


## Upload Penguin-Bot program for Windows

### STEP1: Download the Arduino IDE

Go to <https://www.arduino.cc/en/Main/Software> and find below page.

## Download the Arduino IDE



### ARDUINO 1.8.5

The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. It runs on Windows, Mac OS X, and Linux. The environment is written in Java and based on Processing and other open-source software. This software can be used with any Arduino board. Refer to the Getting Started page for Installation instructions.

**Windows** Installer, for Windows XP and up  
**Windows** ZIP file for non admin install

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

**Mac OS X** 10.7 Lion or newer

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

[Release Notes](#)  
[Source Code](#)  
[Checksums \(sha512\)](#)

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

Click the link “Windows Installer, for Windows XP and up”.

**Windows** Installer, for Windows XP and up

Click the button “JUST DOWNLOAD” to download the software.

## 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.



SINCE MARCH 2015, THE ARDUINO IDE HAS BEEN DOWNLOADED **23,213,129** TIMES. (IMPRESSIVE!) NO LONGER JUST FOR ARDUINO AND GENUINO BOARDS, HUNDREDS OF COMPANIES AROUND THE WORLD ARE USING THE IDE TO PROGRAM THEIR DEVICES, INCLUDING COMPATIBLES, CLONES, AND EVEN COUNTERFEITS. HELP ACCELERATE ITS DEVELOPMENT WITH A SMALL CONTRIBUTION! REMEMBER: OPEN SOURCE IS LOVE!

\$3

\$5

\$10

\$25

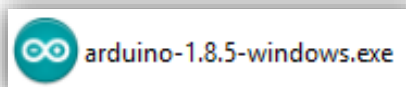
\$50

OTHER

JUST DOWNLOAD

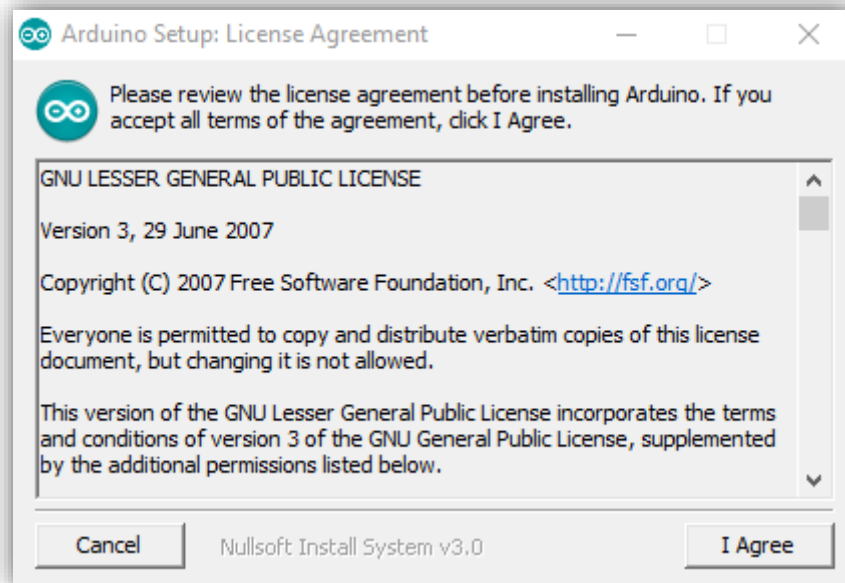
CONTRIBUTE & DOWNLOAD

After the download is complete, an installation package will appear in the download directory

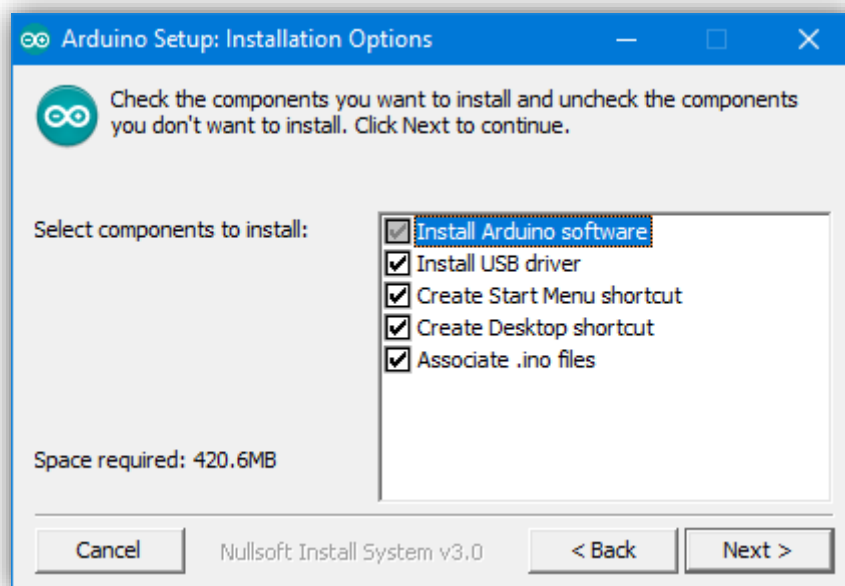


### STEP2: Install Arduino IDE

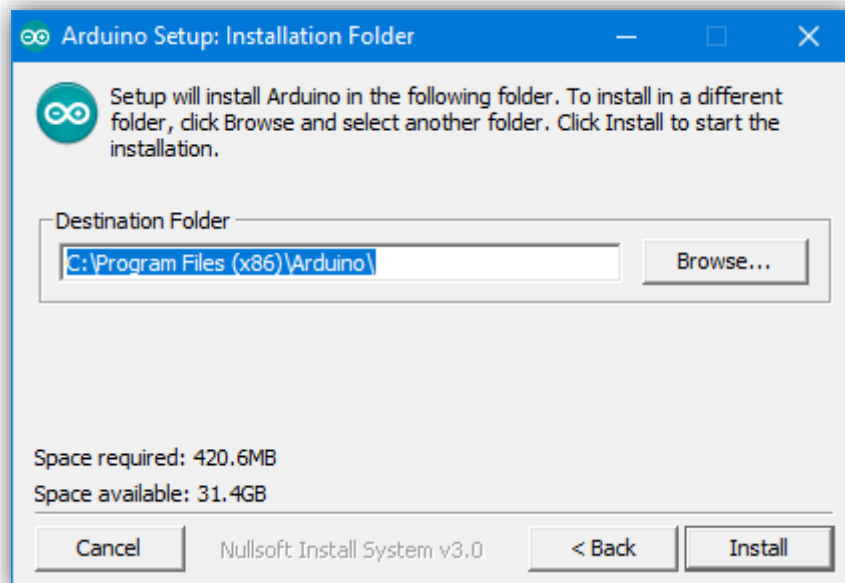
Double-click the installation package to enter the software installation interface and click “I Agree” button.



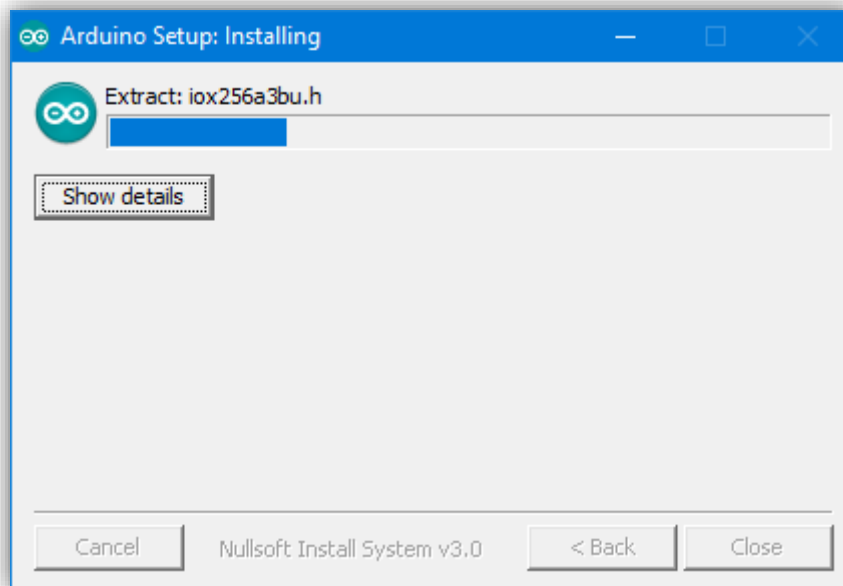
Click “Next” button.



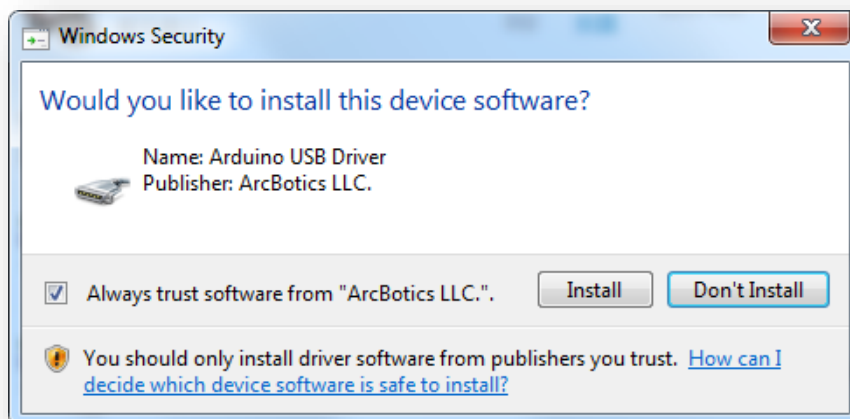
Click “Install” button to initiate installation.



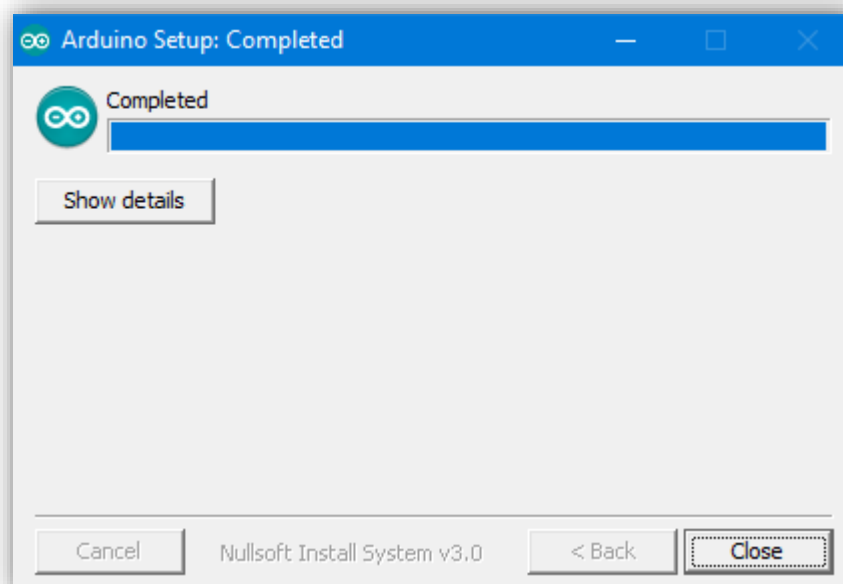
Arduino IDE installing.



Driver installation screen may appear during installation. Click “Install” to install the Arduino USB Driver.



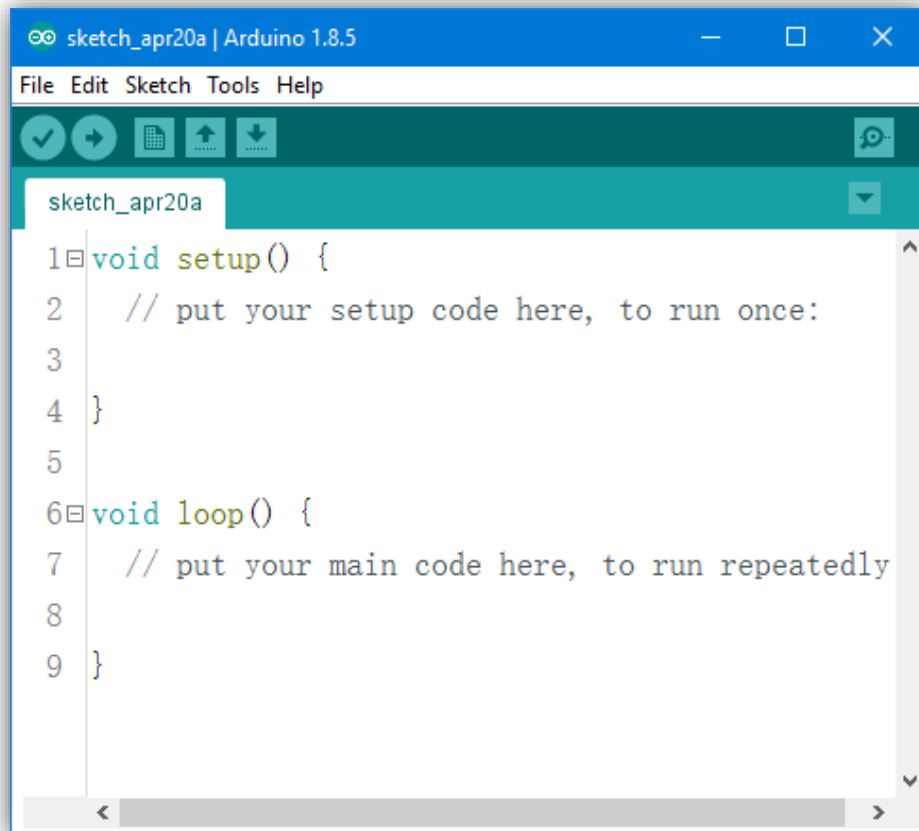
Installation Completed. Click “Close” button.



Finally, Arduino IDE shortcut icon appears on the desktop.

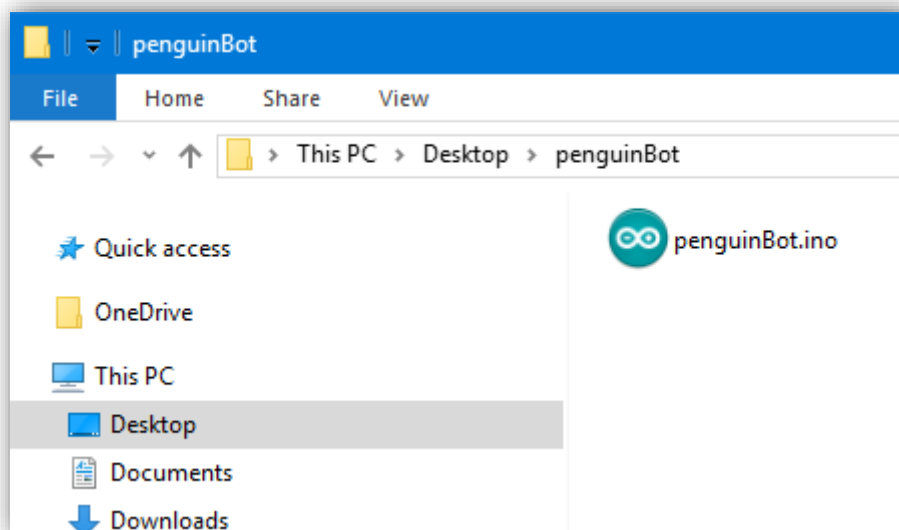


Double-click the Arduino IDE shortcut icon to enter the Arduino programming development environment.

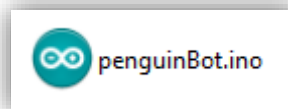


STEP2: Upload Penguin-Bot program.

Open the directory where the Penguin-Bot sketch is located.



Double-click Penguin-Bot sketch.

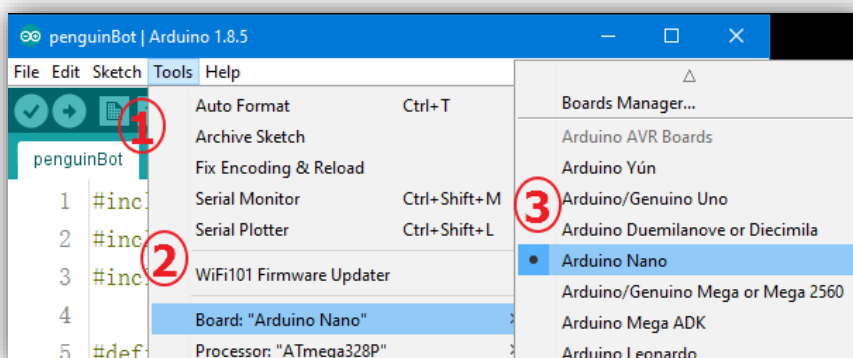


After open the Penguin-Bot sketch, we can see the code in the Arduino IDE.

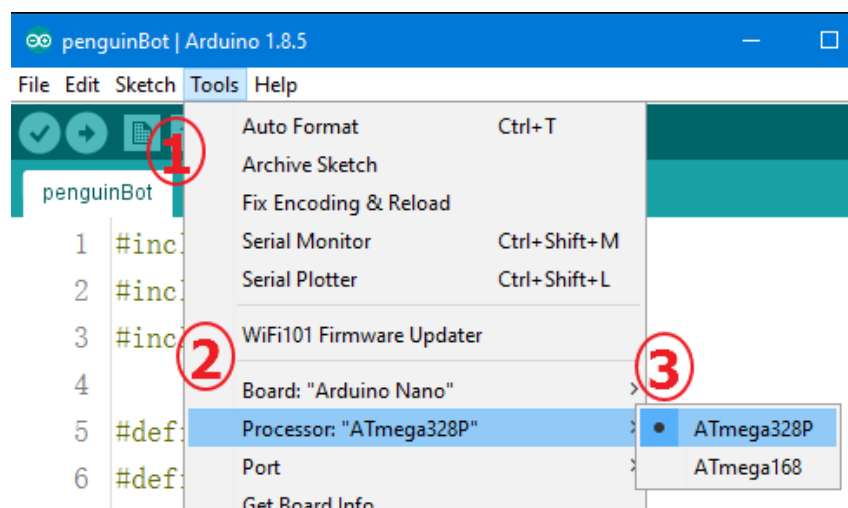
A screenshot of the Arduino IDE window titled "penguinBot | Arduino 1.8.5". The code editor shows the following code:

```
1 #include <IRremote.h>
2 #include <Oscillator.h>
3 #include <Servo.h>
4
5 #define BTN_UP 16736925
6 #define BTN_DOWN 16754775
7 #define BTN_LEFT 16761405
8 #define BTN_RIGHT 16720605
9 #define BTN_RESET 16712445
10 #define BTN_DANCE 16718055
11 #define BTN_MUSIC 16724175
12 #define BTN_MODE 16743045
```

Select the Arduino Nano board.

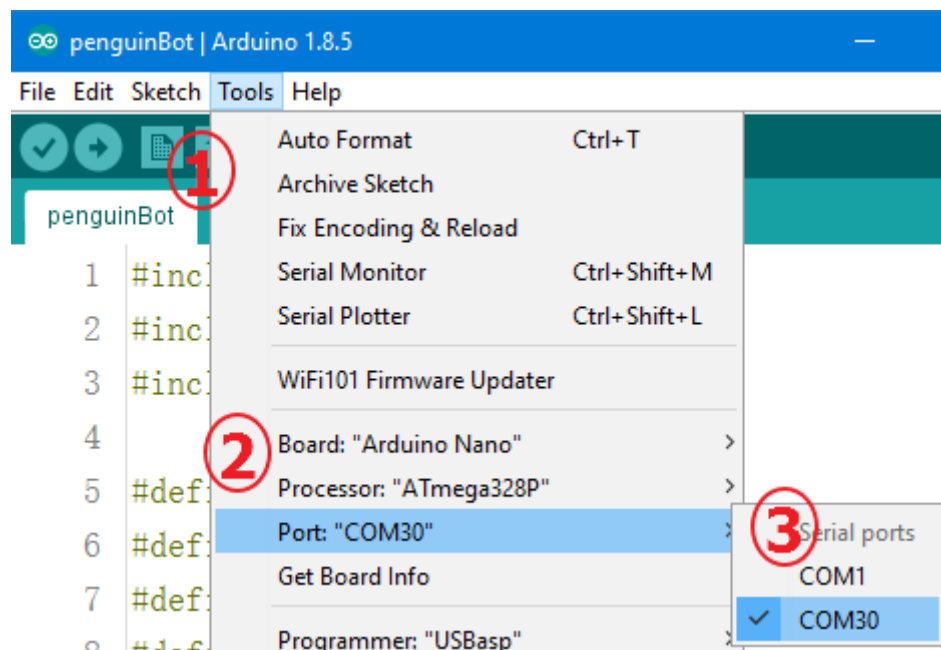


Select the Atmega328P Processor.

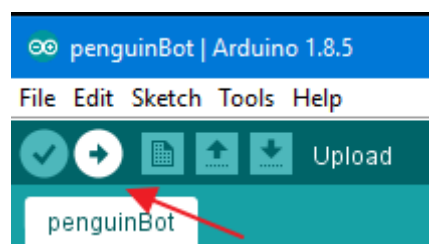


Select the SerialPort name.

(Tips: Each Arduino Nano board has a different COM number on the same computer. You should choose the COM number of the actual display.)



Click the upload button to start upload the Penguin-Bot program.



Done uploading.

