

[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>

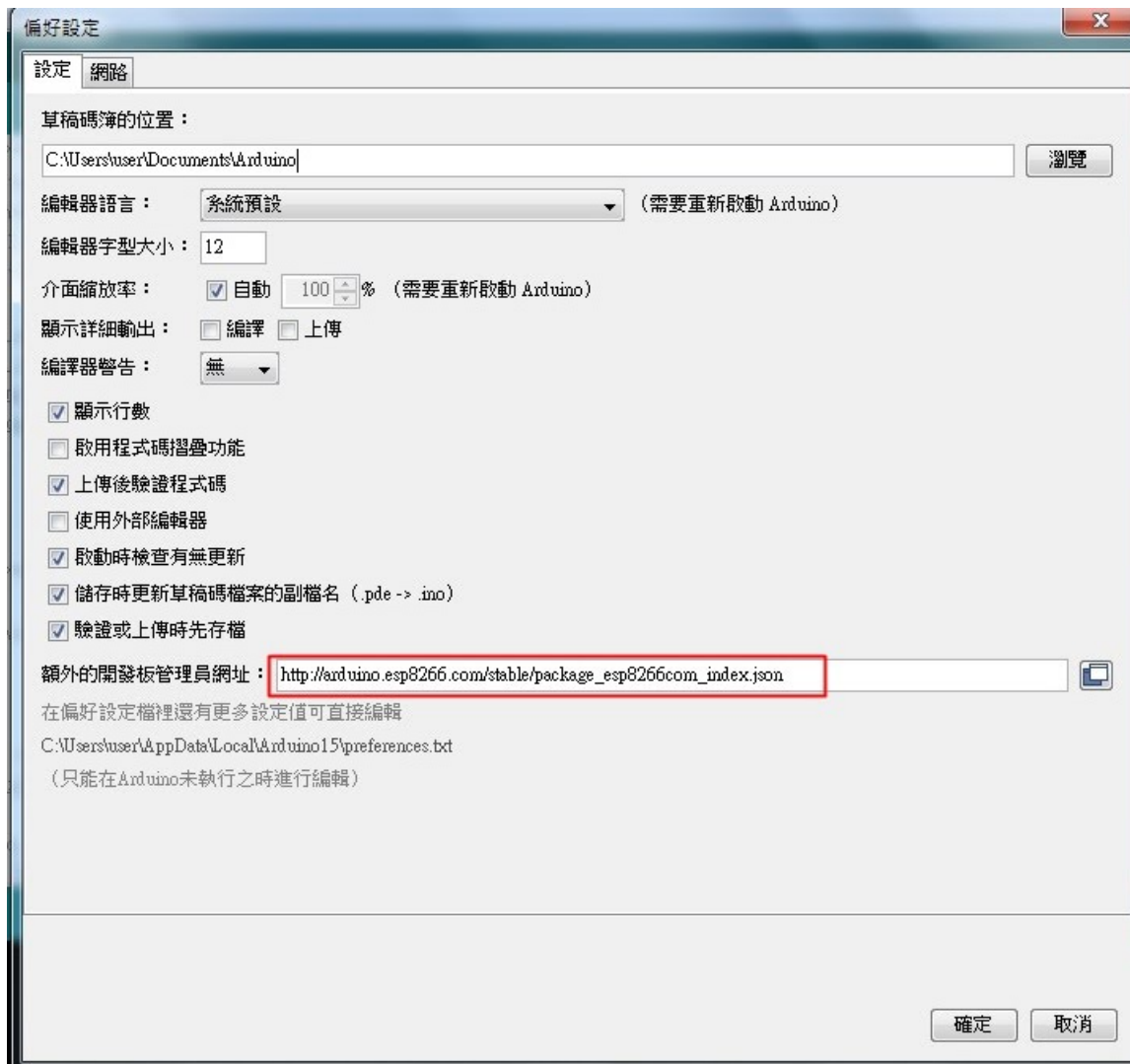
教學 <http://www.instructables.com/id/Programming-the-WeMos-Using-Arduino-SoftwareIDE/>

相關入門程式開發與說明 <https://github.com/wemos>

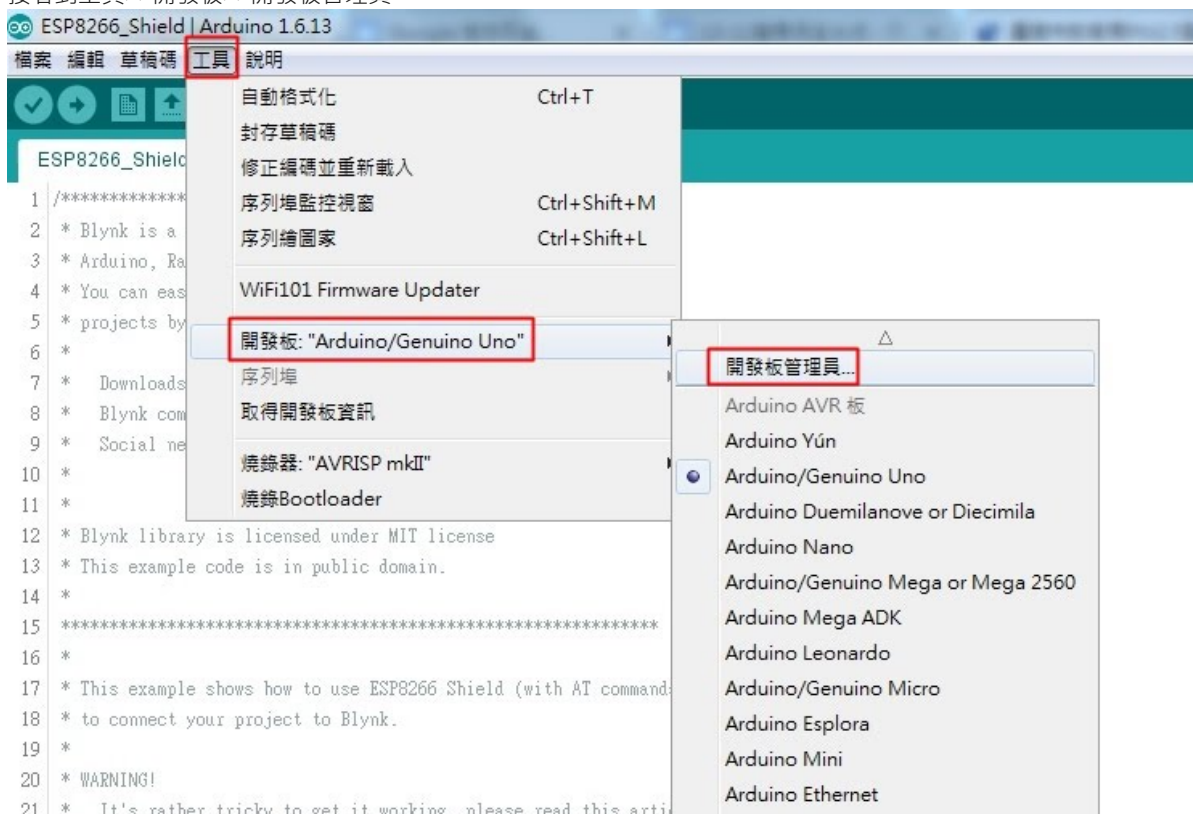
安裝硬件包後，直接用Arduino IDE 開發，跟Arduino UNO 一樣操作最便宜的WiFi Arduino 板。

#### 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](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



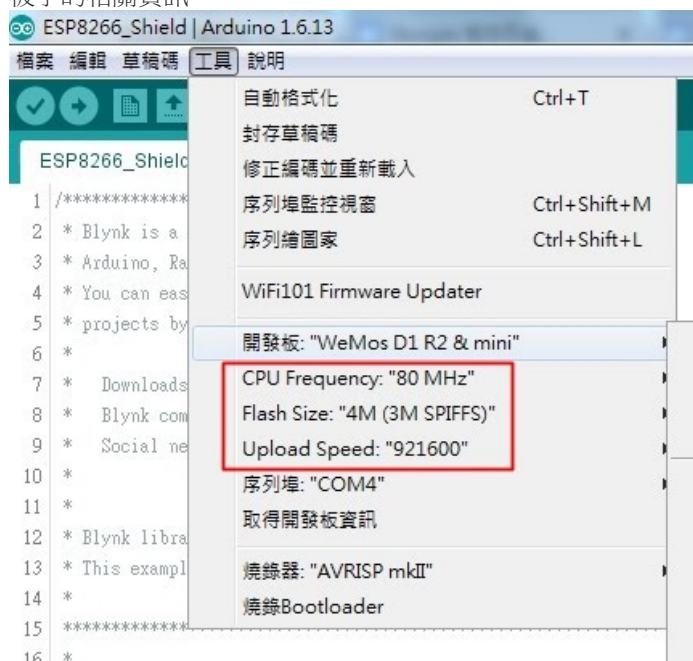
- 安裝好後會顯示INSTALLED



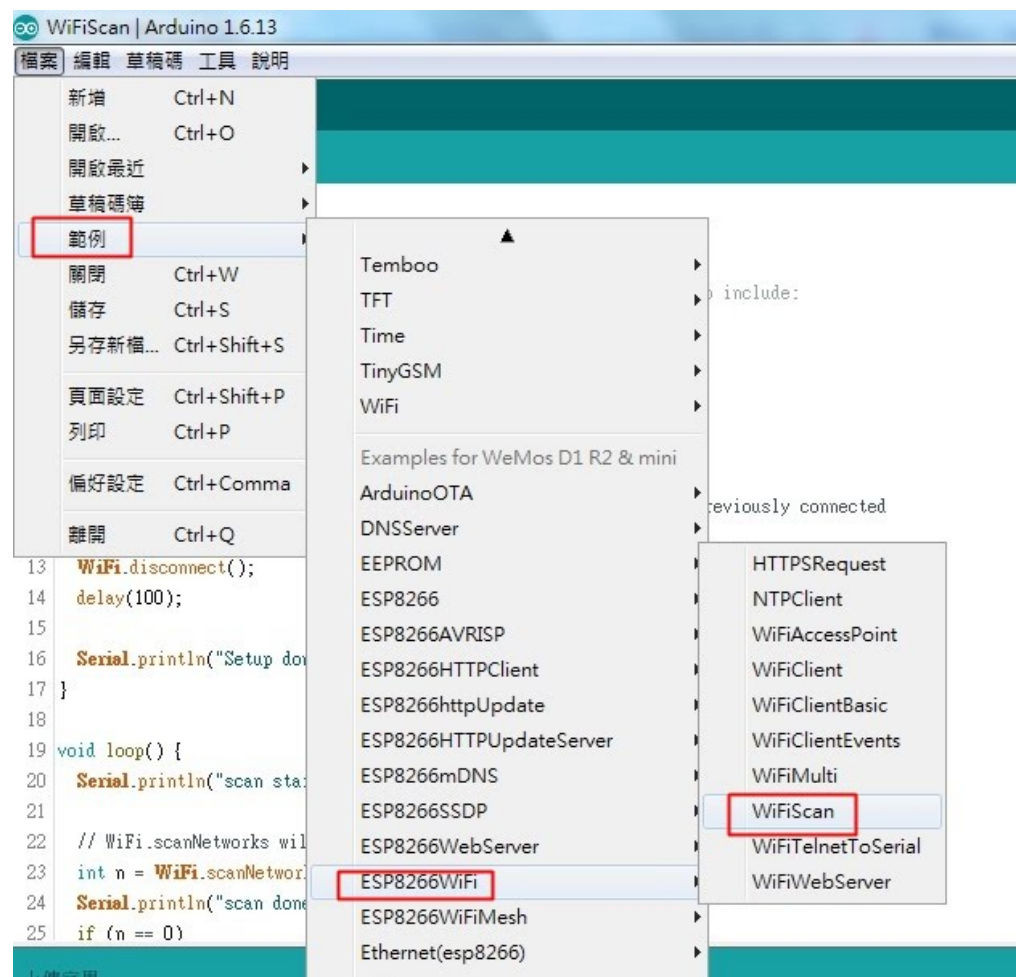
- 接下來到工具>>開發板>>選 WeMos D1 R2 & mini



- 板子的相關資訊



- 找一WiFiScan來測試一下





The screenshot shows the Arduino IDE interface with the 'WiFiScan' sketch loaded. The sketch code is visible in the main editor, and the serial monitor (COM4) displays the output of the program. A red box highlights the serial output text.

```

1 /*
2  * This sketch demonstrates how to scan WiFi networks.
3  * The API is almost the same as with the WiFi Shield library.
4  * The most obvious difference being the different file names.
5  */
6 #include "ESP8266WiFi.h"
7
8 void setup() {
9   Serial.begin(115200);
10
11   // Set WiFi to station mode and disconnect from an AP if it was previously connected.
12   WiFi.mode(WIFI_STA);
13   WiFi.disconnect();
14   delay(100);
15
16   Serial.println("Setup done");
17 }
18
19 void loop() {
20   Serial.println("scan start");
21
22   // WiFi.scanNetworks will return the number of networks found
23   int n = WiFi.scanNetworks();
24   Serial.println("scan done");
25   if (n == 0)

```

Serial Monitor Output (COM4):

```

5: 39-3 (-65)*
6: 334 (-87)*
7: e6511e-2f (-94)*

scan start
scan done
7 networks found
1: Xiaomi_6F5A (-41)*
2: e6511e-2f (-93)*
3: cht--10 (-91)*
4: HITRON-FD00 (-71)*
5: Xiaomi_BF51-wang (-94)*
6: 39-3 (-66)*
7: 334 (-97)*

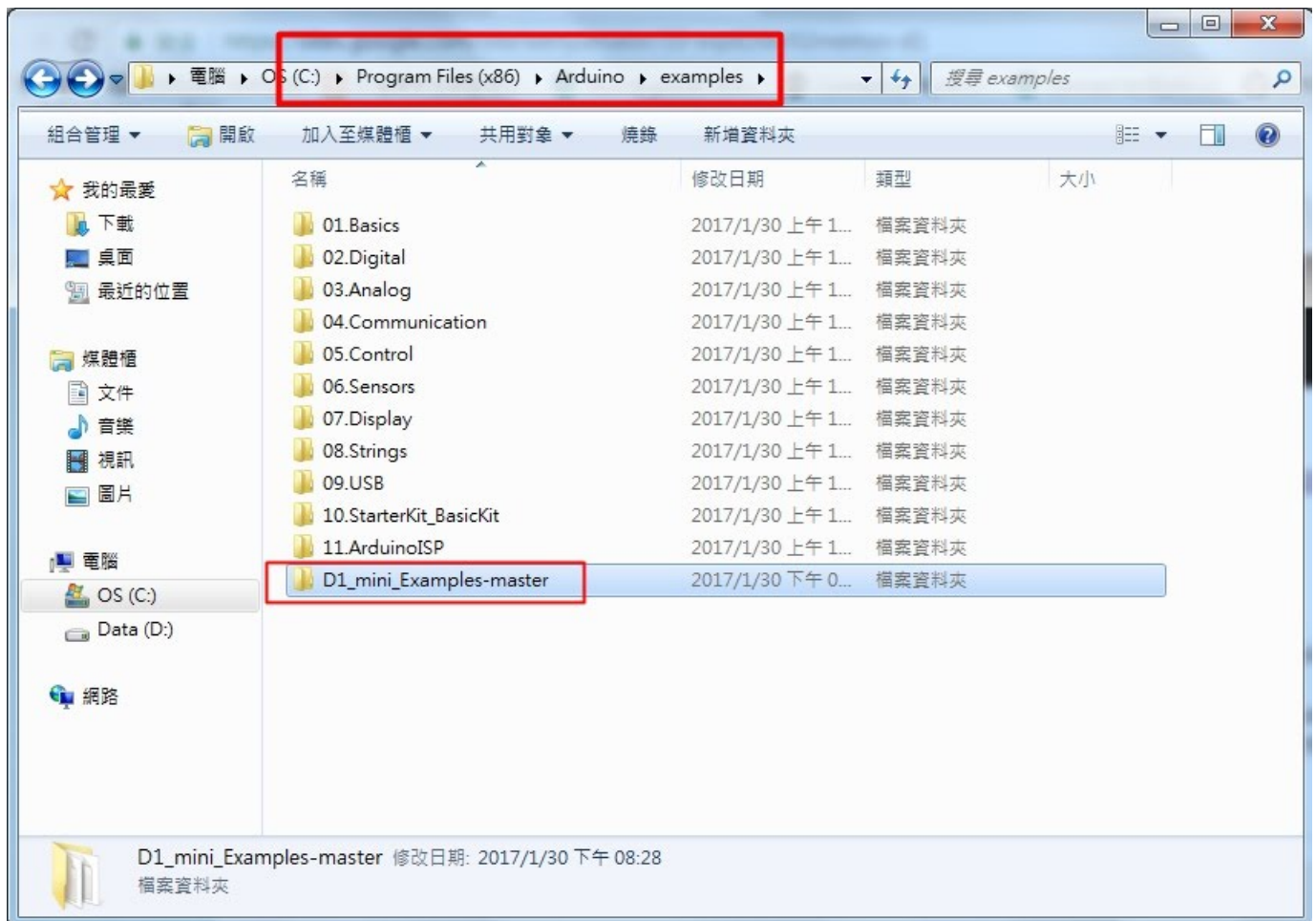
```

Upload progress bar shows 100% completion.

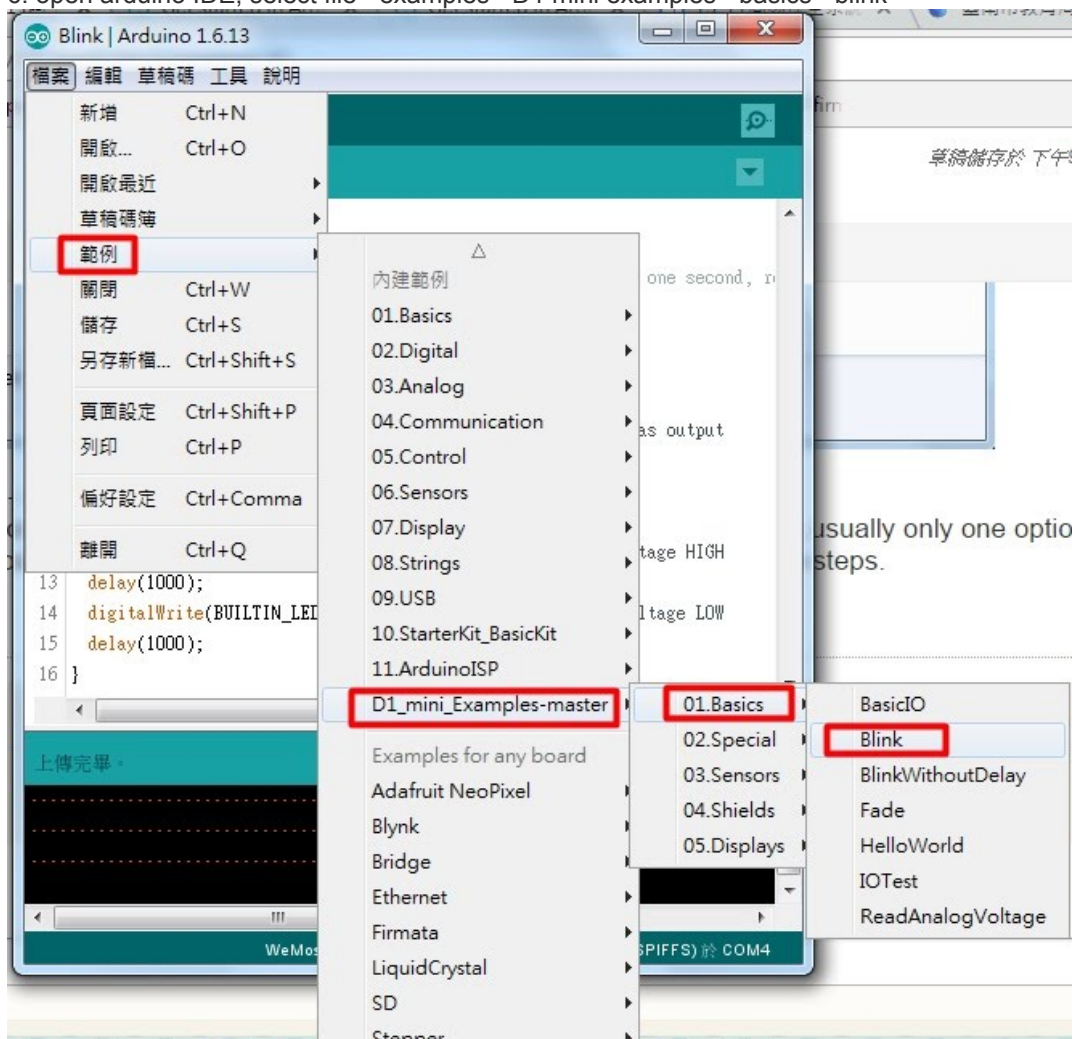
- 測試成功

## 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/...](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：

