13-ESP8266 >

02MeMos D1

(2017/01/30 大年初三)

WeMos D1 WiFi Arduino UNO 開發板ESP8266 直接用Arduino IDE

- **WeMos D1 基於ESP-8266EX**
- **Arduino兼容，使用Arduino IDE來編程**
- **11 x I/O 引腳**
- **1 x ADC 引腳（輸入範圍0-3.3V）**
- **支持OTA無線上傳**
- **板載5V 1A開關電源（最高輸入電壓24V）**

WeMos D1 安裝教學

原廠技術文件說明 https://www.wemos.cc/product/d1.html

Arduino 安裝說明 https://www.wemos.cc/tutorial/get-started-arduino.html

NodeMCU 安裝說明 https://www.wemos.cc/tutorial/get-started-nodemcu.html

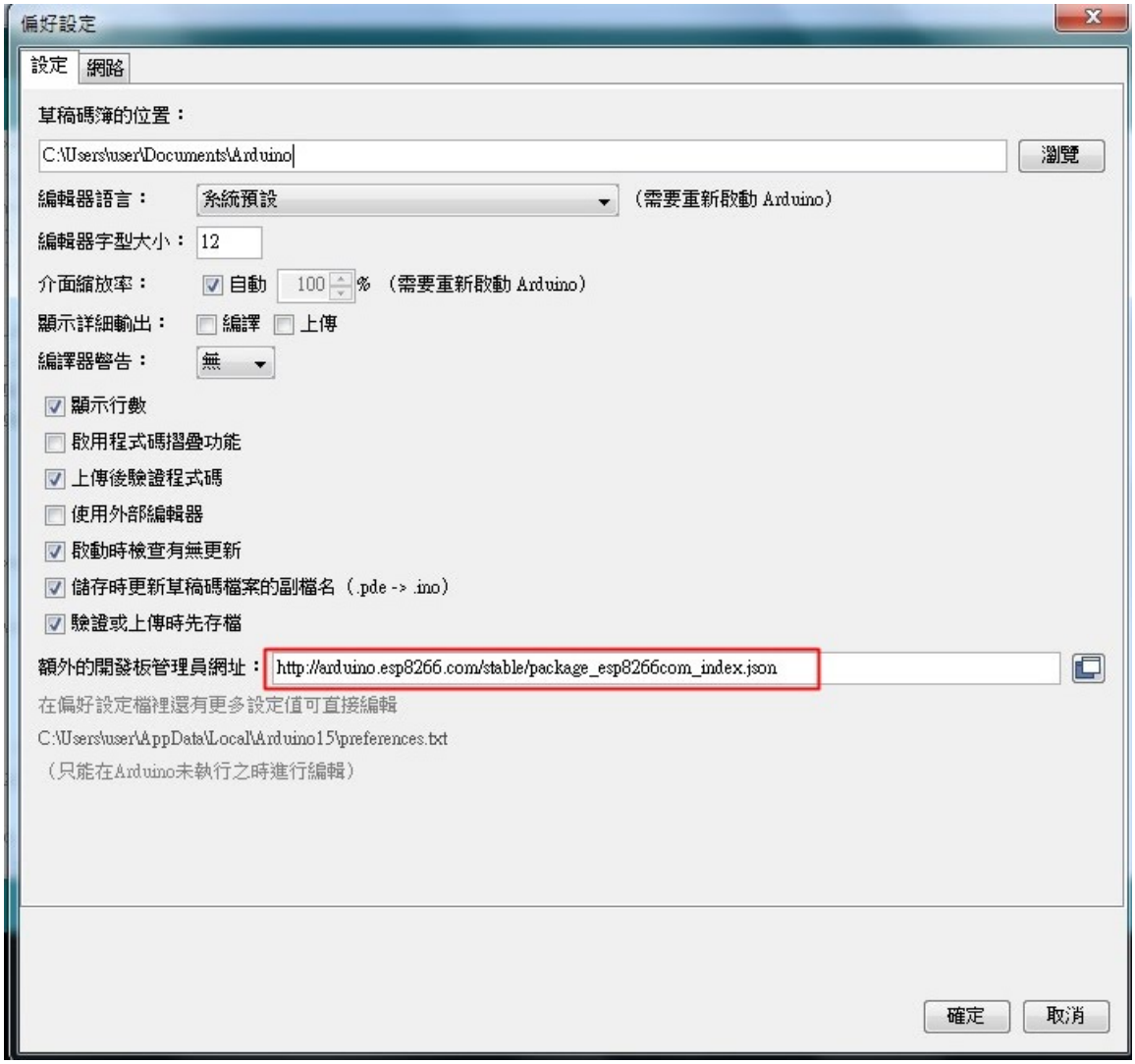
教學 http://www.instructables.com/id/Programming-the-WeMos-Using-Arduino-SoftwareIDE/

相關入門程式開發與說明 https://github.com/wemos

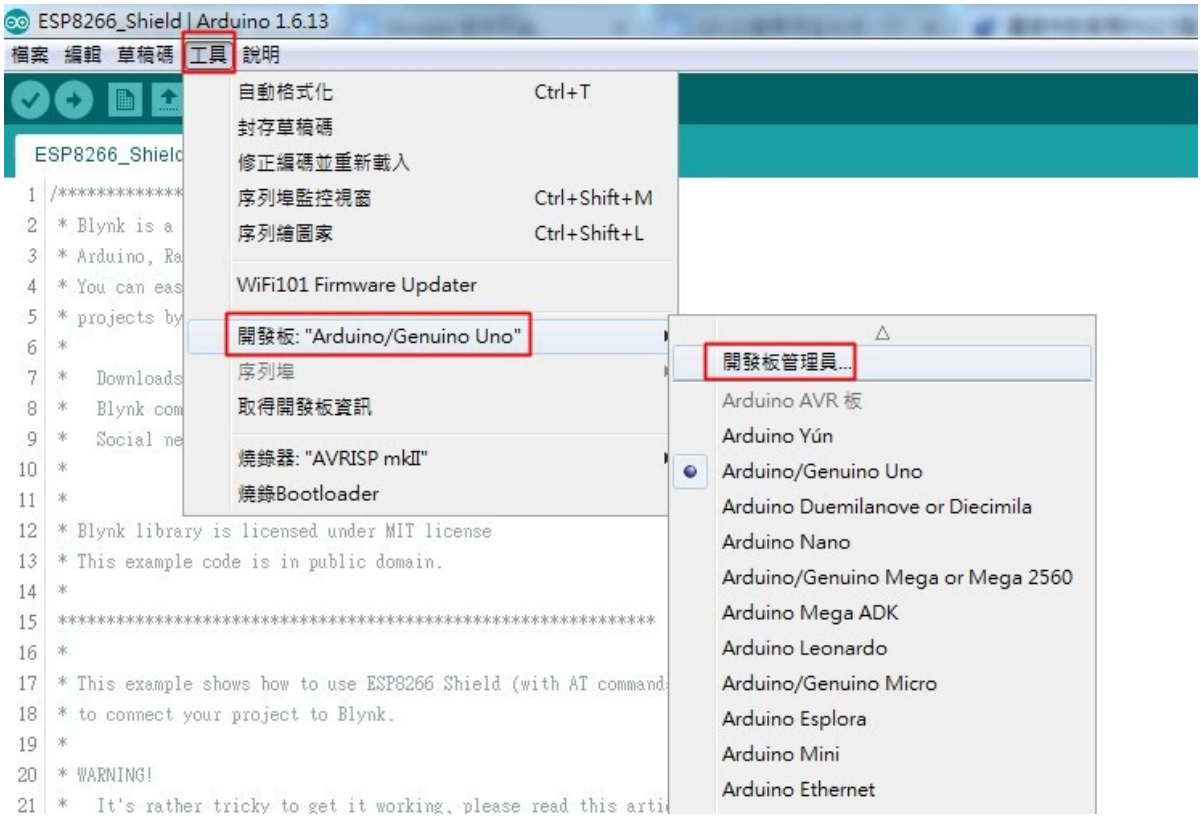
安裝硬件包後，直接用Arduino IDE 開發，跟Arduino UNO 一樣操作最便宜的WiFi Arduino 板.

一、Arduino的安裝說明：

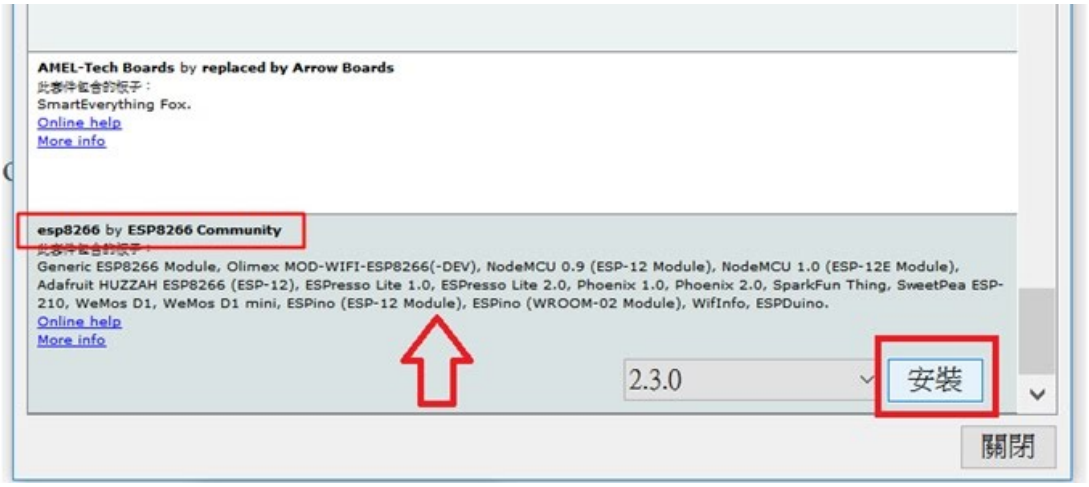
- 打開ARDUINO軟體,檔案>>偏好設定,在下方額外的開發板管理員網址:輸入
  http://arduino.esp8266.com/stable/package_esp8266com_index.json



- 接著到工具>>開發板>>開發板管理員

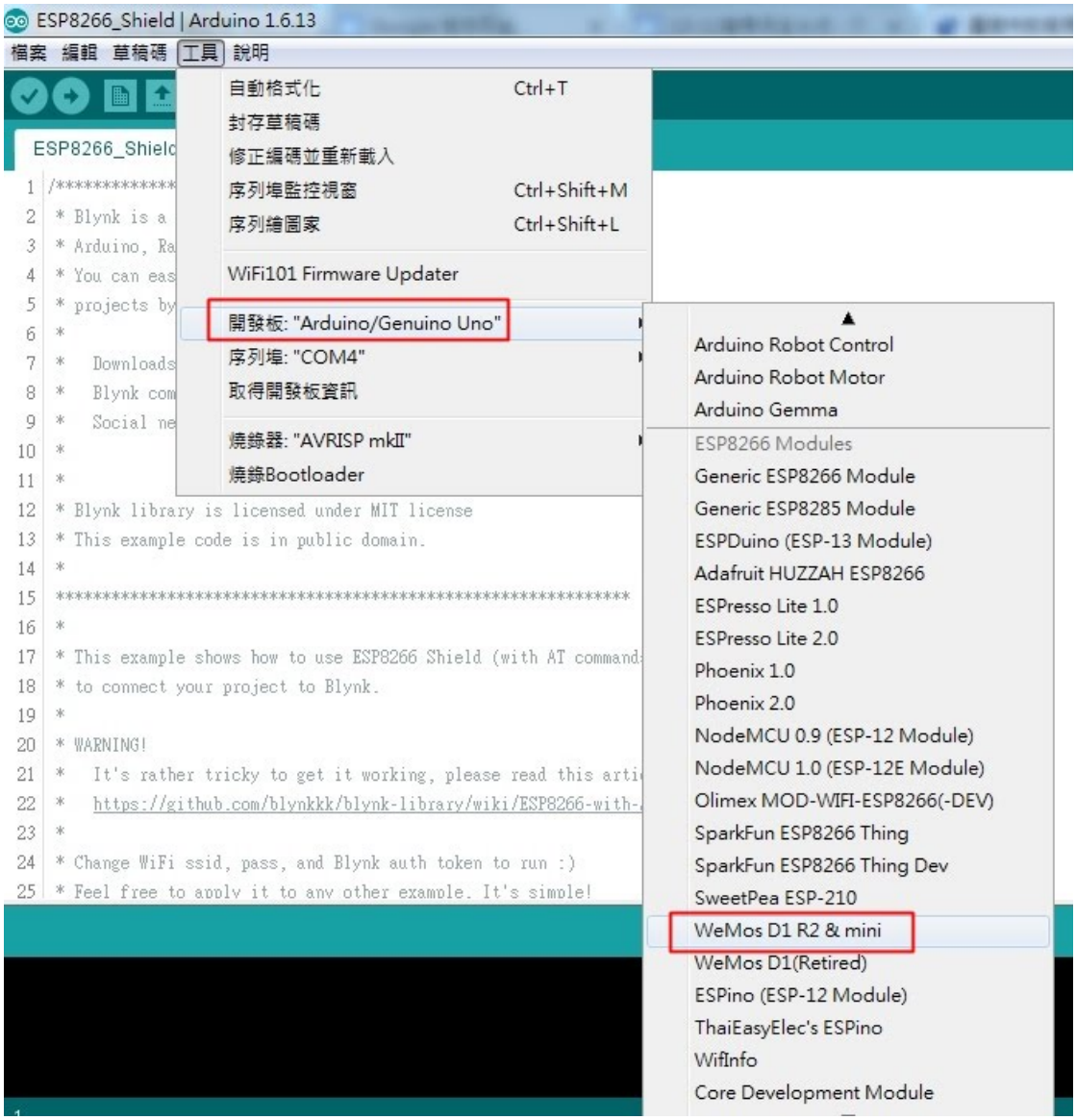


- 拉到最下一欄會多一項ESP8266,需在欄內點一下才會出現安裝訊息



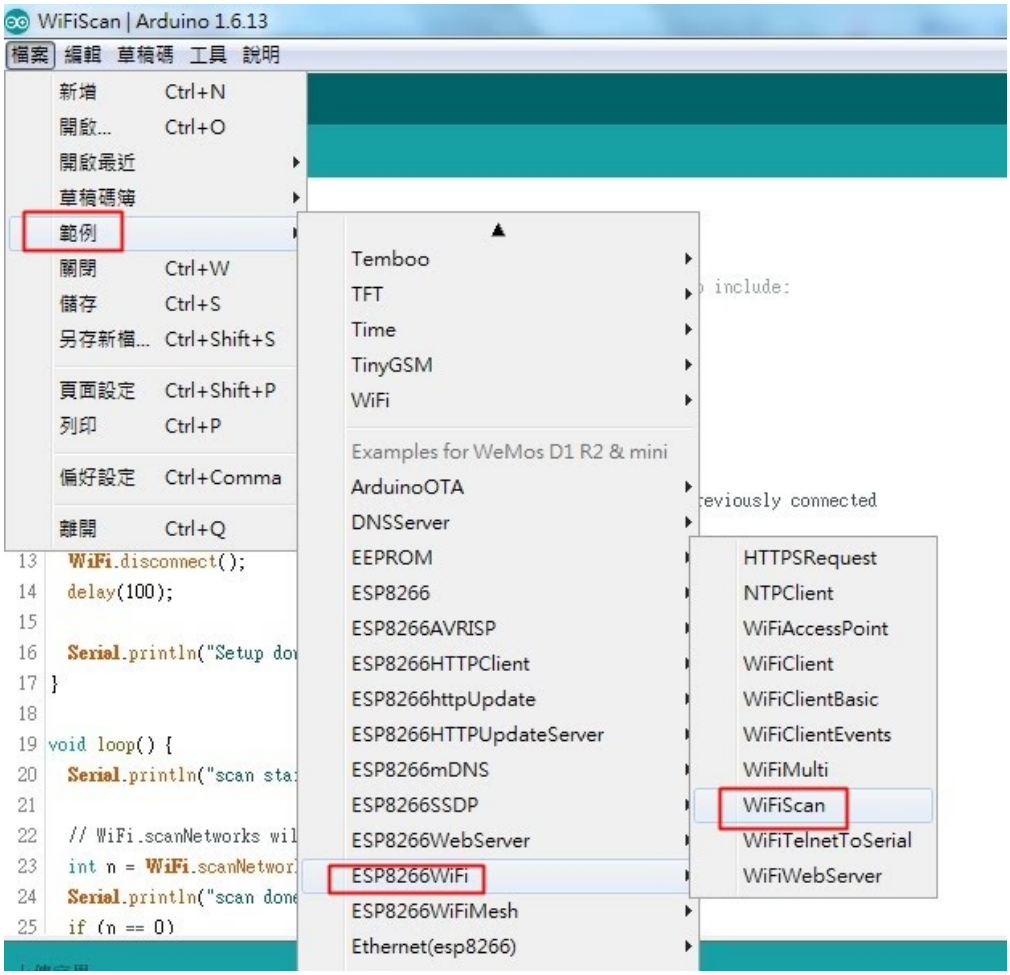
- 安裝好後會顯示INSTALLED

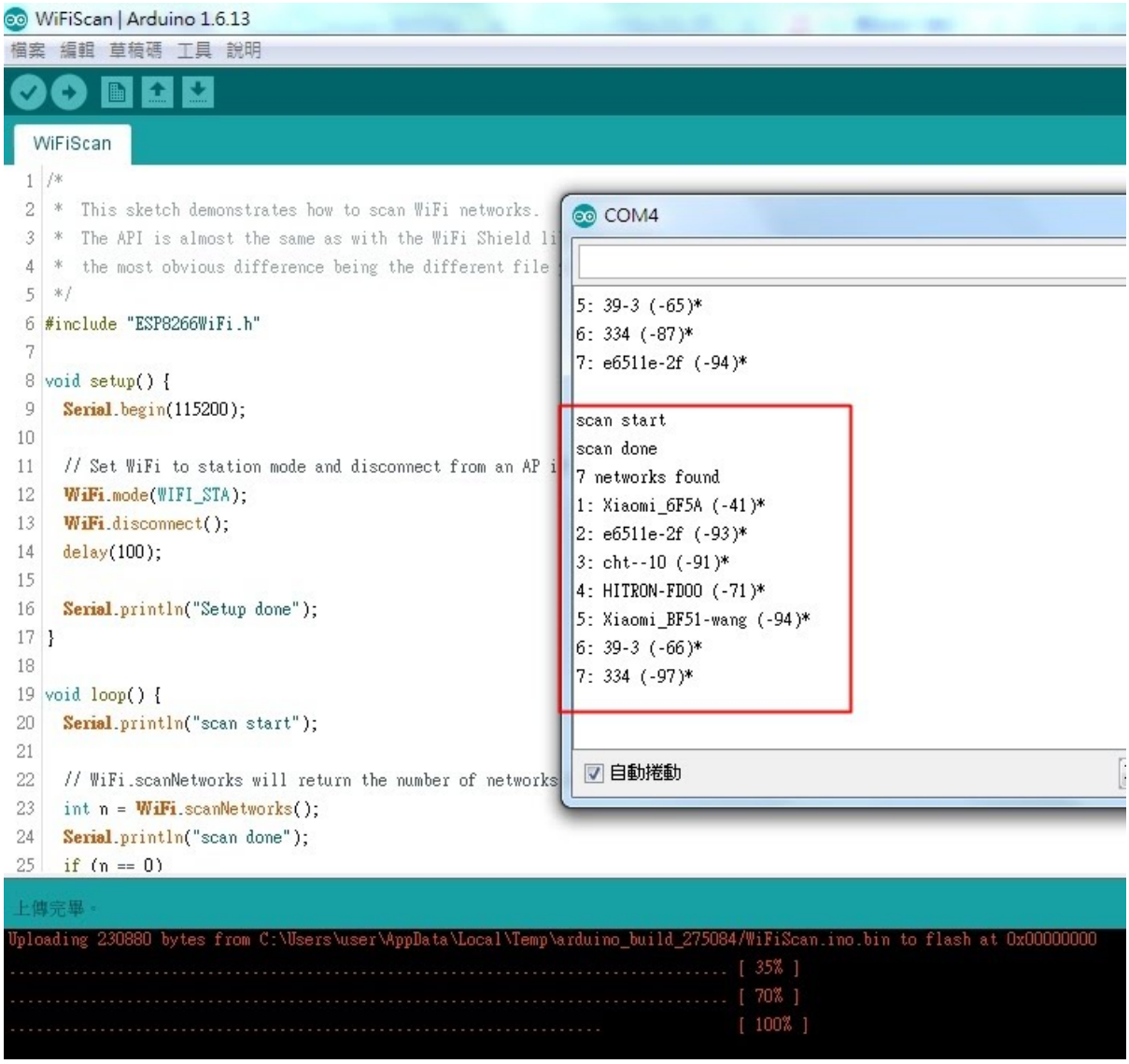
- 接下來到工具>>開發板>>選 WeMos D1 R2 & mini



- 板子的相關資訊

- 找一WiFiScan來測試一下


WiFiScan | Arduino 1.6.13
檔案 編輯 草稿碼 工具 說明
新增 Ctrl+N
開啟... Ctrl+O
開啟最近
草稿碼簿
範例
關閉 Ctrl+W
儲存 Ctrl+S
另存新檔... Ctrl+Shift+S
頁面設定 Ctrl+Shift+P
列印 Ctrl+P
偏好設定 Ctrl+Comma
離開 Ctrl+Q
Temboo
TFT
Time
TinyGSM
WiFi
Examples for WeMos D1 R2 & mini
ArduinoOTA
DNSServer
EEPROM
ESP8266
ESP8266AVRISP
ESP8266HTTPClient
ESP8266httpUpdate
ESP8266HTTPUpdateServer
ESP8266mDNS
ESP8266SSDP
ESP8266WebServer
ESP8266WiFi
ESP8266WiFiMesh
Ethernet(esp8266)
HTTPSRequest
NTPClient
WiFiAccessPoint
WiFiClient
WiFiClientBasic
WiFiClientEvents
WiFiMulti
WiFiScan
WiFiTelnetToSerial
WiFiWebServer
include:
reviously connected
13 WiFi.disconnect();
14 delay(100);
15
16 Serial.println("Setup do
17 }
18
19 void loop() {
20 Serial.println("scan sta
21
22 // WiFi.scanNetworks wil
23 int n = WiFi.scanNetwor
24 Serial.println("scan done
25 if (n == 0)



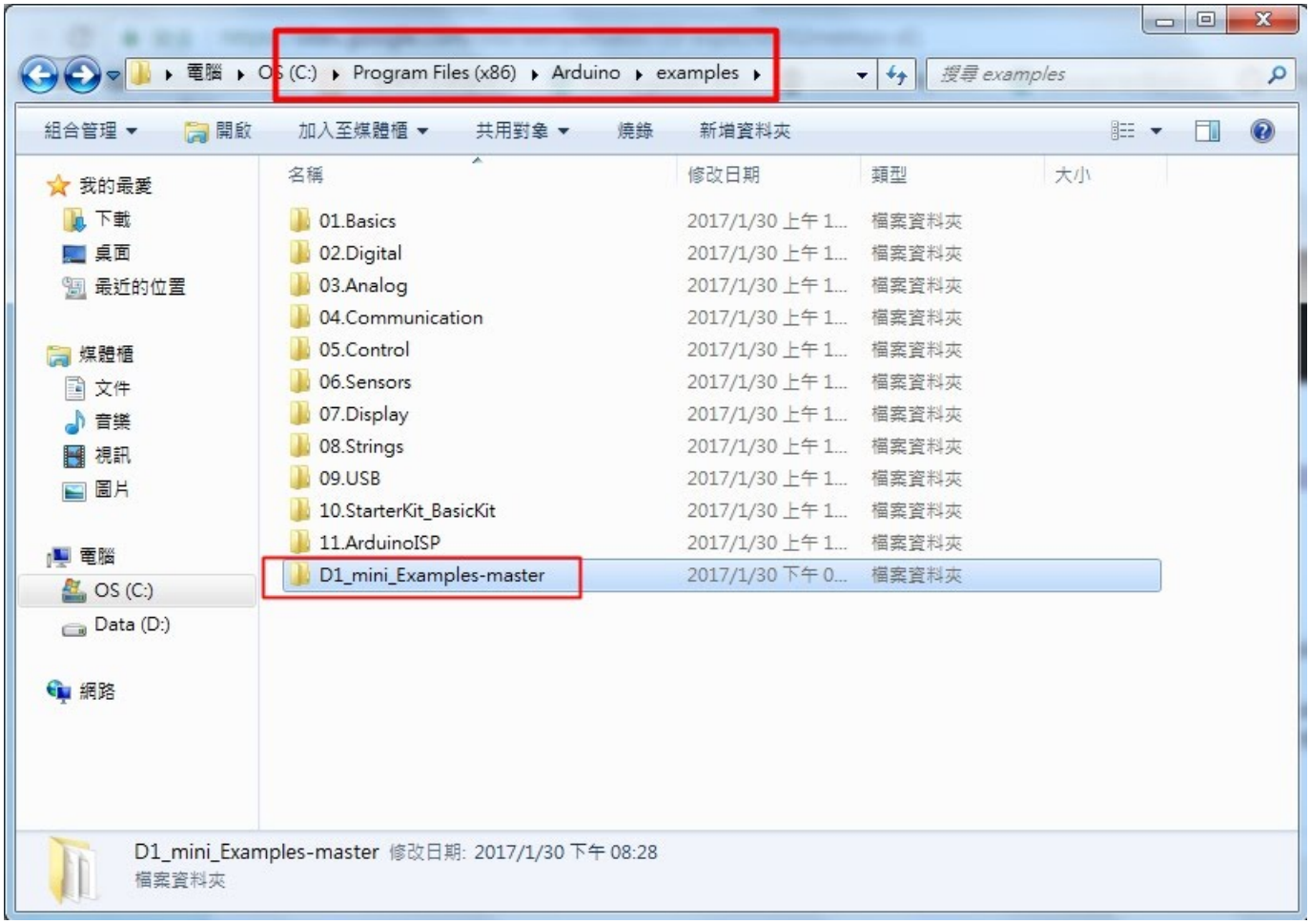
- 測試成功

二、下載WeMos範例檔：取自http://www.instructables.com/id/THE-2016-SUPER-NOOB-FRIENDLY-WAY-Control-an-Arduin/?ALLSTEPS

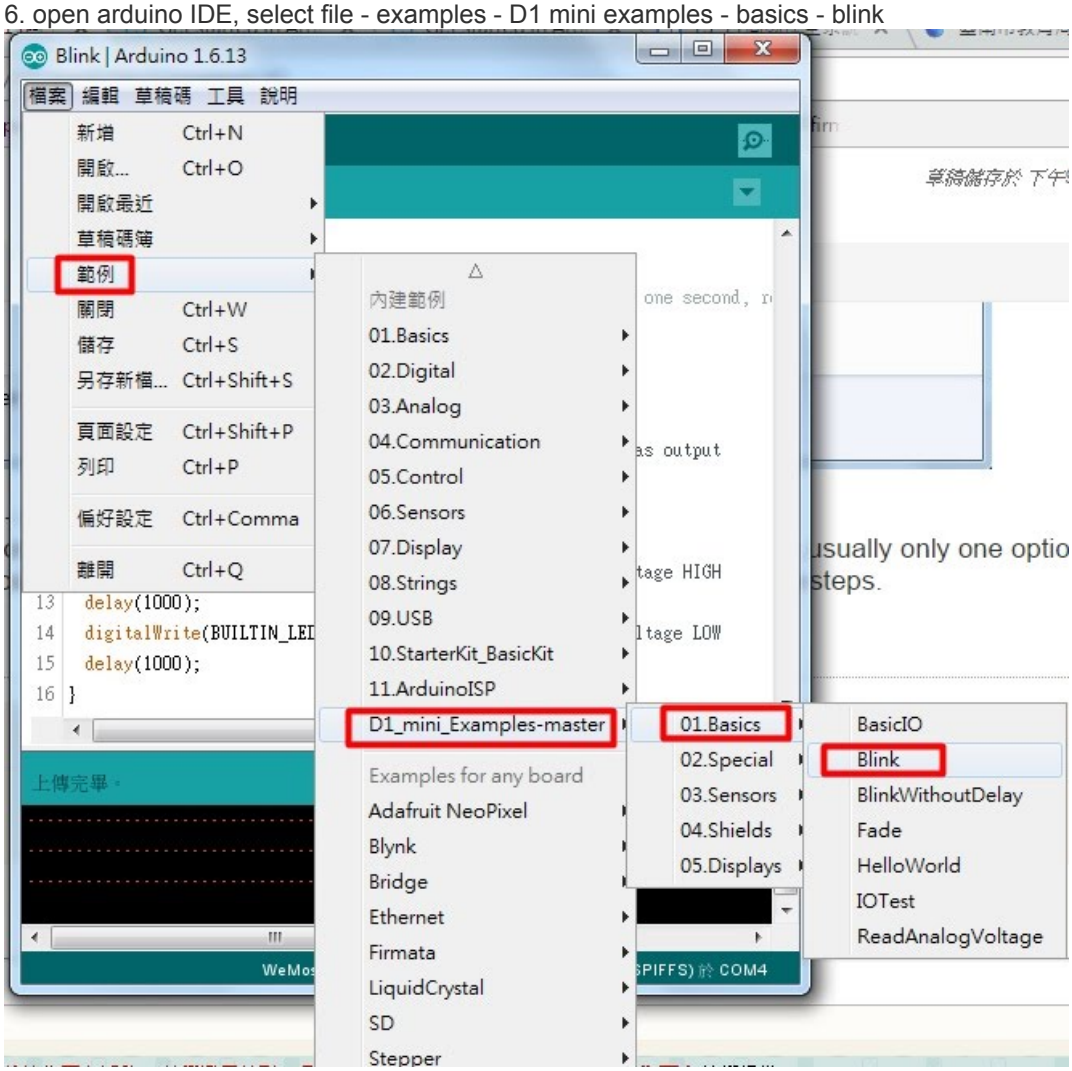
- 3. download the wemos D1 example sketches

  from https://github.com/wemos/D1_mini_Examples/archive/...

  4. Unzip the downloaded file
  5. Copy all files in your arduino examples directory: (usually C:\Program Files (x86)\Arduino\examples)



6. open arduino IDE, select file - examples - D1 mini examples - basics - blink



7. under tools, select your wemos board and the right com port (this is the usb port you are using, usually only one option will be available)
8. upload your sketch, if your board's led blinks, you did good, if not, you missed one of the above steps.
結果如下：