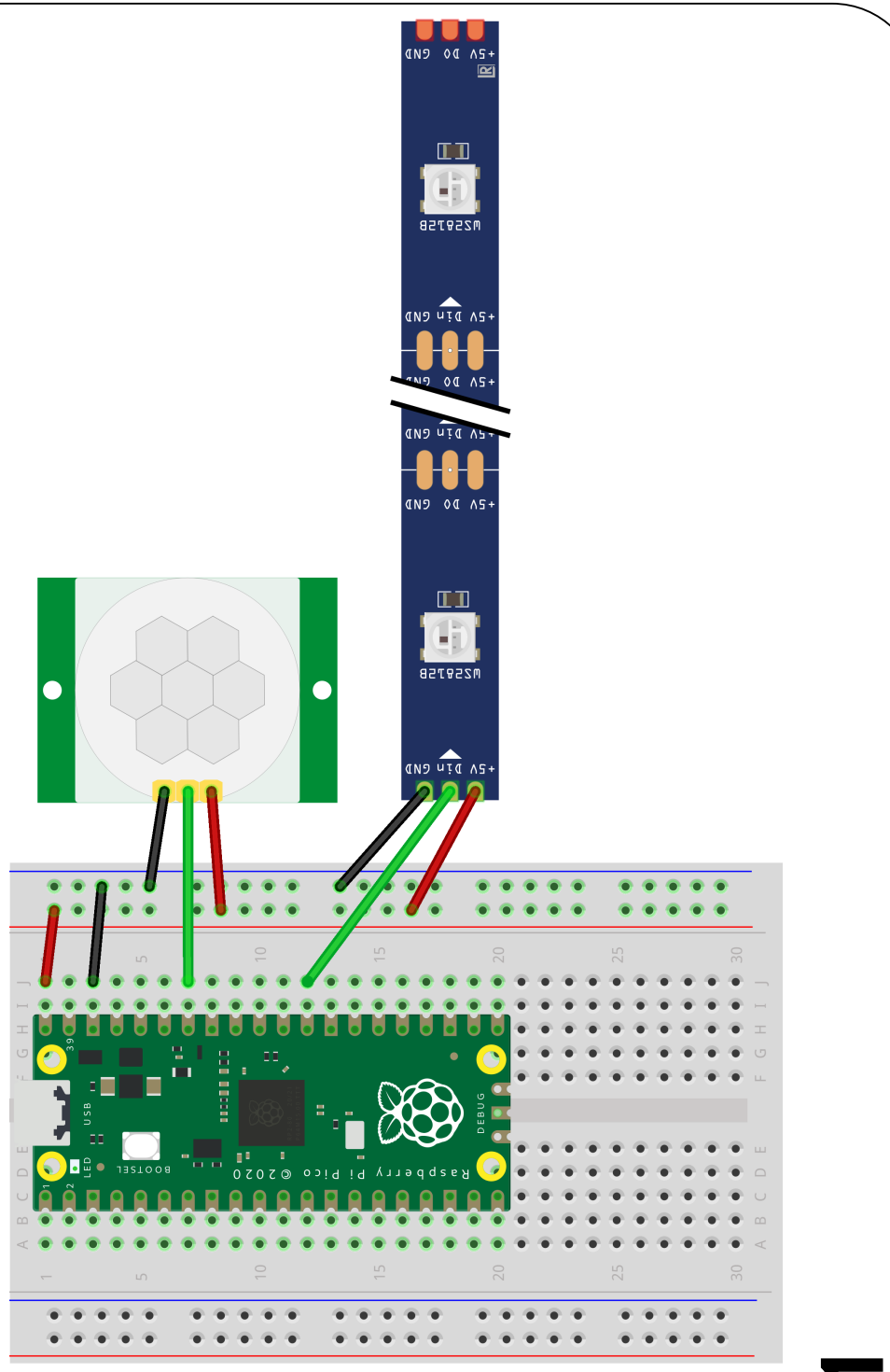
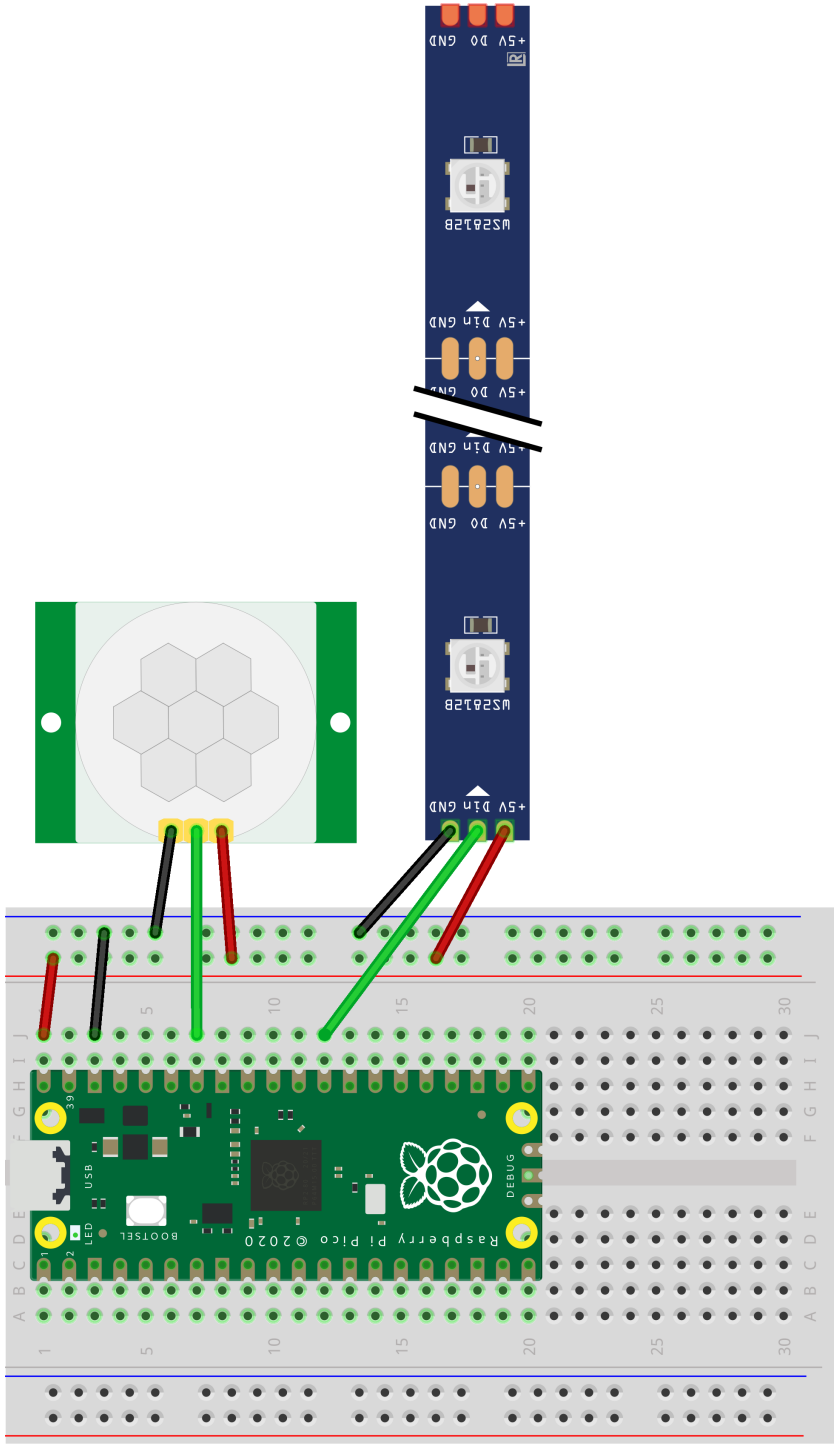


CC BY-NC-SA 4.0

JFF Büro Berlin

fritzing



CC BY-NC-SA 4.0

JFF Büro Berlin

fritzing

CC BY-NC-SA 4.0

JFF Büro Berlin

```
# Bibliotheken laden
#------------------------------------------------------------------
from machine import Pin, Timer
from neopixel import NeoPixel
from utime import sleep_ms
import time
from random import randint


# Onboard LED vom Raspberry Pi Pico (Blinkt zum testen einer Verdindung)
#------------------------------------------------------------------
led = Pin(25, Pin.OUT)
timer = Timer()
def blink(timer):
    led.toggle()
timer.init(freq=2.5, mode=Timer.PERIODIC, callback=blink)


# Bewegungssensor PRI-Sensor
#------------------------------------------------------------------
prisensorpin = machine.Pin(28, machine.Pin.IN)


# LEDs
#------------------------------------------------------------------
colors = [
    (24, 0, 0),
    (0, 24, 0),
    (0, 0, 24),
    (12, 12, 0),
    (0, 12, 12),
    (12, 0, 12),
]
array = len(colors)
ledpin = 22
ledanzahl = 15
speed = 120
ledstreifen = NeoPixel(Pin(ledpin, Pin.OUT), ledanzahl)


# Eine eigene Funktion
#------------------------------------------------------------------
def rainbow():
    for i in range (ledanzahl):
        ledstreifen[i] = colors[randint(0, array-1)]
    ledstreifen.write()
    sleep_ms(speed)

# Wiederholung (Endlos-Schleife)
#------------------------------------------------------------------
while True:
    if prisensorpin.value():
        print("motion detected")
        rainbow()
    else:
        ledstreifen.fill((0,0,0))
        ledstreifen.write()
```


CC BY-NC-SA 4.0

JFF Büro Berlin


```
# Bibliotheken laden
#------------------------------------------------------------------
from machine import Pin, Timer
from neopixel import NeoPixel
from utime import sleep_ms
import time
from random import randint


# Onboard LED vom Raspberry Pi Pico (Blinkt zum testen einer Verdindung)
#------------------------------------------------------------------
led = Pin(25, Pin.OUT)
timer = Timer()
def blink(timer):
    led.toggle()
timer.init(freq=2.5, mode=Timer.PERIODIC, callback=blink)


# Bewegungssensor PRI-Sensor
#------------------------------------------------------------------
prisensorpin = machine.Pin(28, machine.Pin.IN)


# LEDs
#------------------------------------------------------------------
colors = [
    (24, 0, 0),
    (0, 24, 0),
    (0, 0, 24),
    (12, 12, 0),
    (0, 12, 12),
    (12, 0, 12),
]
array = len(colors)
ledpin = 22
ledanzahl = 15
speed = 120
ledstreifen = NeoPixel(Pin(ledpin, Pin.OUT), ledanzahl)


# Eine eigene Funktion
#------------------------------------------------------------------
def rainbow():
    for i in range (ledanzahl):
        ledstreifen[i] = colors[randint(0, array-1)]
    ledstreifen.write()
    sleep_ms(speed)

# Wiederholung (Endlos-Schleife)
#------------------------------------------------------------------
while True:
    if prisensorpin.value():
        print("motion detected")
        rainbow()
    else:
        ledstreifen.fill((0,0,0))
        ledstreifen.write()
```


1