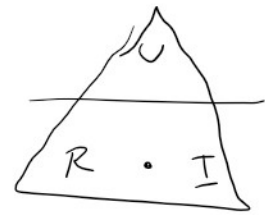


$$U_{LED} = 1,7 V$$

$$I_{LED} = 55 mA$$

$$= 0,055 A$$

$$U = R \cdot I$$



Ges R_{vor}

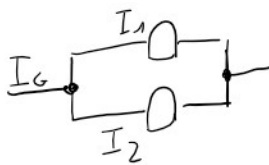
$$U_{vor} = 5 V - 1,7 V = 3,3 V$$

$$R_{vor} = \frac{U_{vor}}{I_{LED}} = \frac{3,3 V}{0,055 A} = 60 \Omega$$

Angenommen: $I_{LED} = 10,5 mA$

max. Ausgangsstrom von $I_G = 33 mA$

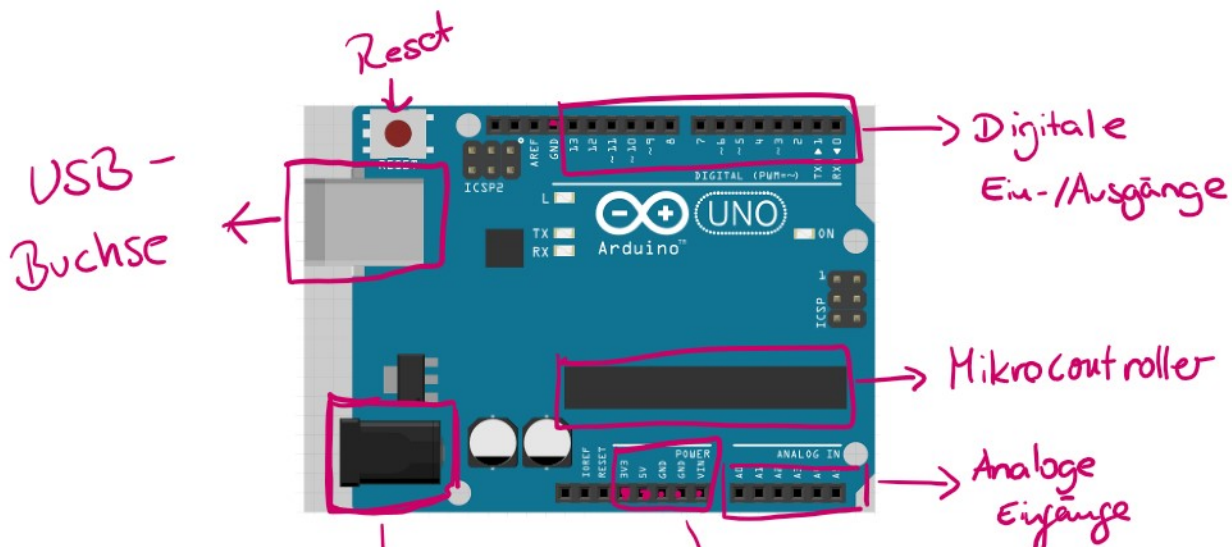
Beh 2 LED können parallel angeschlossen werden

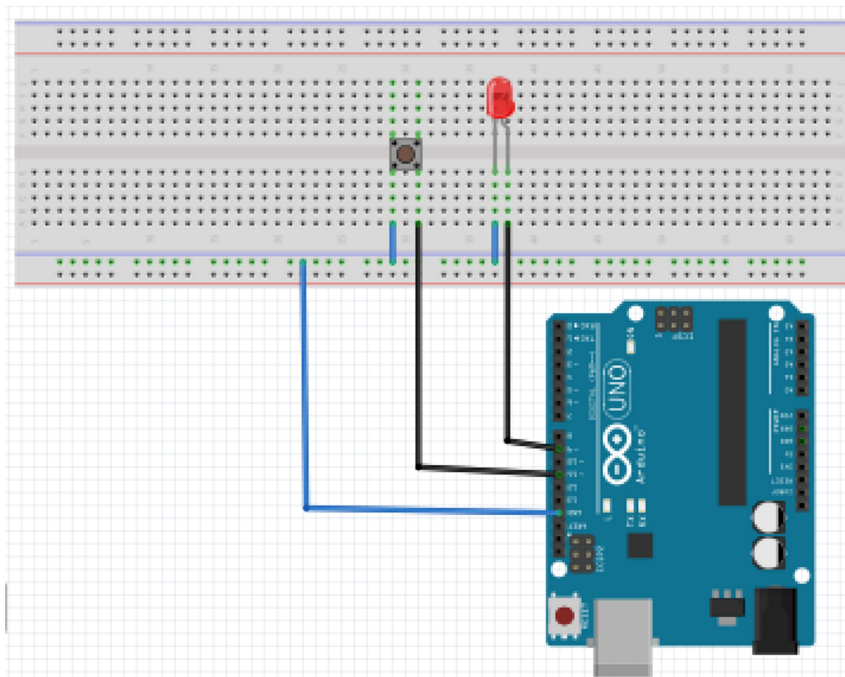
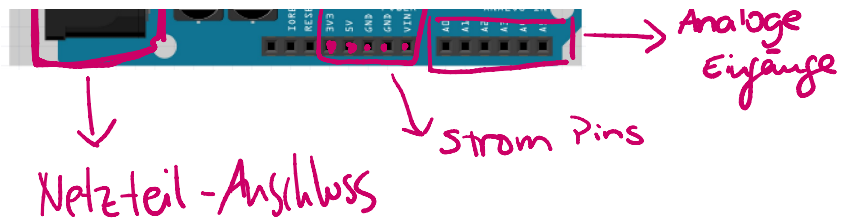


$$33 mA > 2 \cdot 10,5 mA$$

\Rightarrow Beh ist wahr

N	J
1	8
2 E	





LED an Pin 9
Taster an Pin 11

→ Bei Betätigung des Tasters
leuchtet die LED
zweimal für 3 Sekunden
Pause 0,5 Sekunden

```
int led = 9;
int taster = 11;

void setup() {

  pinMode(led,OUTPUT);
  pinMode(taster,INPUT_PULLUP);

}

void loop() {

  if (digitalRead(taster) == LOW) {
    digitalWrite(led,HIGH);
    delay(3000);
    digitalWrite(led,LOW);
  }
}
```

```
delay(500);  
digitalWrite(led,HIGH);  
delay(3000);  
digitalWrite(led,LOW);
```

```
}
```

```
}
```