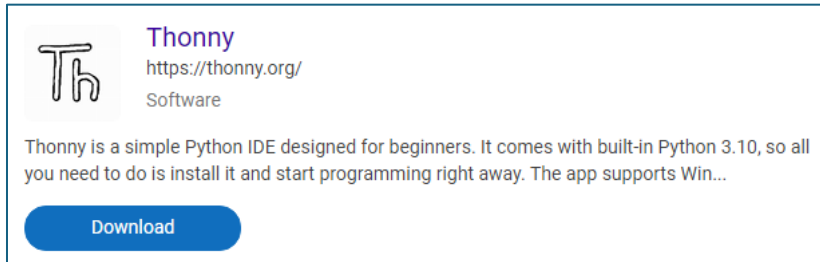
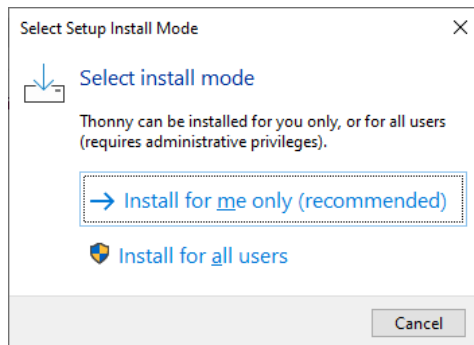


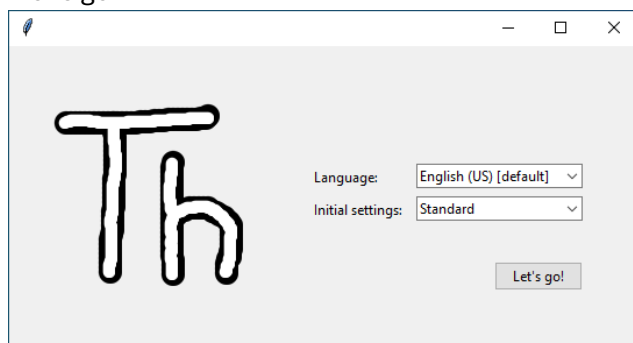
We are going to install Thonny and then test it. Start a browser and go to:



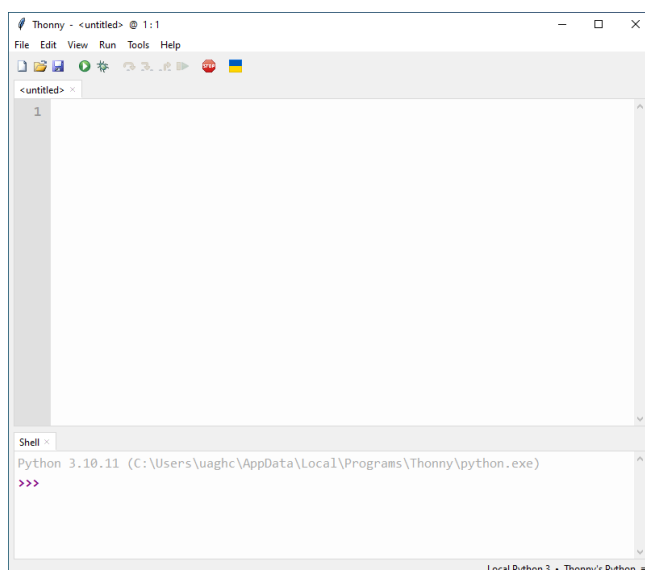
I downloaded and started the Windows version:



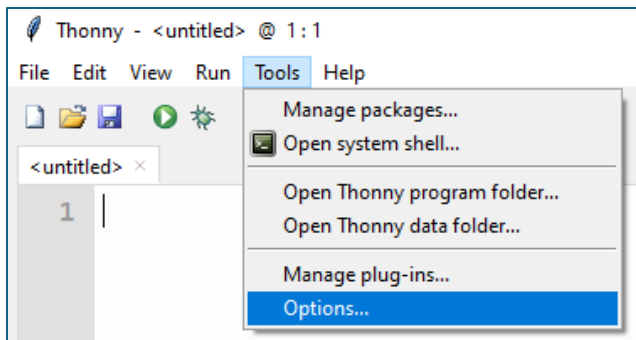
Now you just have to wait. Start Thonny after it is installed, do not change any settings, and click 'Let's go!':



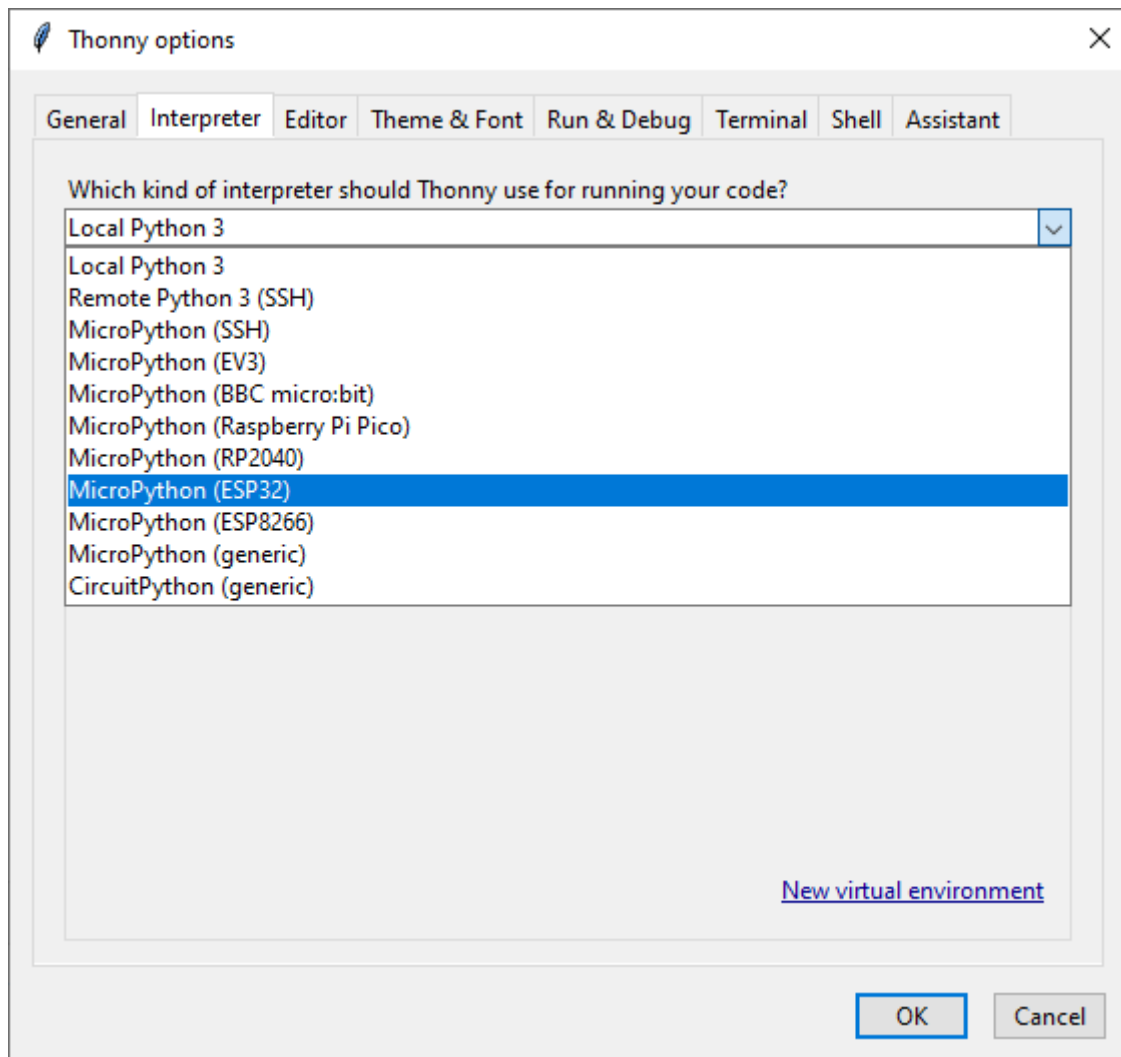
Thonny starts up, there is nothing to see yet. The bottom part shows which Python interpreter is active, at the moment it is the local Python 3.10 interpreter:



We will now first set up Thonny for MicroPython. Go to "Tools", "Options":



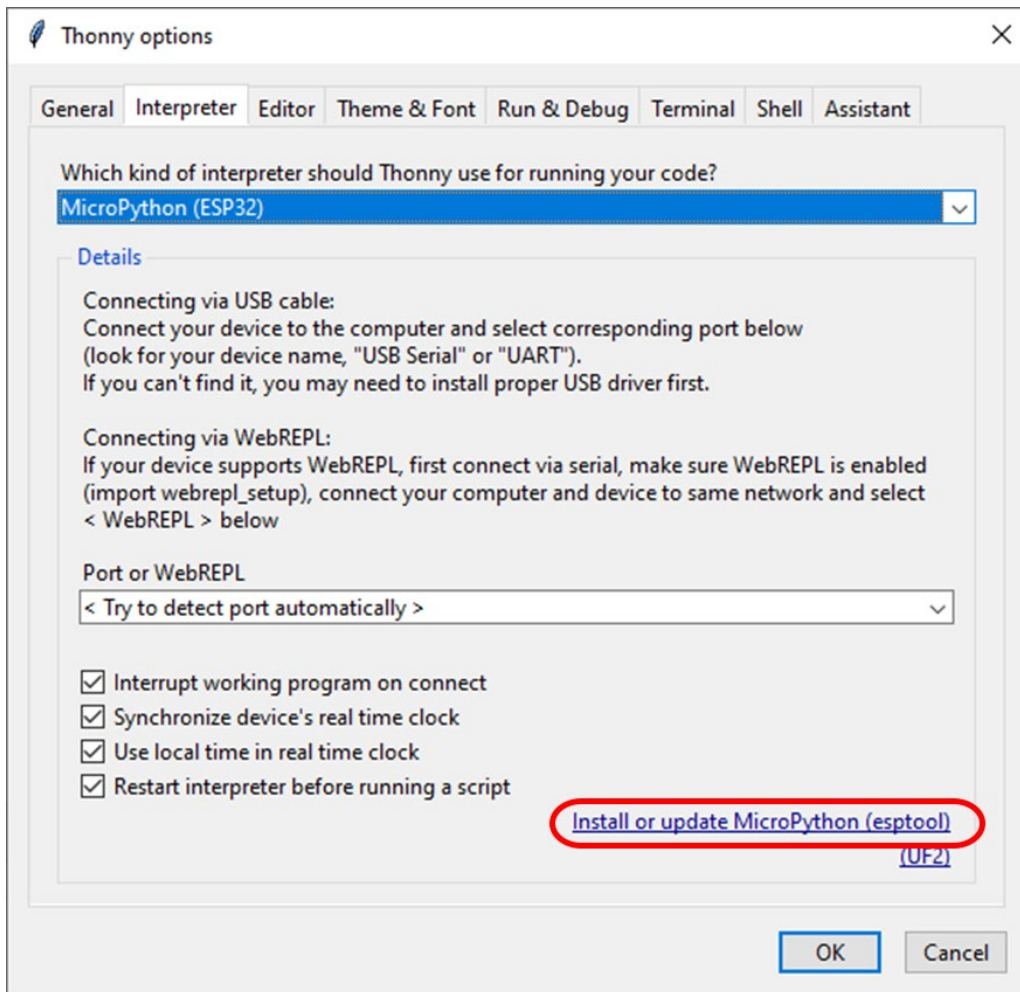
Go to the "Interpreter" tab and choose "MicroPython (ESP32)":



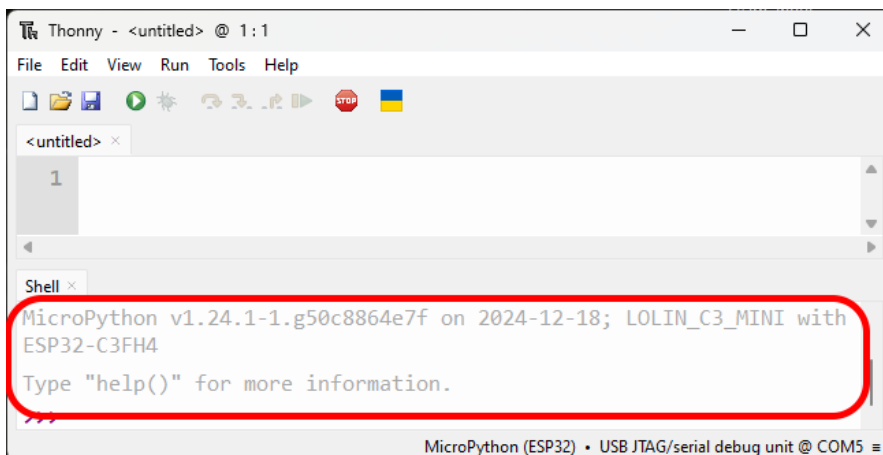
Now you're on the "Interpreter" tab, what you need to depends on whether or not MicroPython is already installed on the ESP32-C3. For now click "OK".

If MicroPython is already installed on the ESP32-C3 the Thonny "shell" window will show the details of the active MicroPython interpreter (see picture below the "Thonny options", "Interpreter" image).

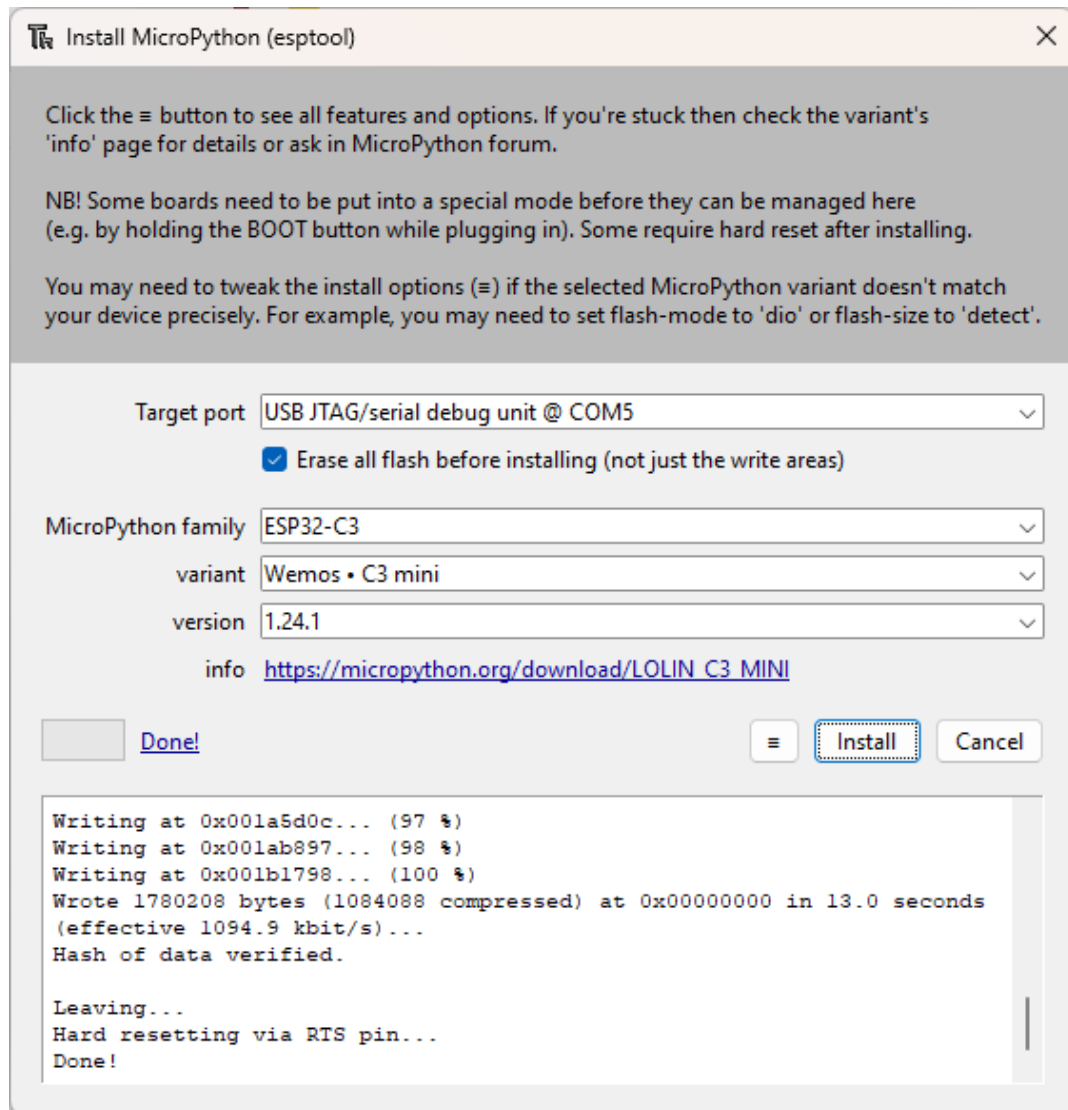
If you have a brand new ESP32-C3, return to "Tools", "Options", "Interpreter" tab: "Install or update MicroPython (esptool)":



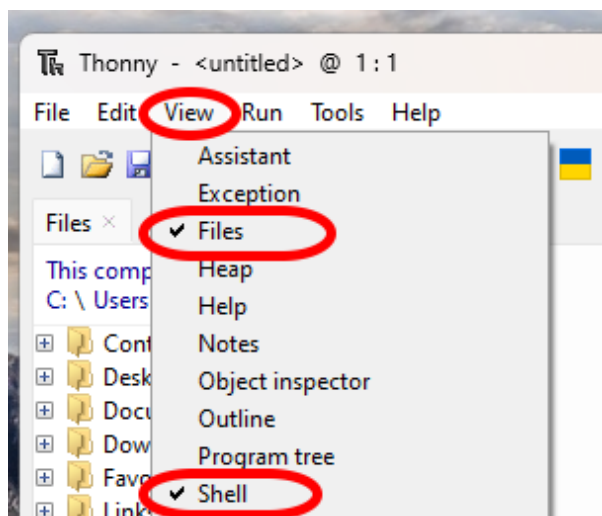
An ESP32-C3 with MicroPython installed show this:



If you need to install MicroPython, choose the following settings (the version may be newer) and click "Install" (this picture is the result):



Close the window and change the following in the "View" menu:

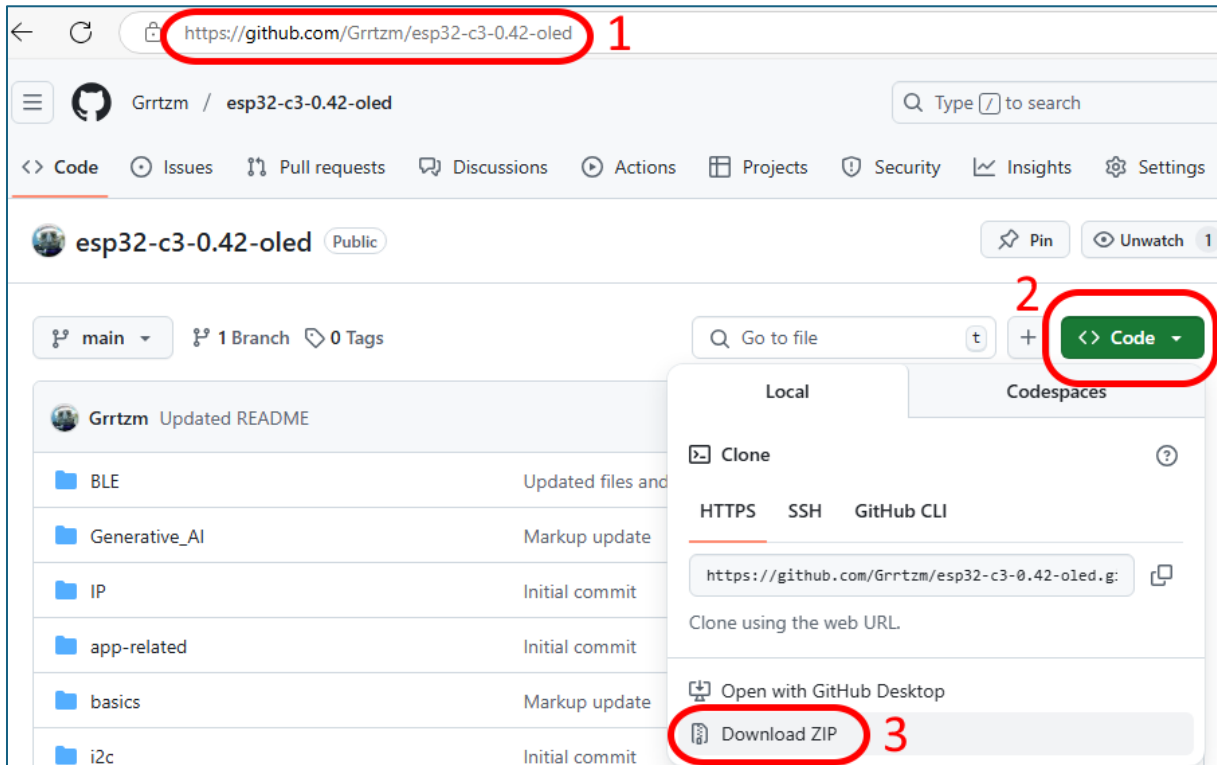


You have now successfully set up Thonny.

How to use Thonny

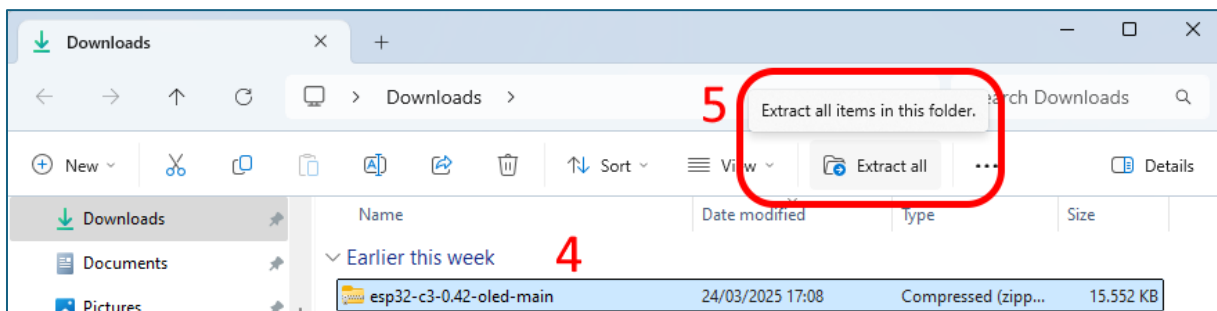
Before we start using Thonny, let's download the code from the repository.

1. Go to: <https://github.com/Grrtzm/esp32-c3-0.42-oled> (see below)
2. Click on the green "Code" button.
3. Click on "Download ZIP" (by default the file will be in the "Downloads" folder)



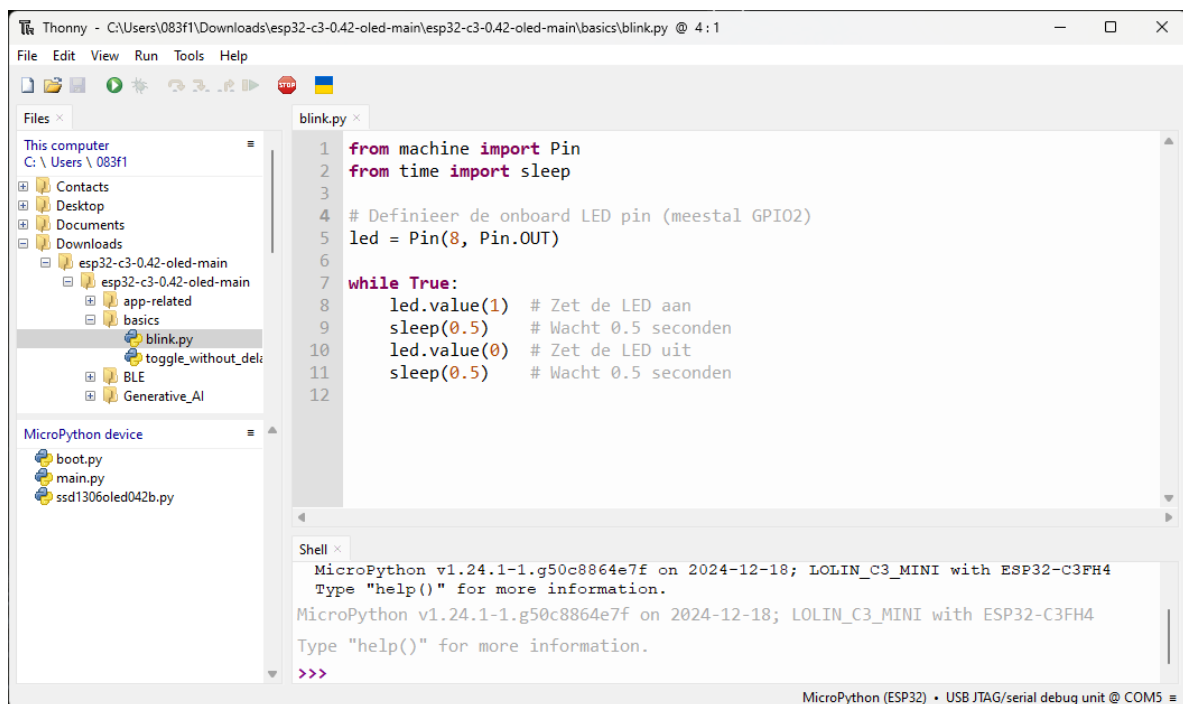
On Explorer and go to the "Downloads" folder.

4. Select the file
5. Unzip it.



If all goes well, you should now have a folder with the same name as the ZIP file. We will open that folder in Thonny. Start Thonny now.

This is the Thonny view I prefer (see previous page for how to set this up):



The top left pane shows the file browser. Select a file and double-click it to open it in the top right pane. Now you can run this code by clicking the green “play” button (top left). If the program prints information, you will see it in the “Shell” window. Errors are also shown there.

To stop the program, click anywhere in the “Shell” window and press Ctrl+C.

You can also run MicroPython commands from the “Shell”. You could even copy the entire program above to the “Shell” window. To do this: Select and copy the code, click on the right side of the “>>>” symbols (the prompt), and paste it to run. Again, to stop it, press Ctrl+C.

The bottom left window shows the files on the ESP32-C3 device. A blank device only contains “boot.py”. You can copy files there from the file browser by right-clicking on a file and selecting “Upload to /”.

If you want MicroPython code to run when you power on the ESP32-C3, you need to put your code in “main.py”. If it doesn’t exist, press Ctrl+N. This creates a new file. You now have a new tab named < untitled > in the top right window. Paste your code into the new file and click “File”, “Save as”. “Where to save to?” -> MicroPython device”.

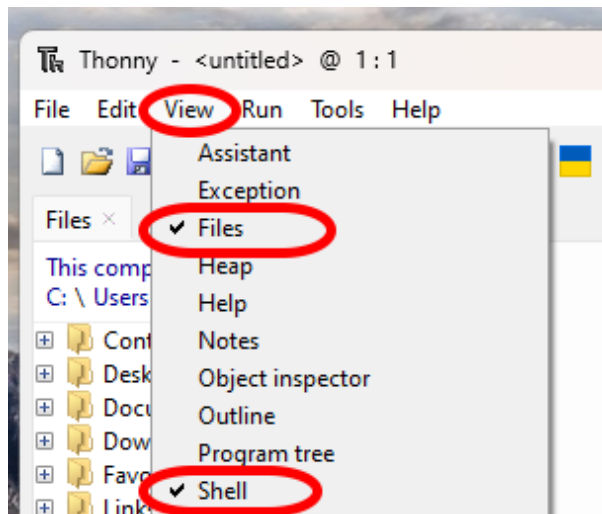
Tip: You can run your “main.py” by clicking in the “Shell” window and pressing Ctrl+D. This will reboot the ESP32-C3.

Troubleshooting: If you don’t get a MicroPython prompt, click the “Stop” icon. If this doesn't work, you might need to (re)install MicroPython on the ESP32-C3.

This is as far as I go – have fun playing with the ESP32-C3 and MicroPython!

Attachment – Thonny settings

My favorite settings (do with them what you want). First the "View" menu:



The rest of the settings can be found via "Tools", "Options":

