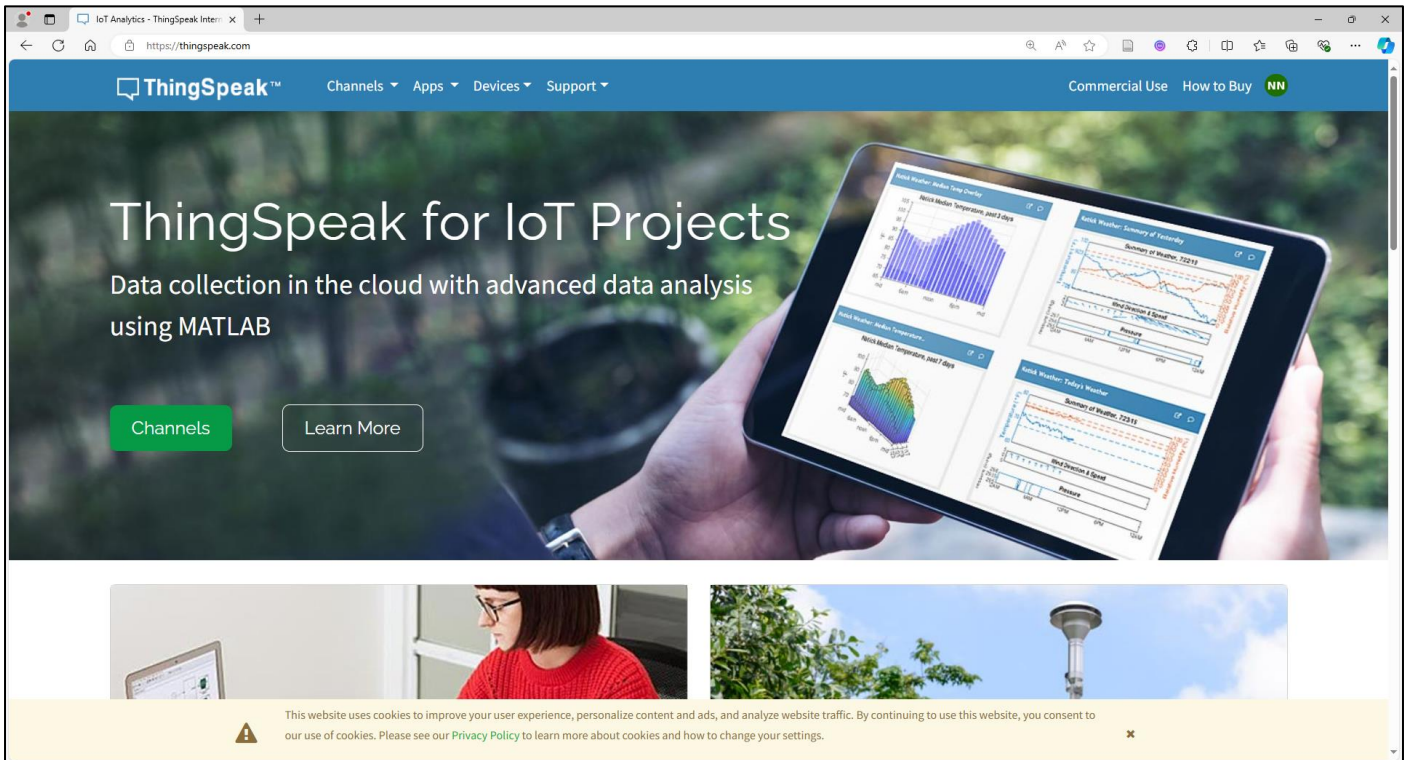


ThingSpeak IoT platform

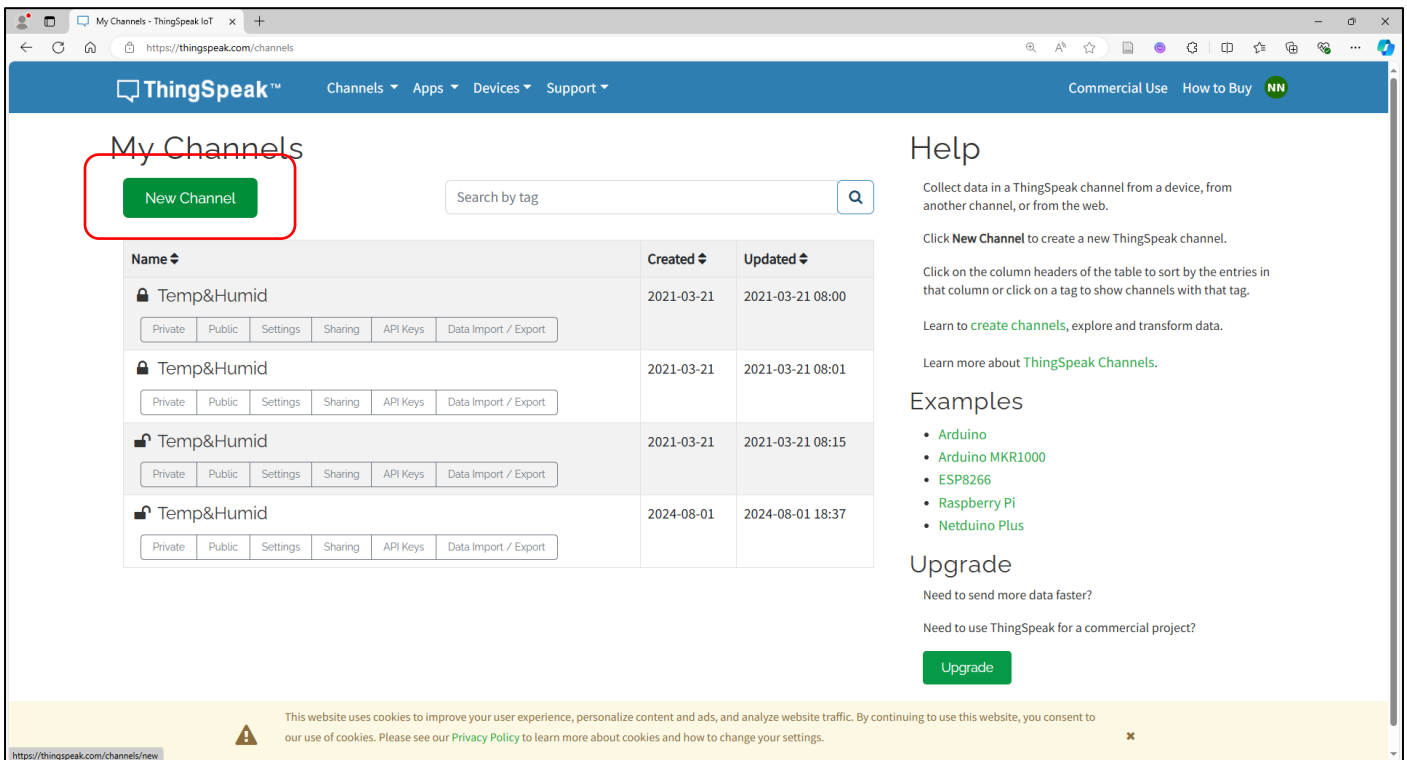


The banner features a blue header with the ThingSpeak logo and navigation links: Channels, Apps, Devices, Support, Commercial Use, and How to Buy. The main text reads "ThingSpeak for IoT Projects" followed by "Data collection in the cloud with advanced data analysis using MATLAB". Below this are two buttons: "Channels" and "Learn More". The background image shows a hand holding a tablet displaying various weather-related charts and graphs.

Channels Learn More

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Create Channel & Setting



The "My Channels" page has a blue header with the ThingSpeak logo and navigation links. A red box highlights the "New Channel" button. Below the button is a search bar labeled "Search by tag". The main content area displays a table of channels, each with a lock icon, name, and settings buttons. The table has columns for Name, Created, and Updated. On the right side, there is a "Help" section with instructions on how to collect data and create channels, followed by "Examples" and "Upgrade" sections.

My Channels

New Channel

Search by tag

Name	Created	Updated
Temp&Humid	2021-03-21	2021-03-21 08:00
Temp&Humid	2021-03-21	2021-03-21 08:01
Temp&Humid	2021-03-21	2021-03-21 08:15
Temp&Humid	2024-08-01	2024-08-01 18:37

Help

Collect data in a ThingSpeak channel from a device, from another channel, or from the web.

Click **New Channel** to create a new ThingSpeak channel.

Click on the column headers of the table to sort by the entries in that column or click on a tag to show channels with that tag.

Learn to [create channels](#), explore and transform data.

Learn more about [ThingSpeak Channels](#).

Examples

- [Arduino](#)
- [Arduino MKR1000](#)
- [ESP8266](#)
- [Raspberry Pi](#)
- [Netduino Plus](#)

Upgrade

Need to send more data faster?

Need to use ThingSpeak for a commercial project?

Upgrade

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Channel Settings - ThingSpeak

https://thingspeak.com/channels/2614608/edit

ThingSpeak™ Channels Apps Devices Support Commercial Use How to Buy NN

Temp&Humid

Channel ID: 2614608
Author: mwa0000021942780
Access: Public

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

Channel Settings

Percentage Complete 30%

Channel ID 2614608

Name Temp&Humid

Description

Field 1 temp

Field 2

Field 3

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

- Percentage complete:** Calculated based on data entered into the various fields of a channel. Enter the name, description, location, URL, video, and tags to complete your channel.
- 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.

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Channels - ThingSpeak IoT

https://thingspeak.com/channels/2614608/sharing

ThingSpeak™ Channels Apps Devices Support Commercial Use How to Buy NN

Temp&Humid

Channel ID: 2614608
Author: mwa0000021942780
Access: Public

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

Channel Sharing Settings

☐ Keep channel view private

☒ Share channel view with everyone

☐ Share channel view only with the following users:

Email Address

Enter email here

Add User

Help

ThingSpeak allows you to control who can view the data in your channel. Irrespective of the settings on this tab, reading data from or writing data to the fields of a channel requires the appropriate API key for the channel.

Channel Sharing Settings

- Keep channel view private:** Selecting this option keeps your channel private. Only you will be able to see the channel view.
- Share channel view with everyone:** Selecting this option makes the public view of your channel viewable by anyone browsing the ThingSpeak website.
- Share channel view only with the following users:** Selecting this option shares the private view of your channel only with specific ThingSpeak users.

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API Keys - ThingSpeak IoT

https://thingspeak.com/channels/2614608/api_keys

ThingSpeak™

Channels Apps Devices Support

Commercial Use How to Buy NN

Temp&Humid

Channel ID: 2614608
Author: mwa0000021942780
Access: Public

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

Write API Key

Key 9NK2MBLIEJY1J07Q

Generate New Write API Key

Read API Keys

Key 0SO17B457W13BK05

Note

Help

API keys enable you to write data to a channel or read data from a private channel. API keys are auto-generated when you create a new channel.

API Keys Settings

- Write API Key:** Use this key to write data to a channel. If you feel your key has been compromised, click **Generate New Write API Key**.
- Read API Keys:** Use this key to allow other people to view your private channel feeds and charts. Click **Generate New Read API Key** to generate an additional read key for the channel.
- Note:** Use this field to enter information about channel read keys. For example, add notes to keep track of users with access to your channel.

API Requests

Write a Channel Feed

GET https://api.thingspeak.com/update?api_key=9NK2MBLIEJY1J07Q&field1=0

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Create Dashboard

Temp&Humid - ThingSpeak IoT

https://thingspeak.com/channels/2614608

ThingSpeak™

Channels Apps Support

Commercial Use How to Buy

Temp&Humid

Channel ID: 2614608
Author: mwa0000021942780
Access: Public

Export recent data

MATLAB Analysis MATLAB Visualization

Field 1 Chart

Temp&Humid

temp

100

50

05:30 05:45 06:00 06:15

Date

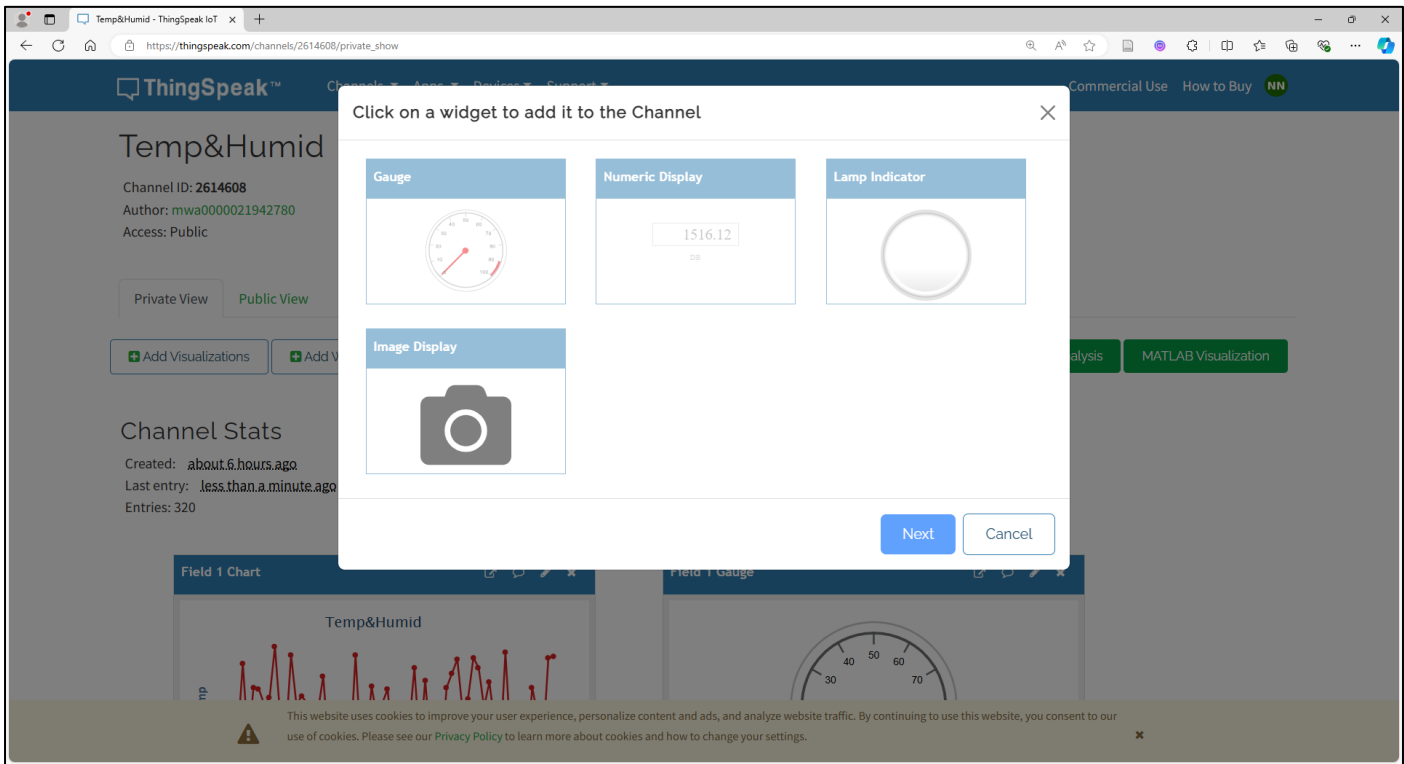
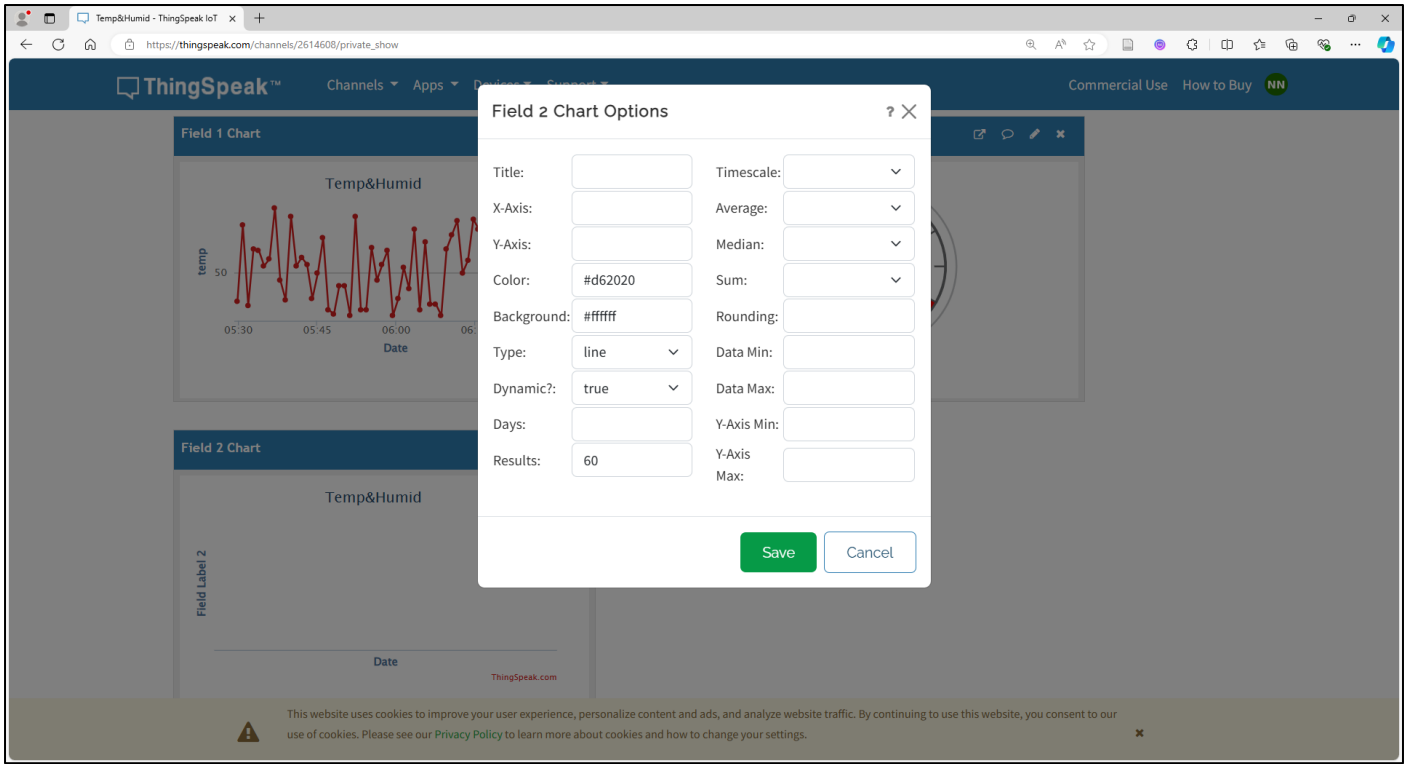
ThingSpeak.com

Field 1 Gauge

36

Add comment

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Coding

```
testThingspeak-std | Arduino 1.8.19
File Edit Sketch Tools Help

testThingspeak-std | secrets.h
8
9#include <ESP8266WiFi.h>
10#include "ThingSpeak.h"
11
12
13const char* ssid = your network SSID; // your network SSID (name)
14const char* password = your network password; // your network password
15
16WiFiClient client;
17
18unsigned long myChannelNumber = Channel ID;
19const char * myWriteAPIKey = WriteAPIKey;
20
21// Timer variables
22unsigned long lastTime = 0;
23unsigned long timerDelay = 60000;
24
25// Variable to hold temperature readings
26float temperatureC;
27//uncomment if you want to get temperature in Fahrenheit
28//float temperatureF;
29
30
```

Function Setup

```
31
32void setup() {
33    Serial.begin(115200); //Initialize serial
34
35    WiFi.mode(WIFI_STA);
36
37    ThingSpeak.begin(client); // Initialize ThingSpeak
38}
39
```

ESP8266 Connect WiFi

```
40void loop() {
41    if ((millis() - lastTime) > timerDelay) {
42
43        // Connect or reconnect to WiFi
44        if(WiFi.status() != WL_CONNECTED){
45            Serial.print("Attempting to connect");
46            while(WiFi.status() != WL_CONNECTED){
47                WiFi.begin(ssid, password);
48                delay(5000);
49            }
50            Serial.println("\nConnected.");
51        }
52        lastTime = millis();
53    }
54}
```

```
COM3
Attempting to connect
Connected.
Temperature (°C): 79.00
Channel update successful.
```

Send Data to ThingSpeak

```
54 // Get a new temperature reading
55 temperatureC = ?????? ;
56 Serial.print("Temperature (°C): ");
57 Serial.println(temperatureC);
58
59 //uncomment if you want to get temperature in Fahrenheit
60 /*temperatureF = 1.8 * bme.readTemperature() + 32;
61 Serial.print("Temperature (°F): ");
62 Serial.println(temperatureF);*/
63
64 // Write to ThingSpeak. There are up to 8 fields in a channel, allowing you to store up to 8 different
65 // pieces of information in a channel. Here, we write to field 1.
66 int x = ThingSpeak.writeField(myChannelNumber, 1, temperatureC, myWriteAPIKey);
67
68 //if(x == 200){
69   Serial.println("Channel update successful.");
70 //}
71 //else{
72 //   Serial.println("Problem updating channel. HTTP error code " + String(x));
73 //}
74 lastTime = millis();
75 }
76 }
```

COM3

Attempting to connect
Connected.

Temperature (°C): 79.00
Channel update successful.
Temperature (°C): 59.00
Channel update successful.

