

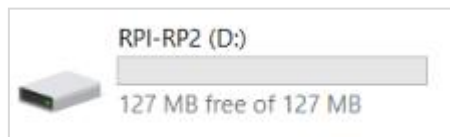
1. Why do we need to update the firmware

Raspberry Pi Pico can be programmed in C language and MicroPython language, and Pico does not have MicroPython firmware when it leaves the factory, it is necessary to download MicroPython firmware before using MicroPython programming.

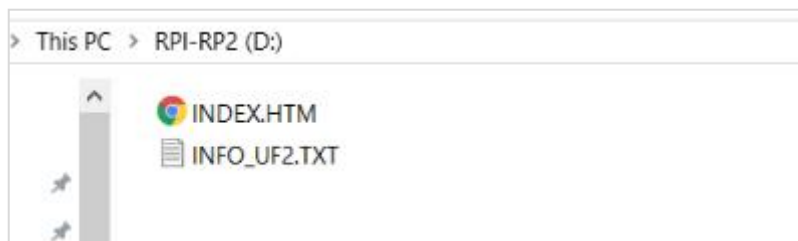
Note: The firmware of MicroPython only needs to be downloaded once, and there is no need to download it again when using MicroPython to program. If you have downloaded the .uf2 program firmware programmed in C language, the MicroPython firmware will be overwritten. Next time you want to use MicroPython, you need to follow the steps below to update the Pico firmware.

2. Steps of writing MicroPython firmware

① Press and hold the “BOOTSEL” button on the Raspberry Pi Pico board. Then, connect the Pico board to the computer through the MicroUSB cable. Next, release the button. Open the **[Device manager]** on your computer, and the computer will automatically recognize a removable disk (RPI-RP2), as shown below.



② Open the RPI-RP2 drive letter, we can see that there are two files. Double-click the “INDEX.HTM” file to open the Pico webpage of the Raspberry Pi website.



③ Select Getting started MicroPython, and then click to download the UF2 file.



Getting started with MicroPython

Drag and drop MicroPython

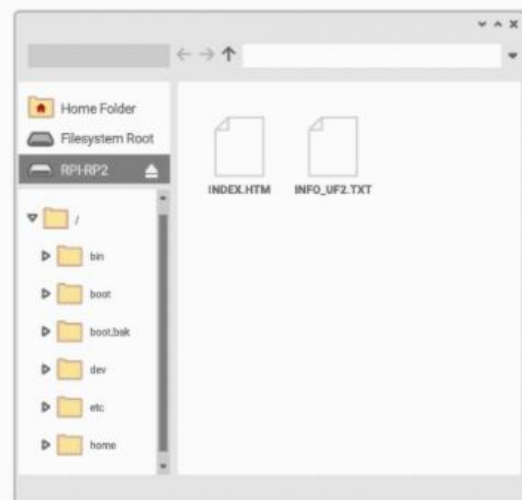
You can program your Pico by connecting it to a computer via USB, then dragging and dropping a file onto it, so we've put together a **downloadable UF2** file to let you install MicroPython more easily.

1. Download the MicroPython UF2 file by clicking the button below.
2. Push and hold the BOOTSEL button and plug your Pico into the USB port of your Raspberry Pi or other computer. Release the BOOTSEL button after your Pico is connected.
3. It will mount as a Mass Storage Device called RPI-RP2.
4. Drag and drop the MicroPython UF2 file onto the RPI-RP2 volume. Your Pico will reboot. You are now running MicroPython.

You can access the REPL via USB Serial. Our **MicroPython documentation** contains step-by-step instructions for connecting to your Pico and programming it in MicroPython.

[Download UF2 file](#) →

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④ After the download is complete, we can get a file (*.uf2 format). Copy this .uf2 firmware to the drive letter of the RPI-RP2. After the copy is complete, the Pico board will automatically restart, and the Pico will be recognized by the computer as a virtual serial port. As shown below.

