Part 1

lesson 4

Building a Developed Environment

Arduino IDE

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

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.

So, Where can we download Arduino IDE?

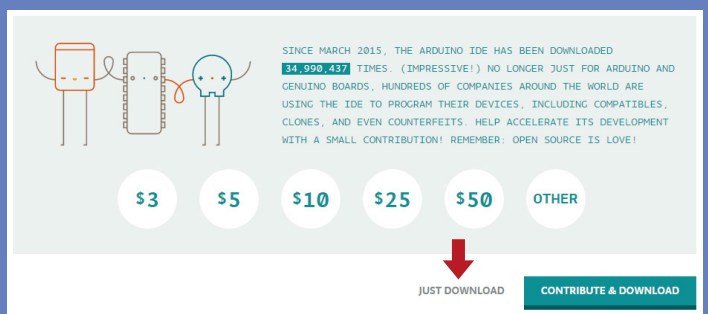
Uplaod program for MacOS

STEP 1:

- [ ] Download the Arduino Software (IDE) Open the URL:https://www.arduino.cc/en/Main/Software with browser.
  Click "Mac OSX 10.8 Lion or newer".
  The version available at this website is usually the latest version, and the actual version may be newer than the version in the picture.

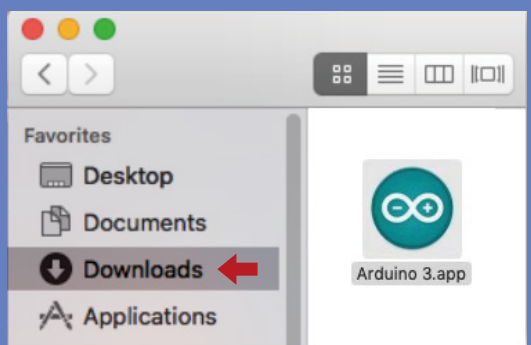
STEP 2:

- [ ] Click "JUST DOWNLOAD".



STEP 3:

- [ ] Open Finder.



STEP 4:

- [ ] After the download is complete, an installation package will appear in the download directory.

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

Uplaod program for Ubuntu

STEP 1:

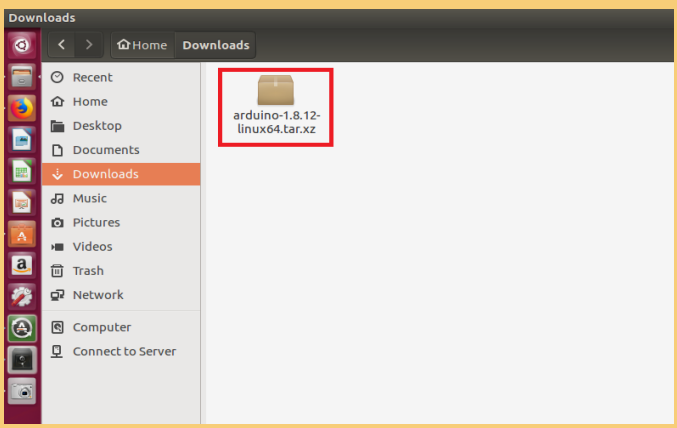
- Go to https://www.arduino.cc/en/Main/Software and you will see the below page. The version available at this website is usually the latest version, and the actual version maybe newer than the version in the picture.

STEP 2:

- Click **"JUST DOWNLOAD".**

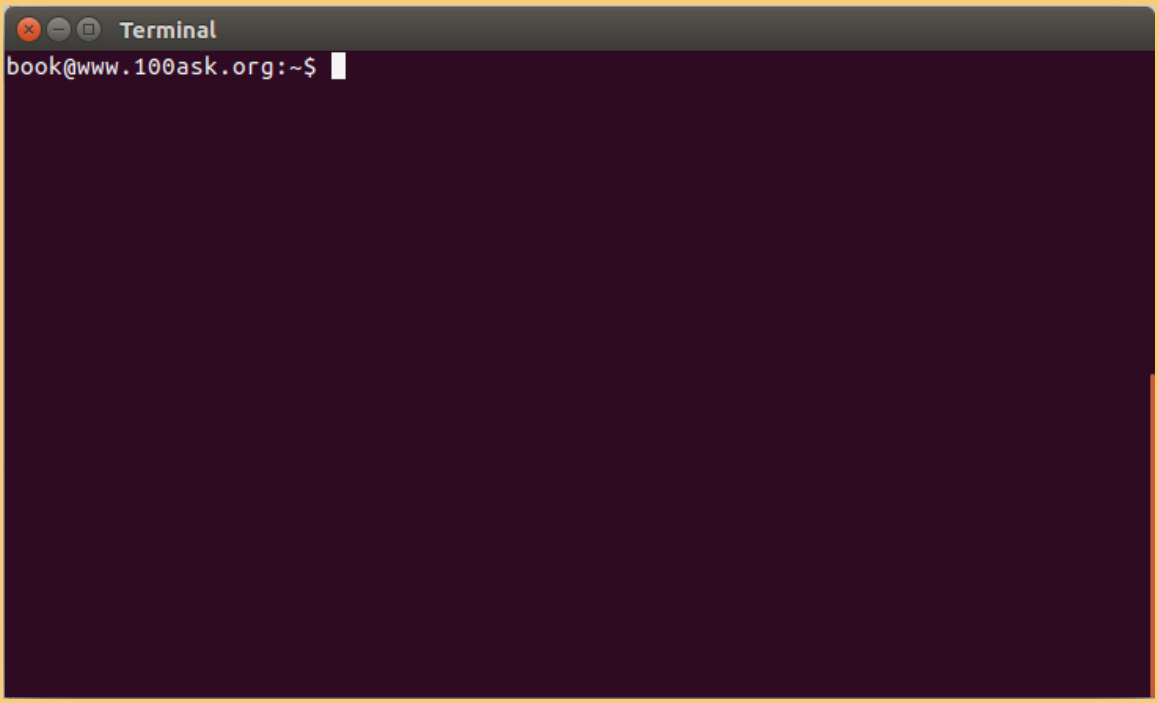
STEP 3:

- Check that the download was successful.



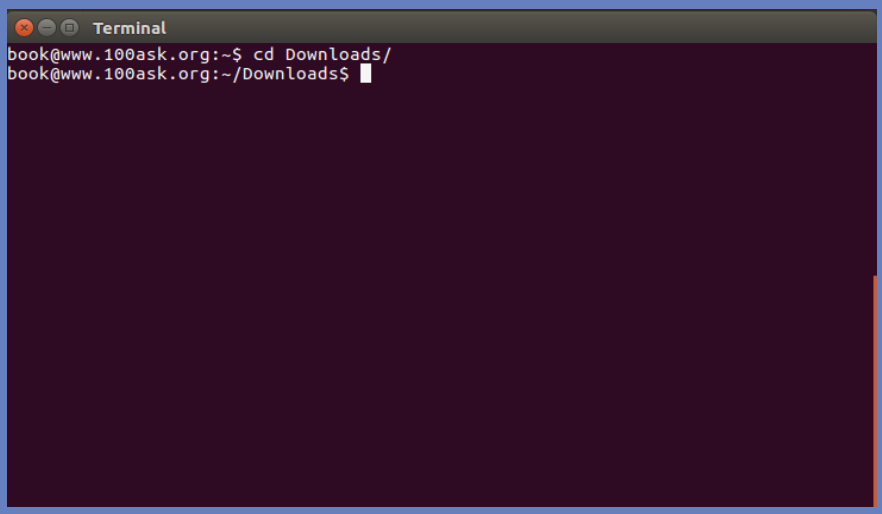
STEP 4:

- Press **“CTRL + ALT + T”** at the same time to open the command



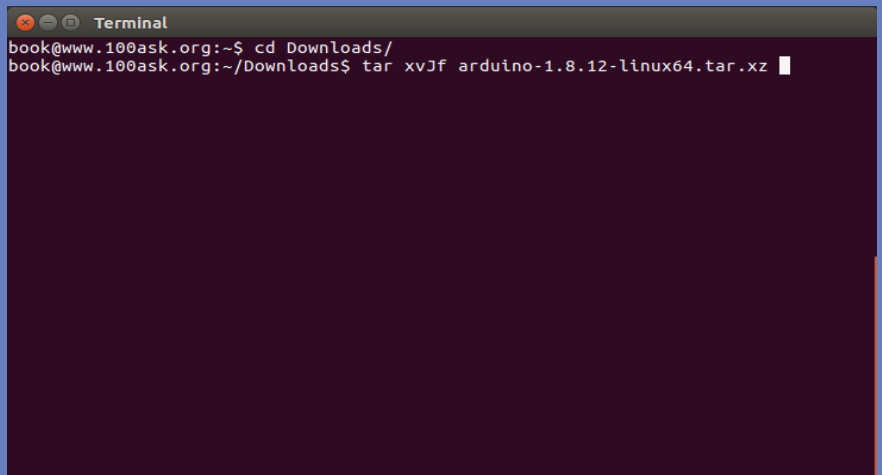
STEP 5:

- Enter “cd Downloads/”.



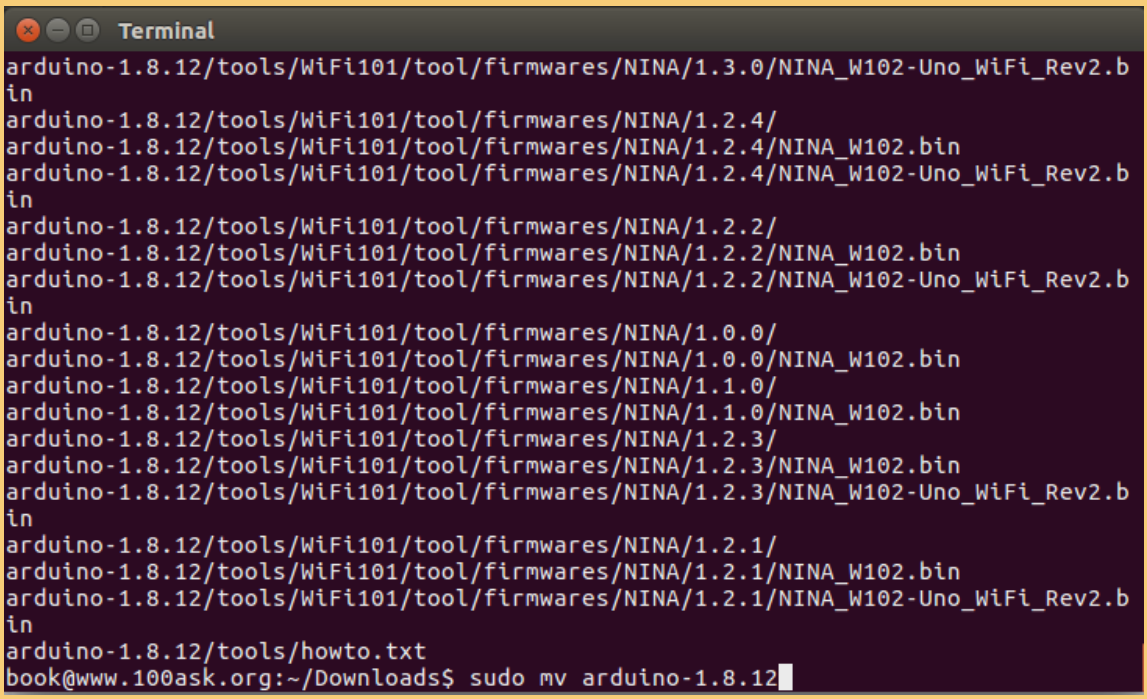
STEP 6:

- Enter “tar xvjf arduino-1.8.12-linux64.tar.xz” to unzip the files.



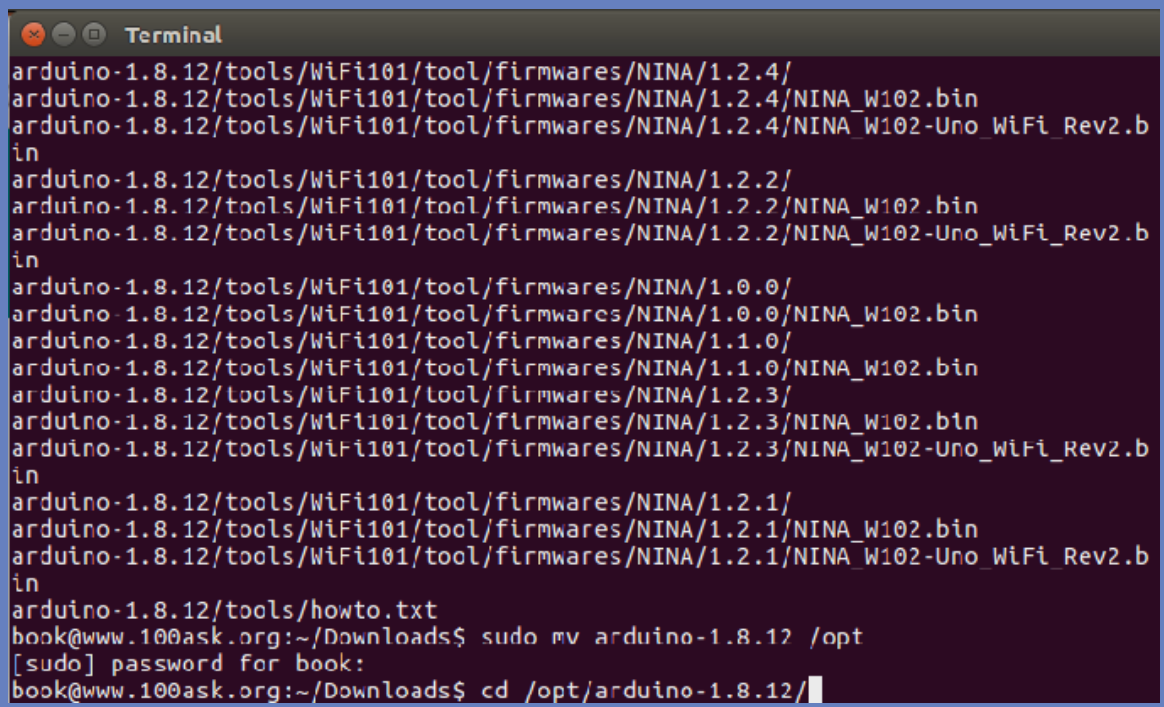
STEP 7:

- Enter **"sudo mv arduini-1.8.12 /opt"** to move the unzipped files to the "opt" folder.



STEP 8:

- Enter "cd /opt/arduino-1.8.12/" to go to the arduino folder.



STEP 9:

- Enter “sudo chmod +x install.sh” and “sudo chmod +x install.sh” to complete the installation.

```
Terminal
in
arduino-1.8.12/tools/WiFi101/tool/firmwares/NINA/1.0.0/
arduino-1.8.12/tools/WiFi101/tool/firmwares/NINA/1.0.0/NINA_W102.bin
arduino-1.8.12/tools/WiFi101/tool/firmwares/NINA/1.1.0/
arduino-1.8.12/tools/WiFi101/tool/firmwares/NINA/1.1.0/NINA_W102.bin
arduino-1.8.12/tools/WiFi101/tool/firmwares/NINA/1.2.3/
arduino-1.8.12/tools/WiFi101/tool/firmwares/NINA/1.2.3/NINA_W102.bin
arduino-1.8.12/tools/WiFi101/tool/firmwares/NINA/1.2.3/NINA_W102-Uno_WiFi_Rev2.b
in
arduino-1.8.12/tools/WiFi101/tool/firmwares/NINA/1.2.1/
arduino-1.8.12/tools/WiFi101/tool/firmwares/NINA/1.2.1/NINA_W102.bin
arduino-1.8.12/tools/WiFi101/tool/firmwares/NINA/1.2.1/NINA_W102-Uno_WiFi_Rev2.b
in
arduino-1.8.12/tools/howto.txt
book@www.100ask.org:~/Downloads$ sudo mv arduino-1.8.12 /opt
[sudo] password for book:
book@www.100ask.org:~/Downloads$ cd /opt/arduino-1.8.12/
book@www.100ask.org:/opt/arduino-1.8.12$ sudo chmod +x install.sh
book@www.100ask.org:/opt/arduino-1.8.12$ sudo ./install.sh
Adding desktop shortcut, menu item and file associations for Arduino IDE...


 done!
book@www.100ask.org:/opt/arduino-1.8.12$
```