

# MicroPython with uPyCraft IDE

## Troubleshooting

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We've discovered some common problems and error messages that occur with uPyCraft IDE. Usually restarting your ESP with the on-board **EN/RST** button fixes your problem or pressing the uPyCraft IDE **"Stop"** button and repeating your desired action. In case it doesn't work for you, read these next common errors and discover how to solve them.

**Error #1:** *You get the following message:*

```
>>>
Select Serial Port could not open port 'COM4':
FileNotFoundError(2, 'The system cannot find the file
specified.', None, 2)
```

Or an equivalent message:

```
>>>
could not open port 'COM4': PermissionError(13, 'A device
attached to the system is not functioning.', None, 31)
```

Unplug, and plug back your ESP board. Then, double-check that you've selected the right serial port in the **Tools ▶ Serial** menu. Then, click the **"Connect/disconnect"** button to establish a serial communication. You should now be able to upload a new script or re-run new code.

This error might also mean that you have your serial port being used in another program (like a serial terminal or in the Arduino IDE). Double-check that you've closed all the programs that might be establishing a serial communication with your ESP board. Then, unplug and plug back your ESP board. Finally, restart the uPyCraft IDE – try to select the serial port in the **Tools ▶ Serial** menu.

**Error #2:** *Trouble uploading a new script.*

```
>>>
already in download mode, please wait.
```

Press the **“Stop”** button in uPyCraft IDE (1 or 2 times) to make sure any code that was running stops. After that, press the **“Download and run”** button to upload the new script to your ESP board.

**Error #3:** *After uploading a new script, if you see the following message:*

```
>>>
Ready to download this file,please wait!
...
download ok
os.listdir('.')
Traceback (most recent call last):
File "<stdin>", line 1, in <module>
NameError: name 'os' isn't defined
```

Or this message:

```
>>>
Ready to download this file,please wait!
...
download ok
os.listdir('.')
OSError: [Errno 98]
```

It means the new file was uploaded to your board successfully. You can notice that it printed the **“download ok”** message. Press the ESP on-board “EN/RST” button to restart your board and re-run the new uploaded script from the beginning.

**Error #4:** *Problem restarting your board, running a script or opening the serial port:*

```
>>>
Brownout detector was triggered
```

The “Brownout detector was triggered” error message means that there’s some sort of hardware problem. It’s often related to one of the following issues:

- Poor quality USB cable;
- USB cable is too long;
- Board with some defect (bad solder joints);
- Bad computer USB port;
- Or not enough power provided by the computer USB port.

**Solution:** try a different shorter USB cable (with data wires), try a different computer USB port or use a USB hub with an external power supply.

**IMPORTANT:** if you keep having constant problems or weird error messages, we recommend re-flashing your ESP board with the latest version of MicroPython firmware.

**Error #5:** *When I try to open a serial communication with the ESP32/ESP8266 in uPyCraft IDE, sometimes it prompts the “Burn Firmware” window asking to re-flash the MicroPython firmware.*

Basically, we think this is what’s happening: when you’re running a script in your board, sometimes it’s busy running that script and performing the tasks. So, you need to try opening the COM port multiple times or restart the ESP to catch it available to establish the serial communication with uPyCraft IDE.

If you’re running a script that uses Wi-Fi, deep sleep, or it's doing multiple tasks, I recommend trying 3 or 4 times to establish the communication. If you can’t, I recommend re-flash the ESP with MicroPython firmware.