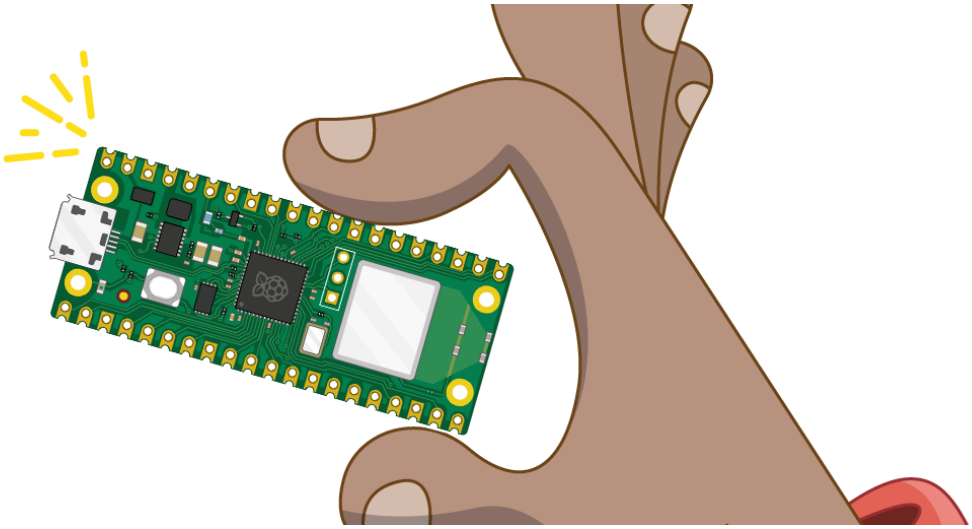
Raspberry Pi Foundation

English

Menu

Getting started with your Raspberry Pi Pico W

Raspberry Pi Pico Python



Contents

Save your progress!

If you want to come back to this project later, you can create a Raspberry Pi account to save your progress so far. In your account you'll also see all the projects you complete.

Log in or sign up

Set up your Raspberry Pi Pico W

Connect your Raspberry Pi Pico W and set up MicroPython.

> MicroPython is a version of the Python programming language for microcontrollers, such as your Raspberry Pi Pico W. MicroPython lets you use your Python knowledge to write code to interact with electronics components.

- [ ] Download the latest version of Raspberry Pi Pico W firmware at **https://rpf.io/pico-w-firmware**

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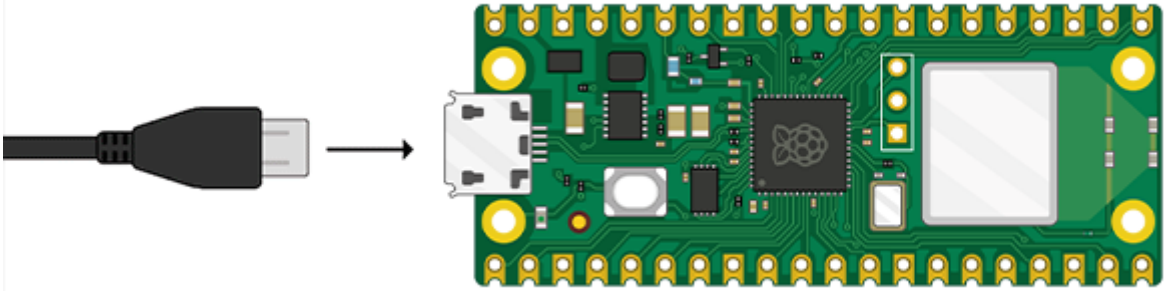
Connect the small end of your micro USB cable to the Raspberry Pi Pico W.



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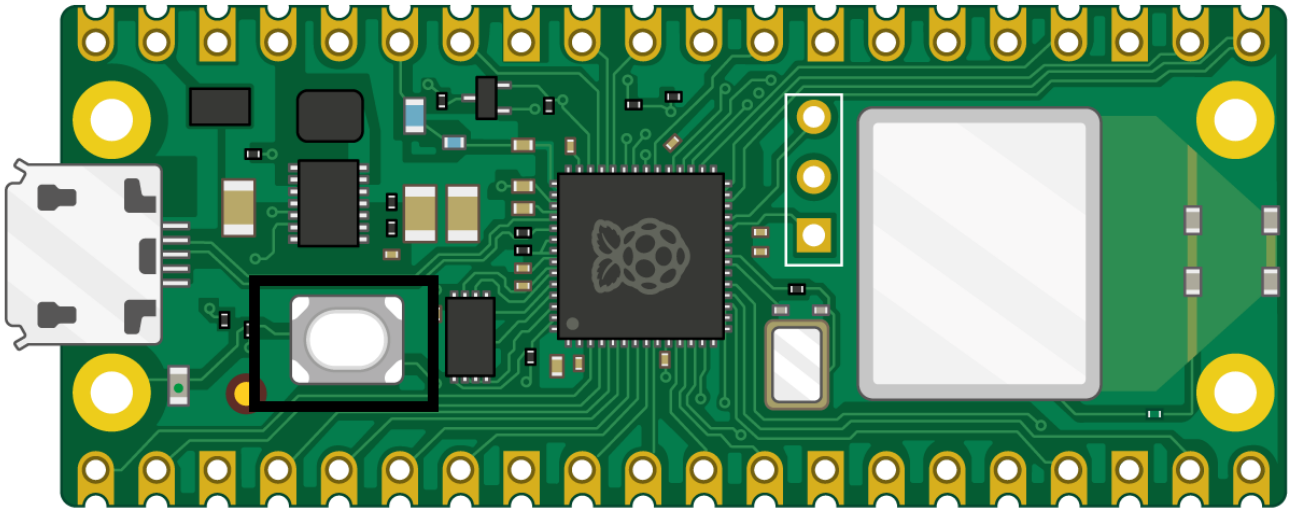
Hold down the **BOOTSEL** button on your Raspberry Pi Pico W.



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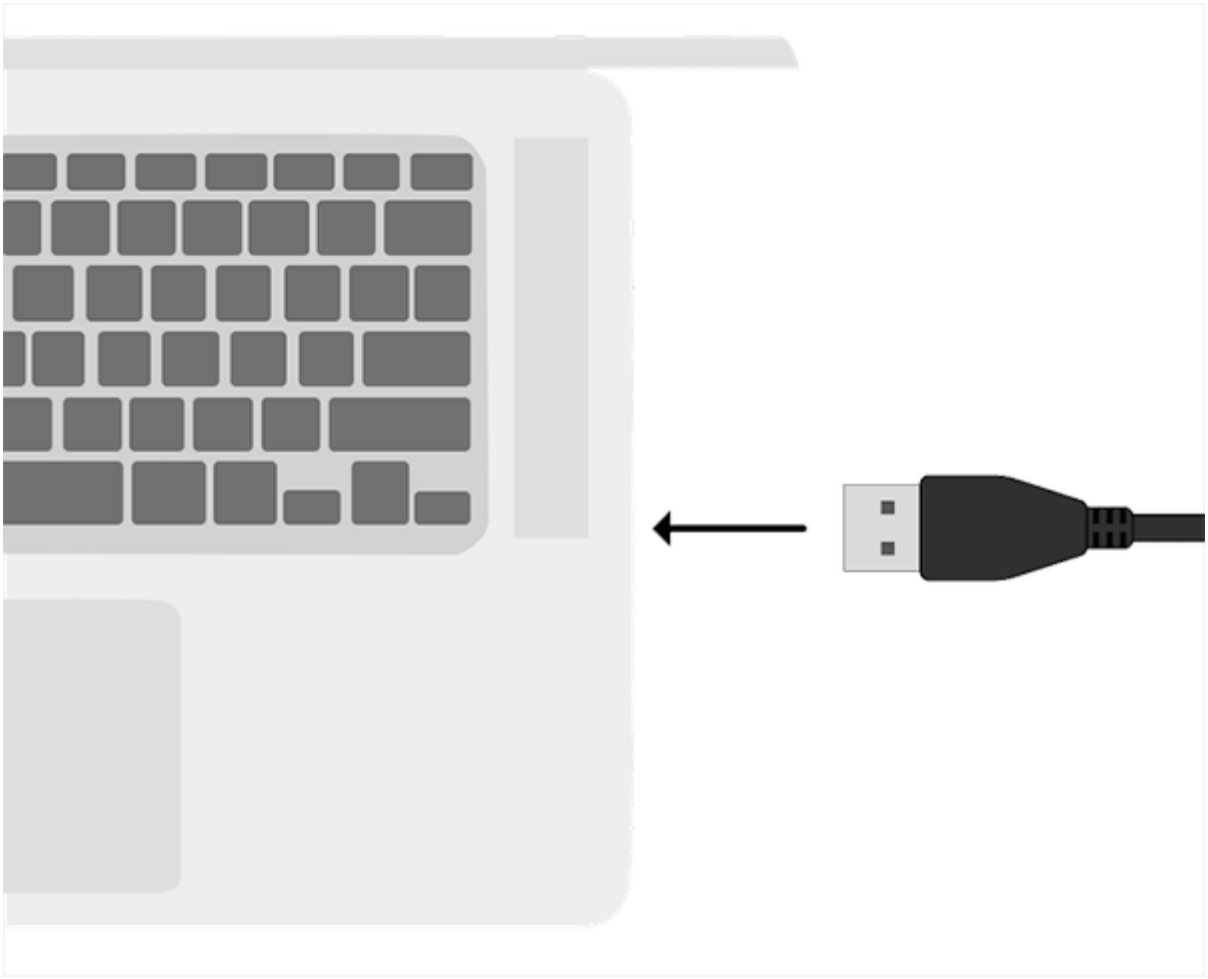
Connect the other end to your desktop computer, laptop, or Raspberry Pi.



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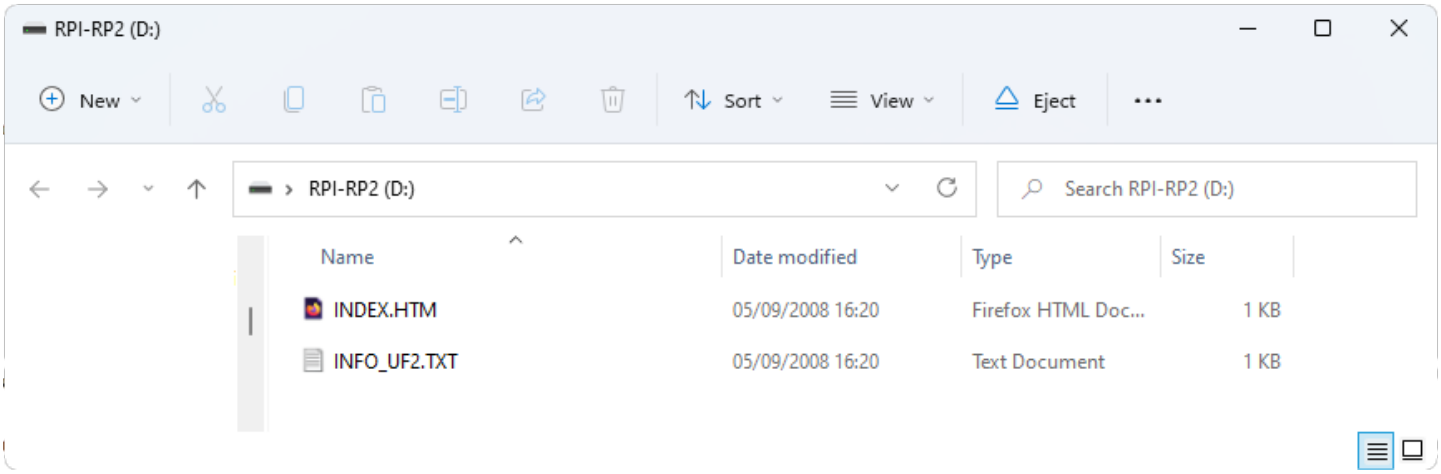
Your file manager should open up, with Raspberry Pi Pico being show as an externally connected drive. Drag and drop the firmware file you downloaded into the file manager. Your Raspberry Pi Pico should disconnect and the file manager will close.



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Open the Thonny editor.

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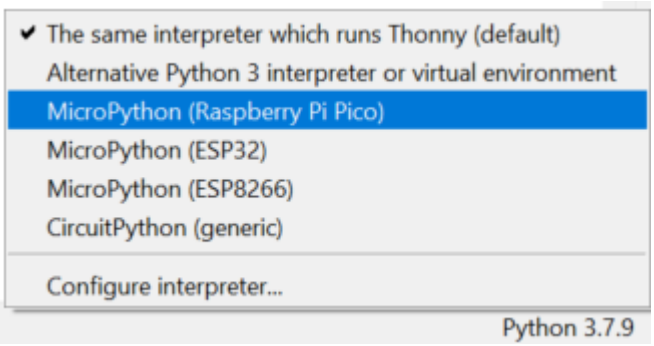
Look at the text in the bottom right-hand corner of the Thonny editor. It will show you the version of Python that is being used.

If it does **not** say ‘MicroPython (Raspberry Pi Pico)’ there, then click on the text and select ‘MicroPython (Raspberry Pi Pico)’ from the options.



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Debug:

I don't know if the firmware is installed and cannot connect to my Pico

Firmware is installed but I still cannot connect to my Pico

For newcomers to Raspberry Pi Pico, `picozero` is a MicroPython library that’s beginner-friendly.

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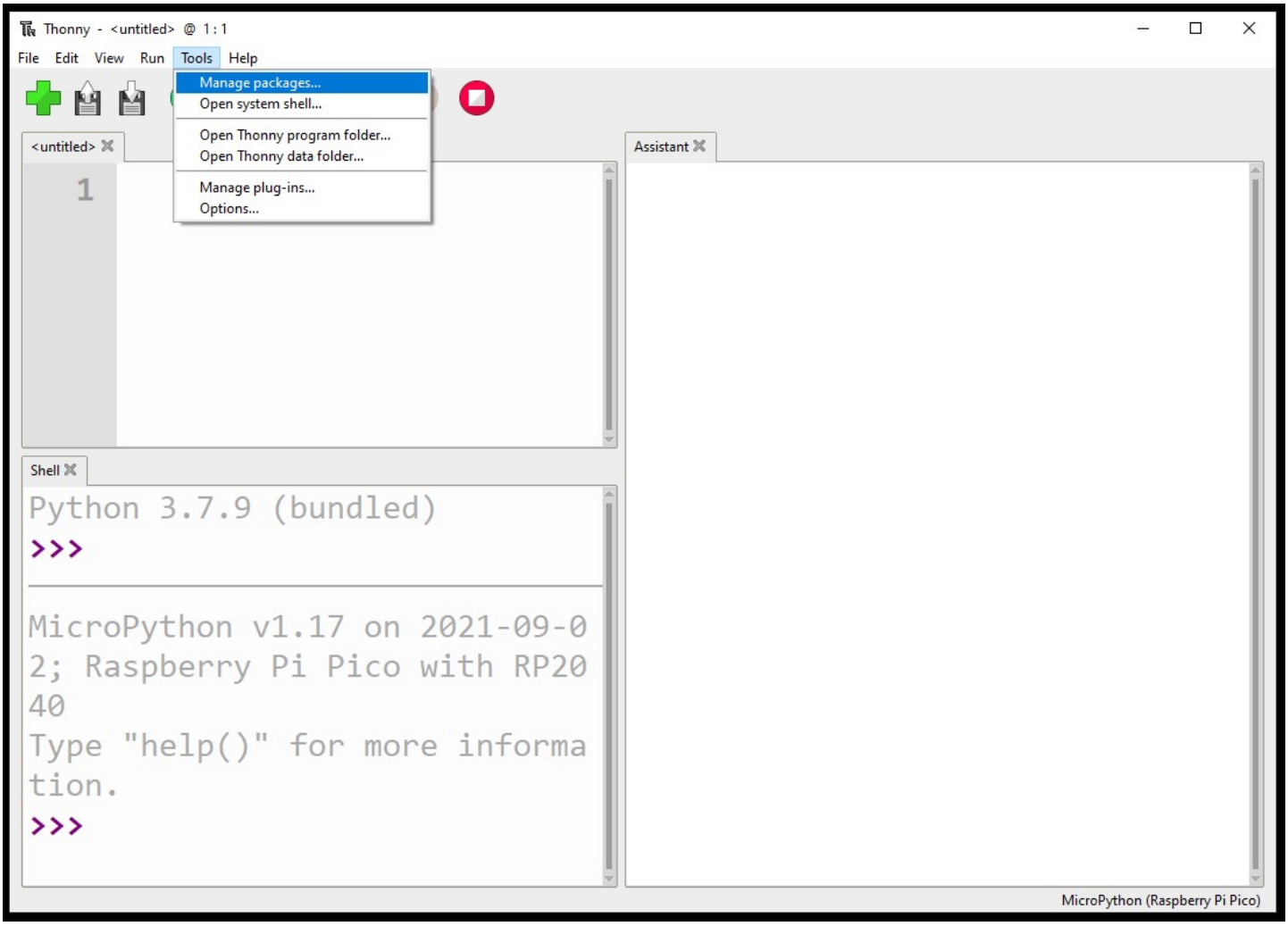
To complete the projects in this path, you need to install the `picozero` library as a Thonny package.

In Thonny, choose **Tools** > **Manage packages**.



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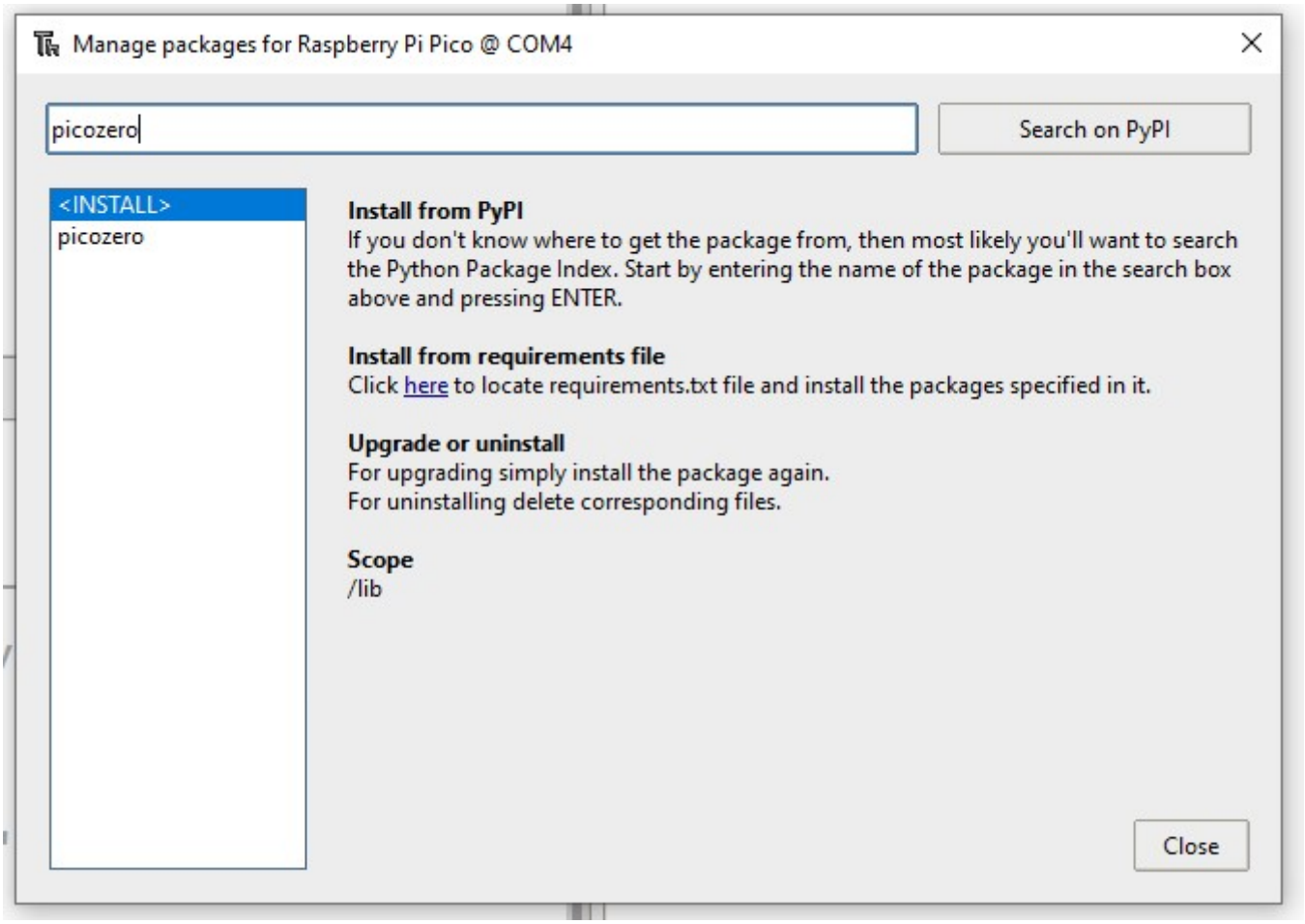
In the pop-up ‘Manage packages for Raspberry Pi Pico’ window, type `picozero` and click **Search on PyPi**.



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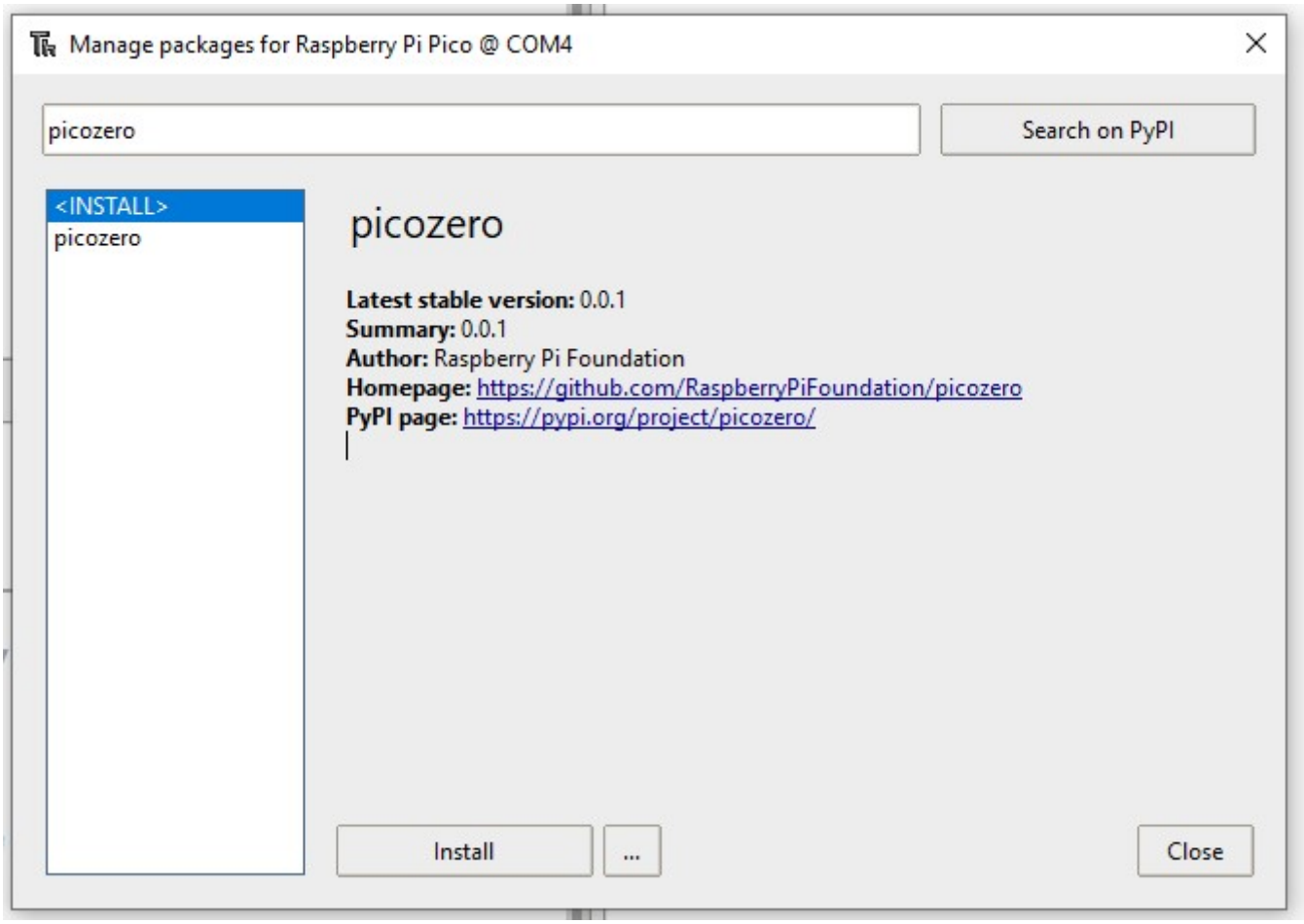
Click on **picozero** in the search results.

Click on **Install**.



When installation has completed, close the package window, then quit and reopen Thonny.
If you have difficulties installing the `picozero` library in Thonny, you can download the library file and save it to your Raspberry Pi Pico W.

Installing picozero offline

Connect your Raspberry Pi Pico to a WLAN