

Draw Sound Lesson 1

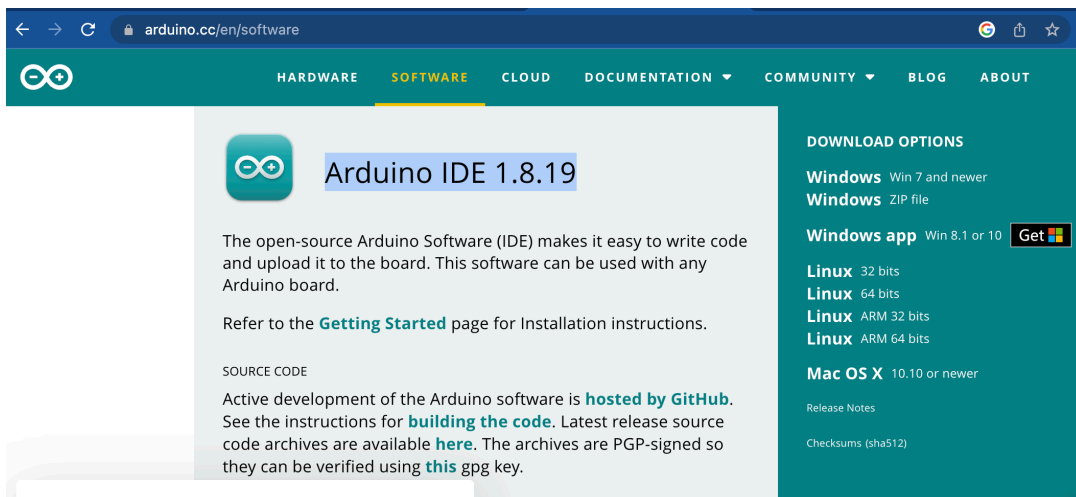
基本軟件 Basic software :

- Audacity : <https://www.audacityteam.org/download/>



- Arduino IDE : <https://www.arduino.cc/en/software>

*Arduino IDE 1.8.19



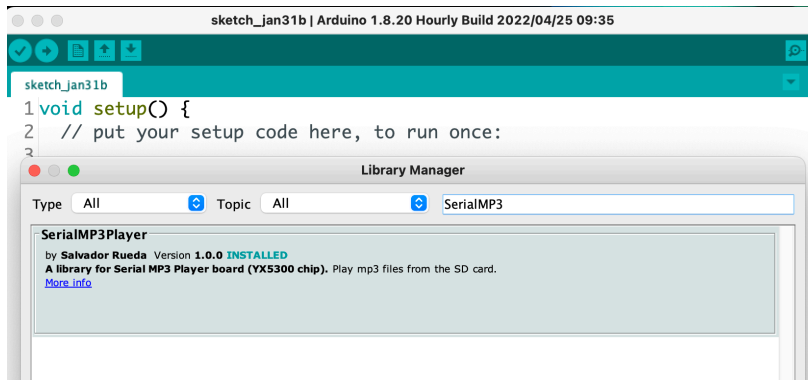
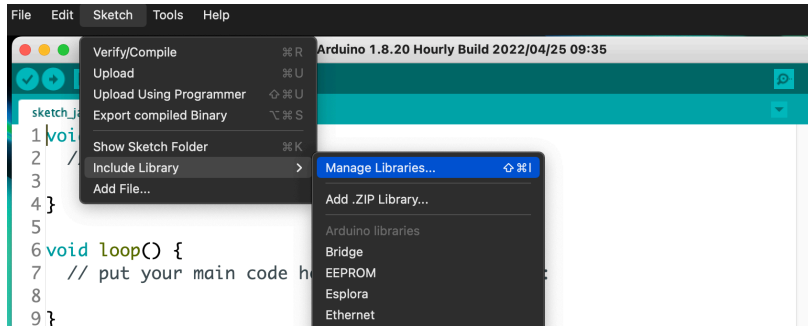
網絡App Web App - 合成器音樂 Synth Music

- Ableton Learn Synth:

<https://learningsynths.ableton.com/en/playground>

如何加入編碼庫 How to add library: SerialMP3

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示範編碼 Demo Code:

<https://drive.google.com/drive/folders/1a2dMQs-BtpDX0JycadrvBEjH7hCJeyHp?usp=sharing>

Example 1 : Blink

```
25 // the setup function runs once when you press reset or power the board
26 void setup() {
27   // initialize digital pin LED_BUILTIN as an output.
28   pinMode(LED_BUILTIN, OUTPUT);
29 }
30
31 // the loop function runs over and over again forever
32 void loop() {
33   digitalWrite(LED_BUILTIN, HIGH); // turn the LED on (HIGH is the volta
34   delay(500); // wait for a second
35   digitalWrite(LED_BUILTIN, LOW); // turn the LED off by making the vol
36   delay(500); // wait for a second
37 }
```

Example 2 : Loop Mp3

```
loopmp3
1 #include "SerialMP3Player.h" // 使用MP3版的編碼庫library
2 #define TX 11 //to MP3 board RX //定義ARDUINO TX到MP3 RX引腳連接
3 #define RX 10 //to MP3 board TX //定義ARDUINO RX到MP3 TX引腳連接
4
5 SerialMP3Player mp3(RX, TX); // 起動MP3相關的TX・RX
6
7 void setup() {
8   Serial.begin(9600); // 起動serial介面
9   mp3.begin(9600); // 開始MP3版的連接
10  delay(500); // 等待起動
11  mp3.sendCommand(CMD_SEL_DEV, 0, 2); //選取 sd-card
12  delay(500); // 等待起動
13  mp3.setVol(10); // 設定音量
14 }
15 //迴圈：處理器不停執行的程序
16
17 void loop() {
18  mp3.play(1); //歌曲於SD CARD內的次序
19  delay(10000); //歌曲的時間/中斷時間 1000=1秒
20 }
```