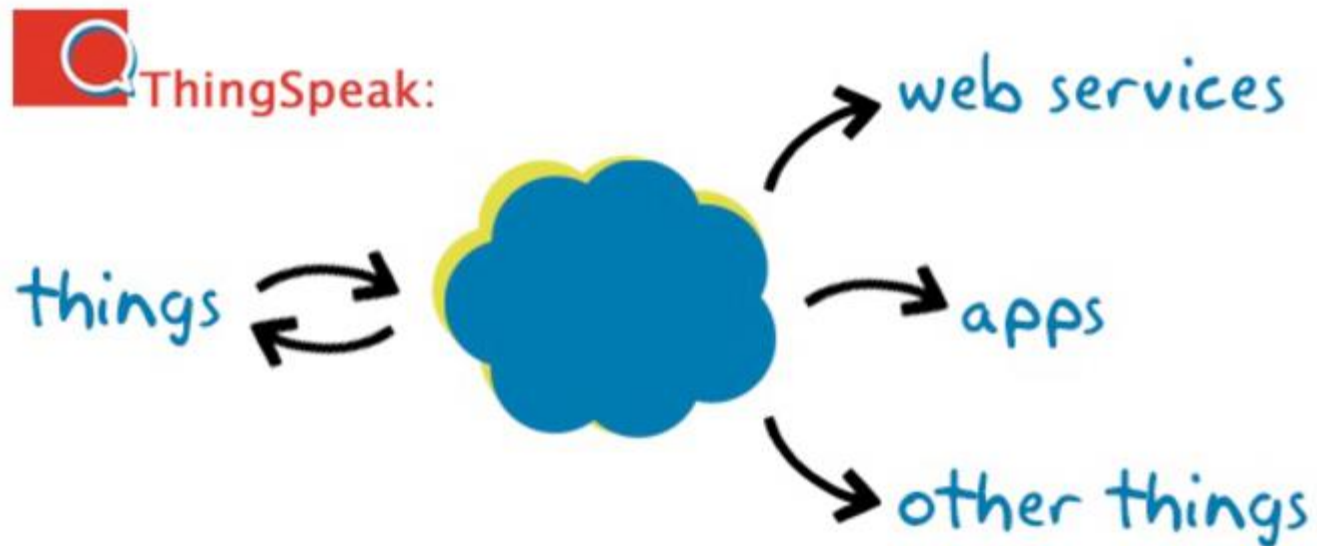




Introducción a ThingSpeak

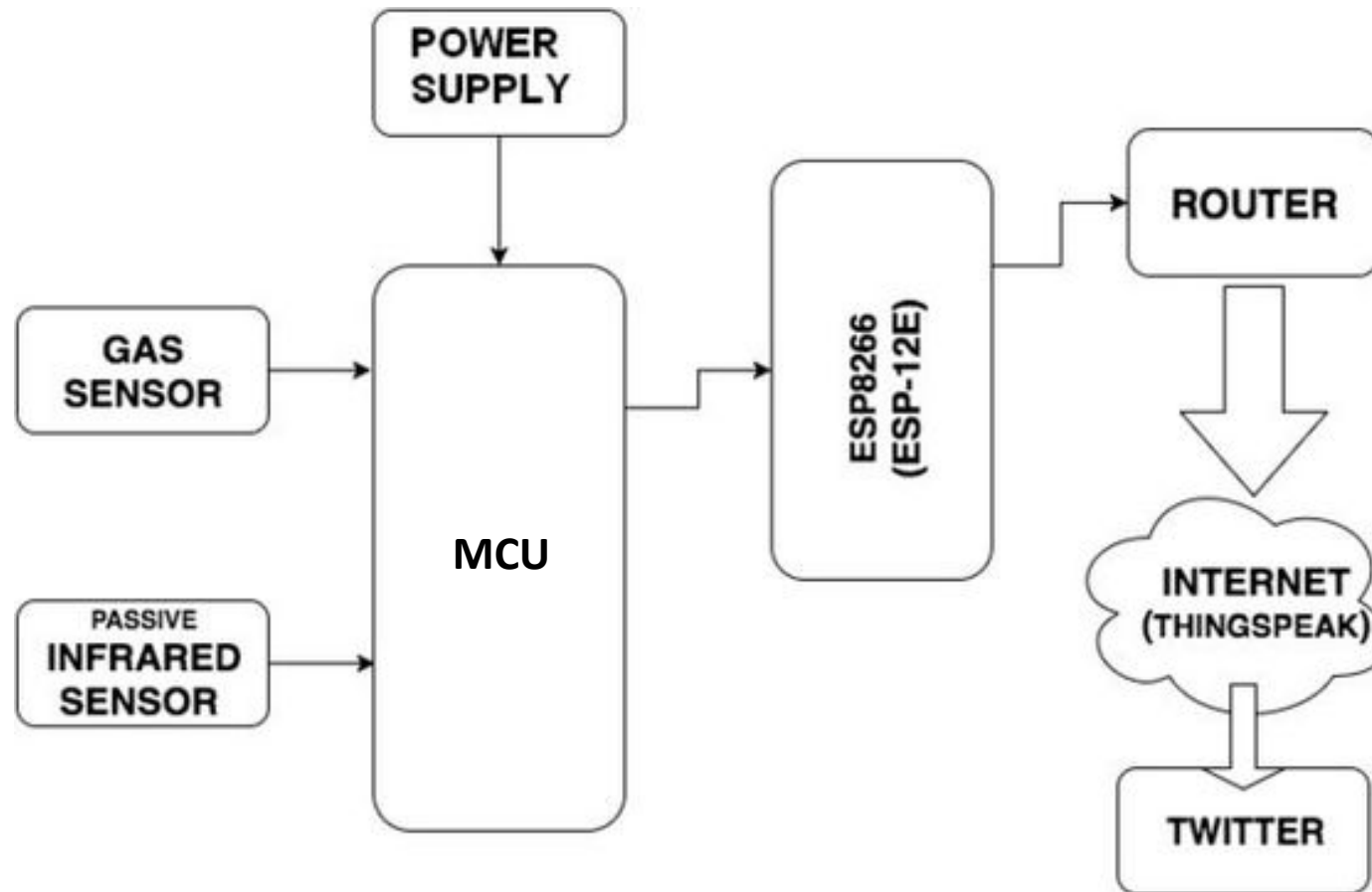


Que es ThingSpeak?



- ThingSpeak es una aplicación para Internet de las cosas (IoT).
- ThingSpeak tiene una API para recibir y enviar datos de las cosas que se encuentran conectadas a internet usando los protocolos HTTP y MQTT
- ThingSpeak permite mostrar información generada por sensores así como la geolocalización de los mismos.
- ThingSpeak permite vincular nuestros dispositivos a redes sociales

ThingSpeak: Ejemplos

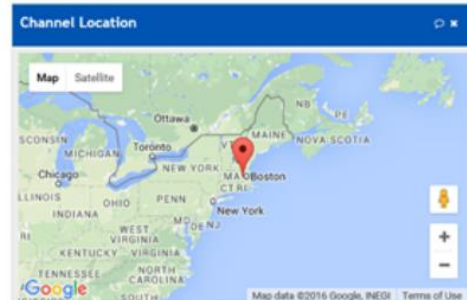
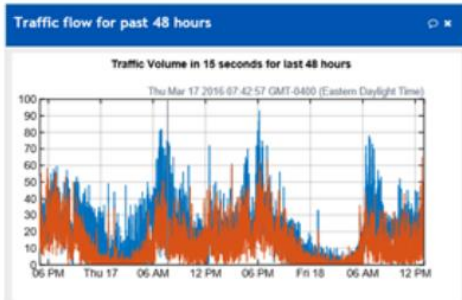


ThingSpeak: Ejemplos

ThingSpeak Channels Apps Blog Support Account

Channel Stats

Created 10 months ago
Updated about a minute ago
Last Entry about a minute ago
1179697 Entries



Webpage Screenshot

ThingSpeak Channels Apps Plugins Account Support Blog Sign Out

Temperature of room1

Field 1 Chart

Temperature

TempRoom1

Date

Channel Location

Map

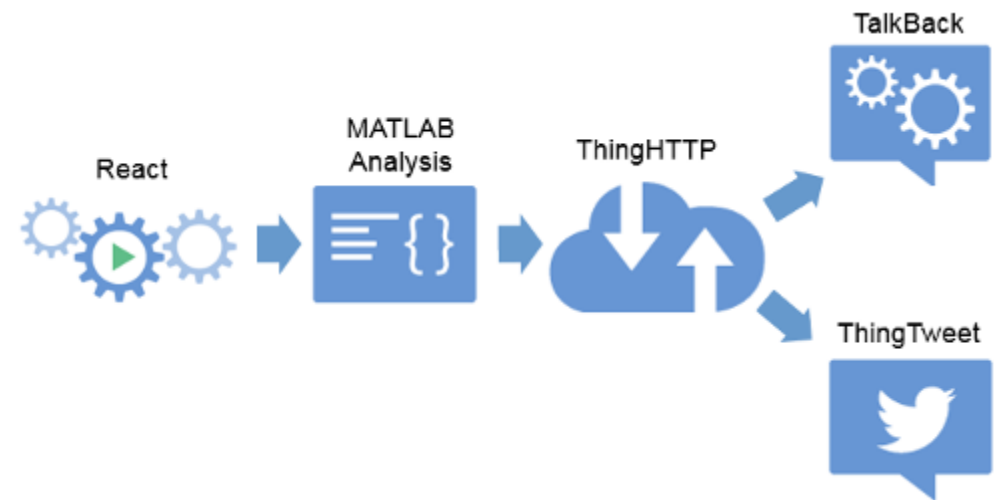
Temperature Chart (Plugin)

Temp.

27

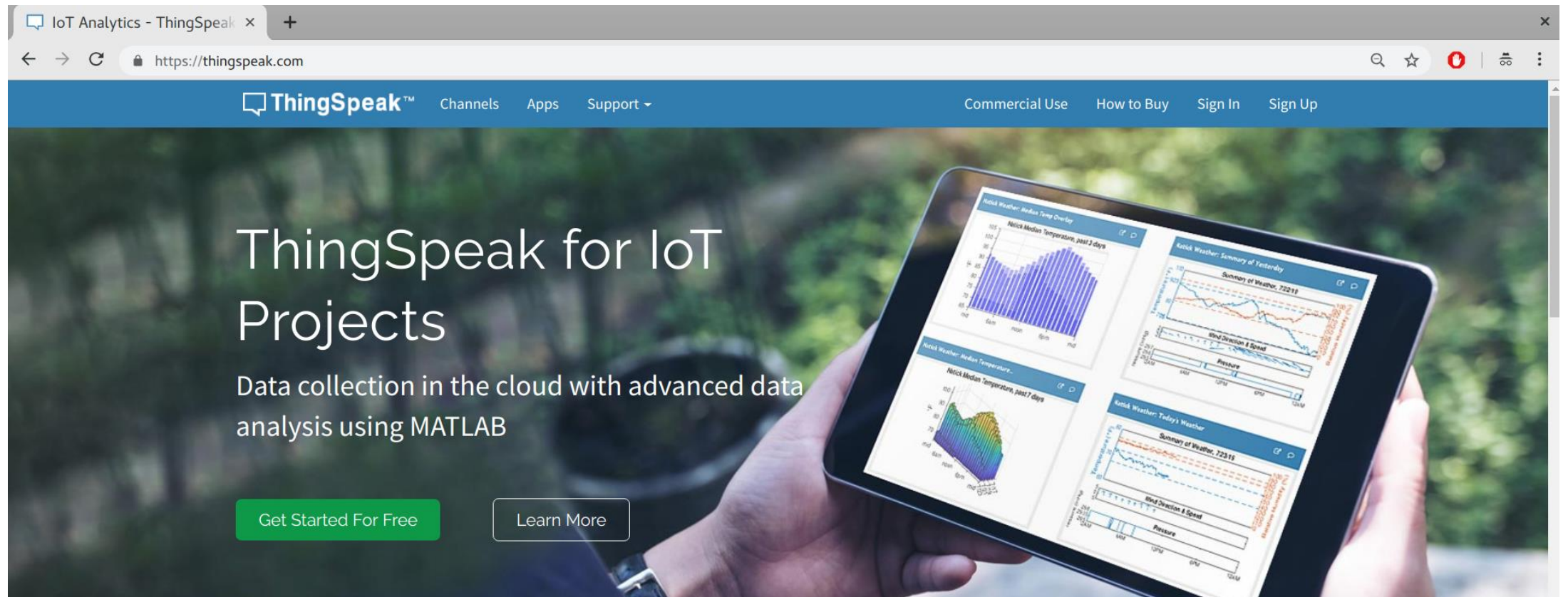
<https://thingspeak.com/channels/28392> Fri Apr 10 2015 21:38:57 GMT+0700 (SE Asia Standard Time)

ThingSpeak Apps



1-Create a ThingSpeak Account

<https://thingspeak.com/>



The screenshot shows the ThingSpeak website homepage. The browser's address bar displays 'https://thingspeak.com/'. The website's navigation bar includes the ThingSpeak logo, links for 'Channels', 'Apps', and 'Support', and buttons for 'Commercial Use', 'How to Buy', 'Sign In', and 'Sign Up'. The main content area features a large background image of a hand holding a tablet displaying various weather data visualizations. Overlaid on this image is the text 'ThingSpeak for IoT Projects' and 'Data collection in the cloud with advanced data analysis using MATLAB'. At the bottom of the main content area are two buttons: 'Get Started For Free' and 'Learn More'.

IoT Analytics - ThingSpeak x

← → ↻ https://thingspeak.com

ThingSpeak™ Channels Apps Support

Commercial Use How to Buy Sign In Sign Up

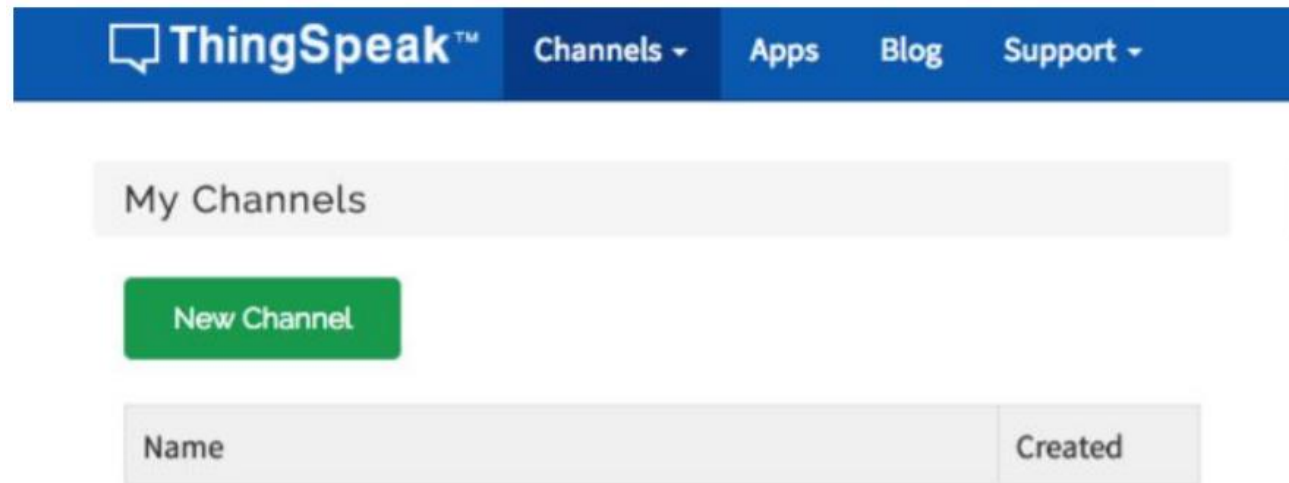
ThingSpeak for IoT Projects

Data collection in the cloud with advanced data analysis using MATLAB

Get Started For Free Learn More

2-Create a ThingSpeak Channel

The second thing you want to do, is to go to the Channels tab in the Mainview and then go to My Channels.



3-Create a New Channel

New Channel

Name	<input type="text" value="Canal de prueba"/>
Description	<input type="text"/>
Field 1	<input type="text" value="Temperatura"/> <input checked="" type="checkbox"/>
Field 2	<input type="text"/> <input type="checkbox"/>
Field 3	<input type="text"/> <input type="checkbox"/>
Field 4	<input type="text"/> <input type="checkbox"/>
Field 5	<input type="text"/> <input type="checkbox"/>
Field 6	<input type="text"/> <input type="checkbox"/>
Field 7	<input type="text"/> <input type="checkbox"/>
Field 8	<input type="text"/> <input type="checkbox"/>
<input type="button" value="Save Channel"/>	

Help

Channels store all the data that a ThingSpeak application collects. Each channel includes eight fields that can hold any type of data, plus three fields for location data and one for status data. Once you collect data in a channel, you can use ThingSpeak apps to analyze and visualize it.

Channel Settings

- **Channel Name:** Enter a unique name for the ThingSpeak channel.
- **Description:** Enter a description of the ThingSpeak channel.
- **Field#:** Check the box to enable the field, and enter a field name. Each ThingSpeak channel can have up to 8 fields.
- **Metadata:** Enter information about channel data, including JSON, XML, or CSV data.
- **Tags:** Enter keywords that identify the channel. Separate tags with commas.
- **Link to External Site:** If you have a website that contains information about your ThingSpeak channel, specify the URL.
- **Show Channel Location:**
 - **Latitude:** Specify the latitude position in decimal degrees. For example, the latitude of the city of London is 51.5072.
 - **Longitude:** Specify the longitude position in decimal degrees. For example, the longitude of the city of London is -0.1275.
 - **Elevation:** Specify the elevation position meters. For example, the elevation of the city of London is 35.052.

4- New Channel is Ready to use

[Private View](#) [Public View](#) [Channel Settings](#) [Sharing](#) [API Keys](#) [Data Import / Export](#)

[+ Add Visualizations](#) [+ Add Widgets](#) [Export recent data](#) [MATLAB Analysis](#) [MATLAB Visualization](#)

Channel 3 of 3 < >

Channel Stats

Created: less than a minute ago

Entries: 0



5- API KEYS

Canal de prueba

Channel ID: 907243
Author: jacyby8266
Access: Private

Private View Public View Channel Settings Sharing API Keys

Write API Key

Key 2Q8QX5J7PDUSQD3F

Generate New Write API Key

Read API Keys

Key AU5DFNETF1C34OU9

Note

Save Note

Delete API Key

Generate New Read API Key

API Requests

Write a Channel Feed

```
GET https://api.thingspeak.com/update?api_key=2Q8QX5J7PDUSQD3F&field1=1
```

Read a Channel Feed

```
GET https://api.thingspeak.com/channels/907243/feeds.json?api_key=2Q8QX5J7PDUSQD3F
```

Read a Channel Field

```
GET https://api.thingspeak.com/channels/907243/fields/1.json?api_key=2Q8QX5J7PDUSQD3F
```

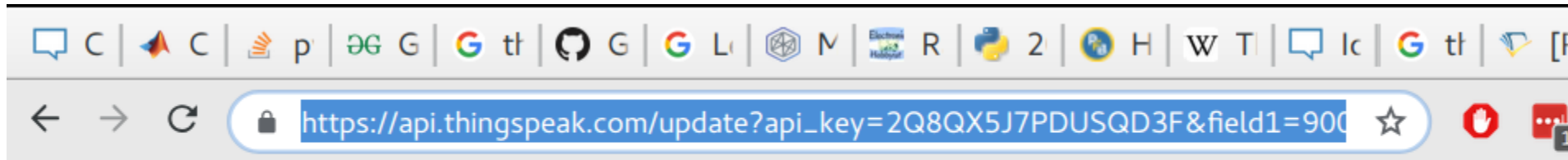
Read Channel Status Updates

```
GET https://api.thingspeak.com/channels/907243/status.json?api_key=2Q8QX5J7PDUSQD3F
```

Test Channel

https://api.thingspeak.com/update?api_key=2Q8QX5J7PDUSQD3F&field1=900

PASTE in your Browser



3

Check Result

Private View

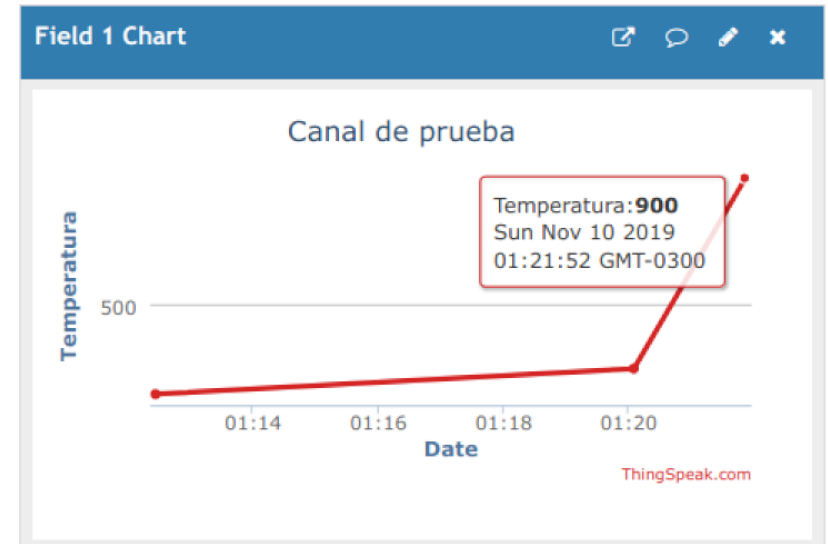
Public View

Channel Settings

Sharing

API Keys

Data Import / Export



Sample Python Script

```
import sys
import urllib

# Enter Your API key here
myAPI = 'DVDTVSXTQFY8QZXT'
# URL where we will send the data, Don't change it
baseURL = 'https://api.thingspeak.com/update?api_key=%s' % myAPI

# Sending the data to thingspeak
conn = urllib.urlopen(baseURL + '&field1=%s&field2=%s' % (300, 500))
print conn.read()
# Closing the connection
conn.close()
```

pos.py

python2 pos.py

