

Arduino IDE

As an open source software, Arduino IDE, basing on Processing IDE development is an integrated development tenvironment officially launched by Arduino.

In the next part, each movement of the vehicle is controlled by the program so it's necessary to get the program installed and set up correctly. By using Arduino IDE, you just write the program code in the IDE and upload it to the Arduino circuit board. The program will tell the Arduino circuit board what to do.



UNOBOT 3.0 SMART ROBOT



So, where can we download Arduino IDE?

STEP 1:

Go to

https://www.arduino.cc/en/ Main/Software and you will see below page.

The version available at this website is usually the latest version, and the actual version may be newer than the version in the picture.

Downloads



Arduino IDE 1.8.13

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 ARM 32 bits Linux ARM 64 bits

Mac OS X 10.10 or newer

Release Notes Checksums (sha512)









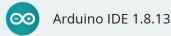
STEP 2:

Download the development software that is suitable for the operating system of your computer.

Take Windows as an example here. If you are MacOS, please close the file and open the "For Mac Lesson 0 Setting up development environment".

You can install it using the EXE installation package or the green package.

The following is the exe implementation of the installation procedures.



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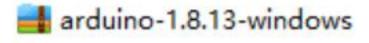
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STEP 3:

Press the button "JUST DOWNLOAD" to download the software.

The download file:



Contribute to the Arduino Software

Consider supporting the Arduino Software by contributing to its development. (US tax payers, please note this contribution is not tax deductible). Learn more on how your contribution will be used.



JUST DOWNLOAD

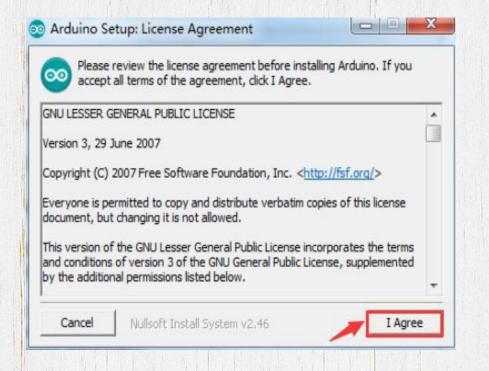
CONTRIBUTE & DOWNLOAD



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STEP 4:

These are available in the materials we provide, and the versions of our materials are the latest versions when this course was made.

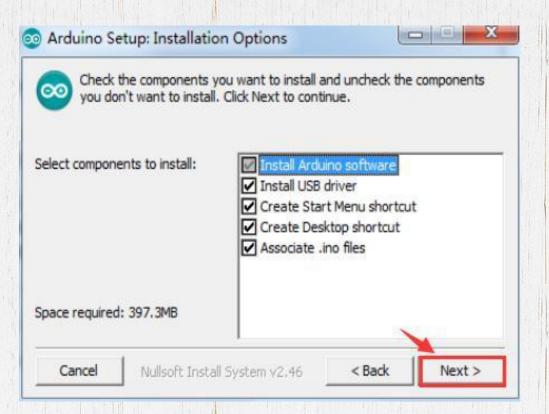


Choose "I Agree" to see the following interface.





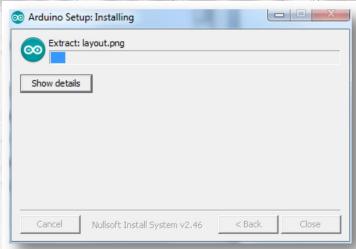
Choose "Next" to see the following interface.





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Finally, the following interface appe ars, you should choose "Install" to ensure the correctness of develop ment.













STEP 5:

Next, the following icon appears on the desktop.

Double-click to enter the desired development environment.





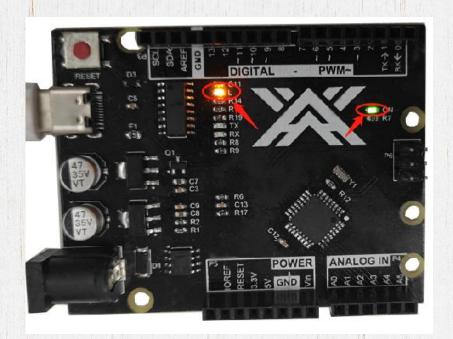






STEP 6:

Connect development board of the car to the computer.



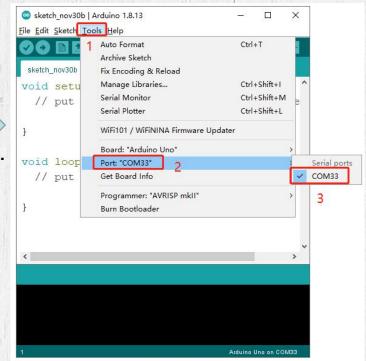






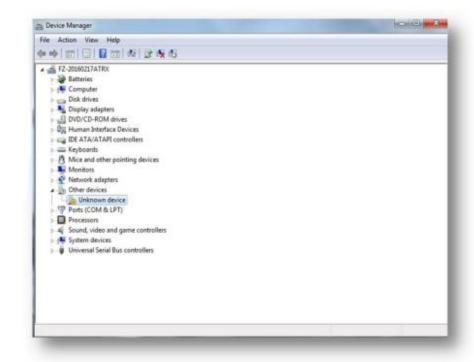
STEP 7:

Each Arduino Uno board has a different COM number on the same computer and usually the COM number with a suffix name "(Arduino/Genuino Uno)" in Arduino 1.8.9. You should choose the COM number of the actual display.









If you see the port "COM (XX)", it means that the vehicle has been connected correctly to the computer. In this case, you can jump to STEP 8 directly Otherwise, you will need to manually install the driver in the following way.





Device Manager File Action View Help ▲ #FZ-20160217ATRX Batteries Computer Disk drives Display adapters DVD/CD-ROM drives Human Interface Devices DE ATA/ATAPI controllers Keyboards Mice and other pointing devices Monitors Network adapters ■ Other devices Unknown device Update Driver Software... Ports (COM & LPT) Processors Uninstall Sound, video and gai System devices Scan for hardware changes Universal Serial Bus c **Properties**

Open Device Manager by right click My Computer—Management—Device Manager.

Right click unknown—device Update Device Software.



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It shows that the driver has not been installed, and you need to click "Browse my computer for driver software" to find the drivers. The drives is in the Arduin folder. Normally you will install the folde in C:\Program Files (x86)\Arduino.





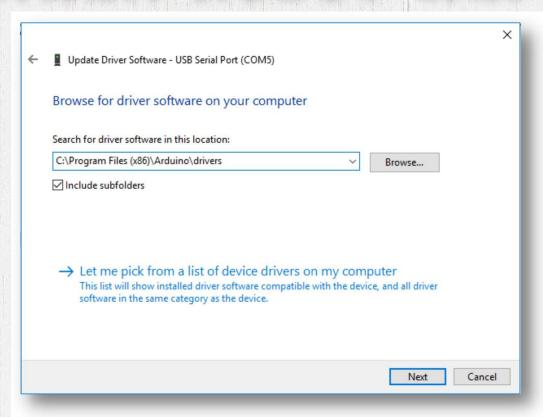
Arduino install folder.

	名称 ^	修改日期	类型	大小
				1000
	drivers	2020-07-13 10:03	文件夹	
	examples	2020-08-16 13:59	文件夹	
	hardware	2020-07-13 10:03	文件夹	
	java	2020-07-13 10:03	文件夹	
	lib	2020-07-13 10:03	文件夹	
	libraries	2020-10-06 16:40	文件夹	
	reference	2020-07-13 10:03	文件夹	
	tools	2020-08-16 13:39	文件夹	
	tools-builder	2020-08-16 13:52	文件夹	
	arduino	2020-06-16 11:44	应用程序	72 KB
	arduino.l4j	2020-06-16 11:44	配置设置	1 KB
	arduino_debug	2020-06-16 11:44	应用程序	69 KB
	arduino_debug.l4j	2020-06-16 11:44	配置设置	1 KB
	■ arduino-builder	2020-06-16 11:44	应用程序	18,137 KB
		2020-06-16 11:44	应用程序扩展	43 KB
	msvcp100.dll	2020-06-16 11:44	应用程序扩展	412 KB
	msvcr100.dll	2020-06-16 11:44	应用程序扩展	753 KB
	revisions	2020-06-16 11:44	文本文档	94 KB
	wrapper-manifest	2020-06-16 11:44	XML 文档	1 KB
only				





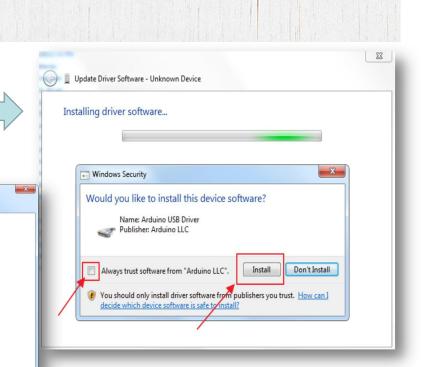
Select the Arduino driver folder.







Close



Install Arduino USB Device.

Update Driver Software - Arduino Uno (COM16)

Windows has successfully updated your driver software

Windows has finished installing the driver software for this device:

Finally,







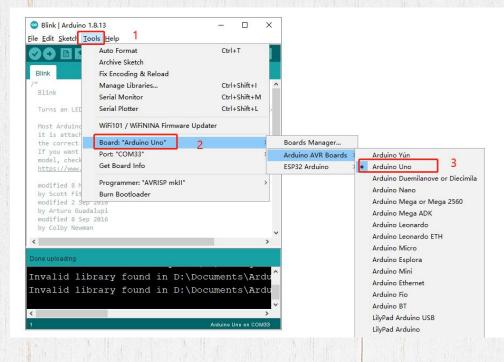


STEP 9:

After the driver is installed, please open the IDE and then click

"Tools" Board"

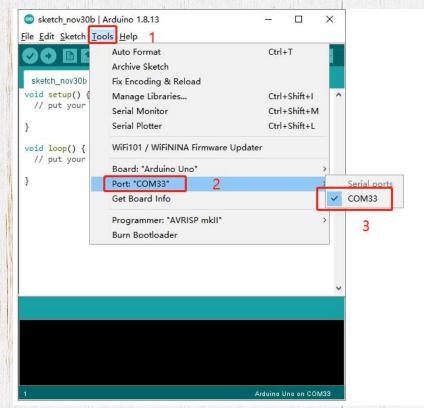
"Arduino/Genuino Uno".





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STEP 10:
Click "Tools" Port" COM.







STEP11:

Open the code file in the directory
"\Lesson 1 Make The Car Move \AUTO_G
O_\AUTO_GO_.ino"
upload to the UNO c ontroller board.

UNOBot3.0Car教程资料 > Lesson 1 Make The Car Move > AUTO_GO

名称

AUTO_GO

修改日期

2020-11-06 10:16

Arduino file

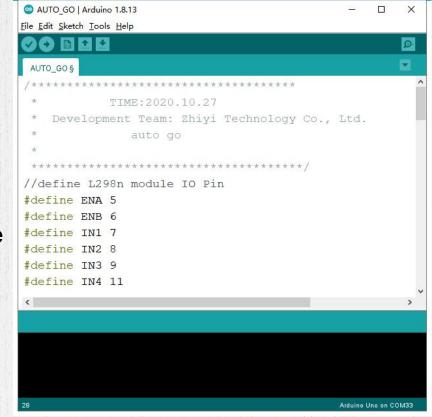
类型



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TIPS:

When uploading codes, please remove the BI uetooth module from the IO expansion board (Because the serial port for uploading codes and Bluetooth communication is the same one and there will be conflicts). You can install the Bluetooth module after the program is uploaded.











The picture above shows that it is uploaded successfully.

Done uploading.

Sketch uses 2,996 bytes (9%) of program storage space. Maximum is 32,256 bytes Global variables use 238 bytes (11%) of dynamic memory, leaving 1,810 bytes fo



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At this time, the Arduino development environment has been successfully built.

