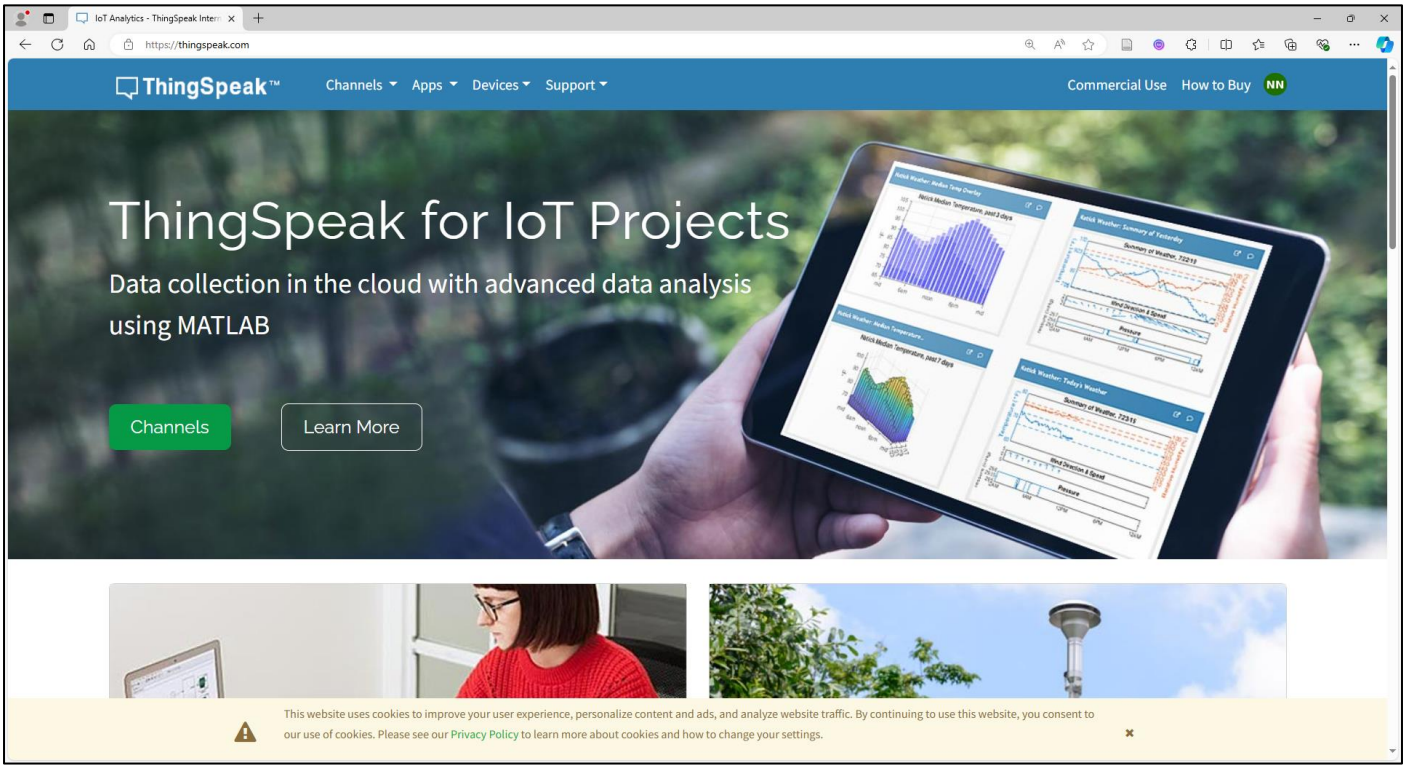
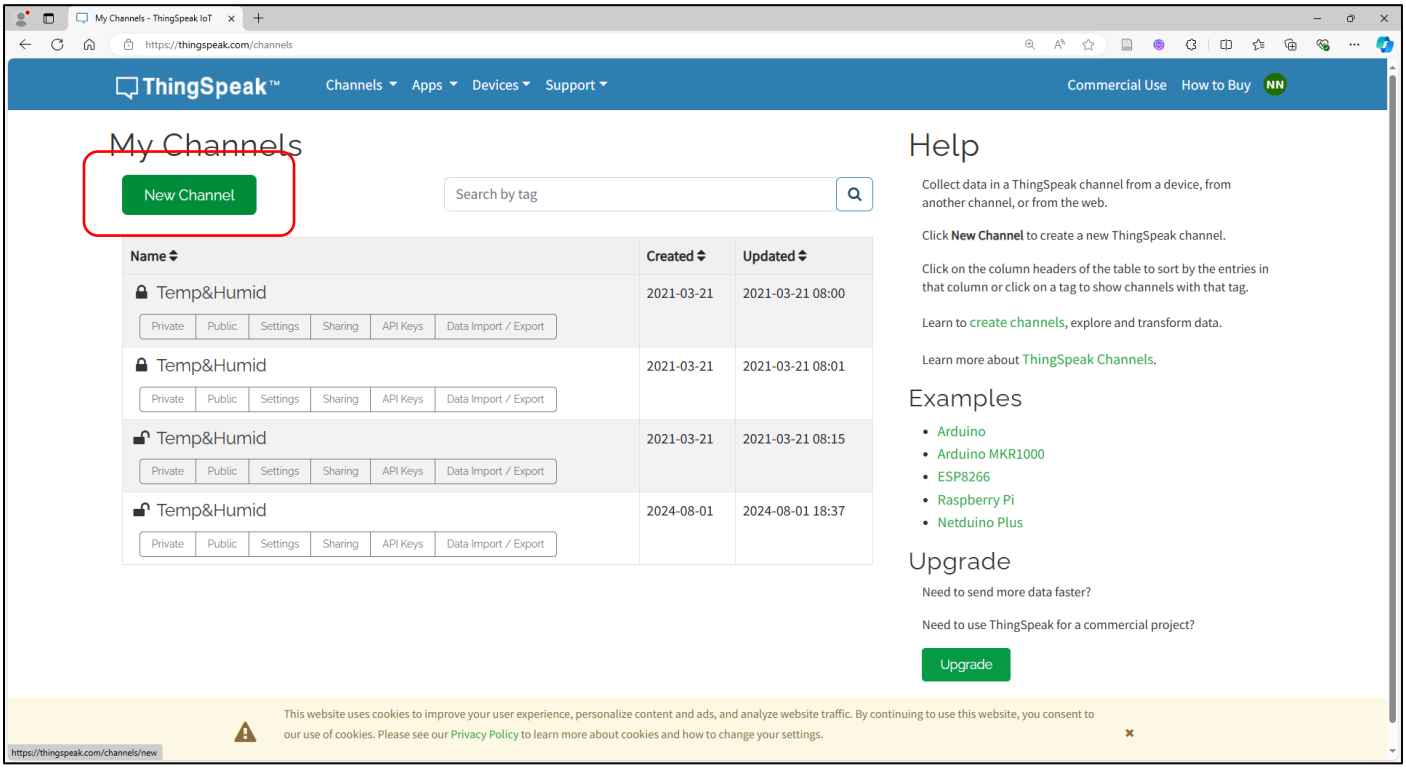
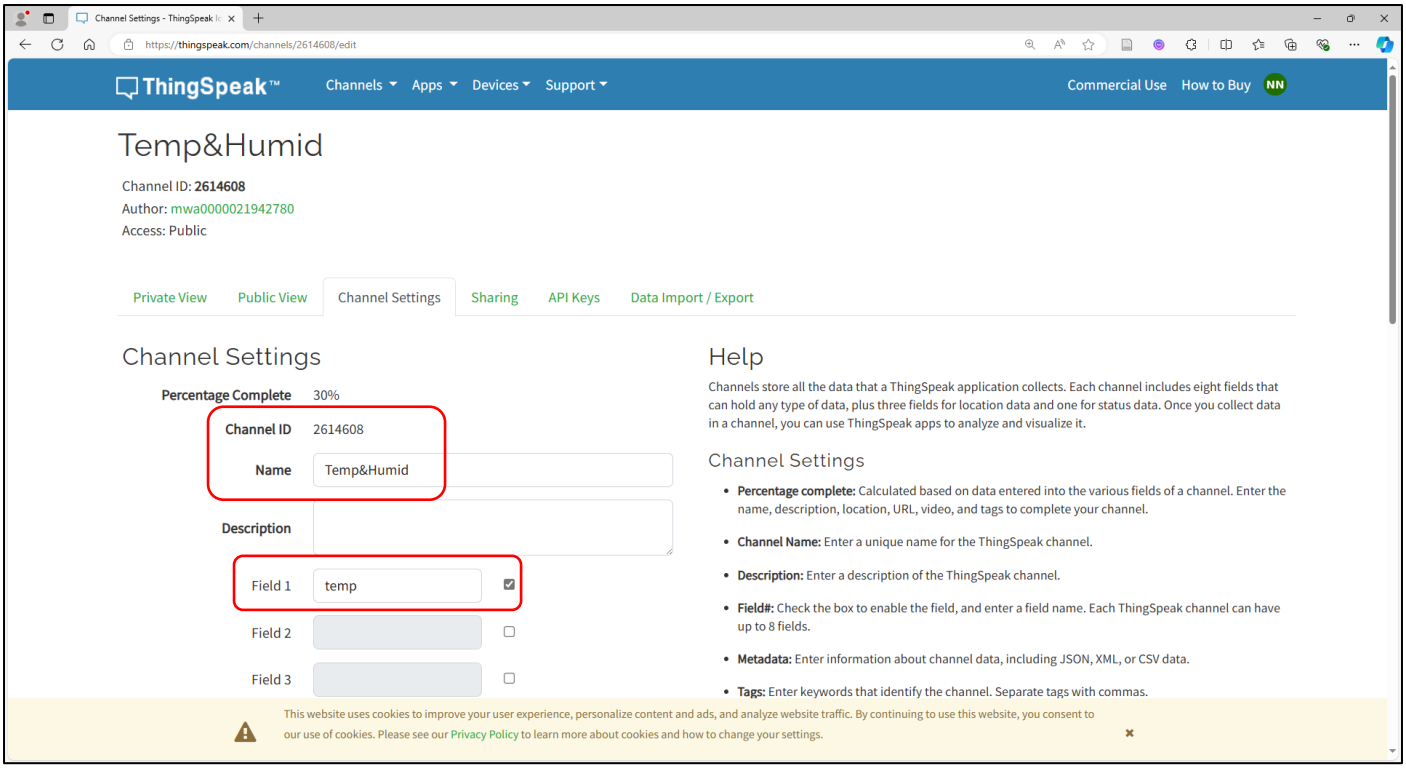
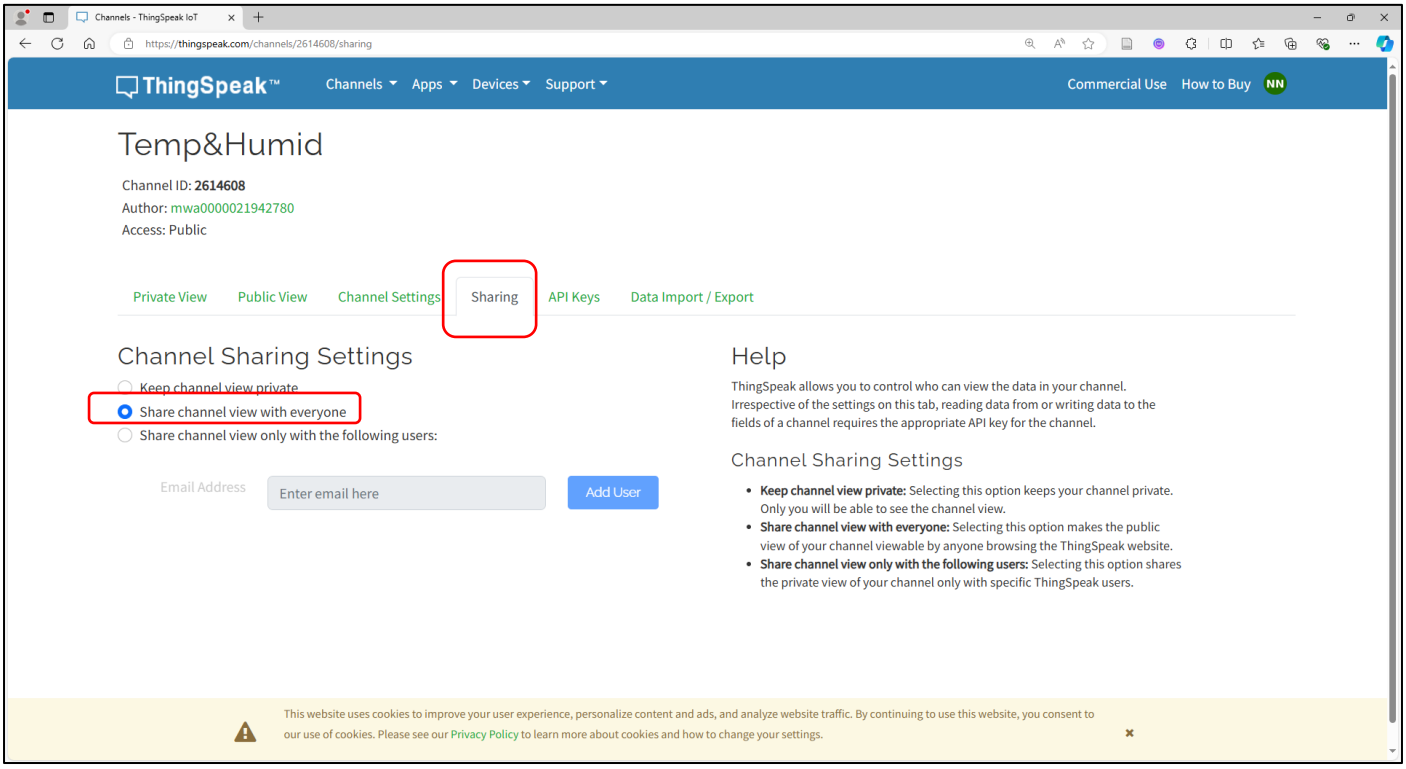
ThingSpeak IoT platform

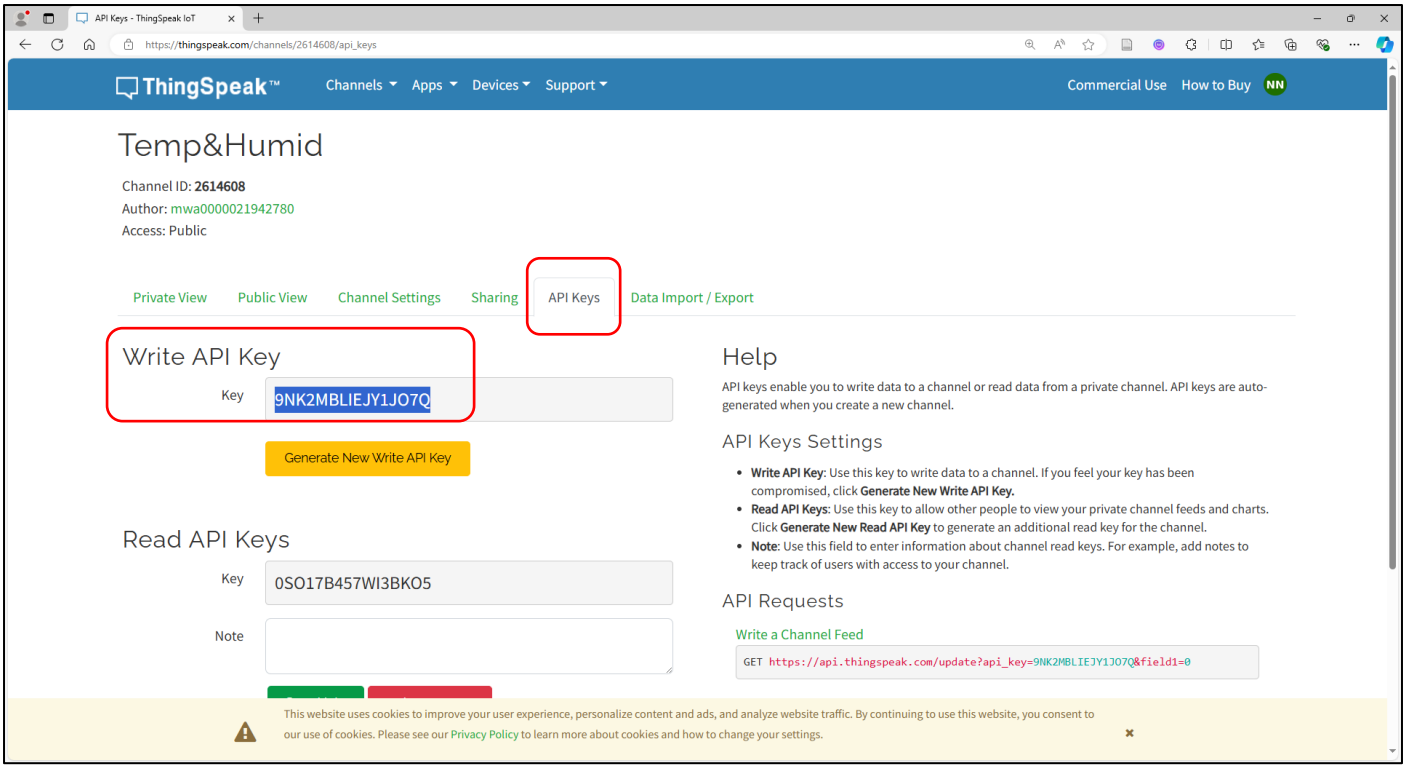


Create Channel & Setting

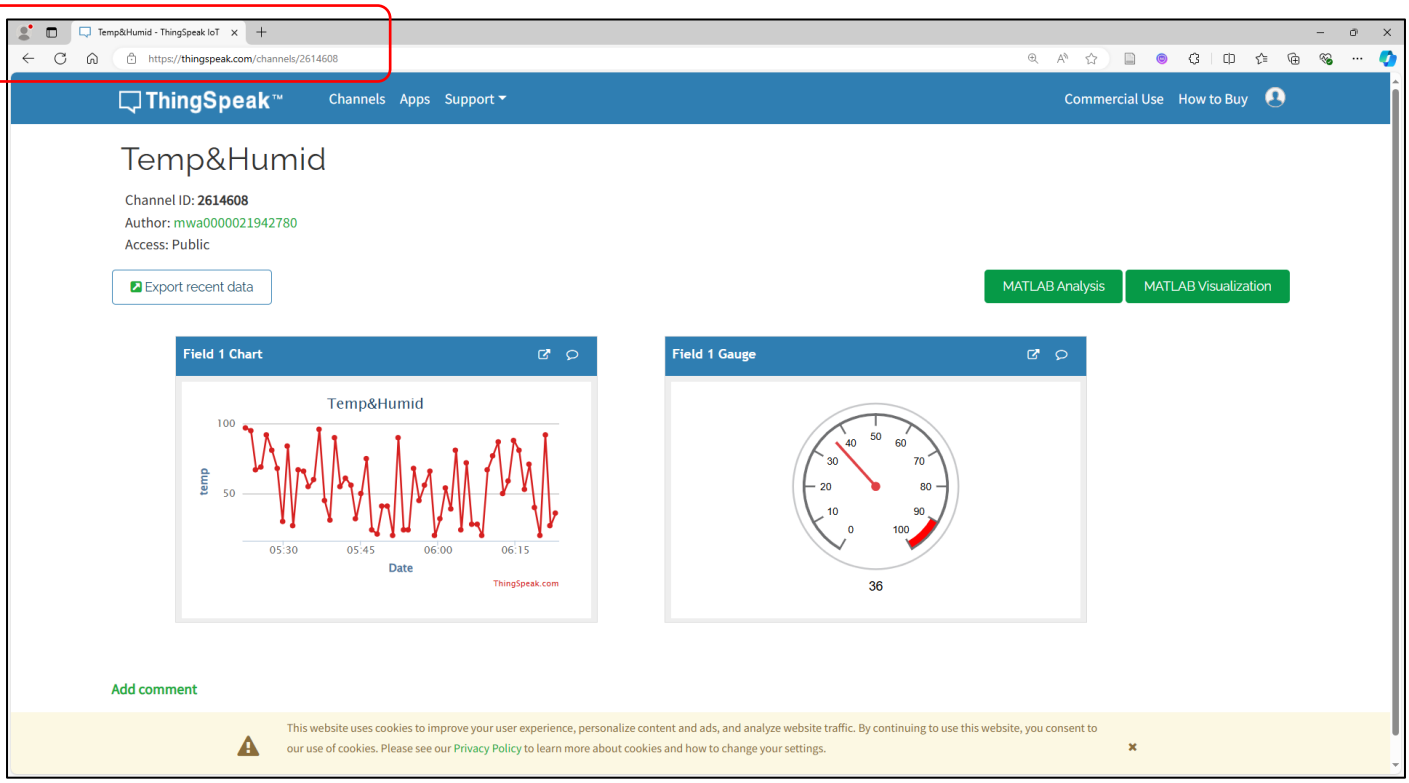


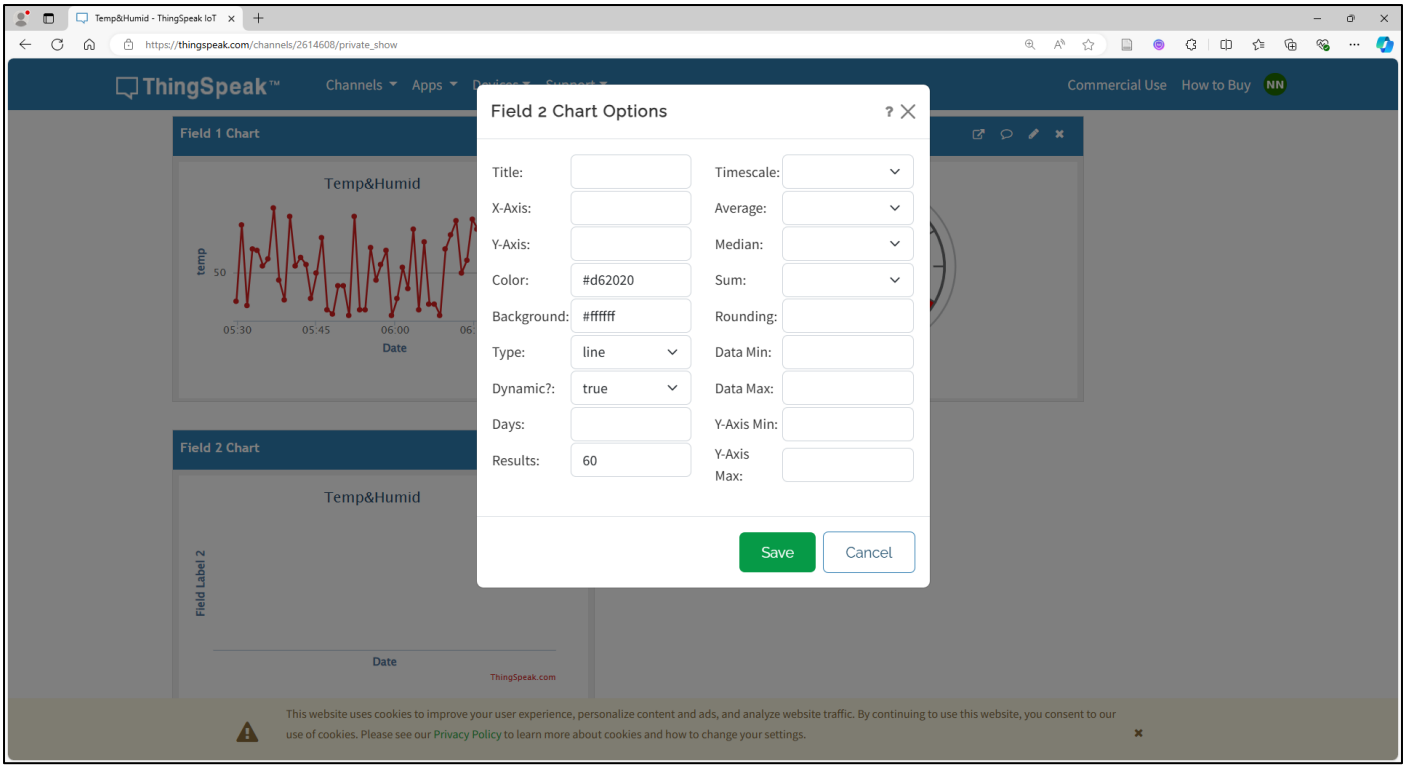

Channel Settings - ThingSpeak
https://thingspeak.com/channels/2614608/edit
ThingSpeak™
Channels
Apps
Devices
Support
Commercial Use
How to Buy
NN
Temp&Humid
Channel ID: 2614608
Author: mwa0000021942780
Access: Public
Private View
Public View
Channel Settings
Sharing
API Keys
Data Import / Export
Channel 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.
This website uses cookies to improve your user experience, personalize content and ads, and analyze website traffic. By continuing to use this website, you consent to our use of cookies. Please see our Privacy Policy to learn more about cookies and how to change your settings.

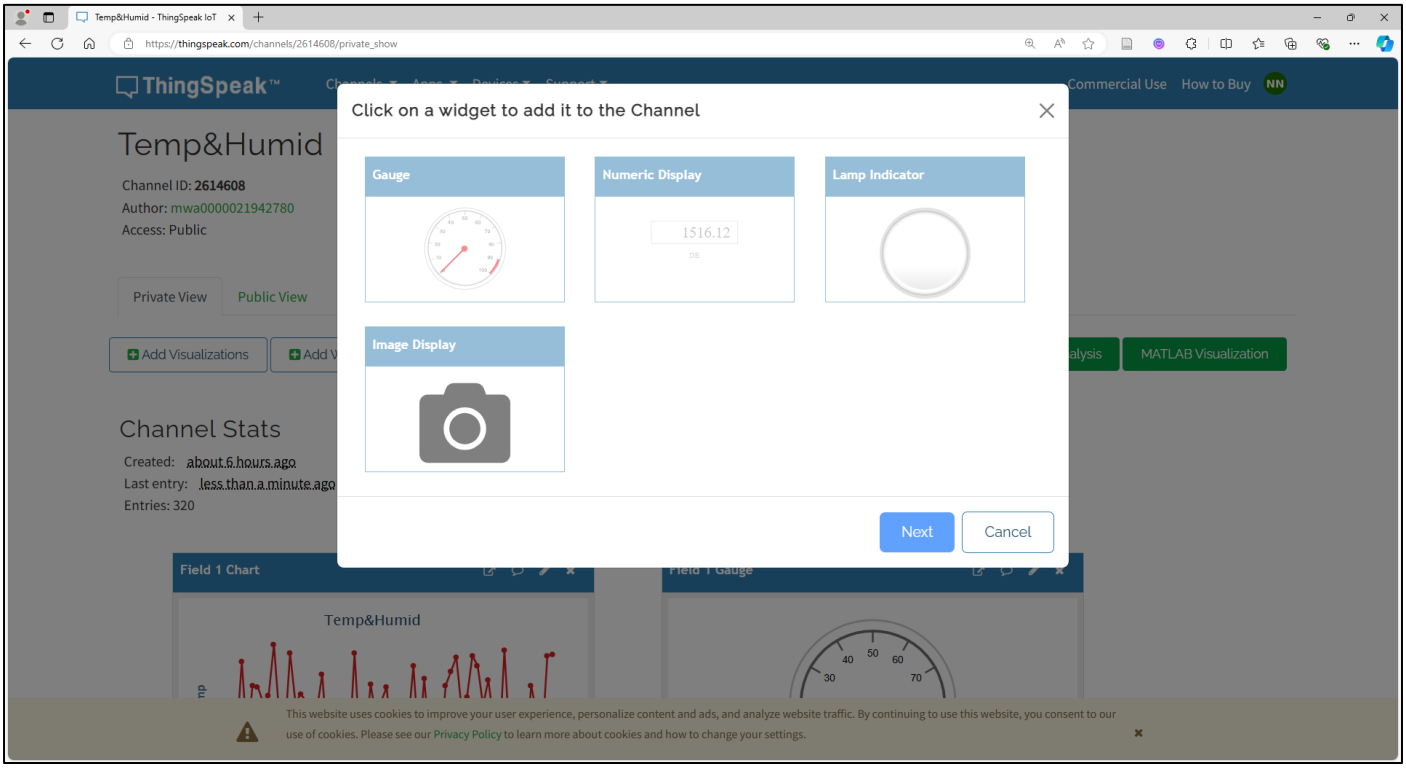

Channels - ThingSpeak IoT
https://thingspeak.com/channels/2614608/sharing
ThingSpeak™
Channels
Apps
Devices
Support
Commercial Use
How to Buy
NN
Temp&Humid
Channel ID: 2614608
Author: mwa0000021942780
Access: Public
Private View
Public View
Channel Settings
Sharing
API Keys
Data Import / Export
Channel 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.
This website uses cookies to improve your user experience, personalize content and ads, and analyze website traffic. By continuing to use this website, you consent to our use of cookies. Please see our Privacy Policy to learn more about cookies and how to change your settings.



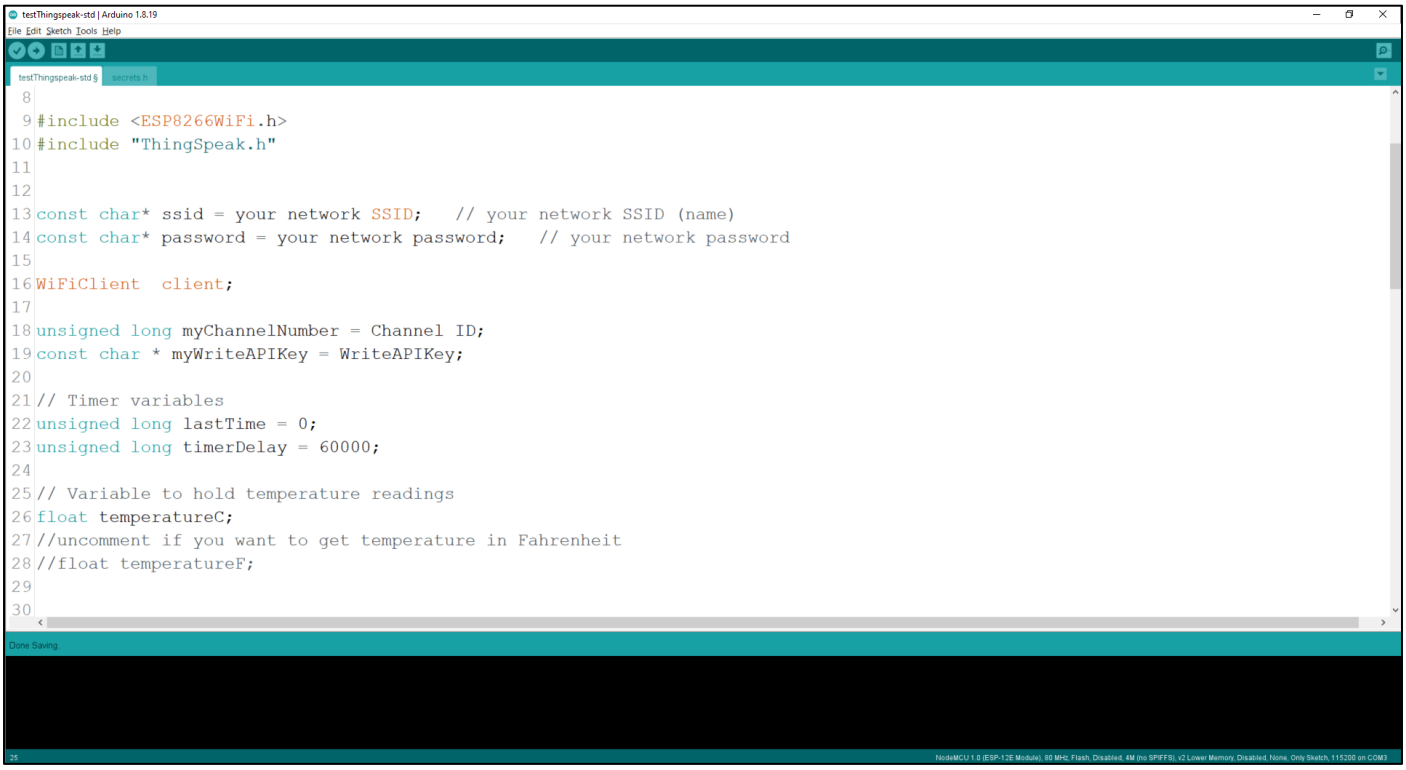
Create Dashboard




Field 2 Chart Options
Title:
X-Axis:
Y-Axis:
Color: #d62020
Background: #ffffff
Type: line
Dynamic?: true
Days:
Results: 60
Timescale:
Average:
Median:
Sum:
Rounding:
Data Min:
Data Max:
Y-Axis Min:
Y-Axis Max:
Save
Cancel
Field 1 Chart
Temp&Humid
Field 2 Chart
Temp&Humid
Date
ThingSpeak.com


Click on a widget to add it to the Channel
Gauge
Numeric Display
1516.12
Lamp Indicator
Image Display
Next
Cancel
Temp&Humid
Channel ID: 2614608
Author: mwa0000021942780
Access: Public
Private View
Public View
Add Visualizations
MATLAB Visualization
Channel Stats
Created: about 6 hours ago
Last entry: less than a minute ago
Entries: 320
Field 1 Chart
Temp&Humid

Coding



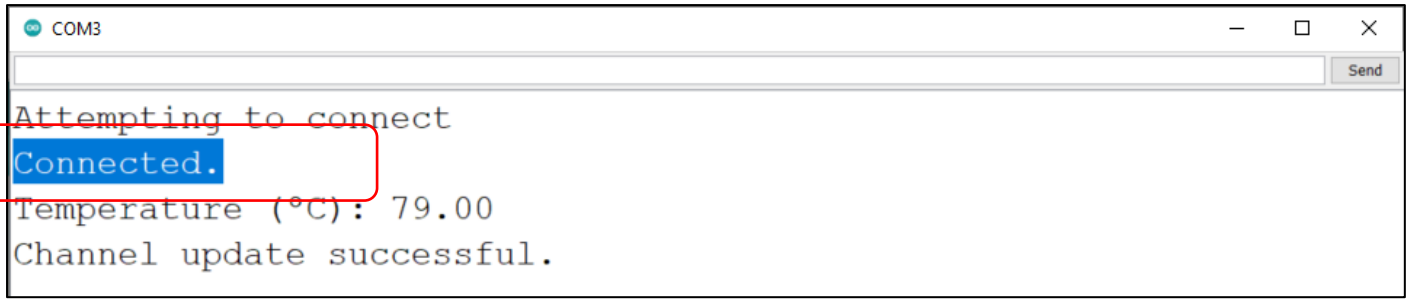
```
#include <ESP8266WiFi.h>
#include "ThingSpeak.h"


const char* ssid = your network SSID;   // your network SSID (name)
const char* password = your network password;   // your network password

WiFiClient  client;

unsigned long myChannelNumber = Channel ID;
const char * myWriteAPIKey = WriteAPIKey;

// Timer variables
unsigned long lastTime = 0;
unsigned long timerDelay = 60000;

// Variable to hold temperature readings
float temperatureC;
//uncomment if you want to get temperature in Fahrenheit
//float temperatureF;
```

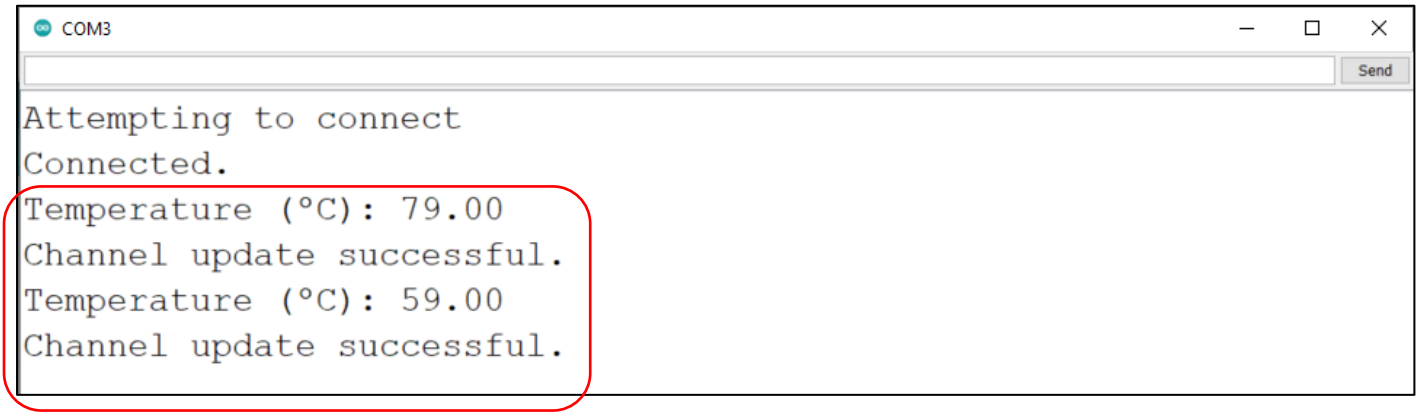
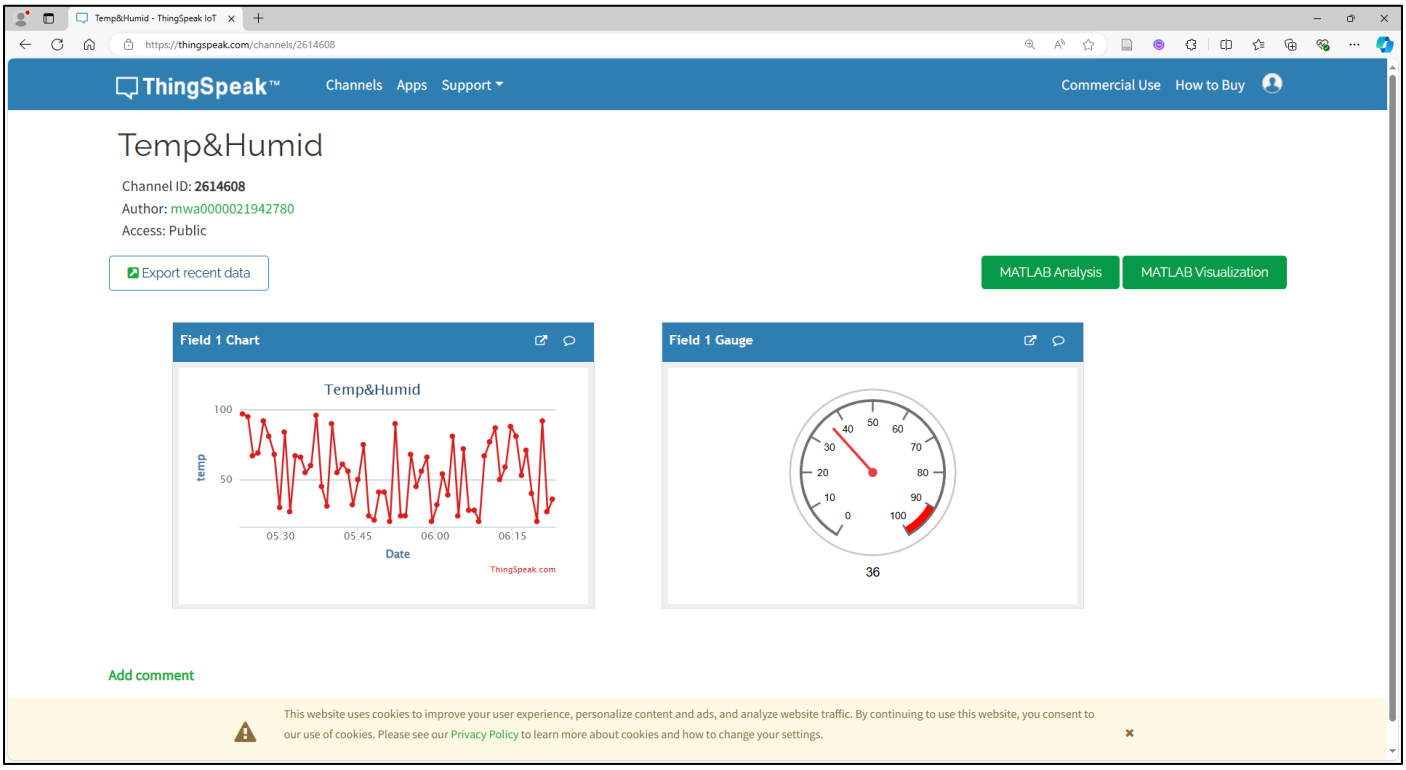
Function Setup

```

void setup() {
  Serial.begin(115200);  //Initialize serial

  WiFi.mode(WIFI_STA);

  ThingSpeak.begin(client);  // Initialize ThingSpeak
}

```

ESP8266 Connect WiFi

```
void loop() {
  if ((millis() - lastTime) > timerDelay) {

    // Connect or reconnect to WiFi
    if(WiFi.status() != WL_CONNECTED){
      Serial.print("Attempting to connect");
      while(WiFi.status() != WL_CONNECTED){
        WiFi.begin(ssid, password);
        delay(5000);
      }
      Serial.println("\nConnected.");
    }
    lastTime = millis();
  }
}
```



Send Data to ThingSpeak

```
    // Get a new temperature reading
    temperatureC = ?????? ;
    Serial.print("Temperature (°C): ");
    Serial.println(temperatureC);

    //uncomment if you want to get temperature in Fahrenheit
    /*temperatureF = 1.8 * bme.readTemperature() + 32;
    Serial.print("Temperature (°F): ");
    Serial.println(temperatureF);*/

    // Write to ThingSpeak. There are up to 8 fields in a channel, allowing you to store up to 8 different
    // pieces of information in a channel.  Here, we write to field 1.
    int x = ThingSpeak.writeField(myChannelNumber, 1, temperatureC, myWriteAPIKey);

    //if(x == 200){
      Serial.println("Channel update successful.");
    //}
    //else{
    //  Serial.println("Problem updating channel. HTTP error code " + String(x));
    //}
    lastTime = millis();
  }
}
```