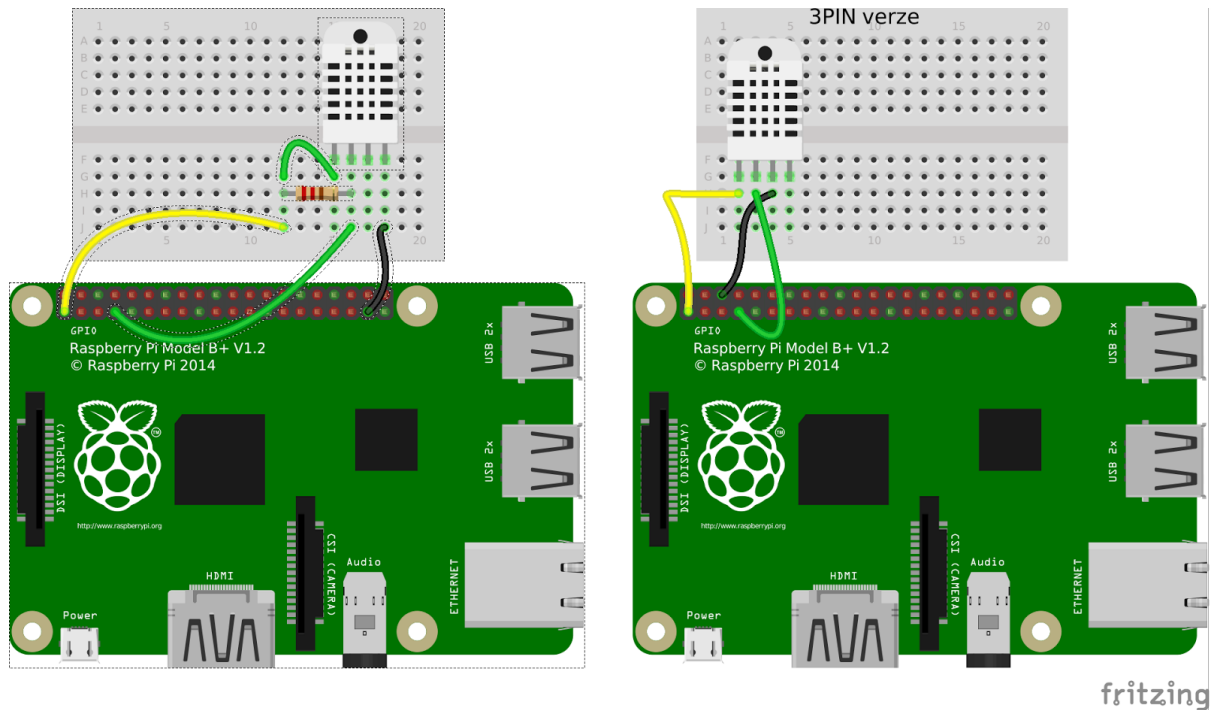


Mereni vlhkosti DHT11 (dve verze)

<https://learn.adafruit.com/dht-humidity-sensing-on-raspberry-pi-with-gdocs-logging/overview>



PYTHON

```
import RPi.GPIO as GPIO
import time
```

```
def bin2dec(string_num):
    return str(int(string_num, 2))
```

```
data = []
```

```
GPIO.setmode(GPIO.BCM)
```

```
GPIO.setup(4,GPIO.OUT)
GPIO.output(4,GPIO.HIGH)
time.sleep(0.025)
GPIO.output(4,GPIO.LOW)
time.sleep(0.02)
```

```
GPIO.setup(4, GPIO.IN, pull_up_down=GPIO.PUD_UP)
```

```

for i in range(0,500):
    data.append(GPIO.input(4))

bit_count = 0
tmp = 0
count = 0
HumidityBit = ""
TemperatureBit = ""
crc = ""

try:
    while data[count] == 1:
        tmp = 1
        count = count + 1

    for i in range(0, 32):
        bit_count = 0

        while data[count] == 0:
            tmp = 1
            count = count + 1

        while data[count] == 1:
            bit_count = bit_count + 1
            count = count + 1

        if bit_count > 3:
            if i>=0 and i<8:
                HumidityBit = HumidityBit + "1"
            if i>=16 and i<24:
                TemperatureBit = TemperatureBit + "1"
        else:
            if i>=0 and i<8:
                HumidityBit = HumidityBit + "0"
            if i>=16 and i<24:
                TemperatureBit = TemperatureBit + "0"

except:
    print "ERR_RANGE"
    exit(0)

try:
    for i in range(0, 8):
        bit_count = 0

        while data[count] == 0:

```

```

        tmp = 1
        count = count + 1

    while data[count] == 1:
        bit_count = bit_count + 1
        count = count + 1

    if bit_count > 3:
        crc = crc + "1"
    else:
        crc = crc + "0"
except:
    print "ERR_RANGE"
    exit(0)

Humidity = bin2dec(HumidityBit)
Temperature = bin2dec(TemperatureBit)

if int(Humidity) + int(Temperature) - int(bin2dec(crc)) == 0:
    print "Humidity:" + Humidity + "%"
    print "Temperature:" + Temperature + "C"
else:
    print "ERR_CRC"

```

Celej python kod je nestabilni.

python AdafruitDHT.py 11 4

11 typ cidla
4 GPIO (BCM)

Co treba pouzít rozumny kod a navíc data rvát do Google Tabulky?
Mrk na

https://docs.google.com/spreadsheets/d/1aVZZY_qGac6p1JsgA8761cXx39GJzHiCMDA6faMCA0U/edit#gid=0

