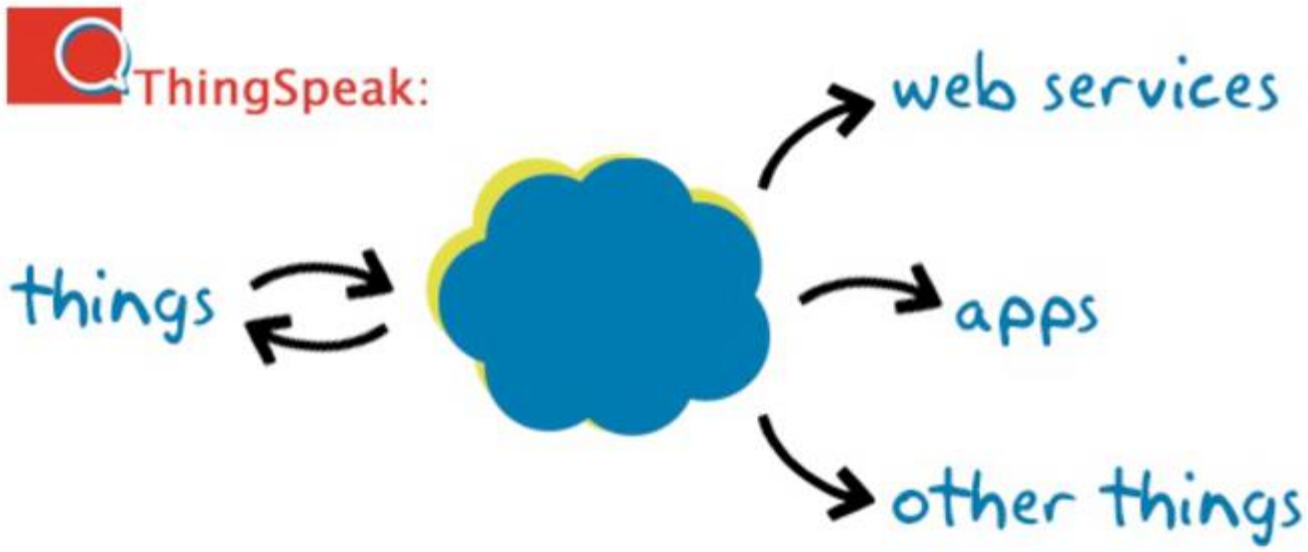
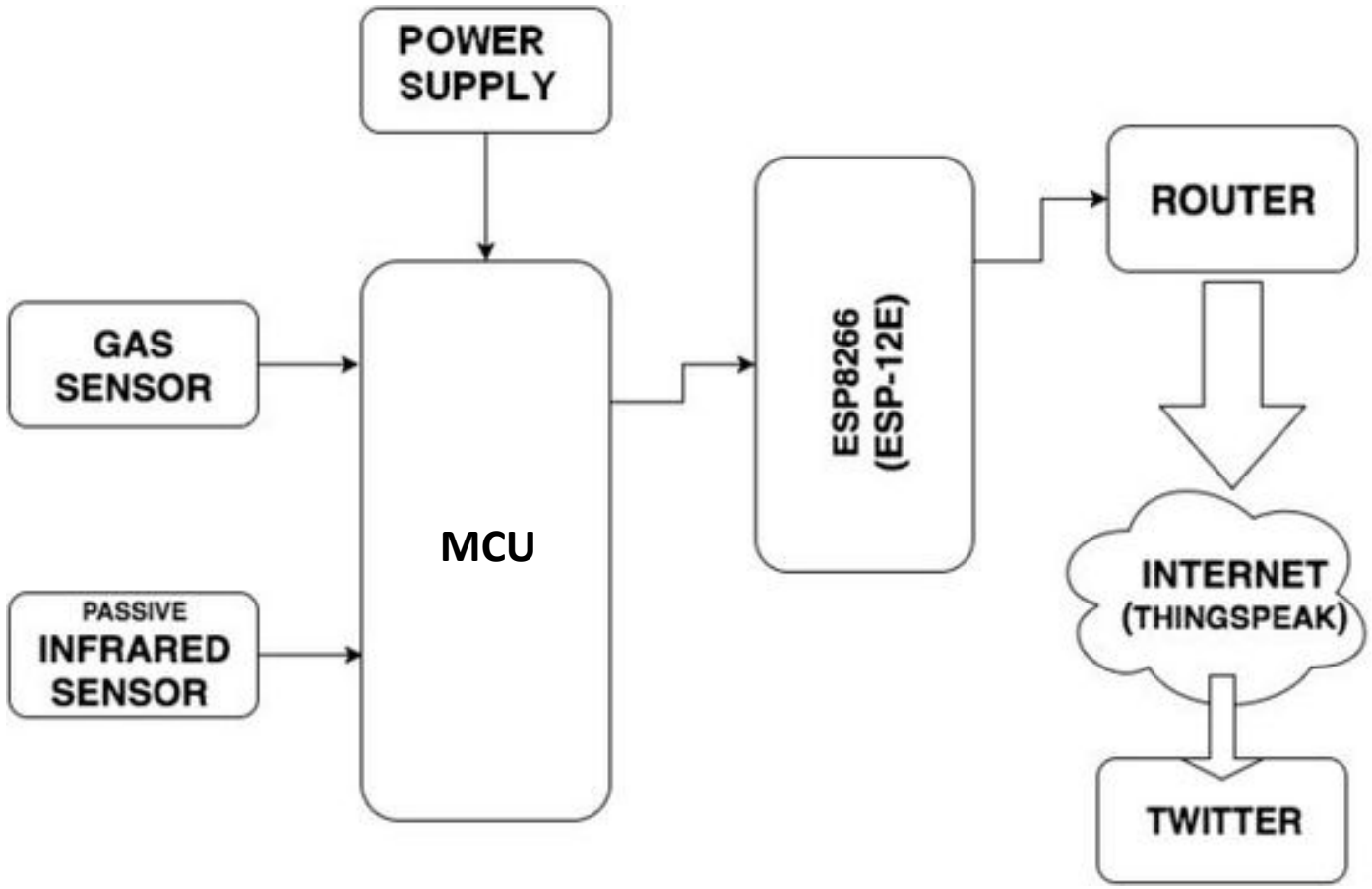
# Introducción a ThingSpeak



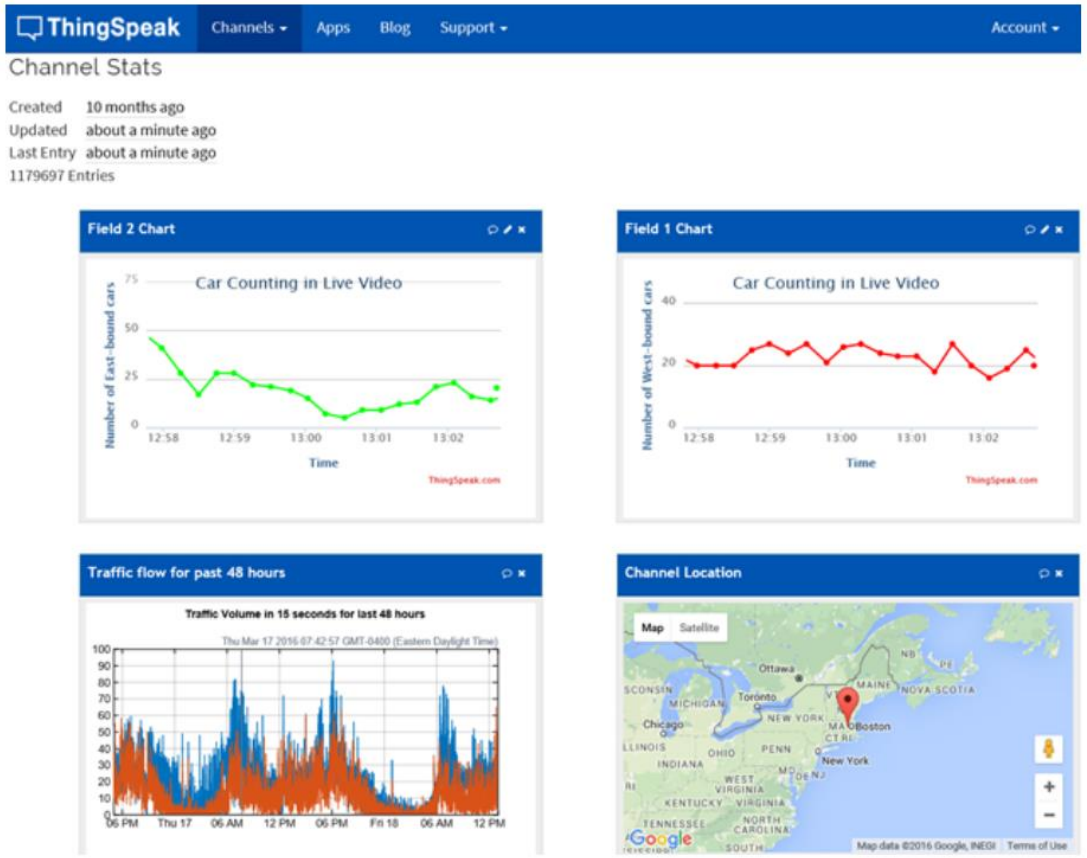
# Que es ThingSpeak?

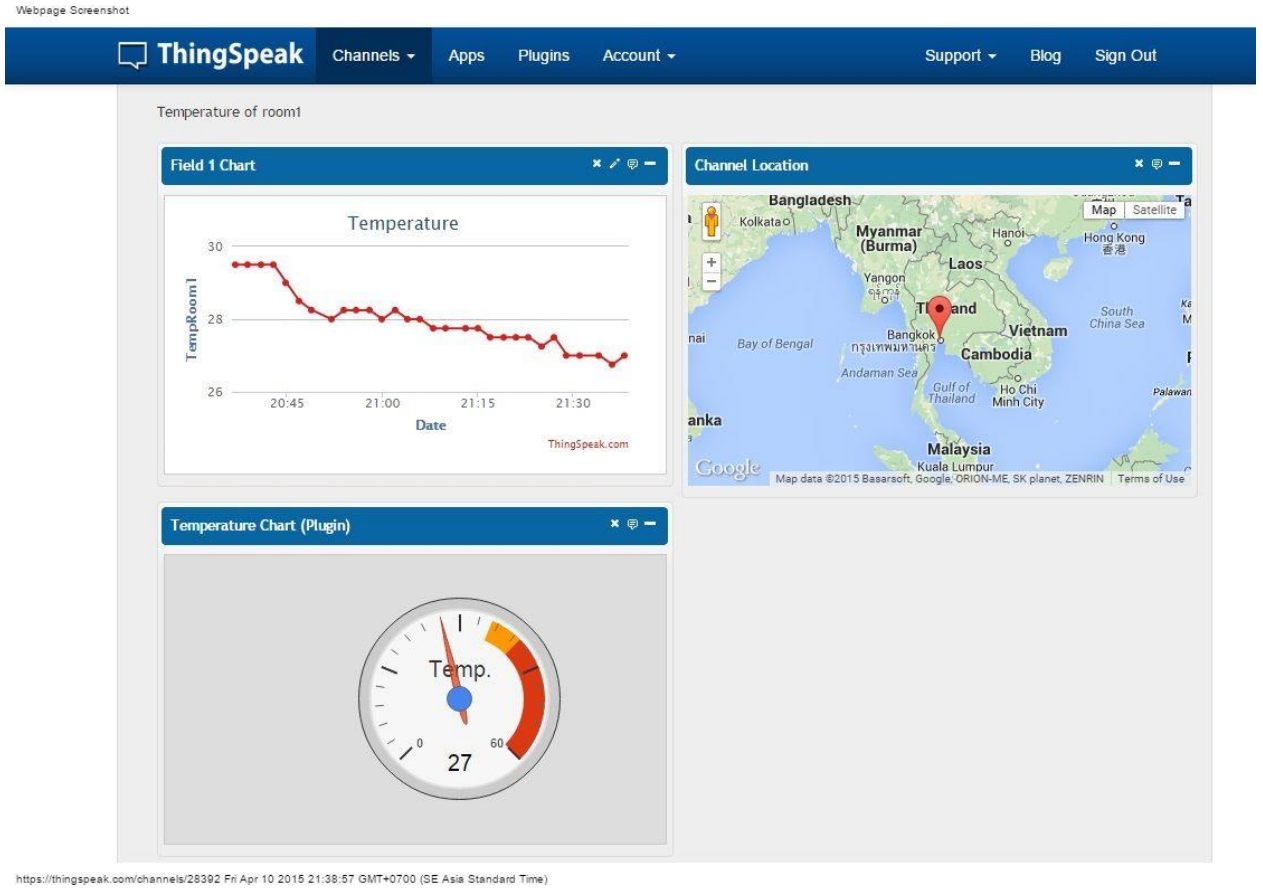
- ThingSpeak  es una aplicación para Internet de las cosas (IoT).
- ThingSpeak tiene una  API  para recibir y enviar datos de las cosas que se encuentran conectadas a internet usando los protocolos  HTTP y MQTT
- ThingSpeak permite mostrar información generada por sensores  así como la geolocalización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

# ThingSpeak: Ejemplos

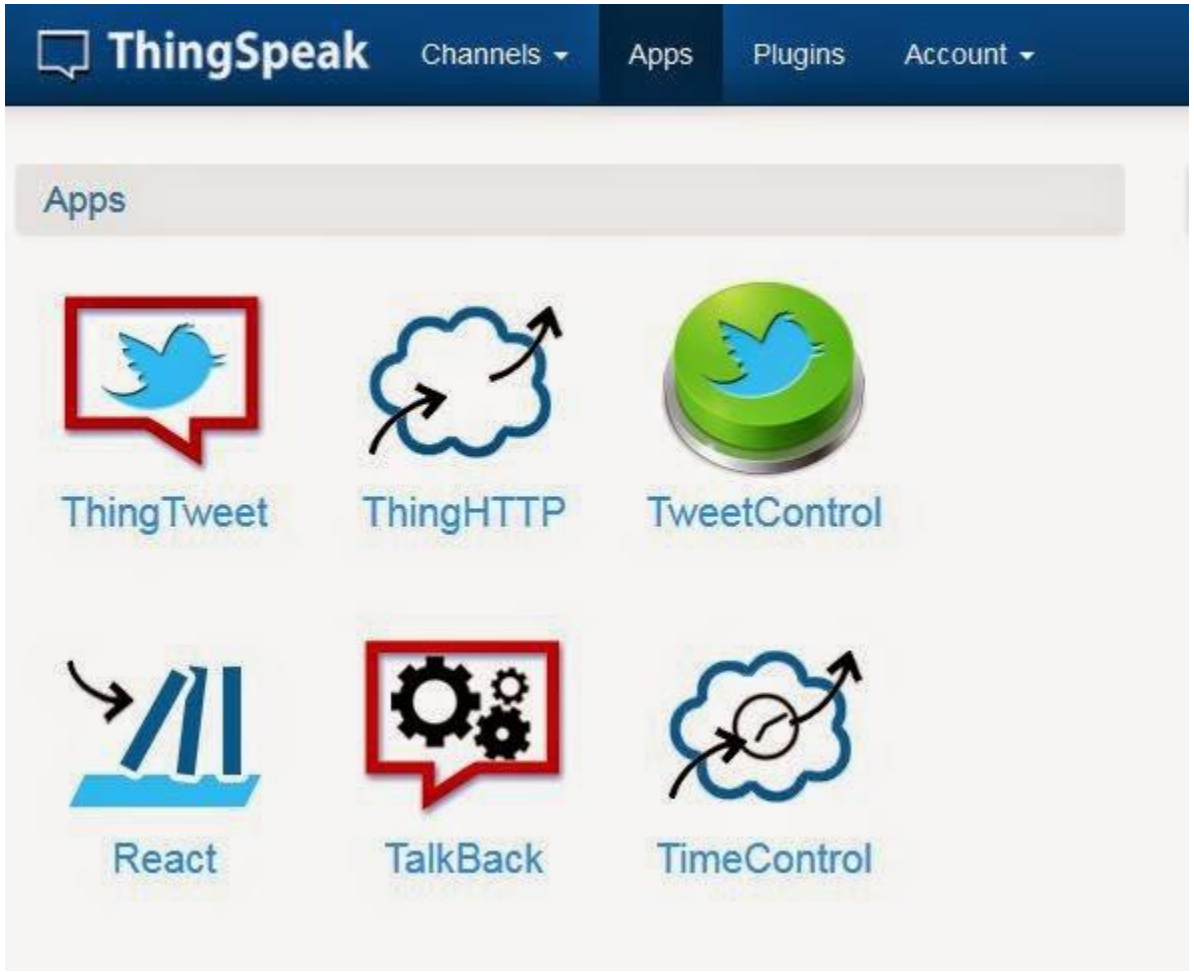


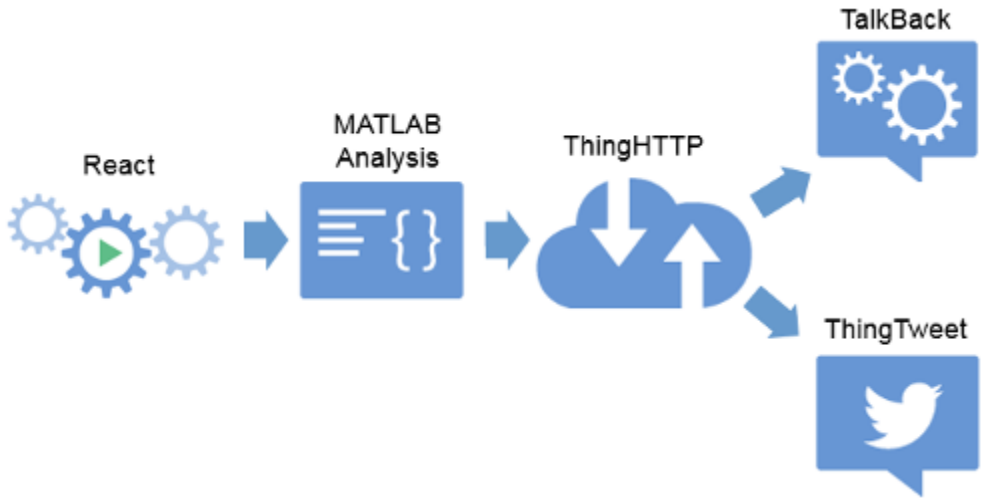
# ThingSpeak: Ejemplos



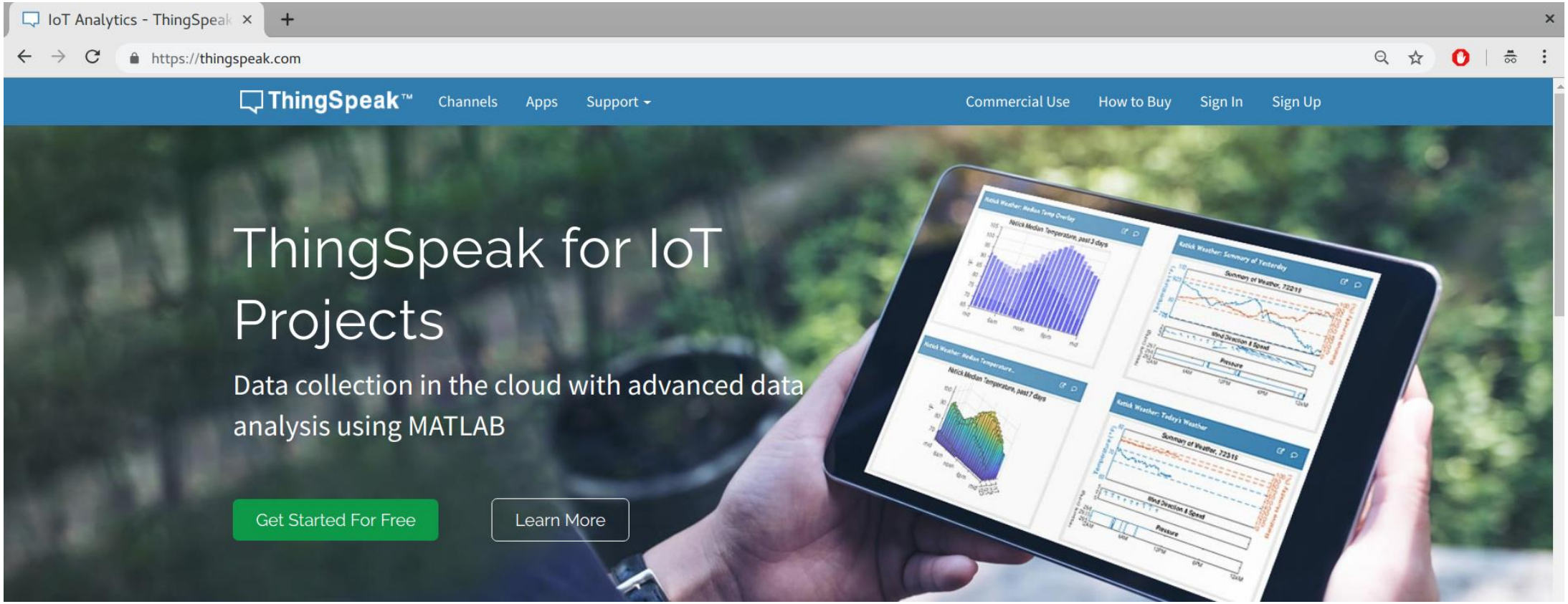
# ThingSpeak Apps



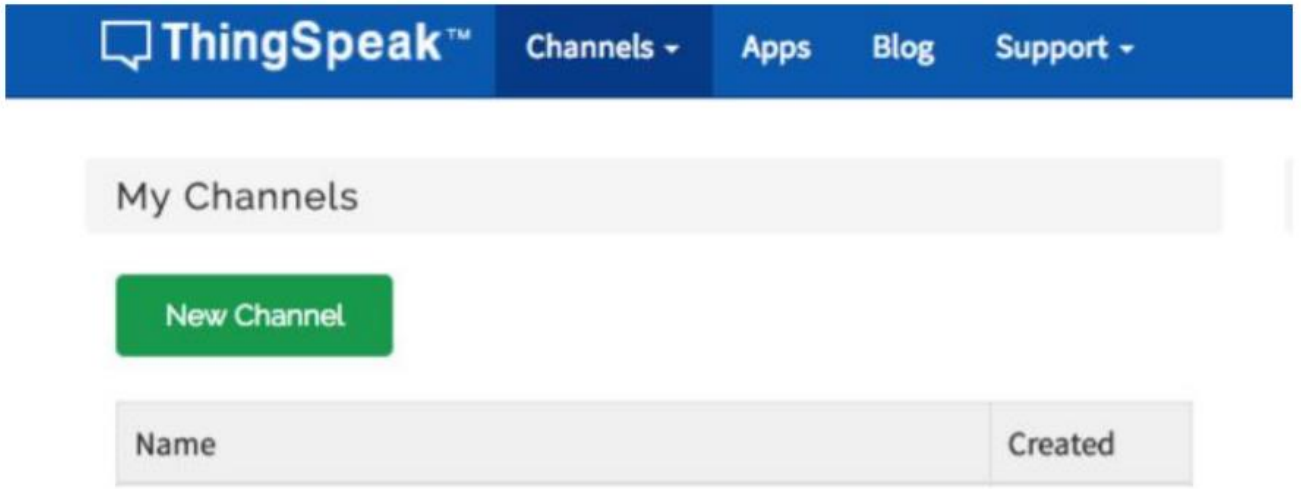
# 1-Create a ThingSpeak Account

**https://thingspeak.com/**



# 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** Canal de prueba

**Description**

**Field 1** Temperatura

**Field 2**

**Field 3**

**Field 4**

**Field 5**

**Field 6**

**Field 7**

**Field 8**

Save Channel

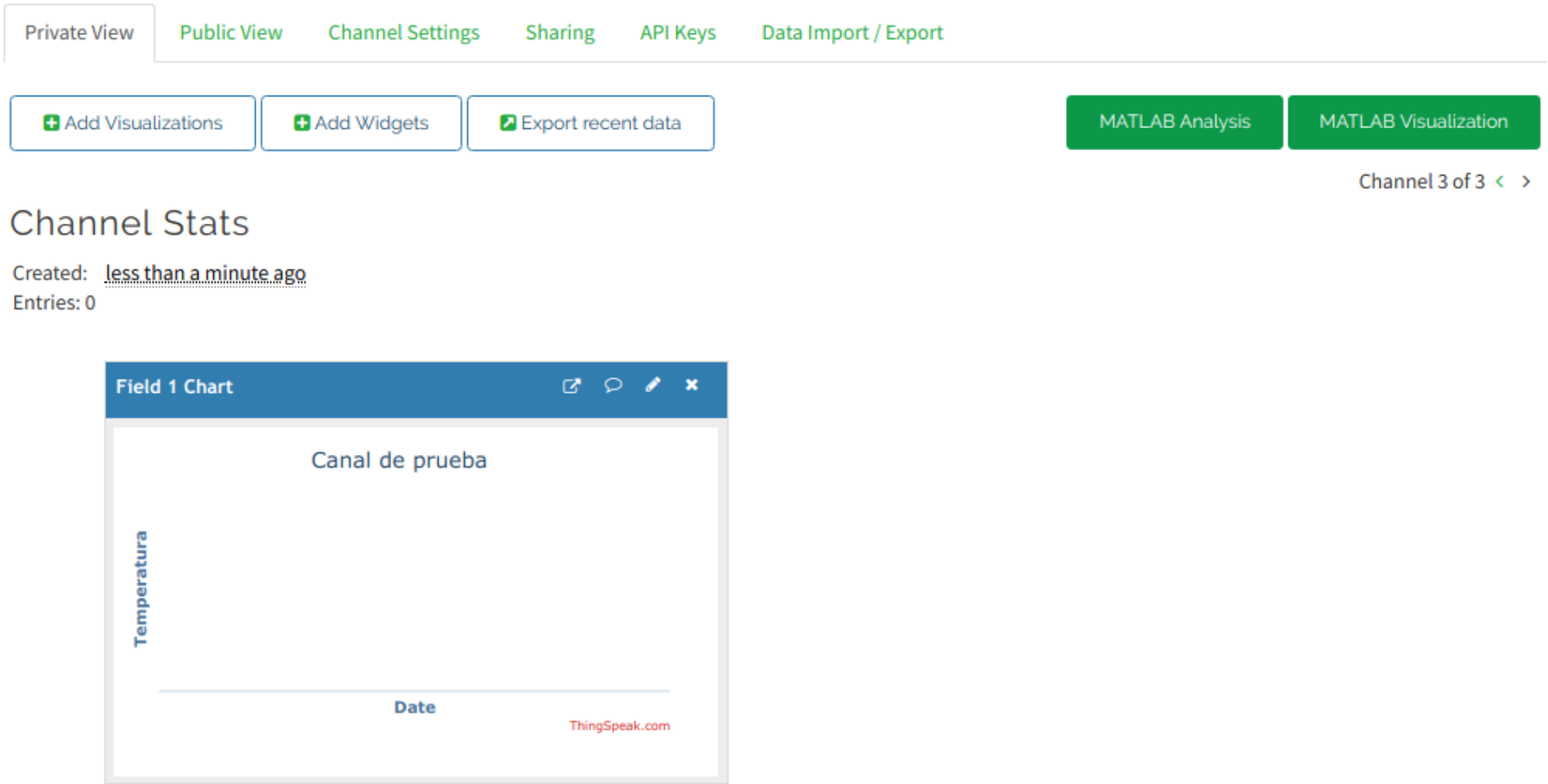
## Help

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.

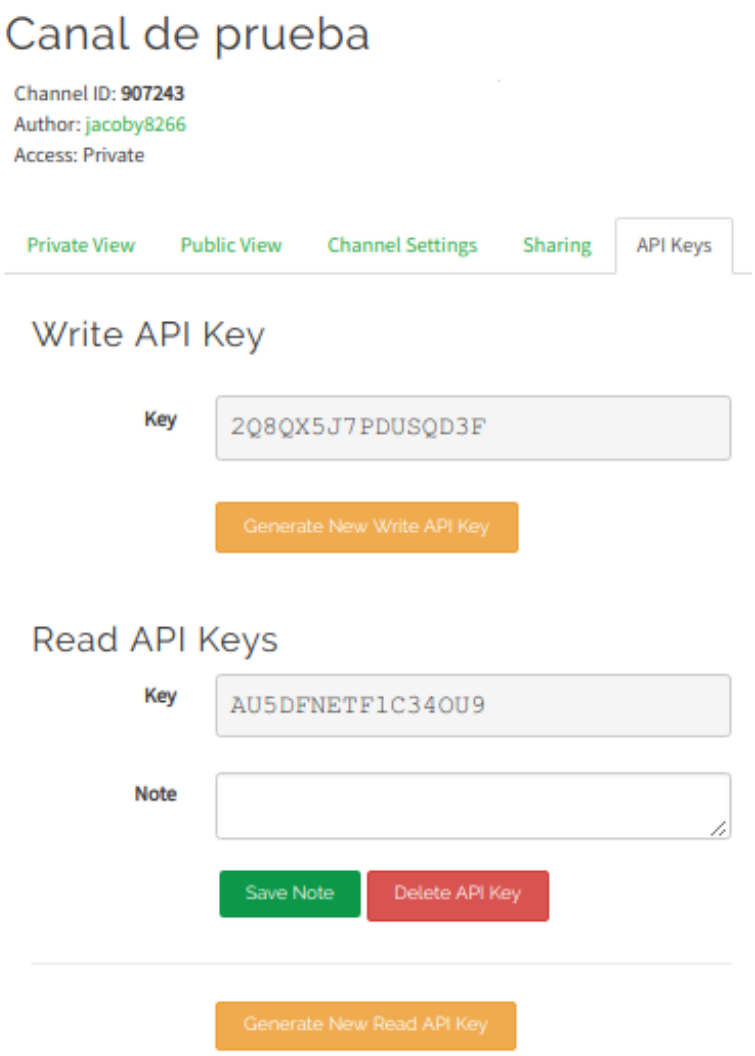
### Channel Settings

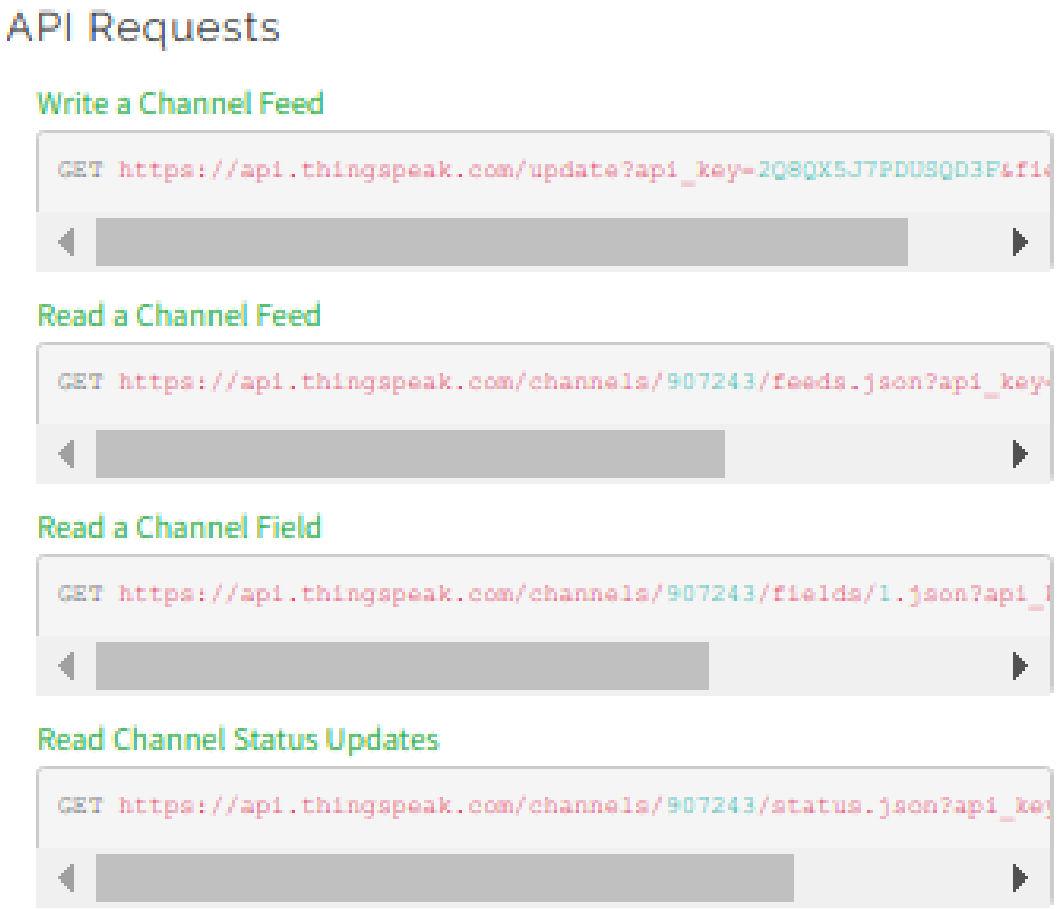
- **Channel Name:** Enter a unique name for the ThingSpeak channel.
- **Description:** Enter a description of the ThingSpeak channel.
- **Field#:** Check the box to enable the field, and enter a field name. Each ThingSpeak channel can have up to 8 fields.
- **Metadata:** Enter information about channel 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



# 5- API KEYS

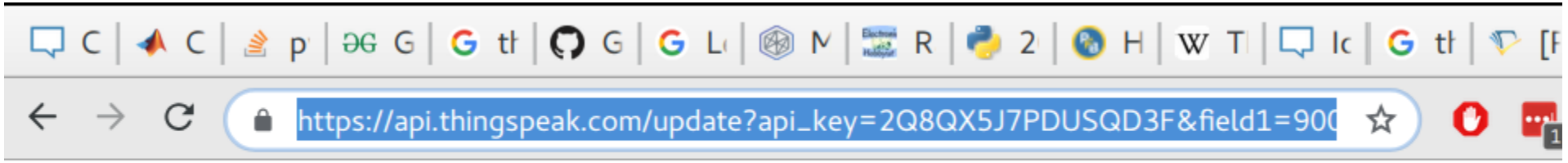

Canal de prueba
Channel ID: 907243
Author: jacoby8266
Access: Private
Private View
Public View
Channel Settings
Sharing
API Keys
Write API Key
Key
2Q8QX5J7PDUSQD3F
Generate New Write API Key
Read API Keys
Key
AU5DFNETF1C34OU9
Note
Save Note
Delete API Key
Generate New Read API Key


API Requests
Write a Channel Feed
GET https://api.thingspeak.com/update?api_key=2Q8QX5J7PDUSQD3F&f1
Read a Channel Feed
GET https://api.thingspeak.com/channels/907243/feeds.json?api_key
Read a Channel Field
GET https://api.thingspeak.com/channels/907243/fields/1.json?api_
Read Channel Status Updates
GET https://api.thingspeak.com/channels/907243/status.json?api_key

# Test Channel

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

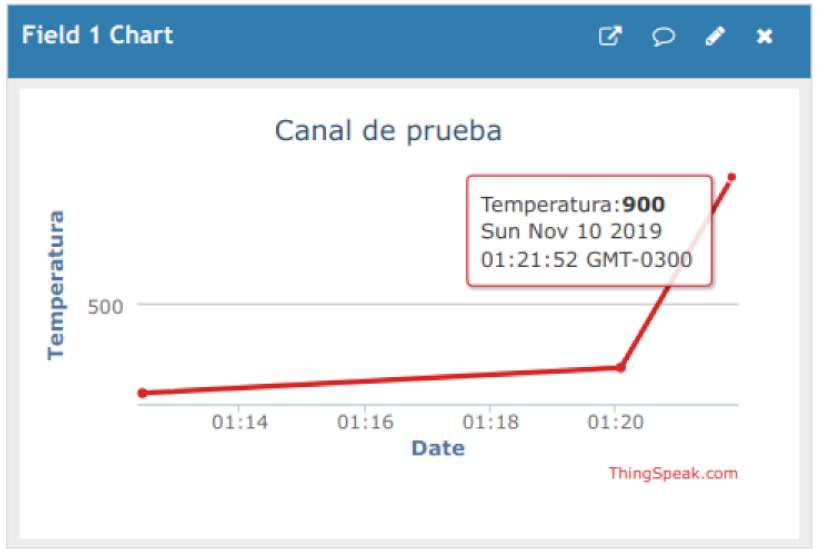
**PASTE in your Browser**




3

**Check Result**

Private View | Public View | Channel Settings | Sharing | API Keys | Data Import / Export



# Sample Python Script

pos.py

```
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()
```

python2 pos.py


"That's all Folks!"