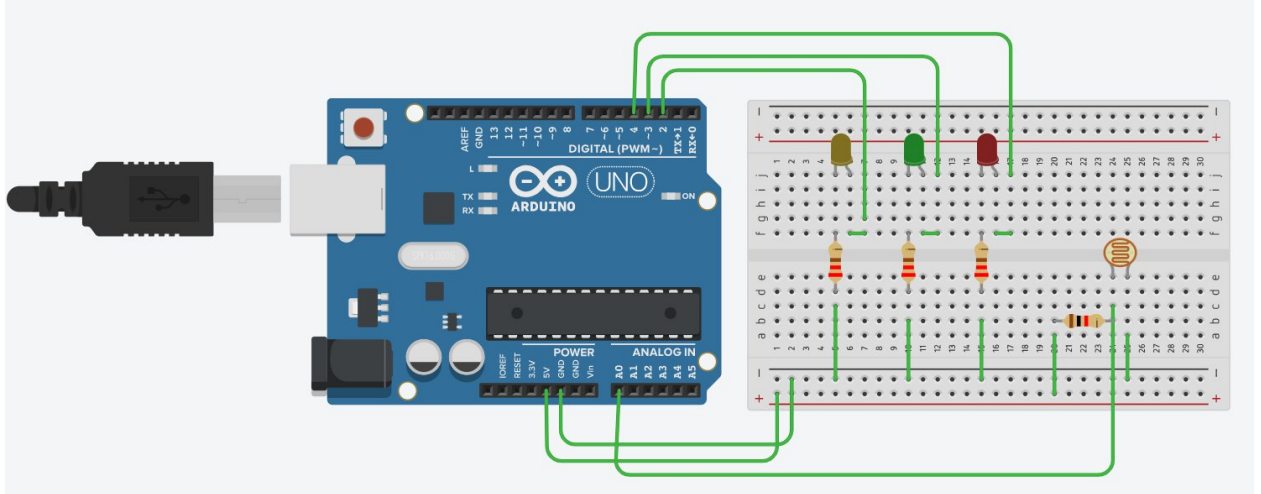
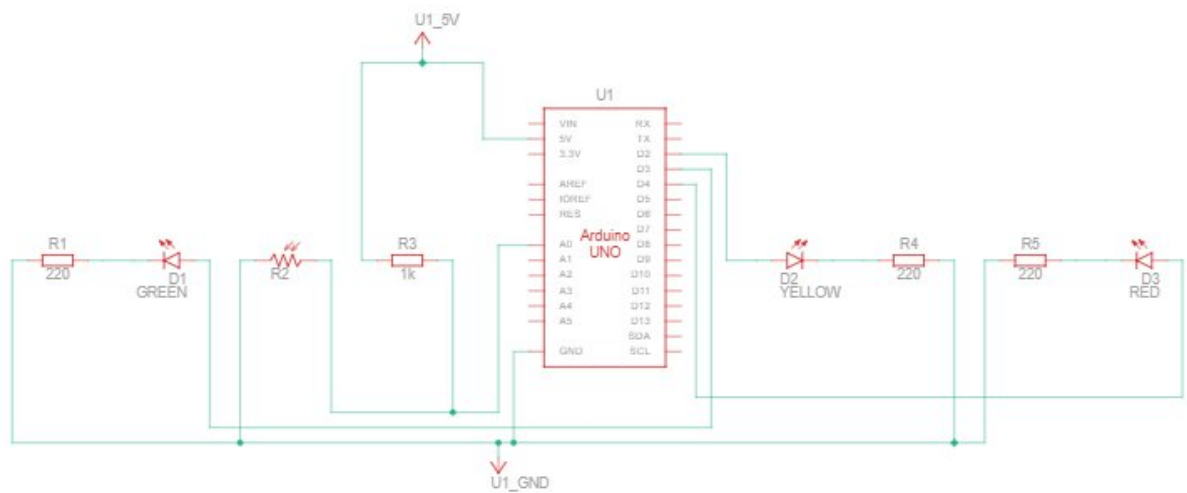


# Fotoresistenza e tre led

## 1. Circuito



## 2. Schema elettrico



### 3. Componenti

Nome	Quantità	Componente
U1	1	Arduino Uno R3
D1	1	Verde LED
R1 R4 R5	3	220 $\Omega$ Resistenza
R2	1	Fotoresistore
R3	1	1 k $\Omega$ Resistenza
D2	1	Giallo LED
D3	1	Rosso LED

### 4. Sketch

int luminosita; //Il valore letto dalla fotoresistenza

int giallo = 2; //Il pin del led

int verde = 3; //Il pin del led

int rosso = 4; //Il pin del led

void setup() {

pinMode(A0, INPUT);

pinMode(giallo, OUTPUT);

pinMode(verde, OUTPUT);

pinMode(rosso, OUTPUT);

Serial.begin(9600);

}

void loop() {

luminosita = analogRead(A0);

Serial.println(luminosita);

```
if (luminosita < 1024 && luminosita >= 800){  
    digitalWrite(giallo,HIGH);  
  
    digitalWrite(verde,HIGH);  
  
    digitalWrite(rosso,HIGH);  
}  
else if( luminosita < 800 && luminosita >= 600){  
    digitalWrite(giallo,LOW);  
  
    digitalWrite(verde,HIGH);  
  
    digitalWrite(rosso,HIGH);  
}  
else if(luminosita < 600 && luminosita >= 400){  
    digitalWrite(giallo,LOW);  
  
    digitalWrite(verde,LOW);  
  
    digitalWrite(rosso,HIGH);  
}  
else if( luminosita < 400){  
    digitalWrite(giallo,LOW);  
  
    digitalWrite(verde,LOW);  
  
    digitalWrite(rosso,LOW);  
}  
}
```

## 5. LINK:

Tinkercad: <https://www.tinkercad.com/things/6XW8fPFCz6F-fotoresistenza-e-tre-led?sharecode=2UBIAcce0tvmQhb8qjhYVOfo9WdqnV6teau2KsKdXwY>

Video Tutorial: [https://youtu.be/TI\\_bsqGqa3k](https://youtu.be/TI_bsqGqa3k)