Upload Penguin Bot program for MacOS

STEP1: Download the Arduino Software (IDE)

Open the URL: https://www.arduino.cc/en/Main/Software with browser Click "Mac OSX 10.7 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.

Click "JUST DOWNLOAD"



Open Finder

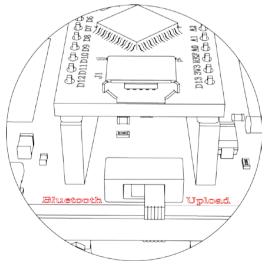


After the download is complete, an installation package will appear in the download directory



STEP2: Upload Penguin Bot program.

Turn the "Bluetooth-Upload" switch to the "Upload" side, which means the Penguin Bot is in Upload mode.

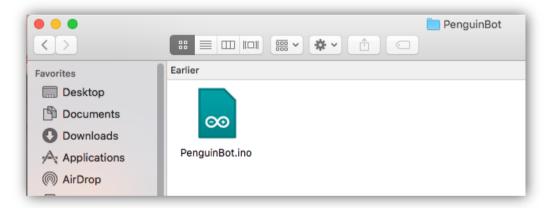


Double-click the Arduino application to enter the arduino programming development environment.

```
sketch_apr20a

1=|void setup() {
2    // put your setup code here, to run once:
3
4 }
5
6=|void loop() {
7    // put your main code here, to run repeated
8
9 }
```

Connect the Penguin Bot to PC with USB and open the directory where the Penguin Bot sketch is located.

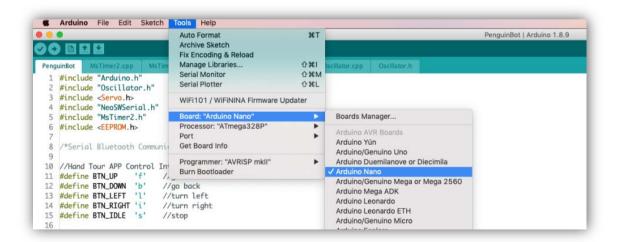


Double-click Penguin Bot sketch. After open the Penguin Bot sketch, we can see the code in the Arduino

IDE.

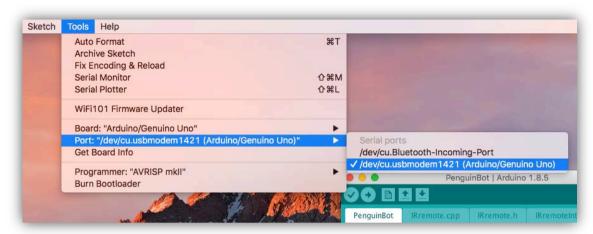
```
PenguinBot | Arduino 1.8.9
           MsTimer2.cpp MsTimer2.h NeoSWSerial.cpp N ▼ SW.
PenguinBot
 1 #include "Arduino.h"
 2 #include "Oscillator.h"
 3 #include <Servo.h>
 4 #include "NeoSWSerial.h"
 5 #include "MsTimer2.h"
 6 #include <EEPROM.h>
 8
   /*Serial Bluetooth Communication Control Command Data
 9
10 //Hand Tour APP Control Interface Left Domain Key
                   'f'
11 #define BTN_UP
                            //go forward
12 #define BTN_DOWN 'b'
                            //go back
13 #define BTN_LEFT 'l'
                           //turn left
14 #define BTN_RIGHT 'i'
                            //turn right
15 #define BTN_IDLE 's'
                            //stop
16
17 //Right Domain Key of Hand-Tour APP Control Interface
18 #define BTN_MUSIC
                        '1' //Music Model
                         '2' //Dance Model
19 #define BTN_DANCE
                       Arduino/Genuino Uno on /dev/cu.usbmodem201912341
```

Select the Arduino Nano board.



Select the Serial Port 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.

