

# Mac OS Tutorial for Arduino IDE Installation

## I .Arduino IDE

As an open source software, Arduino IDE is developed based on Processing IDE, which is the integrated development environment officially launched by Arduino.

With Arduino IDE, you just write the program code in the IDE and then upload it to the Arduino board. The program tells the Arduino what the board needs to do.

## II .Download the Arduino IDE for Mac OS

### 1.Download Arduino IDE

①Download the Arduino IDE's website address:

<https://www.arduino.cc/en/Main/Software>, open the url according to the following chart to select the corresponding version in the future.



The screenshot shows the Arduino IDE 2.2.1 download page. On the left, there is a section for Arduino IDE 2.2.1 with a description: "The new major release of the Arduino IDE is faster and even more powerful! In addition to a more modern editor and a more responsive interface it features autocompletion, code navigation, and even a live debugger." Below this is a link to the "Arduino IDE 2.0 documentation" and a note about nightly builds. At the bottom, there is a "SOURCE CODE" section mentioning GitHub. On the right, there is a "DOWNLOAD OPTIONS" section with a table of options:

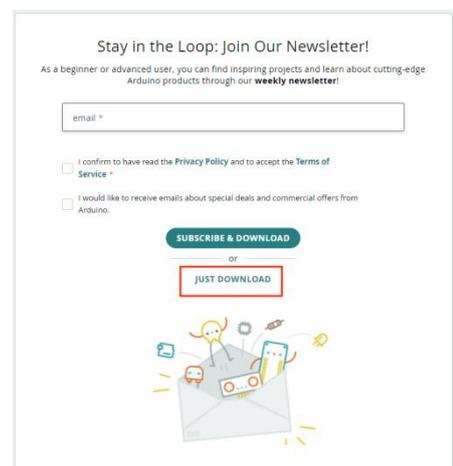
| Operating System | Version/Architecture                           |
|------------------|--|
| Windows          | Win 10 and newer, 64 bits                      |
| Windows          | MSI installer                                  |
| Windows          | ZIP file                                       |
| Linux            | AppImage 64 bits (X86-64)                      |
| Linux            | ZIP file 64 bits (X86-64)                      |
| macOS            | Intel, 10.14: "Mojave" or newer, 64 bits       |
| macOS            | Apple Silicon, 11: "Big Sur" or newer, 64 bits |

The macOS options are highlighted with a red box. There is also a link for "Release Notes".

②Select JUST DOWNLOAD.

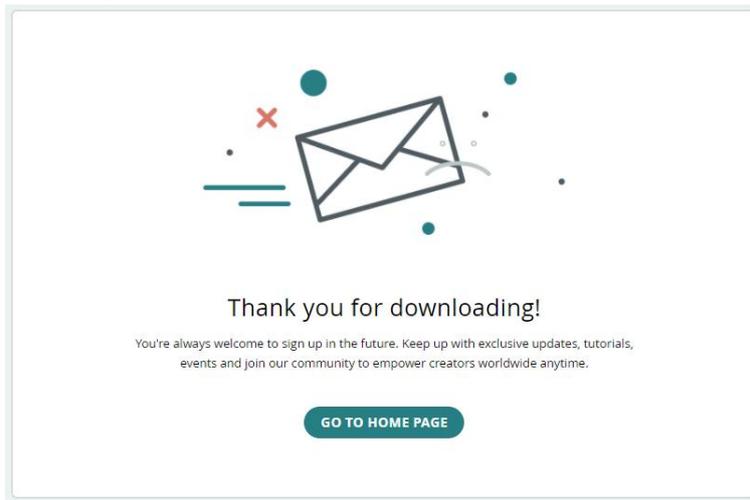


The screenshot shows the donation and download page. It features a heading "Download Arduino IDE & support it's progress" and a paragraph stating that the IDE has been downloaded 77,917,375 times. Below this are donation options: \$3, \$5, \$10, \$25, \$50, and Other. A "CONTRIBUTE AND DOWNLOAD" button is present, along with a "JUST DOWNLOAD" button highlighted with a red box. At the bottom, there is a link to "Learn more about donating to Arduino." and an illustration of a robot and a jar.



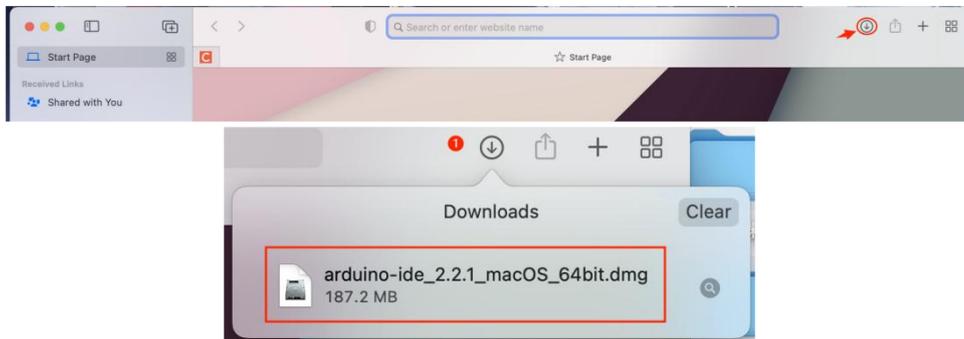
The screenshot shows the newsletter sign-up page. It features a heading "Stay in the Loop: Join Our Newsletter!" and a paragraph stating that users can find inspiring projects and learn about cutting-edge Arduino products through their "weekly newsletter!". Below this is an email input field and two checkboxes: "I confirm to have read the Privacy Policy and to accept the Terms of Service" and "I would like to receive emails about special deals and commercial offers from Arduino.". A "SUBSCRIBE & DOWNLOAD" button is present, along with a "JUST DOWNLOAD" button highlighted with a red box. At the bottom, there is an illustration of an envelope and a robot.

③When the following screen appears, the Arduino IDE is downloading.



## 2.Install the Arduino IDE

①When the download is complete click the download icon in your browser and find the Arduino IDE installer.



②Click on the install package to appear the installation screen, just select the Arduino IDE icon, move to the Applications to install the program.

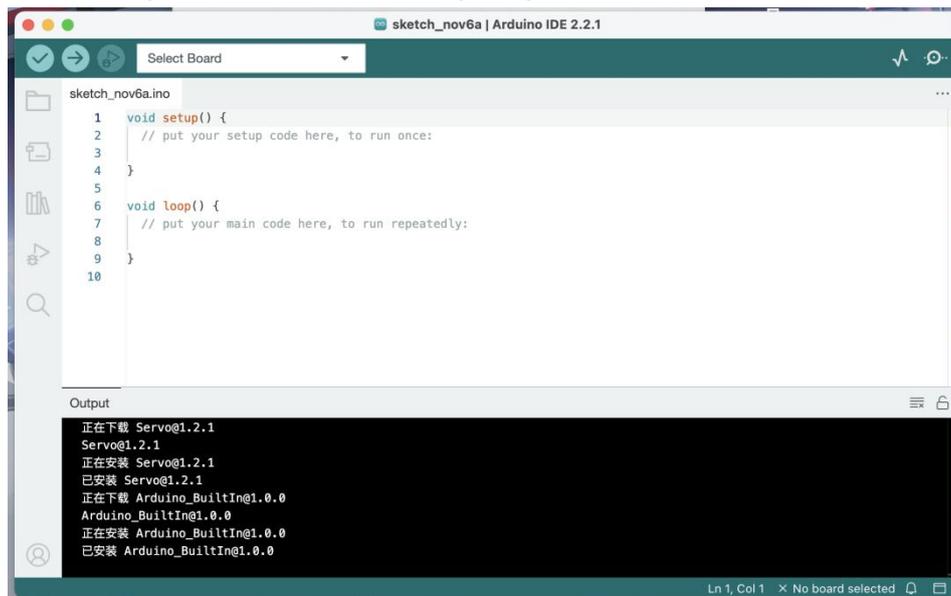


## 3.The Arduino IDE installation is complete

①In launchpad, locate the Arduino IDE and open it.



②Open the program to see the following program interface.



### III.How to install CH340 serial driver on MAC

Connect the main control board to your computer with a USB cable, and the driver will be installed automatically on MacOS and Windows systems. If the driver installation fails, you need to install the driver manually.

#### 1.Download drivers

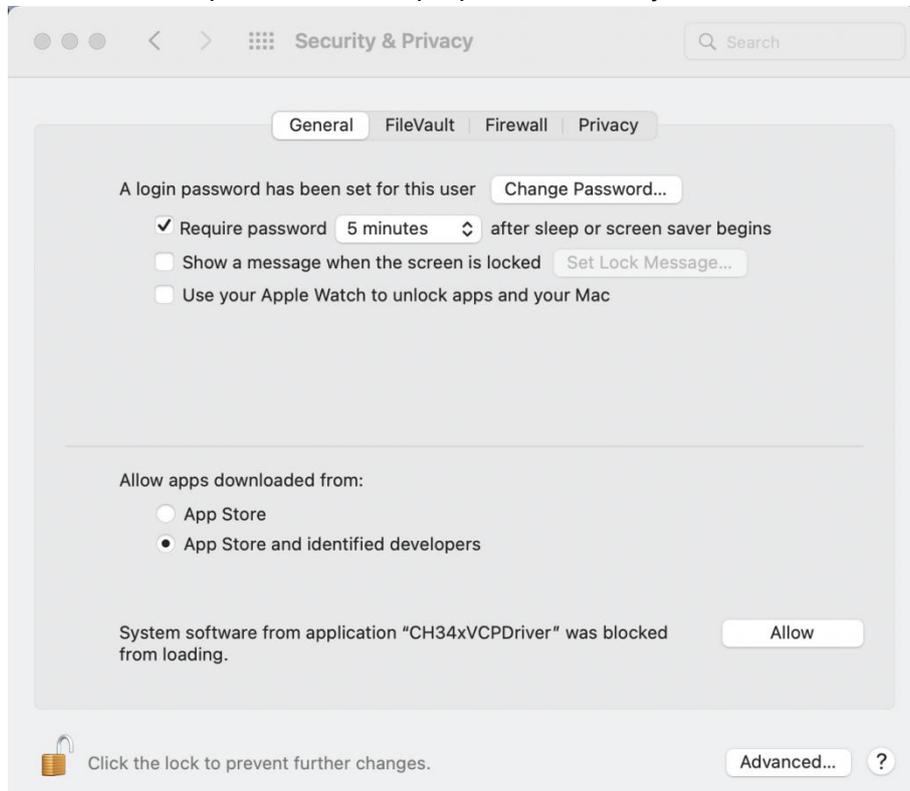
①Download the driver from the website and unpack it into your local installation directory. You can find the "CH340 Driver file-mac "folder in the resources package we provided, this is the Driver File we want to install.

 CH34xVCPDriver.dmg

 CH34xVCPDriver.pkg

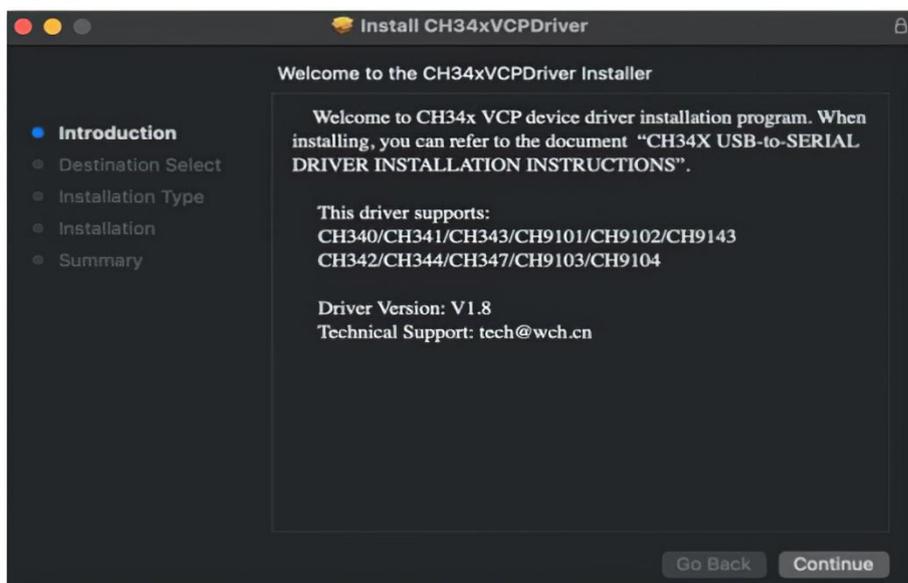
## 2.Prepare to install the driver

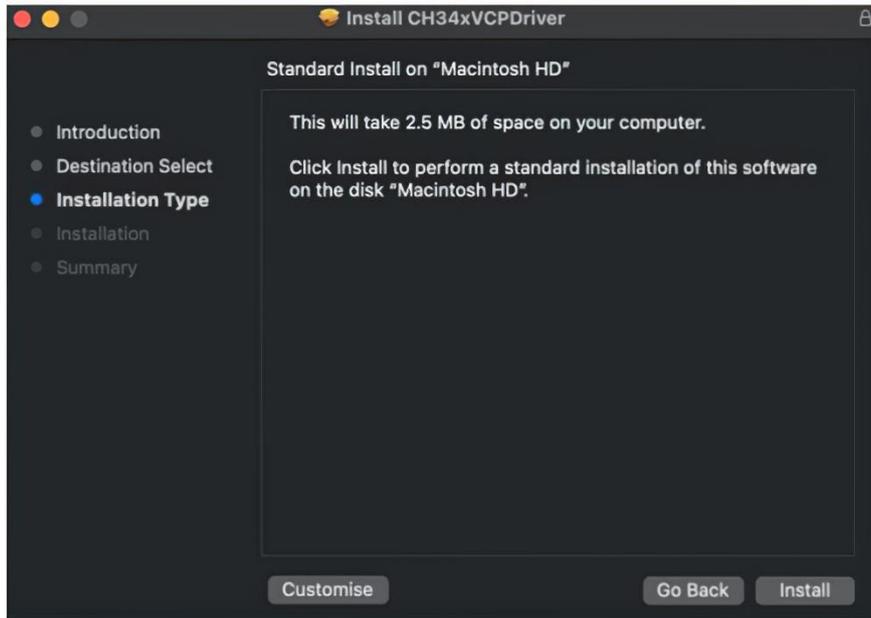
- ①The instructions for installing the pkg format driver by default can be found in the document titled "Installing the pkg Format Driver."
- ②If Rosetta is not supported in OS X 11.0 or later, see "4. Install the dmg driver."
- ③Before installation, go to "System Preferences" -> "Security and Privacy" -> "General" page. Under the section titled "Allow apps downloaded from," choose the option for "Mac App Store and identified developers" to ensure proper functionality of the driver.



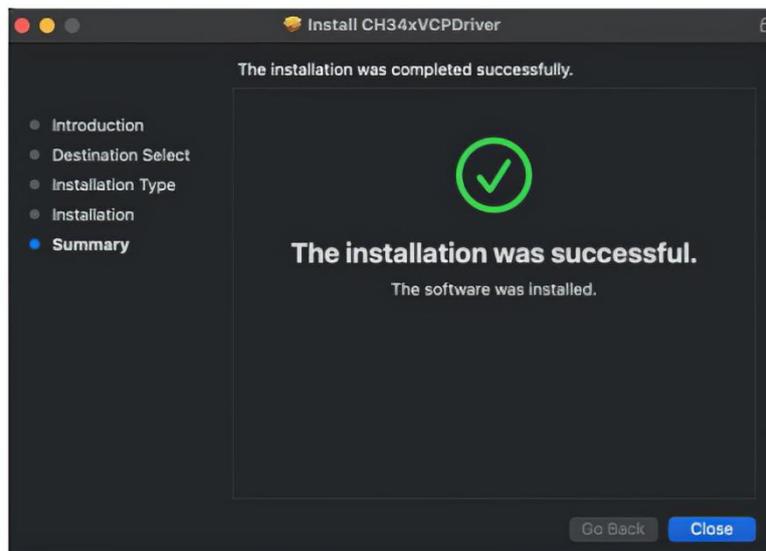
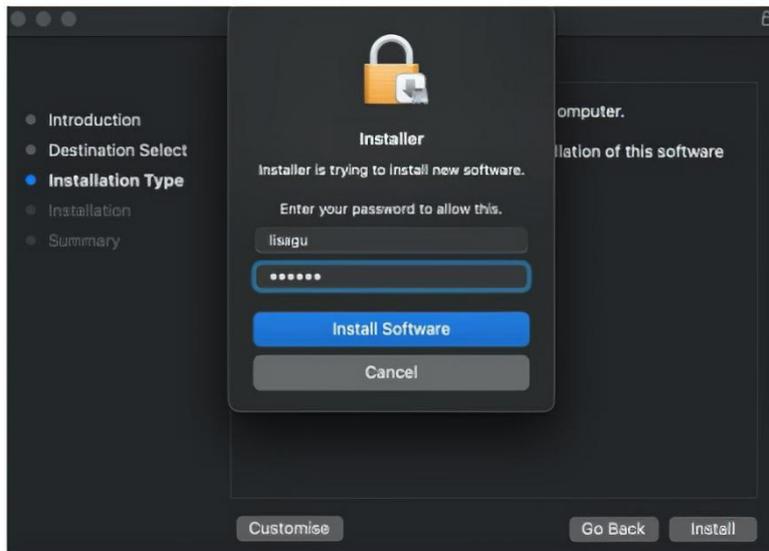
## 3.Install the pkg format driver

- ①Install pkg format driver, click driver file -> Continue -> Install.

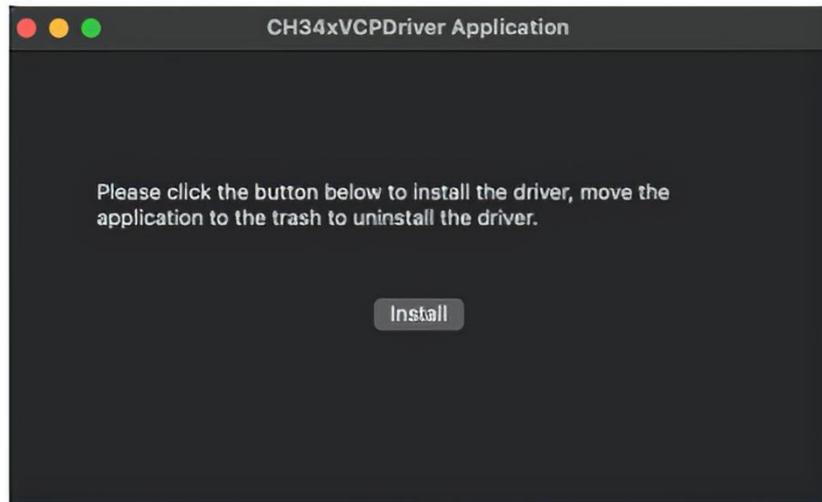




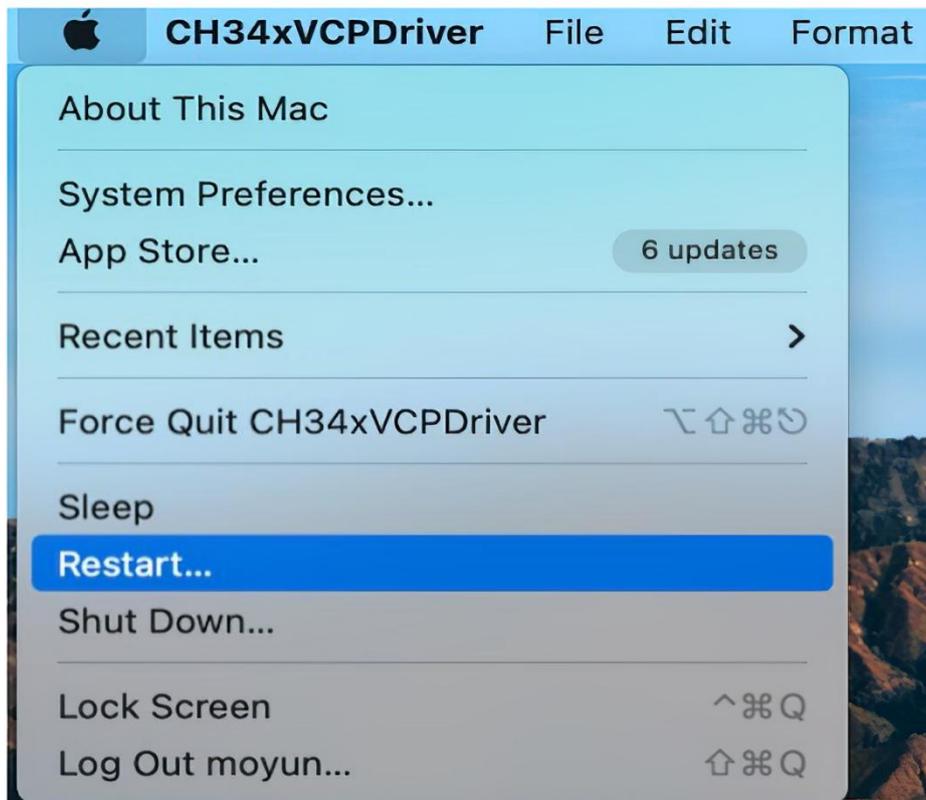
②Then install successfully.



③ Install the pkg format driver on OS X 11.0 and later: open "LaunchPad" -> "CH34xVCPDriver" -> Install.

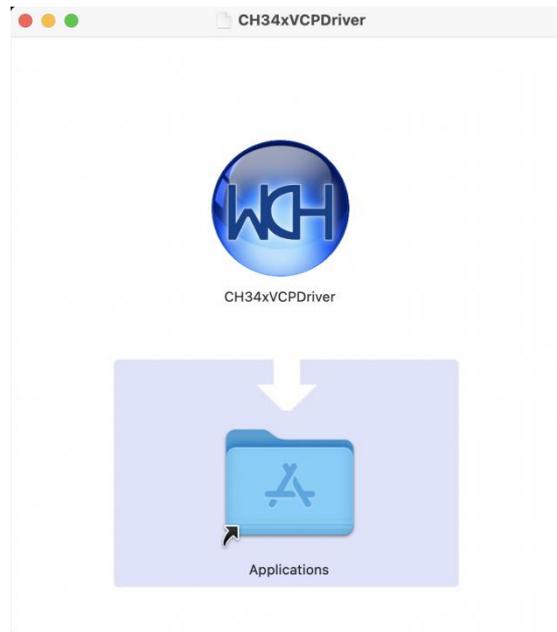


④ When using OS X 10.9 through OS X 10.15, click Restart to restart your computer, and perform the following steps after restarting.

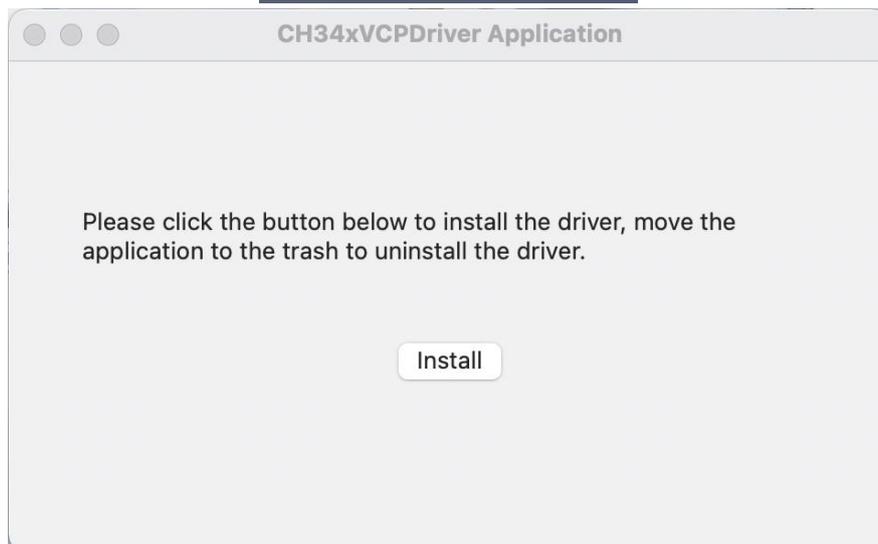


#### 4. Install the dmg format driver

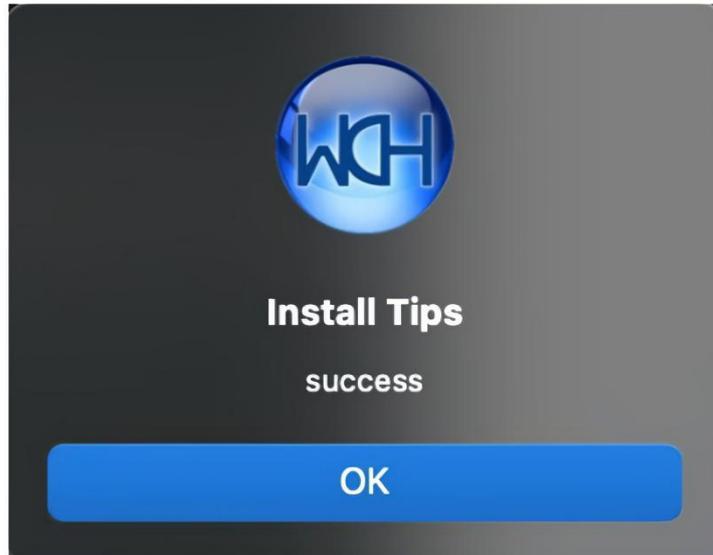
① Install the dmg driver, click the dmg file and drag "CH34xVCPDriver" into the application folder of the operating system.



②Then open "LaunchPad" -> "CH34xVCPDriver" -> Install.



③Then install successfully.



### 5. Check whether the CH340 serial port driver is installed

When the control board is inserted into the USB port, open the system report -> Hardware -> USB. On the right is the USB device.

If the USB device is working correctly, you can find a device with a "Vendor ID" of [0x1a86].

