

Hello World!

Language: MicroPython

Prerequisites:

- [Installed the Firmware](#)

Objective:

- Connect the ESP32 to WiFi
- Create and run python scripts on the ESP32

Connecting to WiFi and Running Code

1. Connect to the Access point that the ESP32 created
 - a. Search for the wifi name *microIDE*
 - b. Ignore no-internet errors (the ESP32 is not a router)
2. Open 192.168.4.1 in your browser
3. Click on the pencil next to boot.py
4. Edit the SSID and PASSWORD to yours (keep the quotes!)
5. Remove the # in front of the `_thread[...]`
6. Press CTRL+S or press the save icon
7. Wait for the popups to say:

Saved boot.py successful

8. Press the Rescue iron to Reset the ESP32
9. Your hotspot will disconnect on Reset
10. Find the new IP of the ESP32:
 - a. Check your Routers DHCP list
 - b. Connect to the ESP32 debug UART
 - c. IP Scanner
11. Connect to the new IP and open main.py

```
10  ### Connect to existing Network - input SSID & PASSWORD
11  def wifi():
12      import network
13      from time import sleep
14      sta_if = network.WLAN(network.STA_IF)
15      while True:
16          sta_if.active(True)
17          sta_if.connect("SSID", "PASSWORD")
18          sleep(5)
19          if sta_if.isconnected():
20              sleep(300)
21      ### Uncomment to enable
22      #_thread.start_new_thread(wifi,())
```

microIDE is an integrated Editor for the ESP32. For some examples, visit the [learning](#) page. Official MicroIDE boards can be found [here](#). Please consider [donating](#) or [supporting](#) the Project.

Legal Stuff:
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Usage:

- Rescue:** Triggers a Hardware Reset
- Info:** Opens the information page
- Graph:** Opens the Graphing Tool
- Terminal:** Opens the Terminal Monitor
- New:** Creates a new file in the editor
- Open:** Opens the file in the web browser
- Edit:** Edit the file in microIDE
- Save:** Saves the file to disk (CTRL + S)
- Reload:** Load file from disk (CTRL + R)
- Run:** Run the .py file on Disk (CTRL + U)

If you like microIDE [Donate](#) or [Support](#)

Time: 1594314866
Disk: 61440 / 1572864
Mem: 4320 / 111168
ID: 246F28253ACC

```
8  ### Modes: Change the color of the editor based on extension
9  wget('mode-python.js.gz')
10 wget('mode-css.js.gz')
11 wget('mode-html.js.gz')
12 wget('mode-javascript.js.gz')
13
```

12. Uncomment the line above and reset (This syntax highlights – strongly recommended)
13. Press the Green + icon
14. Use the default name test.py
15. Enter the following code and press Run

```
1  print("Hello World")
```

(The button will **save and execute** the file)

16. The browser will automatically switch to the Terminal window to see the output