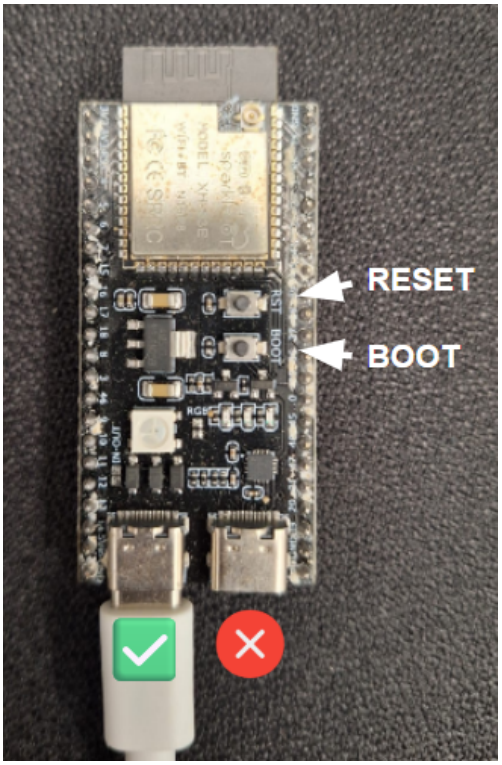
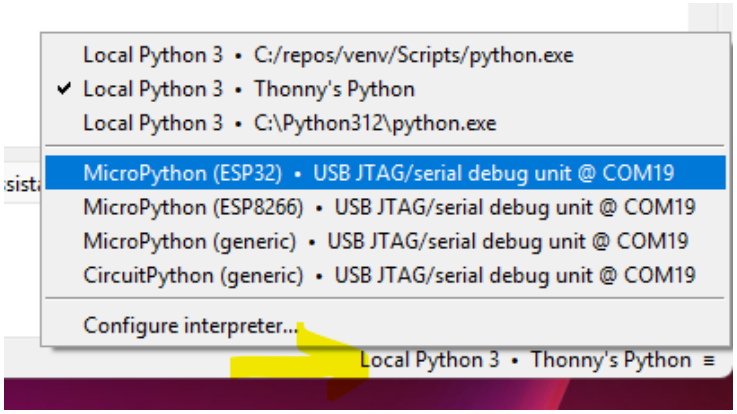
ESP32-S3 MicroPython Thonny setup procedure

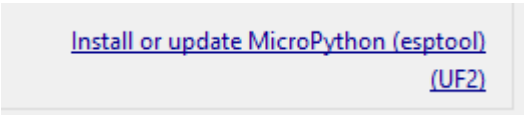


1. Open the THONNY IDE on your computer first
2. Connect the ESP32-S3 using the USB port as shown
3. Press and HOLD DOWN the BOOT button while inserting the USB cable into the computer
4. Bottom right corner of Thonny - Click the Python selection menu. A menu similar to the below will appear.
5. Find the one for the ESP32. If MicroPython is already installed on the board (like the example), select it and jump to step 9

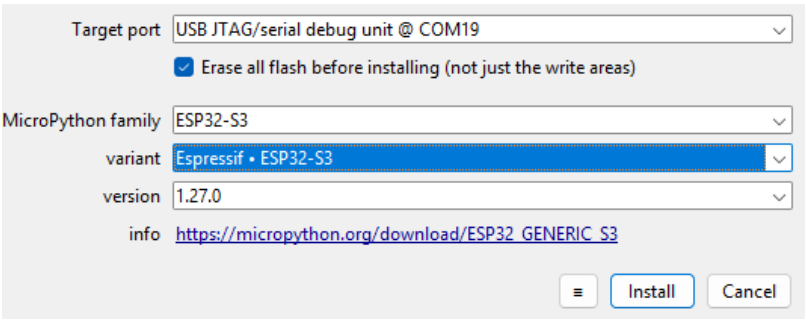
   Otherwise, select Configure Interpreter.



6. In the configure interpreter popup, select "Install or update MicroPython (esptool)"

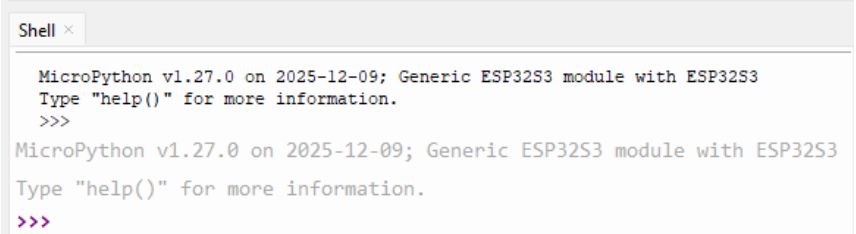


7. Target Port: Select whichever COM is appearing
   MicroPython family: Select ESP32-S3
   Variant: Select Espressif
   Version: Accept the default
   Click install



8. Once Done, press the RESET button on the ESP32

9. The shell window in Thonny should appear like this. If not, you may have to click the STOP icon in Thonny



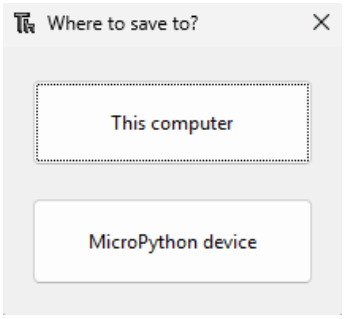
10. Create the following test program in Thonny

```
import machine
import neopixel
import time

led = neopixel.NeoPixel(machine.Pin(48), 1)
print("Police lights!")
for i in range(10):
    led[0] = (255,0,0)
    led.write()
    time.sleep(0.25)
    led[0] = (0,0,255)
    led.write()
    time.sleep(0.25)
print("Ready")
```

11. Select FILE / SAVE

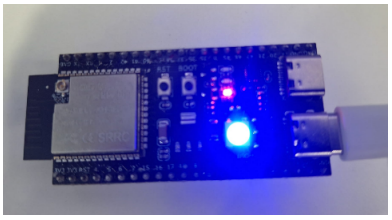
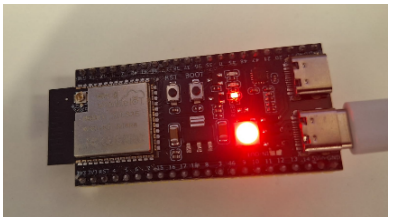
12. Select the MicroPython device option



13. Name the file **`main.py`**

14. Click RUN.

15. The onboard Neopixel should alternate blue and red 10 times. Congrats!

Now invent your own ESP32 MicroPython project!!