

lab(1) 課前環境架設

物聯網概論



黃能富特聘教授

國立清華大學資訊工程系

E-mail: nfhuang@cs.nthu.edu.tw

- © All rights reserved. No part of this publication and file may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of Professor Nen-Fu Huang (E-mail: nfhuang@cs.nthu.edu.tw).
- © (Verdana, 14號字, 粗體)

課前準備

- 安裝Arduino 1.8.16
- 提前下載好library(dht_lab_template.zip),[連結請點我](#)
- mac用戶需安裝python2.7

課前準備

- 請到 Arduino 官網

(<https://www.arduino.cc/en/software>)中的

Download下載Arduino IDE,請務必下載**1.8.16**版本

- 步驟1

Legacy IDE (1.8.X)



Arduino IDE 1.8.19

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 64 bits
- Linux ARM 32 bits
- Linux ARM 64 bits
- Mac OS X 10.10 or newer

Release Notes

Checksums (sha512)

Previous Releases

Download the previous version of the current release, the classic 1.0.x, or old beta releases.

DOWNLOAD OPTIONS

- Previous Release 1.8.18**
- Arduino 1.0.x
- Arduino 1.5.x beta

點選這邊可以找到1.8.16版本

課前準備

● 步驟2

Previous Releases

Download the previous version of the current release, the classic 1.0.x, or old beta releases.

DOWNLOAD OPTIONS

[Previous Release 1.8.18](#)

[Arduino 1.0.x](#)

[Arduino 1.5.x beta](#)

● 步驟3 請務必下載1.8.16版本,否則將無法連接7697

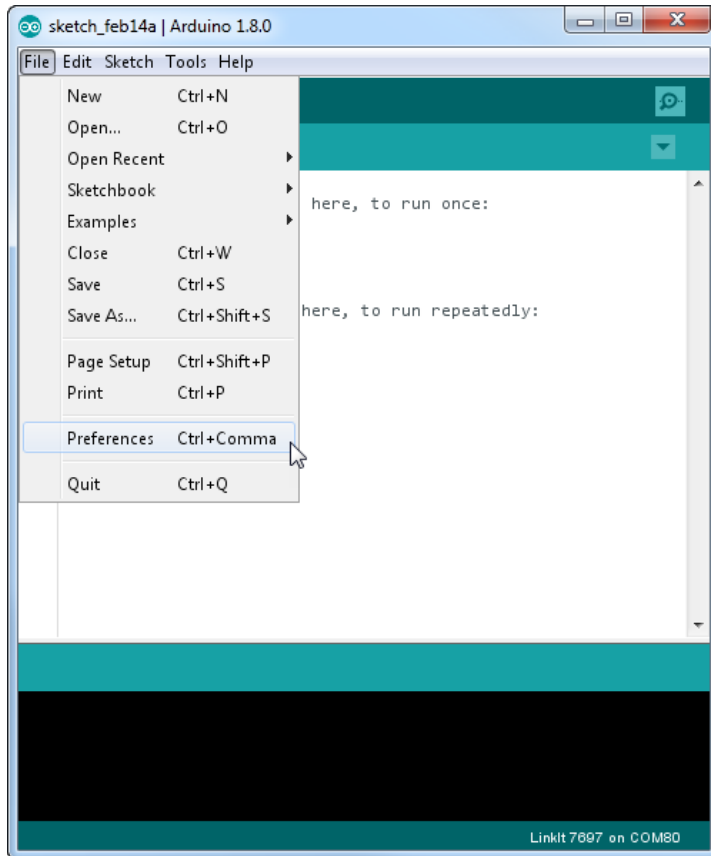
Arduino 1.8.16

Arduino IDE that can be used with any Arduino board, including the Arduino Yún and Arduino DUE. Refer to the [Getting Started](#) page for Installation instructions. [See the release notes.](#)

Windows	MAC	Linux	Source
Windows Installer Windows ZIP file for non admin install	MAC OS 10.8 Mountain Lion or newer	Linux 32 bits Linux 64 bits Linux ARM 32 Linux ARM 64	Source

課前準備

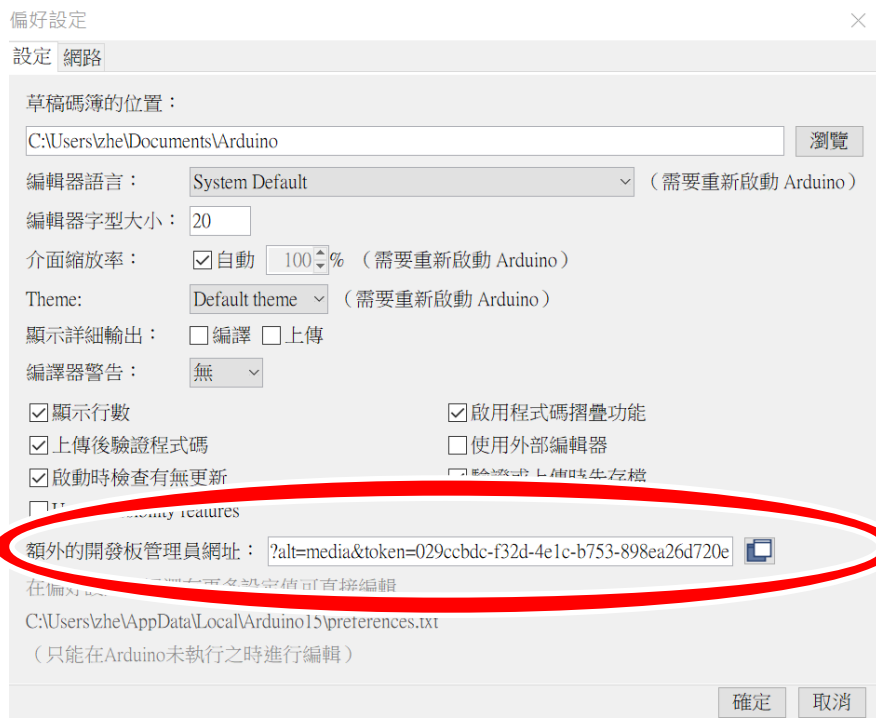
- 打開Arduino IDE，File > Preferences，如圖所示



左圖為Windows介面，右圖為OSX介面

課前準備

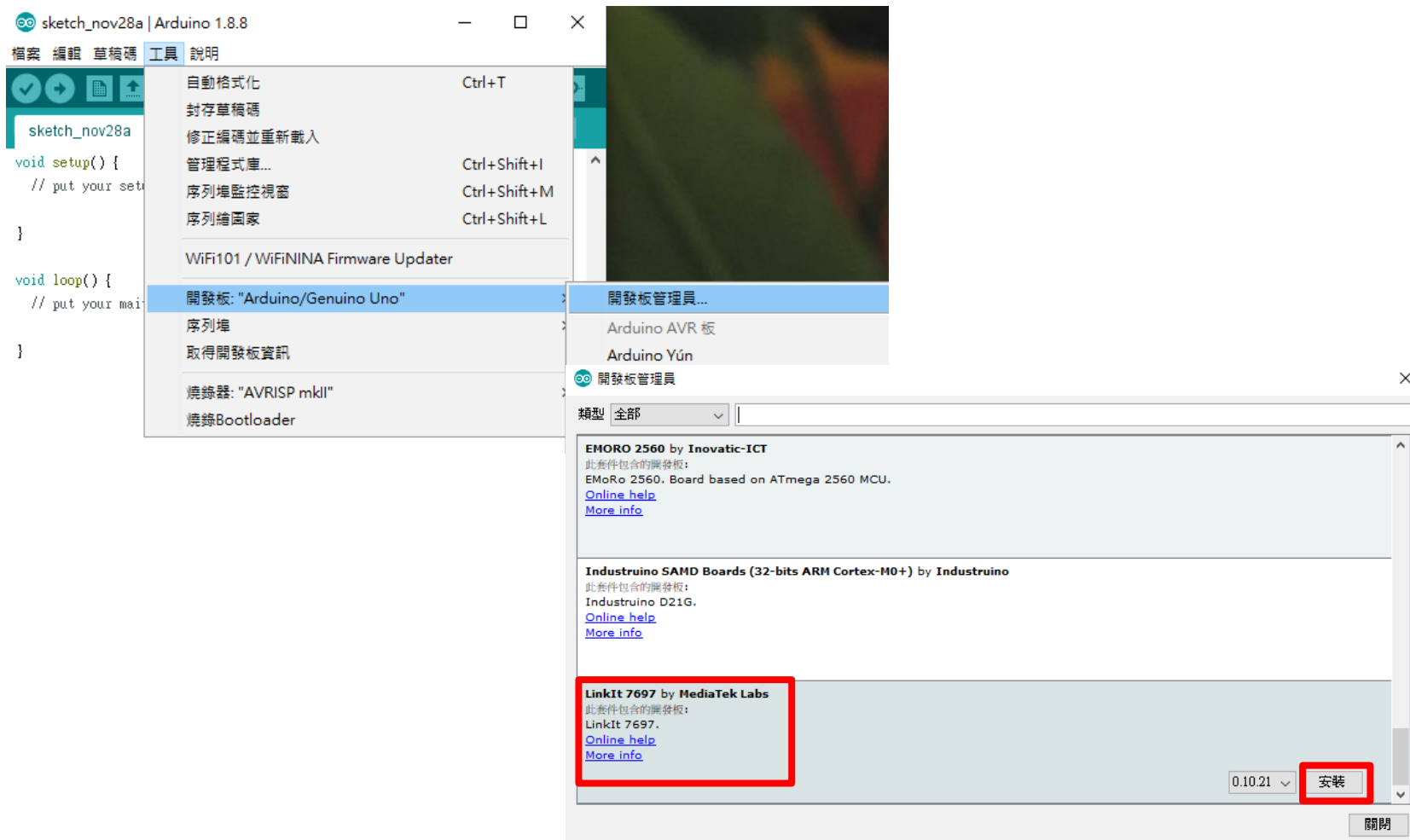
- 輸入以下資訊：
- https://files.gitbook.com/v0/b/gitbook-x-prod.appspot.com/o/spaces%2FY4gduUSLWOCI23CXUWej%2Fuploads%2FfDIyZSO3WxvVYeZFhkSQ%2Fpackage_mtk_linkit_7697_index.json?alt=media&token=029ccbd-c-f32d-4e1c-b753-898ea26d720e



請不要直接從pdf上複製網址,不然會複製到一些隱藏空白跟字元,可以點開網址後從瀏覽器上方的網址欄位做複製

課前準備

- 安裝SDK，選擇最新版本(講義是0.10.21)

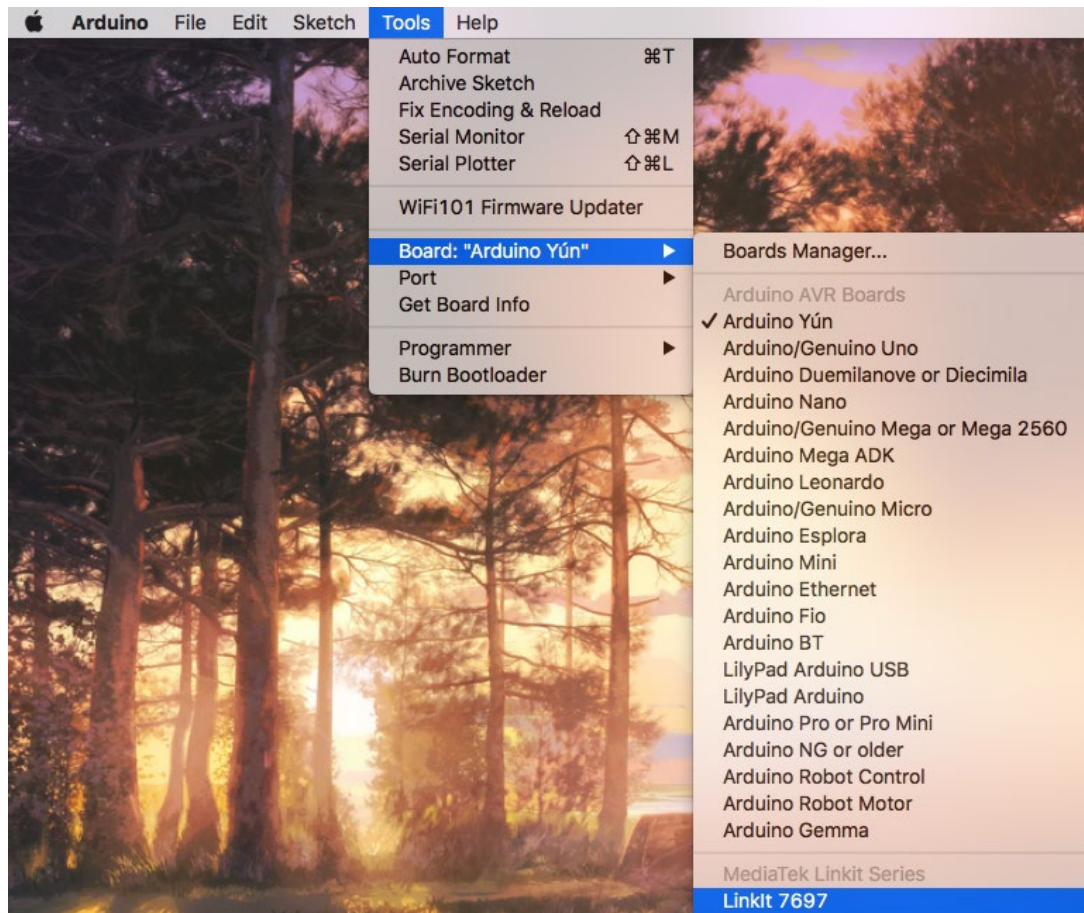


課前準備

- 由此連結選擇適合自己電腦版本的USB Driver
- <http://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers>
- 安裝完成之後電腦才能讀到7697

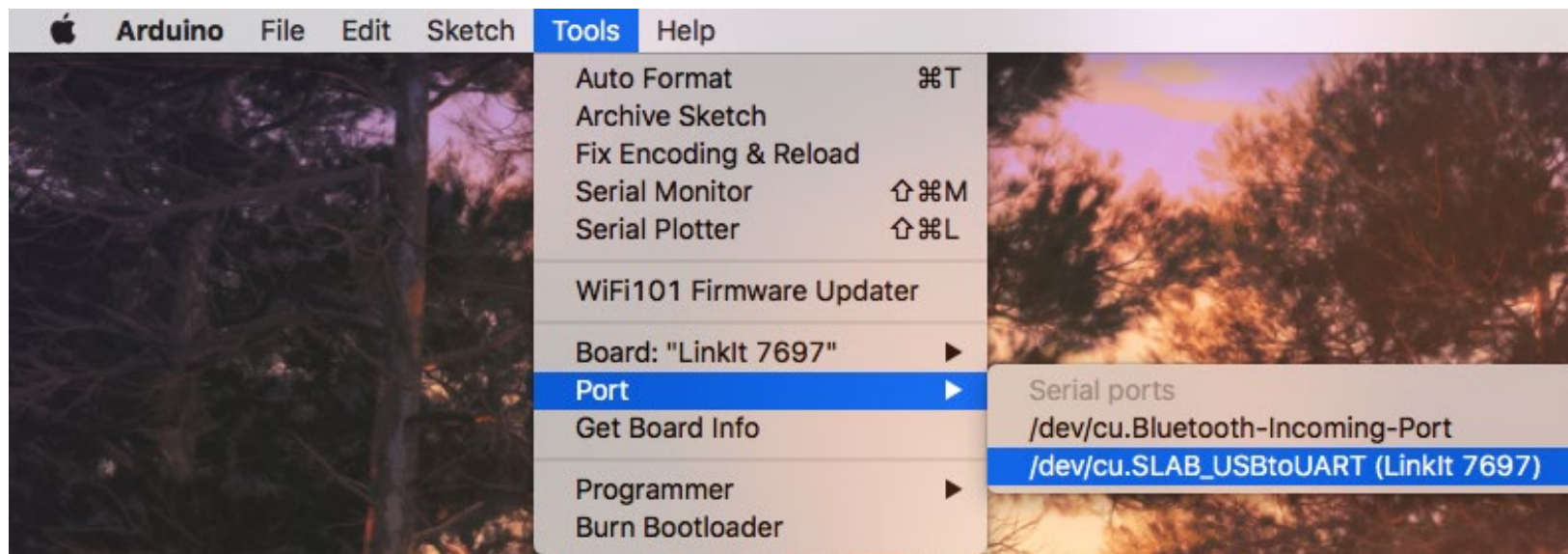
課前準備

- 這時候在 Tools > Board，應該可以看到Linkit 7697



課前準備

- 安裝好Driver，並將 LinkIt 7697 連接到電腦之後，請由此路徑 Tools > Port 選擇 7697，如圖



Mac

- Mac用戶確認電腦有安裝python 2.7,若沒安裝的話也需要安裝(adruino 做燒錄時會用到)
- 從官網或是homebrew安裝都可以