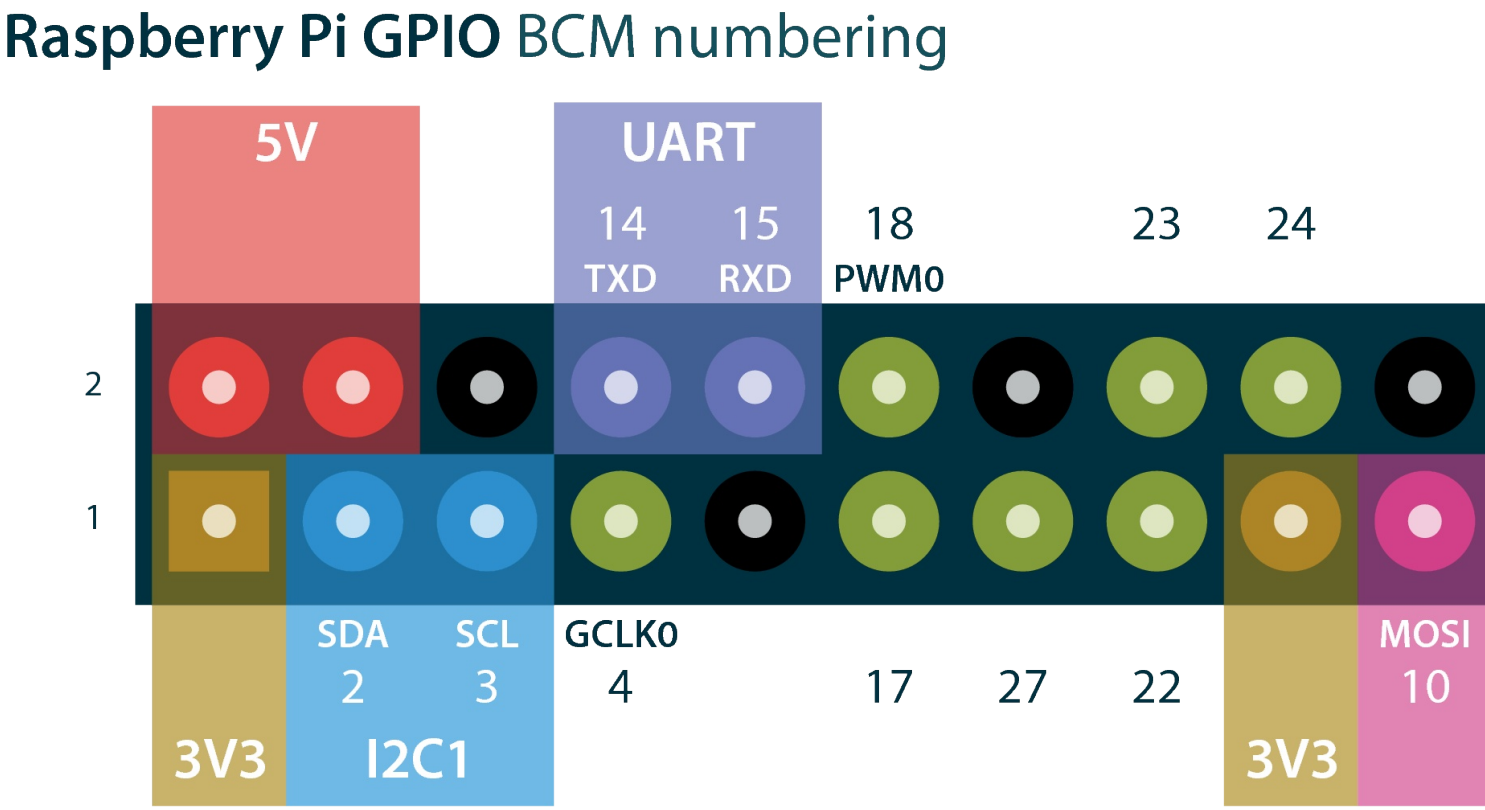
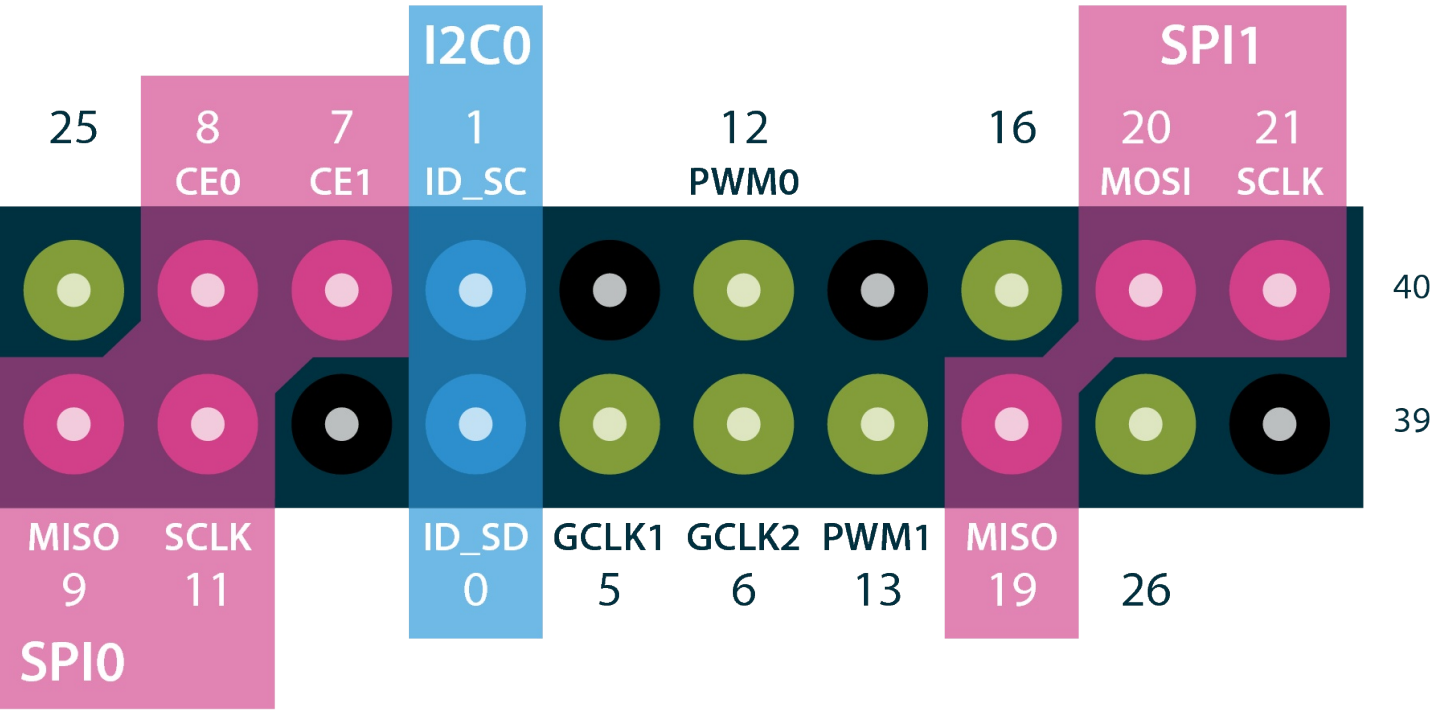
RaspberryPi CheatSheet

Pins



BCM: Pin-Nummern am Chip
BOARD: Pin-Nummern auf dem Board.

Weitere Informationen über Pins:
http://pinout.xyz


I2C0
SPI1
25
8
CE0
7
CE1
1
ID_SC
12
PWM0
16
20
MOSI
21
SCLK
40
39
MISO
9
SCLK
11
SPI0
ID_SD
0
GCLK1
5
GCLK2
6
PWM1
13
MISO
19
26

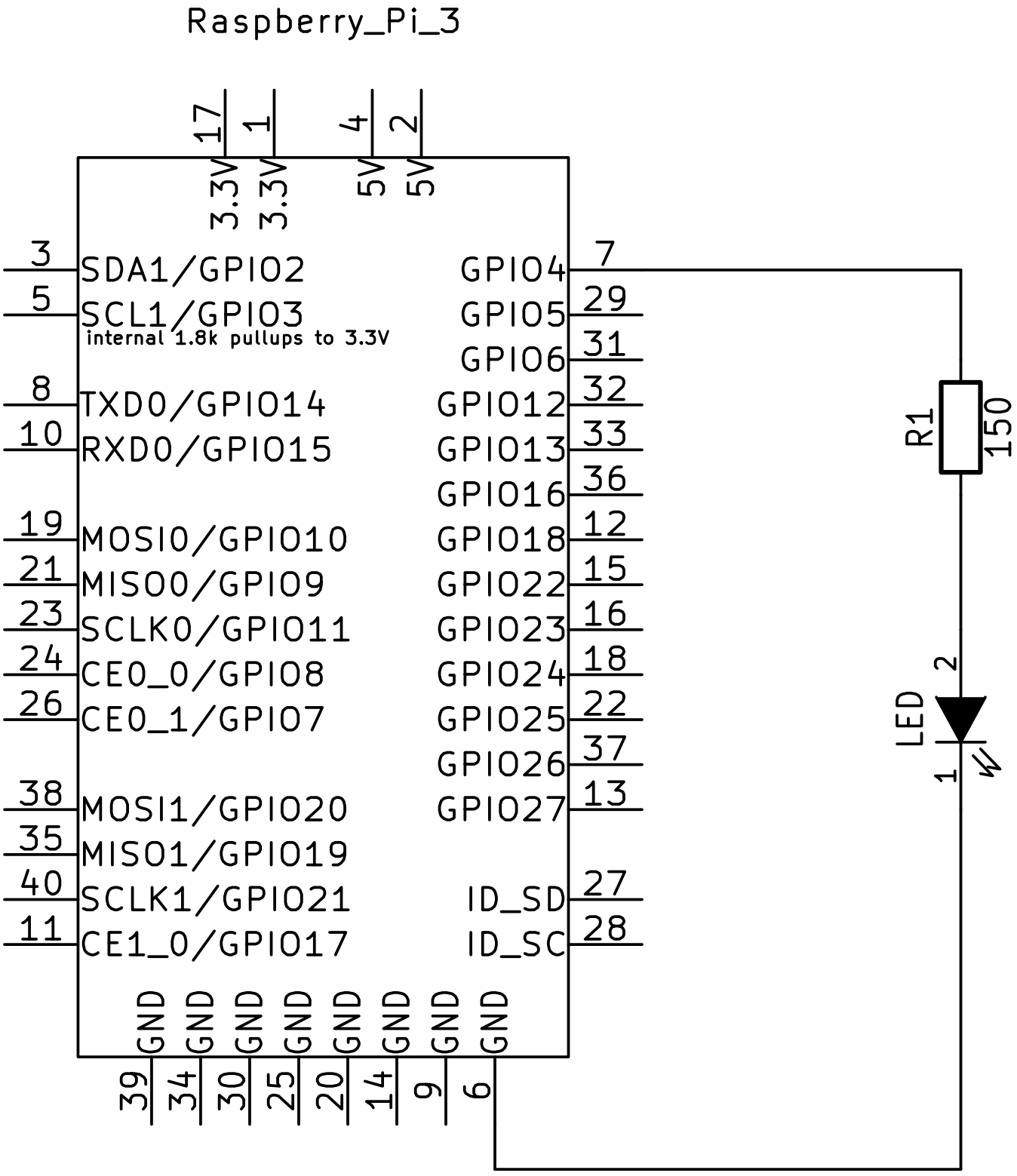
Blinkende LED - Quelltext

```
#blink.py

# Bibliotheken importieren
import RPi.GPIO as GPIO
import time

LED = 7     # Pin 7 (BCM 4)

# Board-Nummerierung
GPIO.setmode(GPIO.BOARD)
# LED-Pin als Ausgang
GPIO.setup(LED, GPIO.OUT)

try:
  while True:
    GPIO.output(LED, True) # LED an
    print("blink")
    time.sleep(0.5)
    GPIO.output(LED, False) # LED aus
    time.sleep(1)
except KeyboardInterrupt:
  GPIO.cleanup()
```

Programm starten

```
$ python3 blink.py
```

Blinkende LED - Schaltung



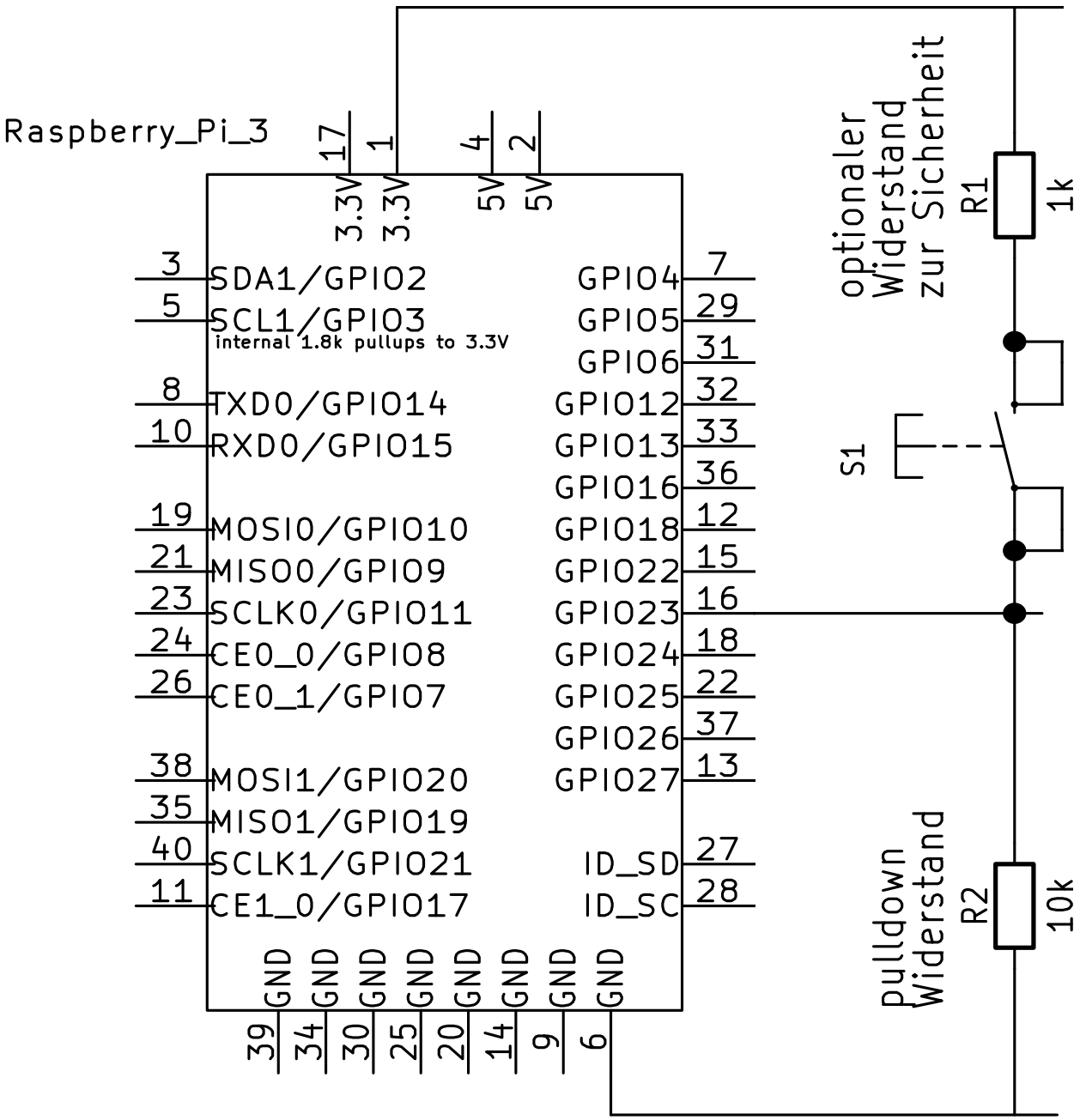
Taster auslesen - Quelltext

```
#taster.py

# Bibliotheken importieren
import RPi.GPIO as GPIO
import time

TASTER = 23     # Pin 16 (BCM 23)

# BCM-Nummerierung
GPIO.setmode(GPIO.BCM)
# Taster-Pin als Eingang
GPIO.setup(TASTER, GPIO.IN)

try:
  while True:
    # Taster auslesen
    invalue = GPIO.input(TASTER)
    print("Tasterwert", invalue)
    time.sleep(0.5)
except KeyboardInterrupt:
  GPIO.cleanup()
```

Programm starten

```
$ python3 taster.py
```

Taster auslesen - Schaltung



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