<https://www.wemos.cc/en/latest/d1/d1_mini.html>

Navigate to all tutorials and download documentation

Install CH430 Driver

Install latest version of Python

Install pip for python

Open terminal and run command

“ python3 -m pip --version “

If it isn't preinstalled

Run command

“ curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py “

“ python get-pip.py “

If it issss preinstalled

Run command

“ python3 -m pip install -U pip “

Install pyserial and esptools

Run command

“ python3 -m pip install pyserial”

Run command

“ python3 -m pip install esptool “

Python should be good now

Install Arduino IDE

Install 8266 package for arduino

Install the current upstream Arduino IDE at the 1.8.9 level or later. The current version is on the [Arduino website](https://www.arduino.cc/en/main/software).

* Start Arduino and open the Preferences window.
* Enter https://arduino.esp8266.com/stable/package\_esp8266com\_index.json into the *File>Preferences>Additional Boards Manager URLs* field of the Arduino IDE. You can add multiple URLs, separating them with commas.
* Open Boards Manager from Tools > Board menu and install *esp8266* platform (and don't forget to select your ESP8266 board from Tools > Board menu after installation).

To get it to work on big sur

1.- Open ~/Library/Arduino15/packages/esp8266/hardware/esp8266/2.7.4/tools/pyserial/serial/tools/list\_ports\_osx.py

2.- Comment out lines **29** and **30** and append these lines:

**iokit = ctypes.cdll.LoadLibrary('/System/Library/Frameworks/IOKit.framework/IOKit')**

**cf = ctypes.cdll.LoadLibrary('/System/Library/Frameworks/CoreFoundation.framework/CoreFoundation')**

Library is a hidden system folder by default

command+shift+H

Click view

command+J

Check show library folder

Now you can navigate to arduino15 folder

Now you can upload some code and test it out. It should work. Make sure you're connected to the right usb port when uploading the sketch.