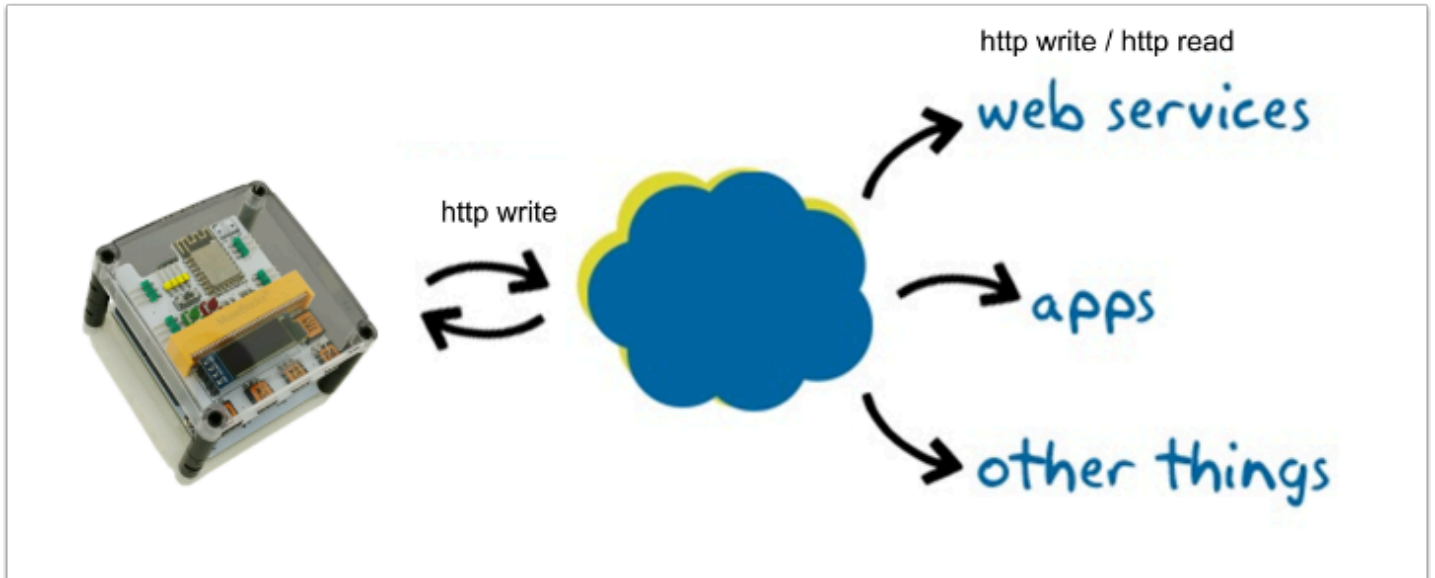


ThingSpeak使用教學

什麼是ThingSpeak?

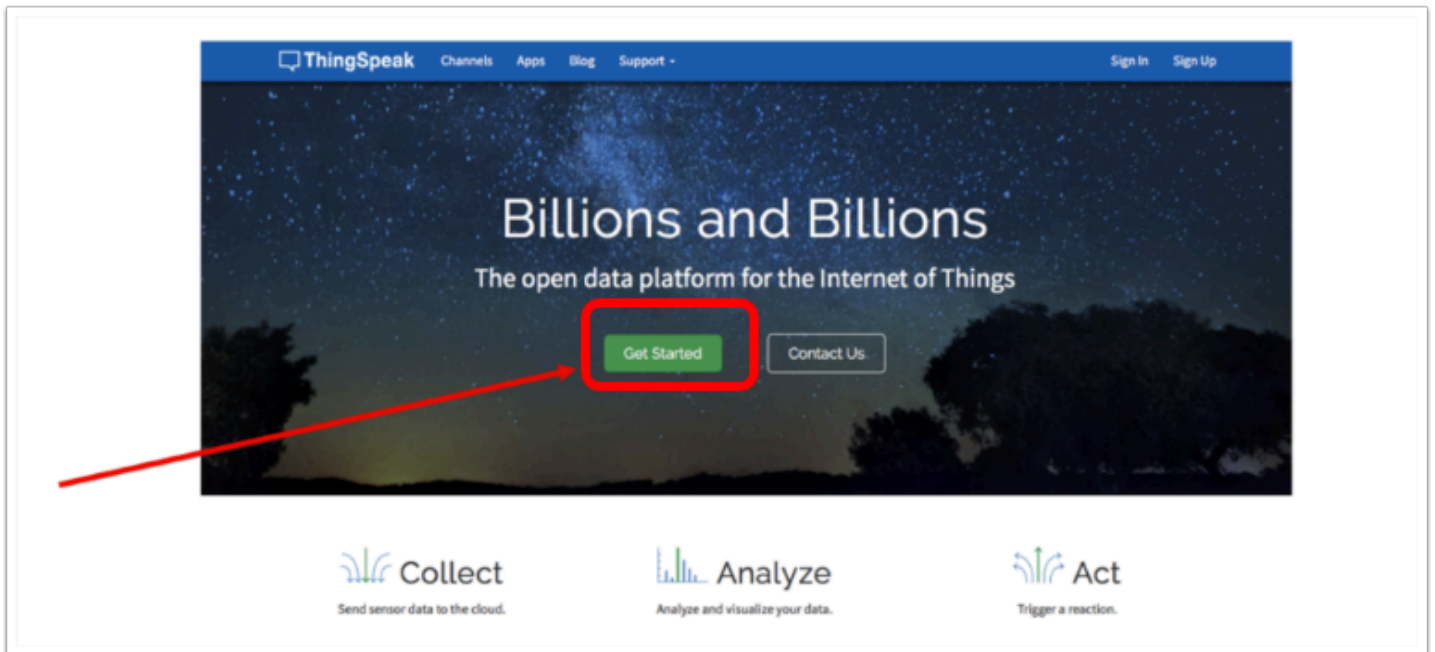
它是一個網上收集數據的平台,協助我們收集從傳感器(sensor)中得出的data,

例如 : analog read pin了多少次(收集人流數據),溫度等等...



Step 1. 確保你的micro:bit已經連上了wifi

Step 2. Go to ThingSpeak at <https://thingspeak.com> and signup.



Step 3. 註冊帳號

[Channels](#)
[Apps](#)
[Community](#)
[Support](#)

[Commercial Use](#)
[How to Buy](#)
[Sign In](#)
[Sign Up](#)

Sign up for ThingSpeak

It is free to sign up for ThingSpeak. Free accounts offer a fully functional experience on ThingSpeak with limits on certain functionality. Commercial users may sign up for a time-limited free evaluation. To send data faster to ThingSpeak or to send more data, consider our [paid license options](#) for commercial, academic, home and student usage. To start using ThingSpeak you must create a new MathWorks account, or, click cancel and log in using an existing MathWorks account.

Create MathWorks Account

Email Address

Missing required information

To access your organization's MATLAB license, use your school or work email.

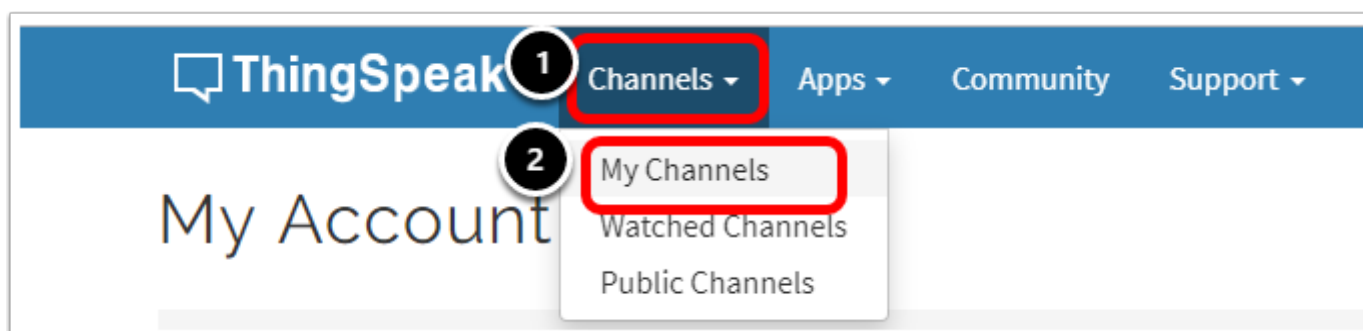
Location

United States

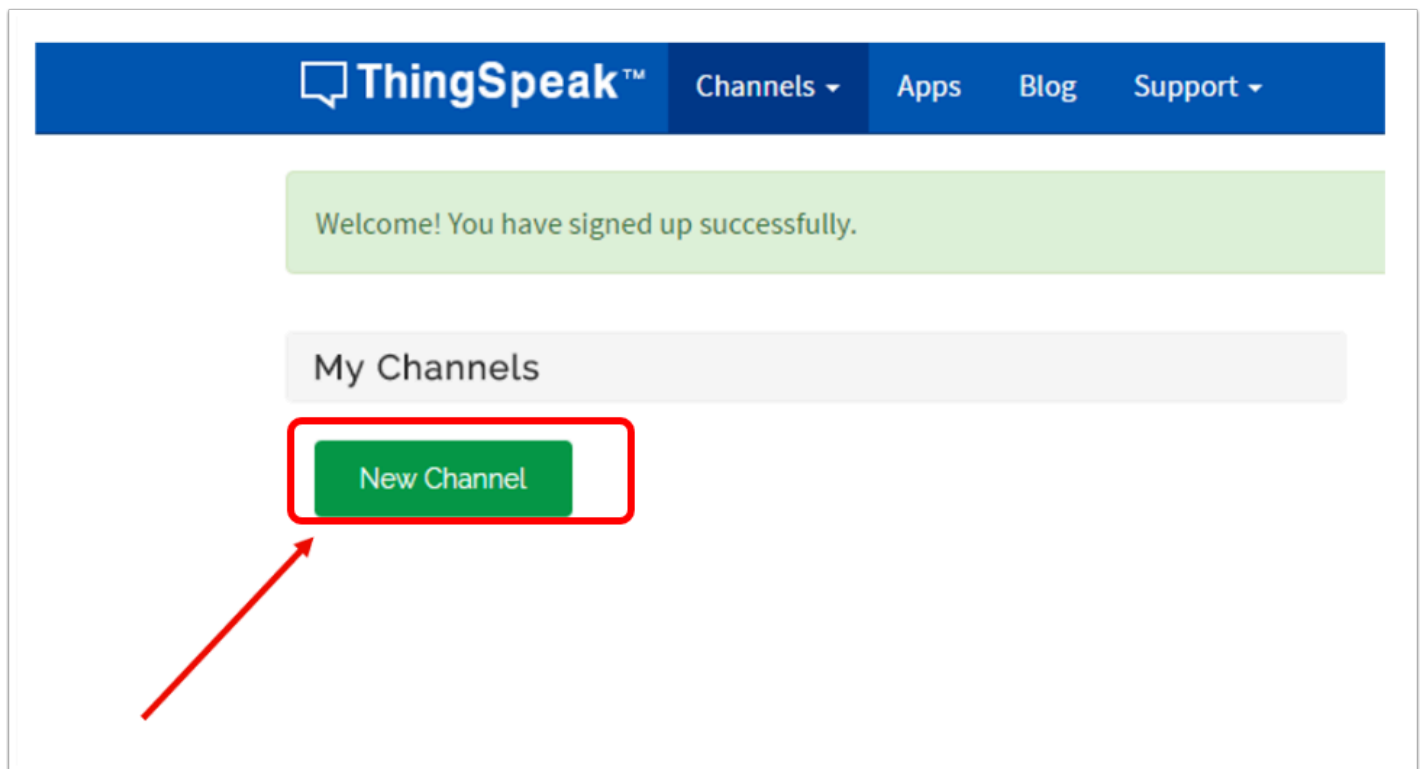
First Name

Last Name

Step 4. login後從網頁上方的Channels選取My Channels



Step 5. 選取New Channel



Step 6. 輸入Channel的名字,並加入Field來記錄數據.

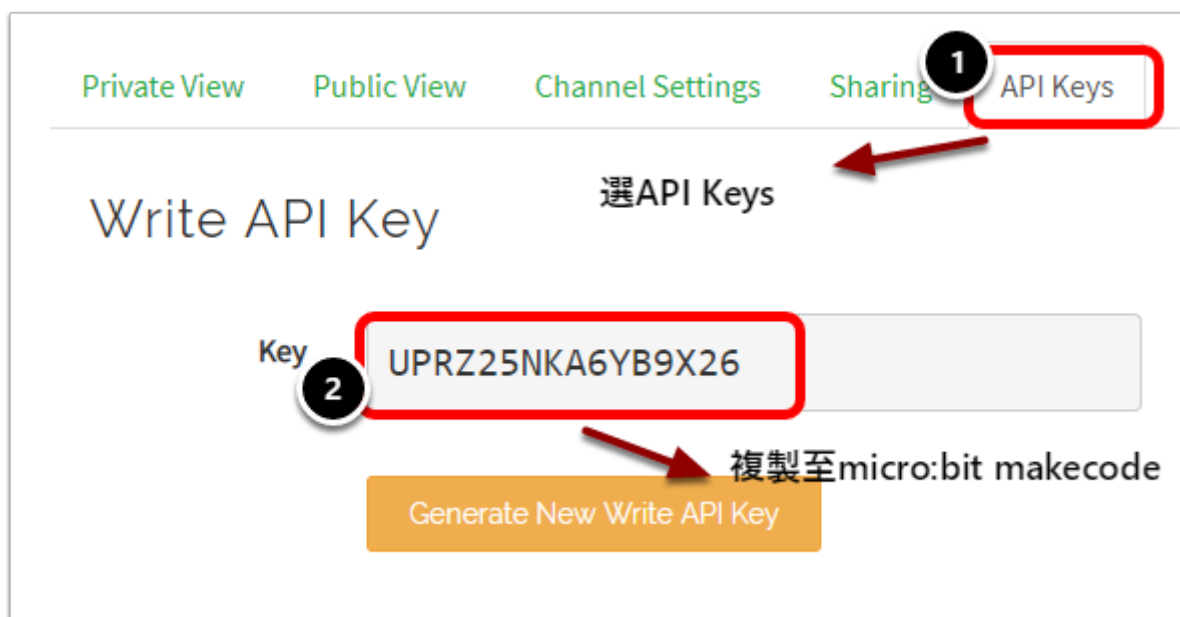
The image shows the "New Channel" form in the ThingSpeak interface. The form has a title "New Channel" at the top. Below the title are several input fields: "Name" (containing "IOT TESTING"), "Description" (empty), and four "Field" entries. "Field 1" is set to "Number" and has a checked checkbox next to it. "Field 2", "Field 3", and "Field 4" are currently empty and have unchecked checkboxes. The "Name" field and the "Field 1" dropdown are both highlighted with red rectangular boxes.

Step 7. 為了上載data到ThingSpeak的雲端上,我們需要把它assign到指定的field,因此我們需要到"**Data Import/Export**" 複製我們的API Key link.

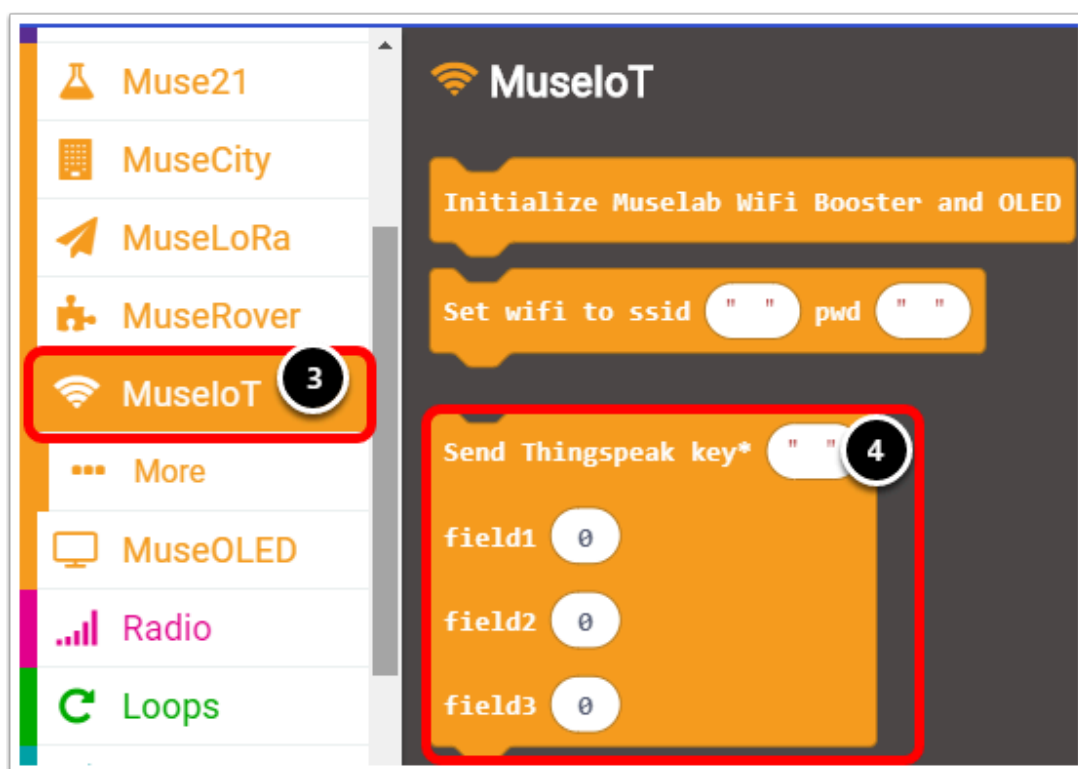
Step 8. 為了確保SETUP正確,我們可以把API link直接複製至browser address上. 如果setup正確的話,會出現一張ThingSpeak的Data Chart view.(如下圖)

因為我們還未設定以什麼形式表示數據,所以理應只會出現1個數字.

Step 9. 最後將API KEY 複製並貼至micro:bit的block上讓上傳你的data到ThingSpeak.



將API複製並配合以下的Blocks使用



例子1：當每按下microbit的Button B後, ThingSpeak Channel裡的field1會提升50



完成編程並下載至micro:bit後,按下micro:bit的Button B會看到thingspeak Uploading...OK.(如下圖)




Upload OK後返回ThingSpeak的Channel便可以查看收集到的Data

ThingSpeak **1** Channels ▾ Apps ▾ Community Support ▾

My Channels

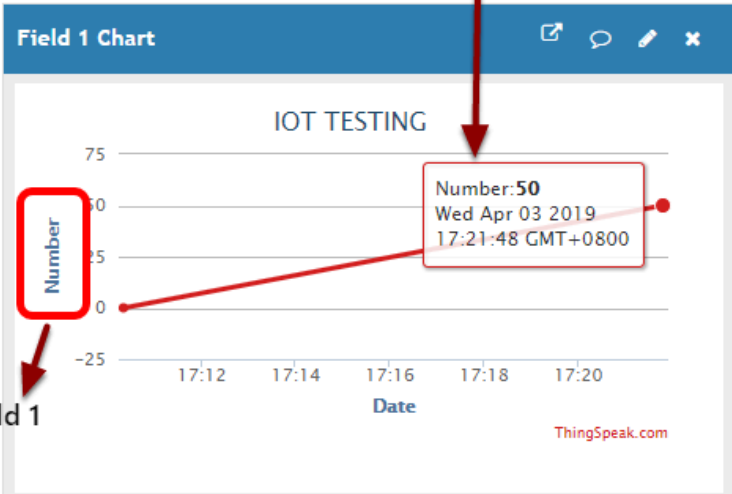
[New Channel](#)

Name	Created	Updated
2  找回剛才建立的Channel (IOT TESTING)	2018-04-16	2018-04-16 13:57
	2019-04-02	2019-04-02 04:30
	2019-04-03	2019-04-03 08:48
IOT TESTING Private Public Settings Sharing API Keys Data Import / Export	2019-04-03	2019-04-03 09:03

Channel Stats

Created: 18 minutes ago
 Last entry: less than a minute ago
 Entries: 2

我們按下Button B,field 1 的 Number就會顯示50



Field 1 Chart

IOT TESTING

Number: 50
Wed Apr 03 2019
17:21:48 GMT+0800

field 1

ThingSpeak.com