

Software Versions

Midi Access Version



Press, Change the Effects by tap the pattern and switch into the midi mode

- Single Tap** – Change Effect 1 / 2
- Double Tap** – Change 3
- Long Hold Tap** – Momentary Actual Effect

Shutter Gate Version



Press changes Effect 1, than change Effect 2

- Double Tap** – Change Effect 1 / 2
- Long Hold Tap** – Momentary/Shutter
- Shutter Speed** – Momentary/Shutter

How to Flash and Test -Raspberry Pi 2040 Zero

1.) Install Thonny → <https://thonny.org/>

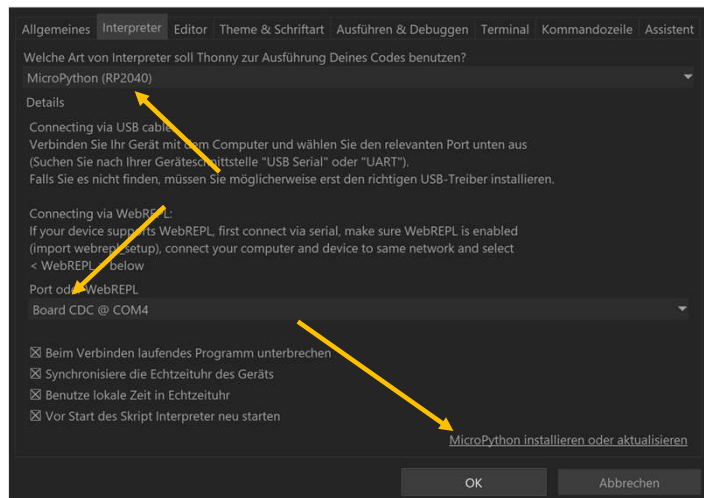
2.) Download Code → **Whammy4_Shutter_Gate.py**

3.) Rename to → **main.py**

4.) Start Thonny, open Python File

5.) Tools → Options → Interpreter

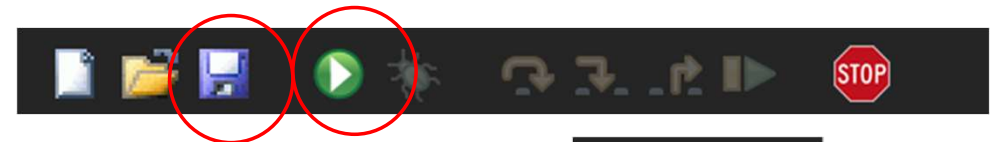
6.) →



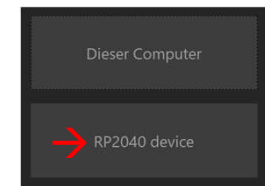
7.) Connect RP 2040 with PC

8.) Restart Thonny

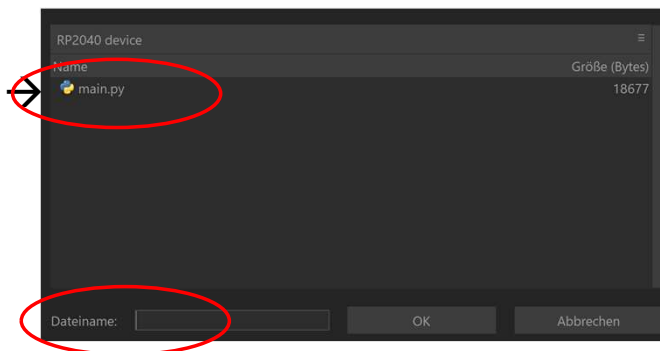
9.) Test your Functions here

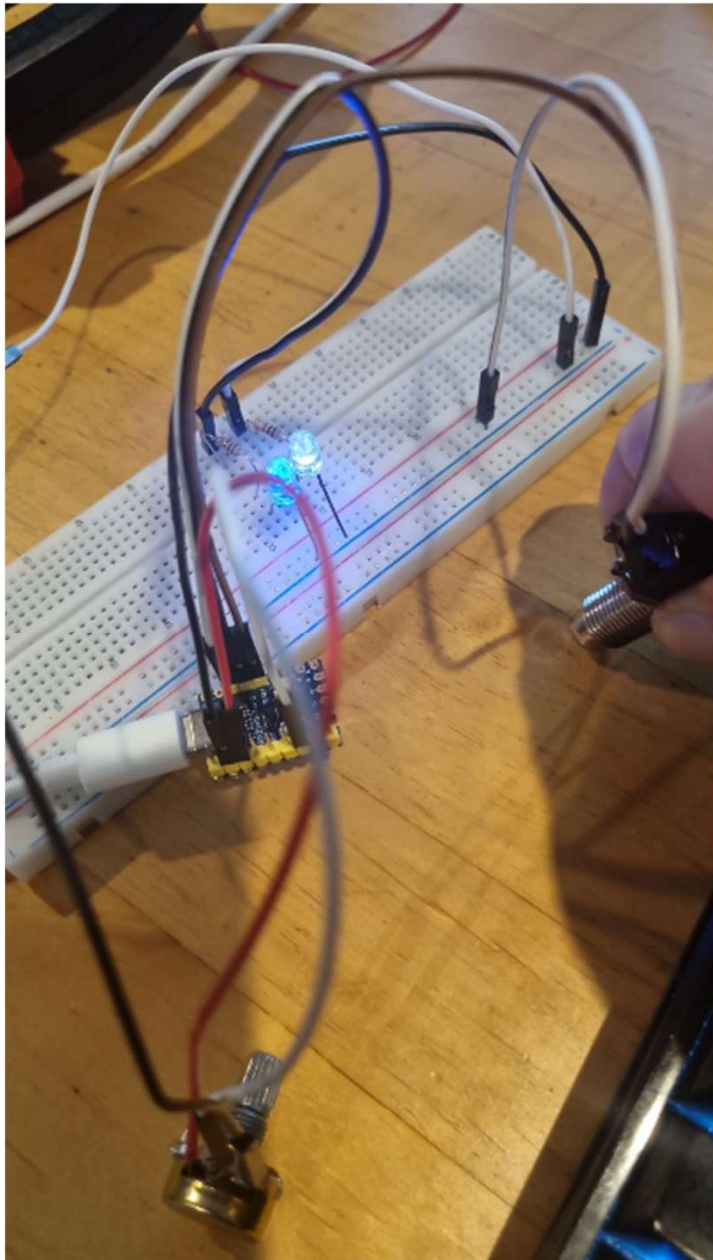


10.) Save as

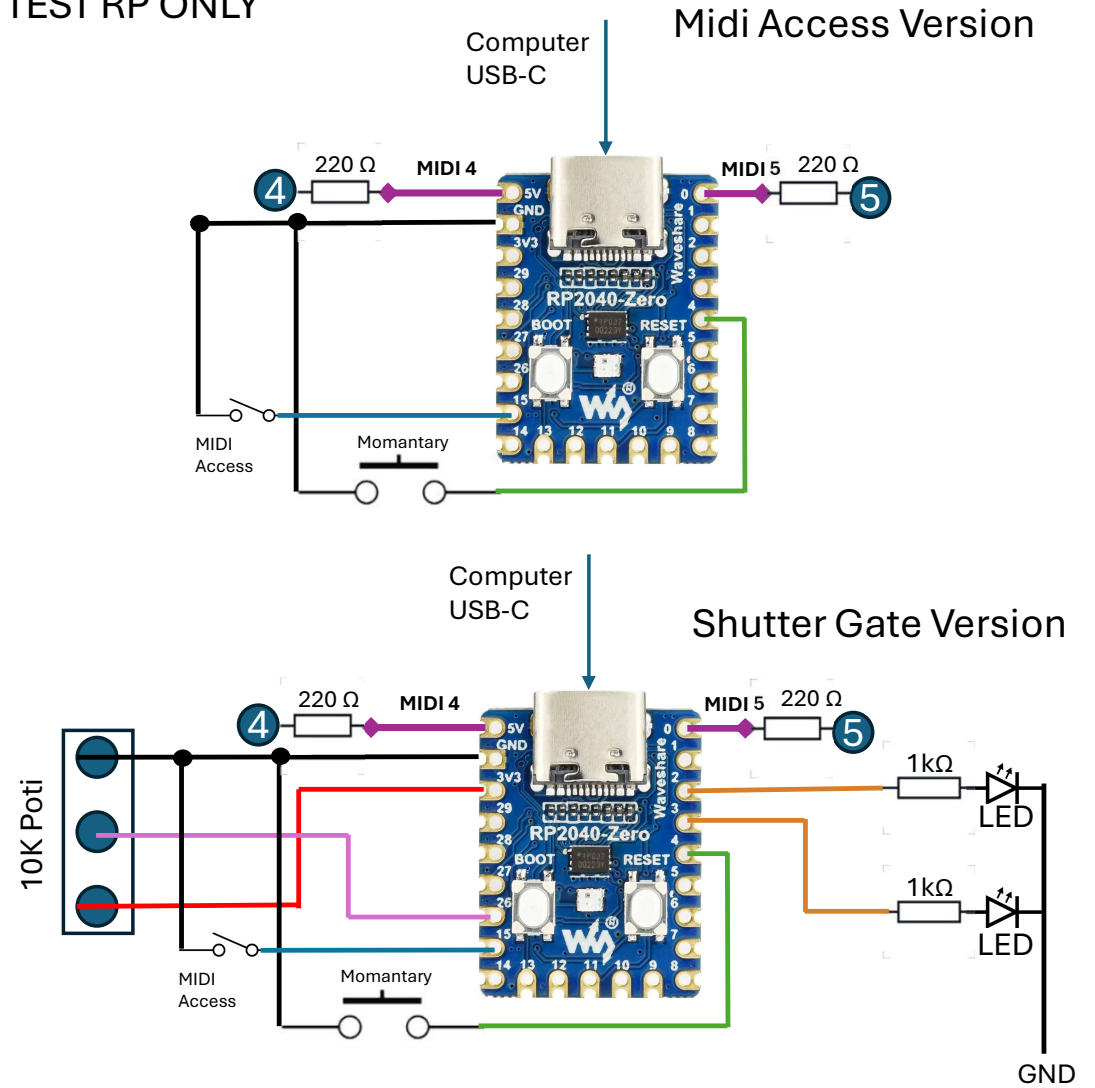


11.) Flash





TEST RP ONLY




```

5  from machine import Pin, ADC
6  import time
7
8  # =====
9  # DEBUG
10 # =====
11 DEBUG = False # <-- For Tests, set True
12 DEBUG_A_EVENTS = False # <-- For Tests, set True
13 DEBUG_A_SCOPE = True # <-- For Tests, set True
14 SCOPE_EVERY_MS = 5
15 SCOPE_WIDTH = 80
16
17 # =====
18 # DEVELOPMENT BYPASS
19 # =====
20 DEV_BYPASS_MOMENTARY = False # <-- For Tests, set True
21
22 # =====
23 # PC SOUND (Serial Frequency Output)
24 # =====
25 FREQ_SEND_EVERY_MS = 50
26
27 # =====
28 # BYPASS / GATE LOGIC
29 # =====
30 BYPASS_B_INVERT = True
31 BBM_DELAY_US = 20
32
33 def dbg(msg):
34     # DEBUG

```

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```

A=0 B=0 ..... half=30ms
A=0 B=0 ..... half=30ms
A=0 B=0 .....
[SCOPE STOP]

[SCOPE START]
A=0 B=0 ..... half=30ms
A=0 B=0 ..... half=30ms
A=0 B=0 ..... half=30ms
A=1 B=1 .....

```

