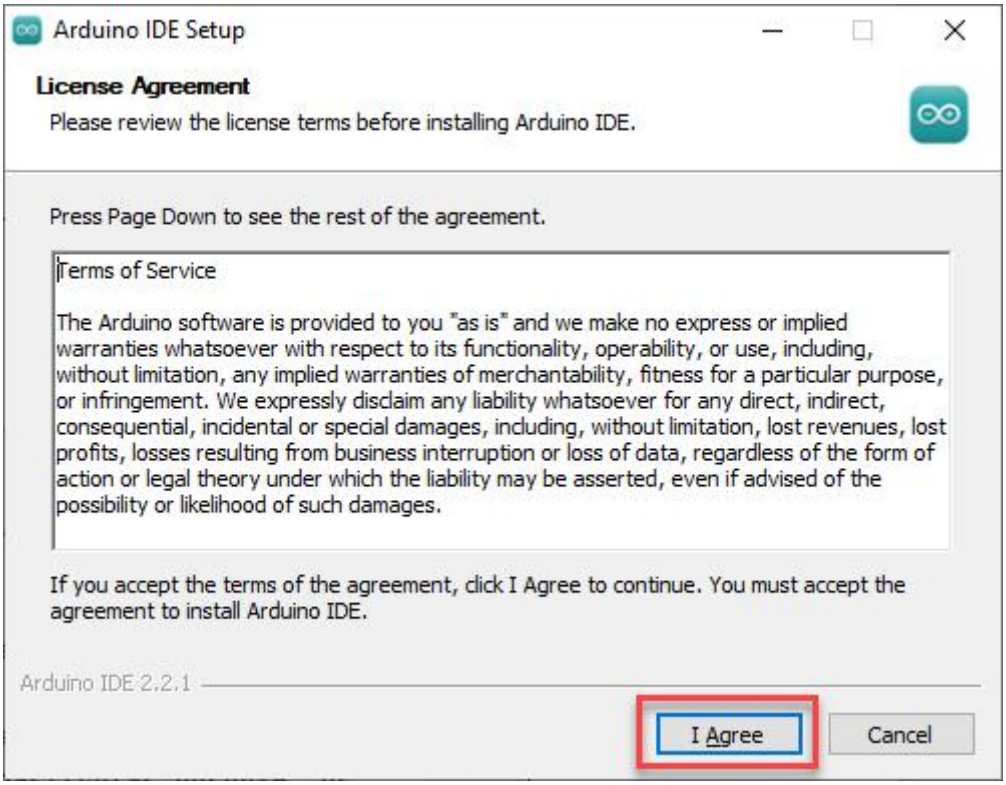
Arduino IDE Installation and Introduction

1. Arduino IDE Installation

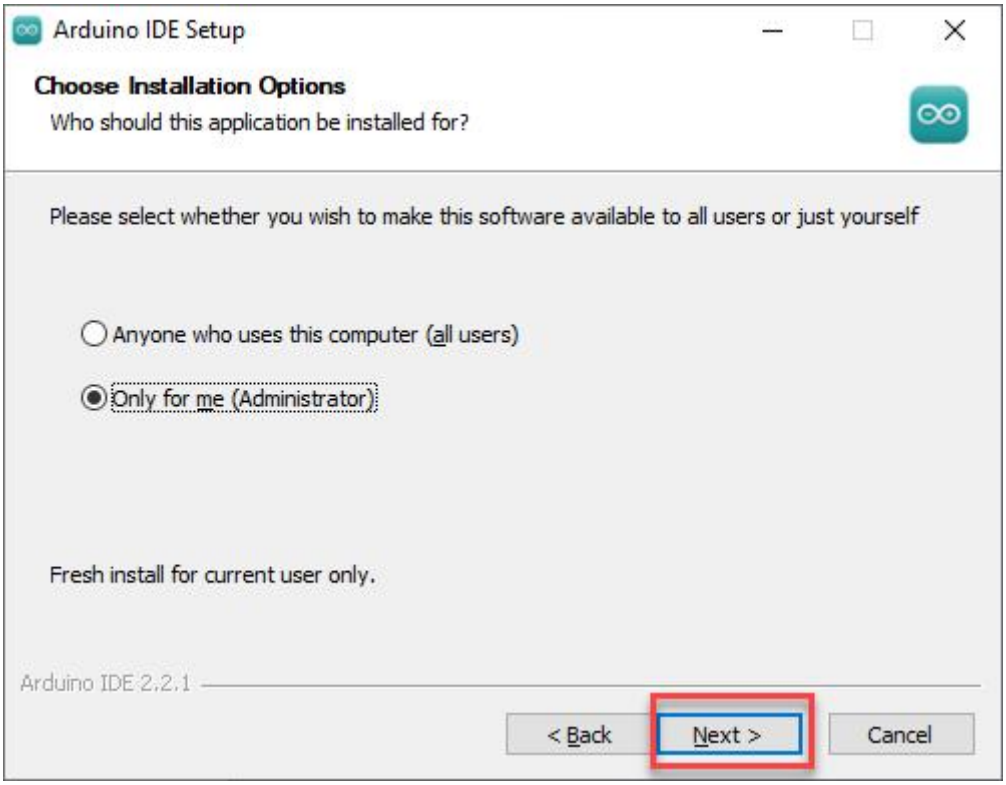
Arduino IDE is a powerful software exclusively designed for Arduino microcontrollers. No matter which version it is, the same installation method can be used. This lesson will take the window version of “Arduino-2.2.1” as an example to illustrate:

1) Locate the Arduino IDE installation package in the same folder as this document, as shown in the below figure, and double click to open it. (If you want to download the latest version of the software, you can download it through the Arduino official website “https://www.arduino.cc/en/software”.)

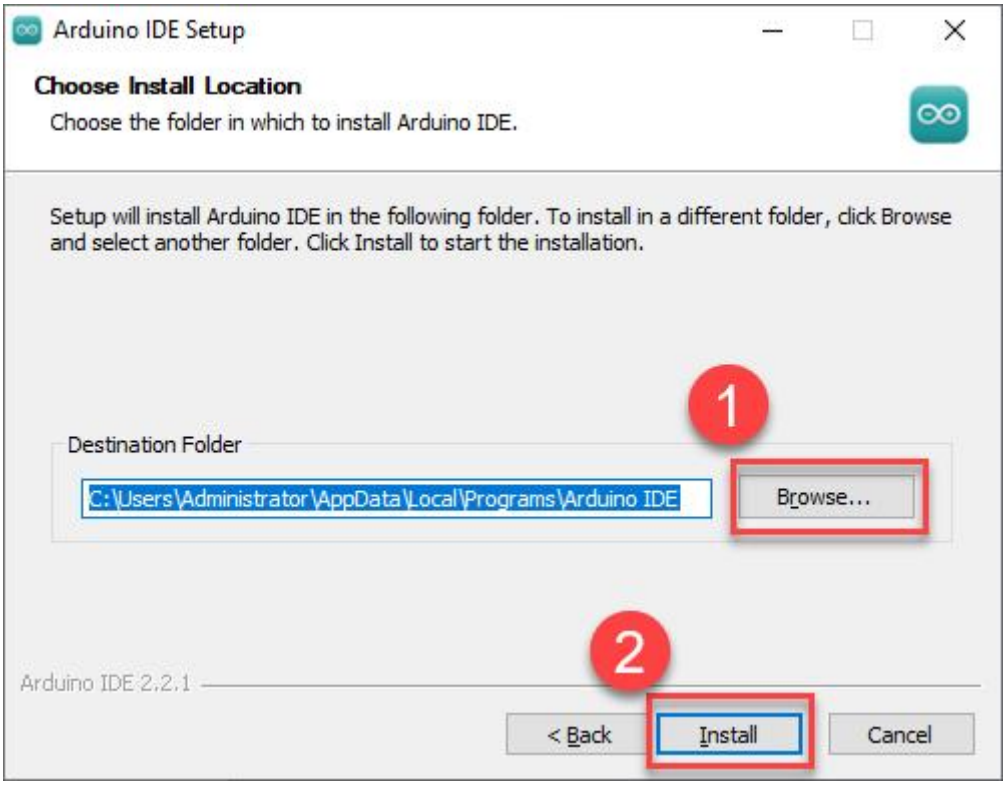
2) Click “I Agree” to install.

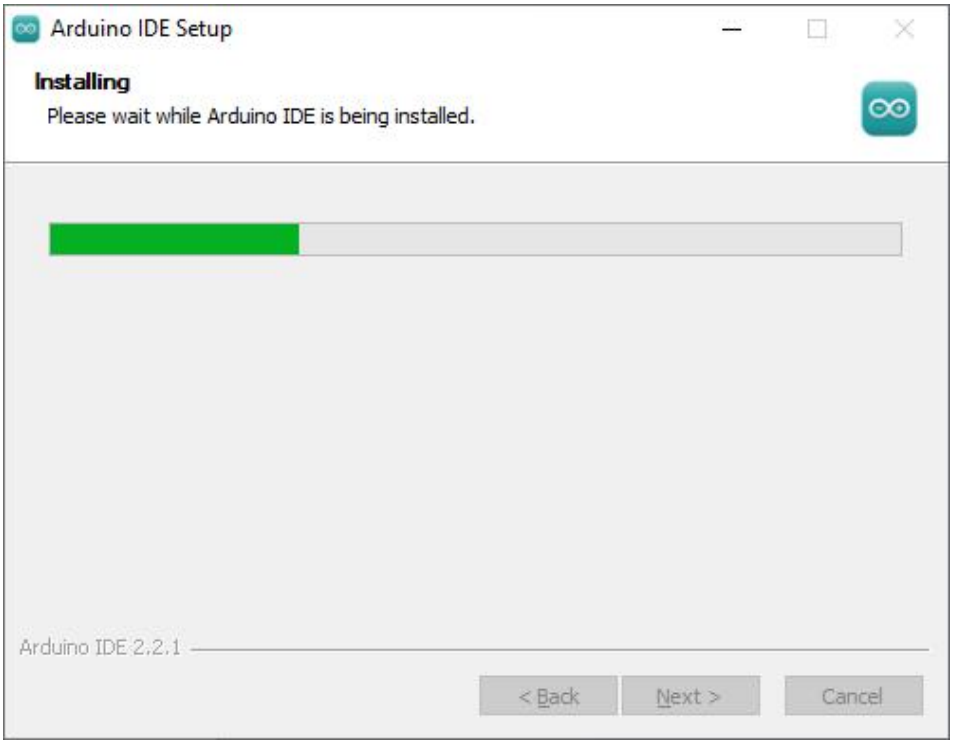


3) Remain the default option, and click “Next”.



4) Click “Browse” to choose the installation path, and then click “Install”.

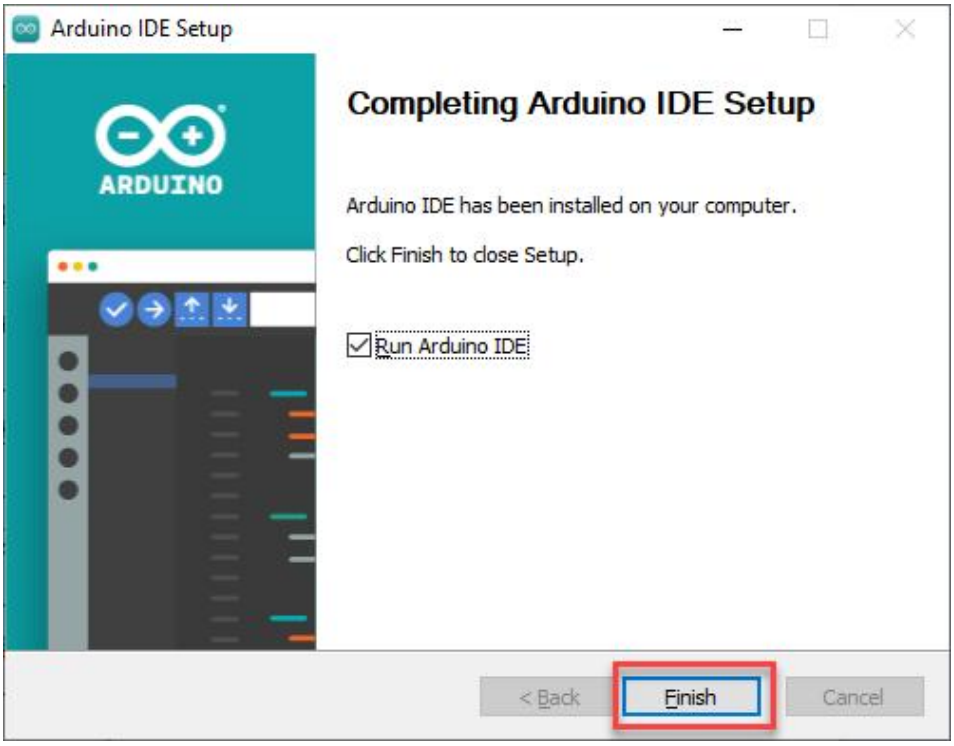

Arduino IDE Setup
Choose Install Location
Choose the folder in which to install Arduino IDE.
Setup will install Arduino IDE in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.
1
Destination Folder
C:\Users\Administrator\AppData\Local\Programs\Arduino IDE
Browse...
2
Arduino IDE 2.2.1
< Back
Install
Cancel


Arduino IDE Setup
Installing
Please wait while Arduino IDE is being installed.
Arduino IDE 2.2.1
< Back
Next >
Cancel

5) Wait for the installation to complete.

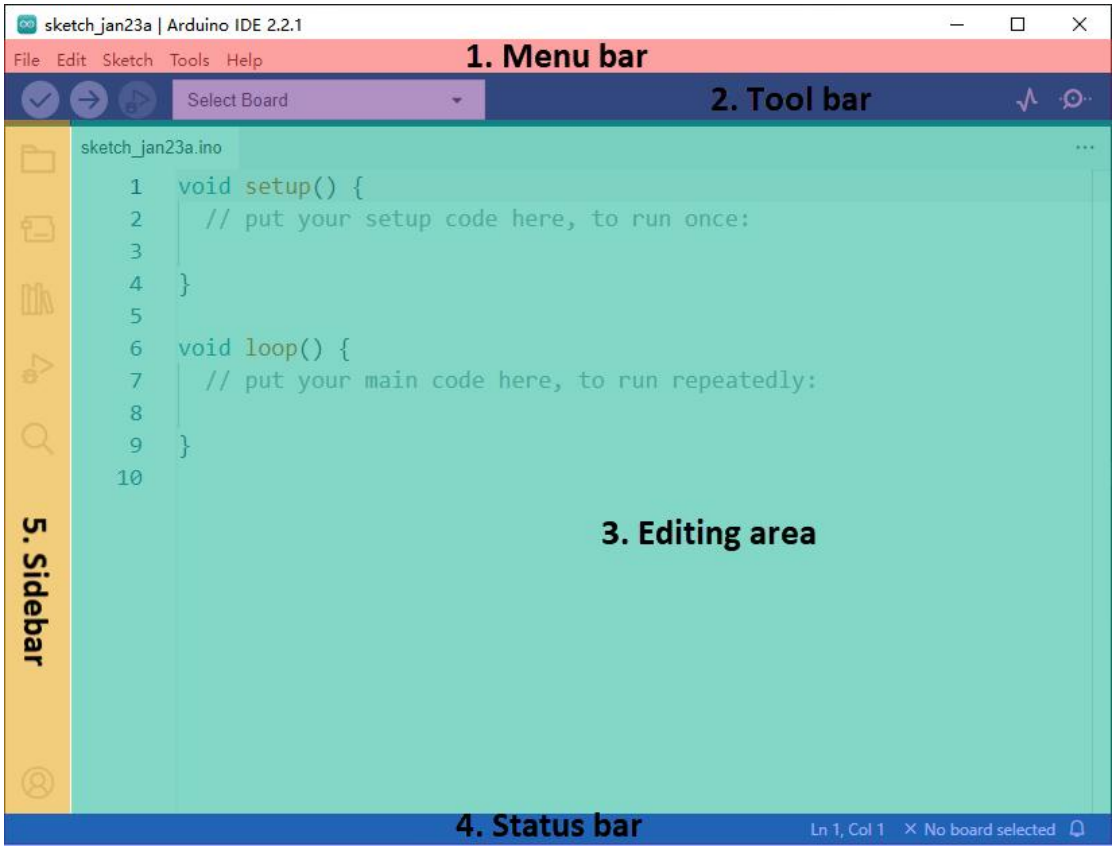
Attention: If you're prompted for the installation of the chip driver during the installation, please check "Always trust software from Arduino LLC (A)", then click "Install".

6) After the installation is complete, click "Finish".



2. Software Instruction

1) The main interface of Arduino IDE consists of 5 workplaces：



① **Menu bar**: it is responsible for Arduino IDE-related settings.

Icon	Function
File	Create or open a project file, and customize preferences for the main interface.
Edit	Perform text editing such as commenting, indenting or searching for code.
Sketch	Configure the entire project, including compiling, running, and adding the library files.
Tools	Select the development board and port, as well as obtain

	the board information.
Help	Assist users with getting ready and offer solutions to common issues.

② **Tool bar**: some tools related to the project, including program compilation, programs download, serial monitor, etc.

Icon	Function
	Verification. Check if a program is written without errors. If it is fully correct, the compilation process will activate.
	Download the program to the control board.
	Debugging. Some development can be debugged through Arduino IDE in real time.
	Select different boards for different development projects.
	Serial plotter, which can plot data printed to the Arduino serial port into graph.
	Serial monitor, printing serial port information.

③ **Sidebar:** the core of Arduino IDE is in charge of displaying the working folders, code debugging, library file installation, etc.

Icon	Function
	Management folder, display the files of current project.
	Development board manager, add the board tool package.

	Library management, add or delete the library files of the program.
	Debugging, real-time debugging of the project.
	Search or replace the code or variables.

④ **Editing area**: the area for editing code.

⑤ **Status bar**: display the status of the current editor, such as the line and column of code, information about the development board, etc.