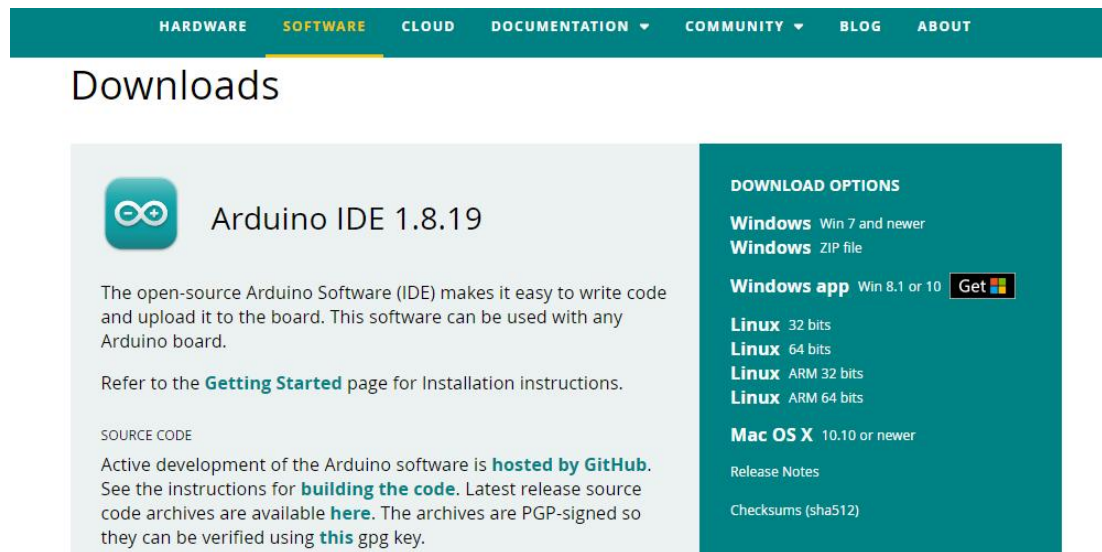


Install the Arduino IDE


CTRL + mouse click on the link <https://www.arduino.cc/en/software> to jump to the web page and find the location as shown below:



The screenshot shows the Arduino website's 'Downloads' section for the Arduino IDE 1.8.19. The page has a teal header with navigation links: HARDWARE, SOFTWARE (highlighted), CLOUD, DOCUMENTATION, COMMUNITY, BLOG, and ABOUT. Below the header, the word 'Downloads' is displayed. The main content area is split into two columns. The left column features the Arduino logo, the version '1.8.19', a description of the IDE as open-source software for writing and uploading code to Arduino boards, and a link to the 'Getting Started' page for installation instructions. It also mentions that the source code is hosted on GitHub and provides links for building the code and verifying source code archives. The right column, titled 'DOWNLOAD OPTIONS', lists download links for Windows (Win 7 and newer, ZIP file), Windows app (Win 8.1 or 10, with a 'Get' button), Linux (32 bits, 64 bits, ARM 32 bits, ARM 64 bits), and Mac OS X (10.10 or newer). It also includes links for Release Notes and Checksums (sha512).

HARDWARE **SOFTWARE** CLOUD DOCUMENTATION COMMUNITY BLOG ABOUT

Downloads



Arduino IDE 1.8.19

The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. This software can be used with any Arduino board.

Refer to the [Getting Started](#) page for Installation instructions.

SOURCE CODE

Active development of the Arduino software is [hosted by GitHub](#). See the instructions for [building the code](#). Latest release source code archives are available [here](#). The archives are PGP-signed so they can be verified using [this](#) gpg key.

DOWNLOAD OPTIONS

Windows Win 7 and newer
Windows ZIP file

Windows app Win 8.1 or 10 [Get](#)

Linux 32 bits
Linux 64 bits
Linux ARM 32 bits
Linux ARM 64 bits

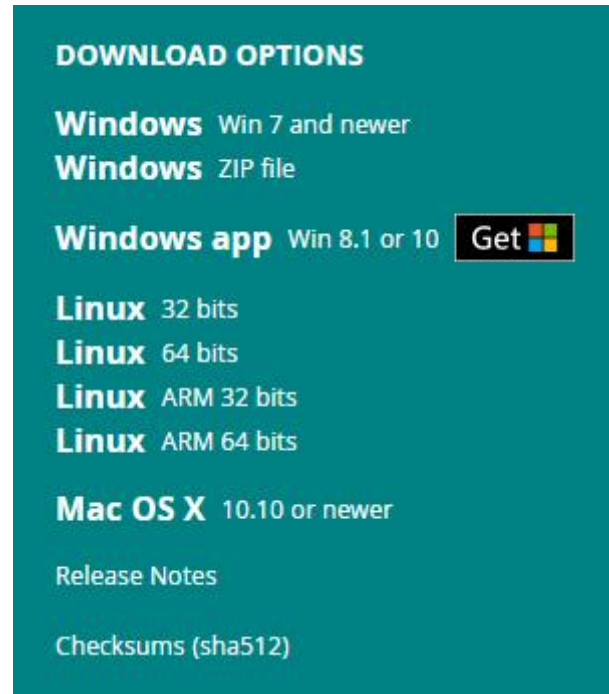
Mac OS X 10.10 or newer

[Release Notes](#)

[Checksums \(sha512\)](#)

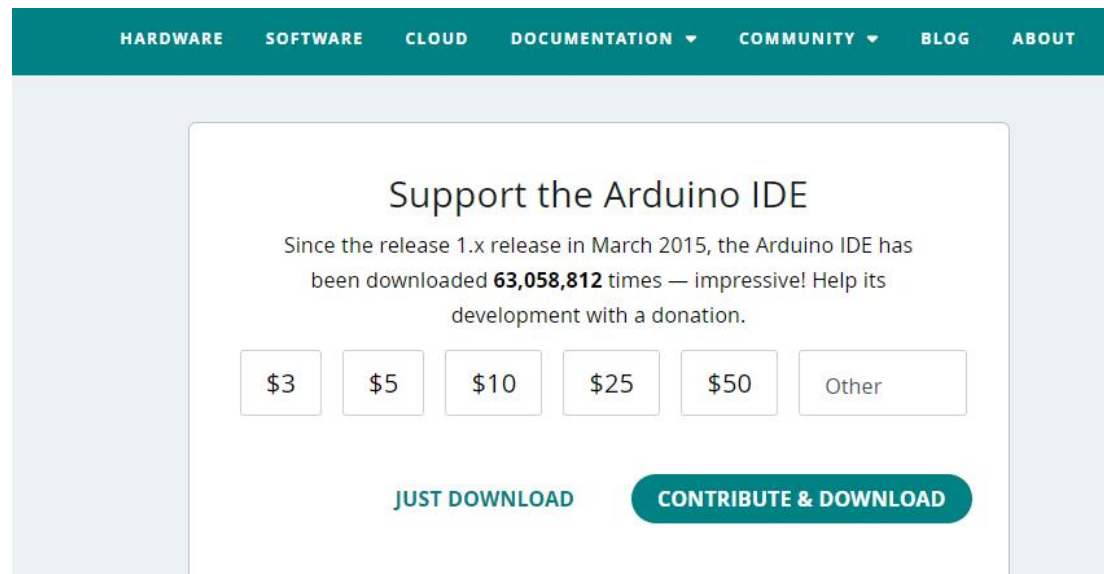
(There may be a newer version on the site when you see this tutorial!)

Download the development software compatible with your computer system, here we take Windows as an example.




You can choose between an installer (.exe) and a Zip package. We recommend that you use the first "Windows Win7 and newer" to directly install everything you need to use the Arduino software (IDE), including drivers.

Click on "Windows Win7 and newer"

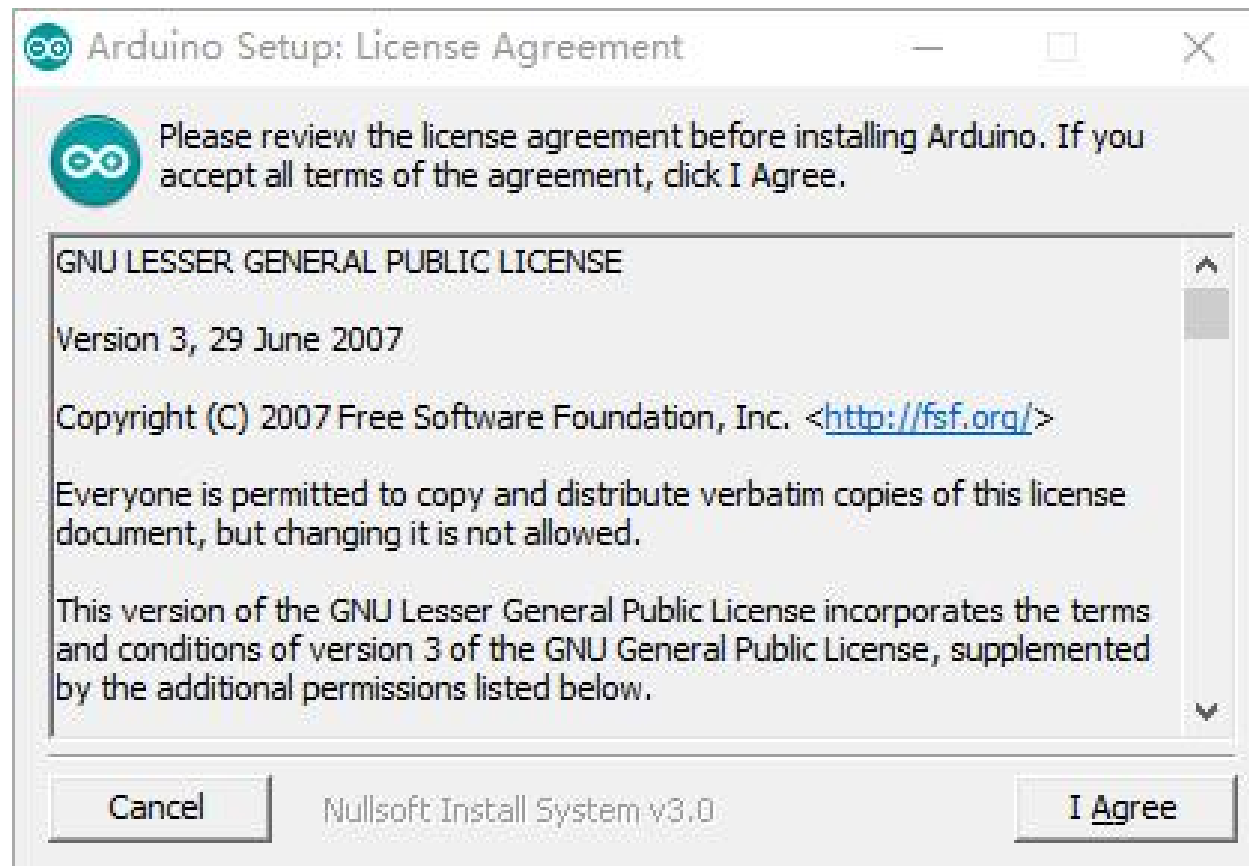


Click on "JUST DOWNLOAD".

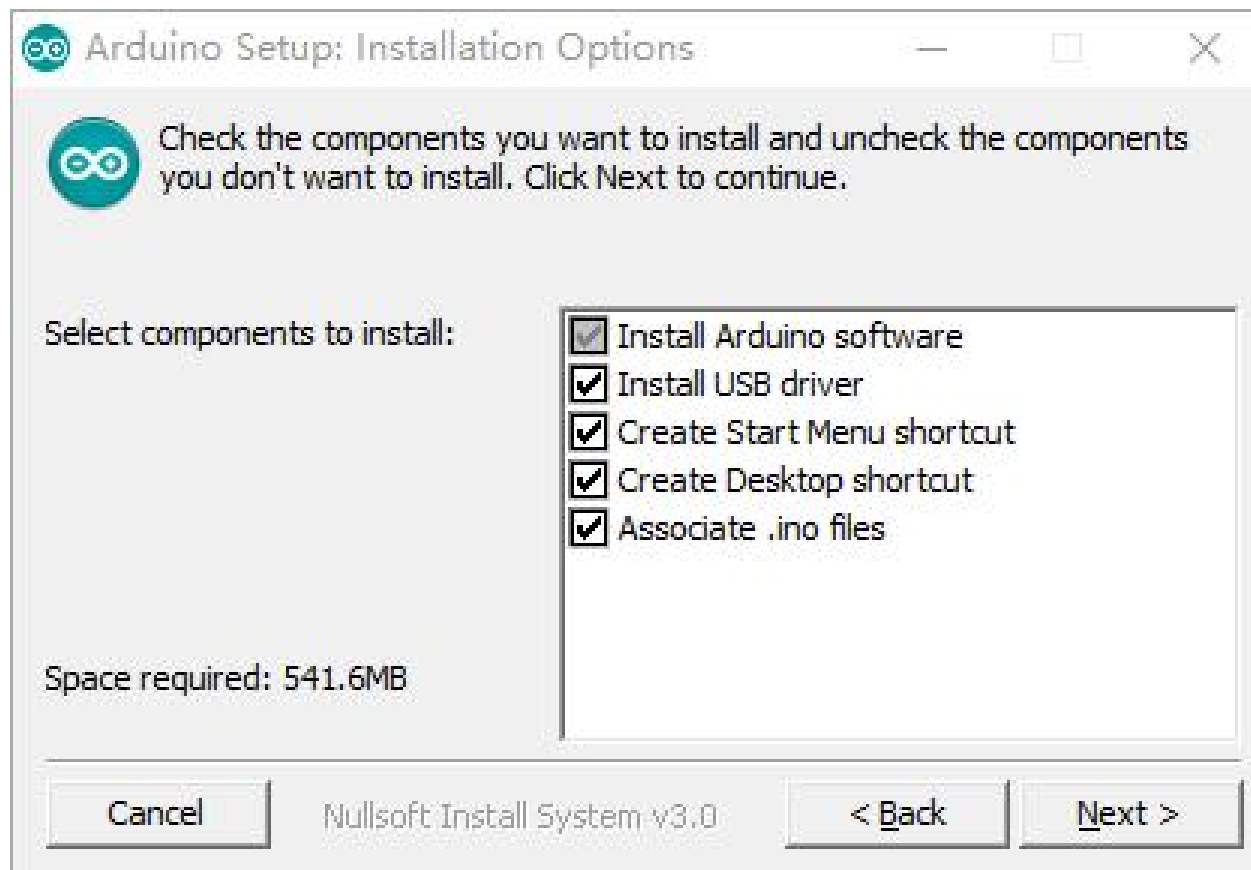
After the download is complete, the installation package file with the "exe" suffix will be obtained

 **arduino-1.8.19-windows.exe**

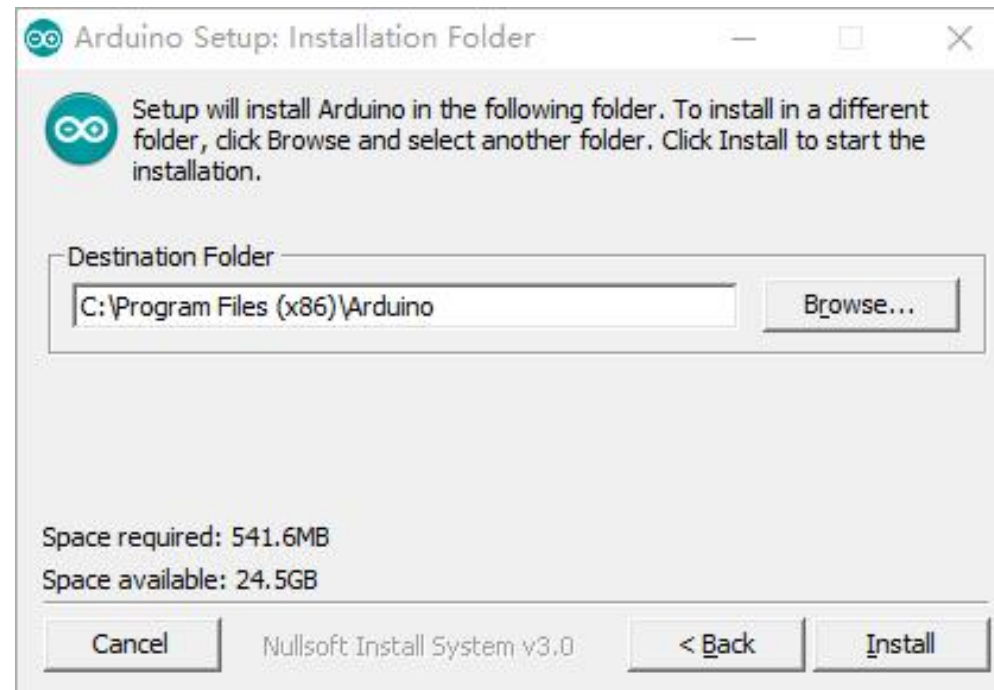
Double click to run the installer



Click "I Agree" to see the following interface



Click "Next"



You can press "Browse..." to select the installation path or directly enter the directory you want. Then click "Install" to install. (For Windows users, the driver installation dialog may pop up during the installation process , when it pops up, please allow the installation)



After the installation is complete, an Arduino software shortcut will be generated on the desktop, double click to enter the Arduino software platform environment .

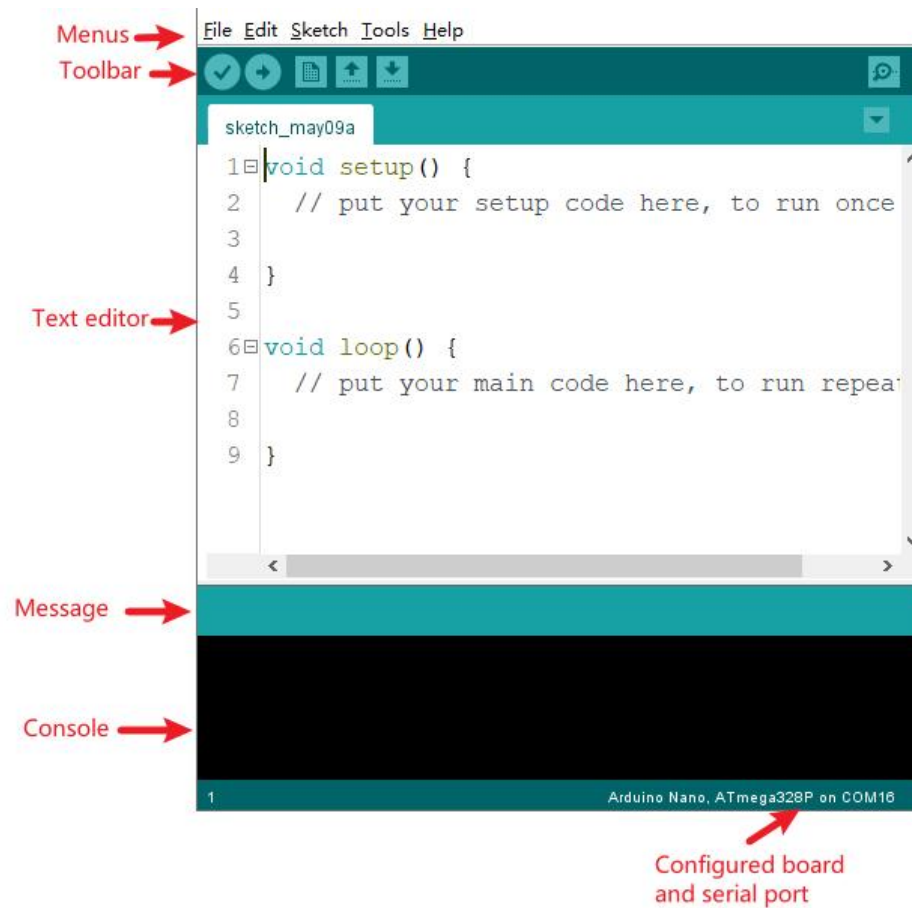
Install Arduino (Mac OS X)

Download and unzip the zip file, double-click Arduino.app to enter the Arduino IDE; if there is no Java runtime library in your computer, you will be asked to install it, after the installation is complete, you can run Arduino IDE.

Install Arduino (Linux)

You will have to use the make install command. If you are using an Ubuntu system, it is recommended to install the Arduino IDE from the Ubuntu Software Center.

After the installation is complete, open the software to see the software platform interface as shown below:



Programs written using the Arduino software (IDE) are called "Sketch". These "Sketch" are written in a text editor and saved with the file extension ".ino".

The editor has functions for cutting, pasting, and searching and replacing text. The message area provides feedback and displays errors when saving and exporting. The console displays text output by the Arduino software (IDE), including full error messages and other information. The lower right corner of the window displays the configured boards and serial ports. Toolbar buttons allow you to verify and upload programs, create, open and save projects, and open the serial monitor. The positions of the corresponding functions in the toolbar buttons are as follows:



Verify : Compile code to check for errors



Upload : Compile code and upload to circuit board



New : Create a project file



Open : Select an item from an existing library and open it in a new window



Save : Save your project files



Serial Monitor : Open the serial monitor

(It is worth noting that the "ino" file must be saved in a folder with the same name as itself. If the program is not opened in the same name folder, it will be forced to automatically create a file with the same name)