



TECNOLOGIA EM ANÁLISE E DESENVOLVIMENTO DE SISTEMAS



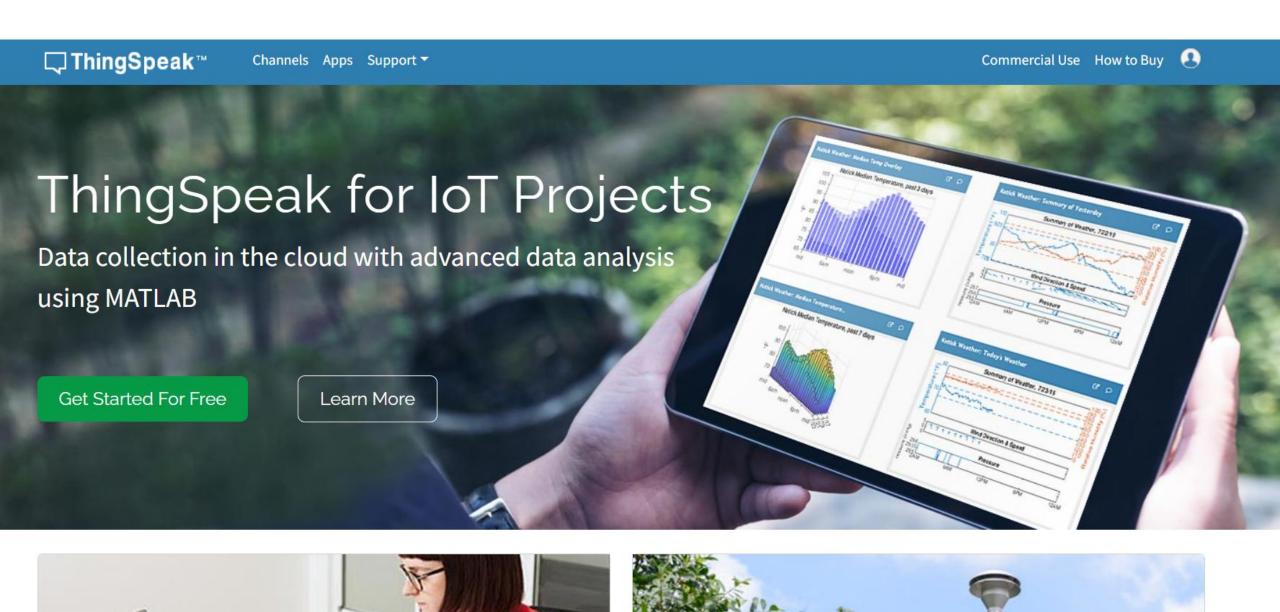


DISRUPTIVE ARCHITECTURES: IOT, IOB E GENERATIVE AI

Prof. Erick Toshio Yamamoto

proferick.yamamoto@fiap.com.br

2025

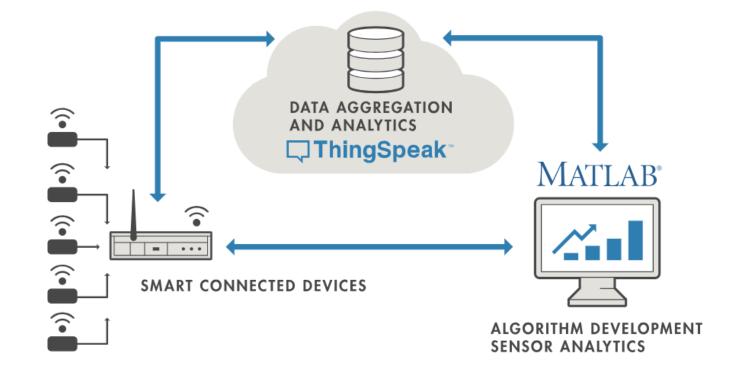


To use ThingSpeak, you must sign in with your existing MathWorks account or create a new one.

Non-commercial users may use ThingSpeak for free. Free accounts offer limits on certain functionality. Commercial users are eligible for a time-limited free evaluation. To get full access to the MATLAB analysis features on ThingSpeak, log in to ThingSpeak using the email address associated with your university or organization.

To send data faster to ThingSpeak or to send more data from more devices, consider the paid license options for commercial, academic, home and student usage.

✓ MathWorks [®]	
Email	
No account? Create one!	
By signing in, you agree to our privacy policy.	
	Next





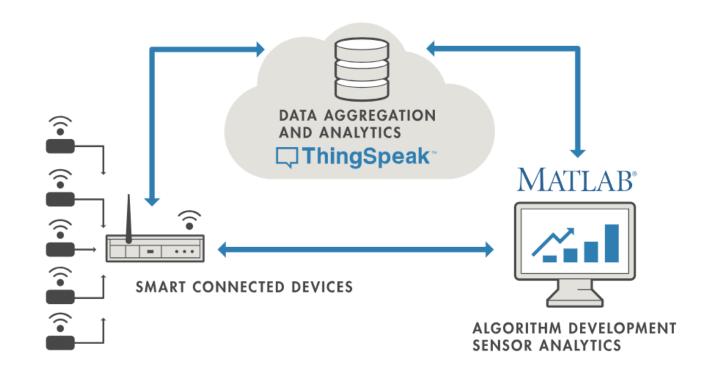
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Create MathWorks Account

Email Address profeyamamoto@gmail.com \bigcirc To access your organization's MATLAB license, use your school or work email. Location Brazil First Name Erick **Last Name** \bigcirc Yamamoto Continue Cancel

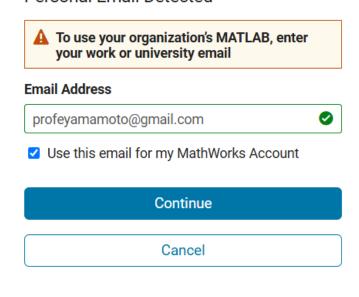


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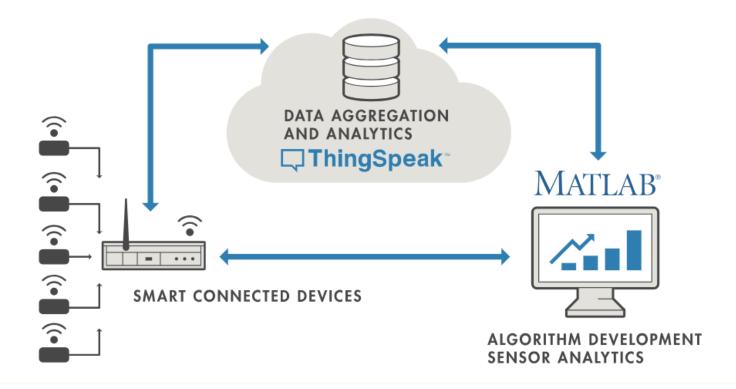
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Verify Your MathWorks Account

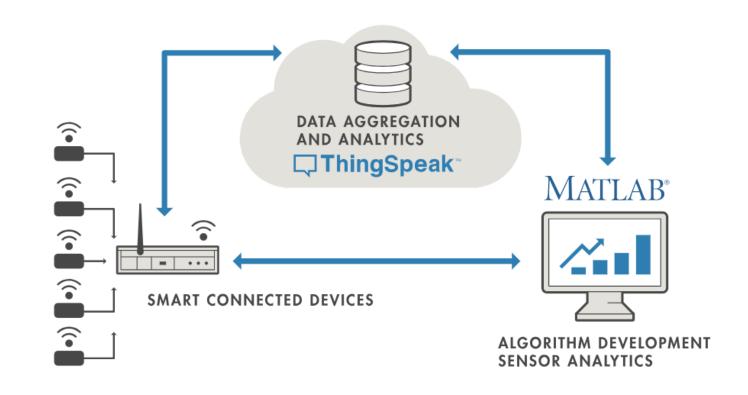
To finish creating your account, complete the following steps:

- 1. Go to your inbox for profeyamamoto@gmail.com.
- 2. Click the link in the email we sent you.
- 3. Click Continue.

Didn't receive the email?

- · Check your spam folder.
- · Send me the email again.
- · If you still have not received the email, Contact **Customer Support**

Continue
Cancel



Commercial Use How to Buy

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· You need to verify your email address

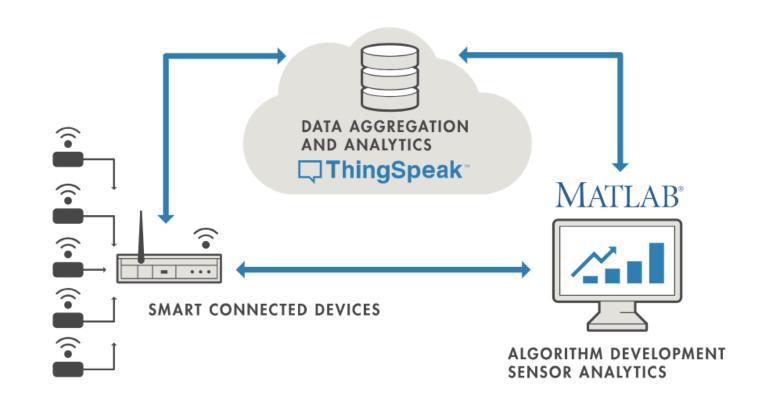
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service@account.mathworks.com

para mim 🕶





Welcome to MathWorks!

To complete your MathWorks Account setup, click Verify email.

Verify email

Alternatively, to verify your email, copy and paste the following link into your browser:

https://www.mathworks.com/mwaccount/widgets/embedded/register/verify/2edbaf03-eeea-4396-a2ce-950682177951

If you did not create this account, contact Support.

MathWorks Customer Service Team





Your profile was verified



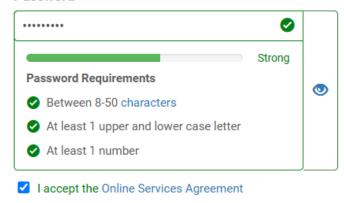


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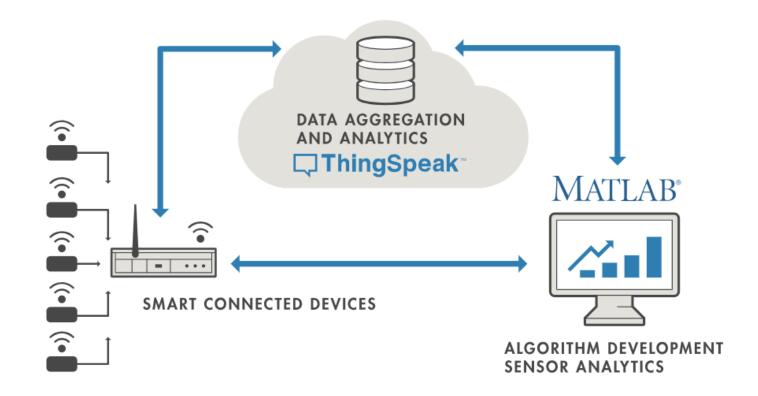
Finish your Profile

Password



See our privacy policy for details.

Continue	
Cancel	



Signed in successfully.

Sign-up successful

Congratulations, you have successfully linked your MathWorks account to ThingSpeak. Use the following email ID and its associated MathWorks account password on all subsequent logins to ThingSpeak.

Email ID: profeyamamoto@gmail.com

Welcome to ThingSpeak!



My Channels

New Channel

ThingSpeak Usage Intent

How are you planning to use ThingSpeak?

- Commercial work (including research)
- O Government work (including research)
- O Personal, non-commercial projects
- O Student use, Teaching, or Research in academia

What is the name of your University?*

FIAP

What best describes your current role?*

- Student
- Professor
- Researcher

What is the name of your Course or Project?*

Disruptive IoT

Tell us something about your project (optional)

lelp

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.

earn more about ThingSpeak Channels.

xamples

- Arduino
- Arduino MKR1000
- ESP8266
- Raspberry Pi
- Netduino Plus

pgrade

Need to send more data faster?

leed to use ThingSpeak for a commercial project?

My Channels



Search by tag



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

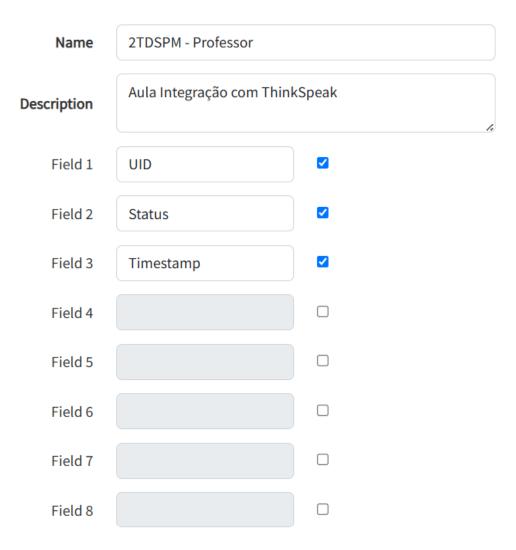
Upgrade

Need to send more data faster?

Need to use ThingSpeak for a commercial project?



New 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

- 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.
- 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.
 - o Longitude: Specify the longitude position in decimal degrees. For example, the longitude of the

YouTube

□ ThingSpeak™

Channels ▼ Apps ▼ Devices ▼ Support ▼

Link to GitHub https://github.com/

Elevation

Show Channel Location

Latitude 0.0

Longitude 0.0

Show Video

YouTube

O Vimeo

Video URL

http://

Show Status

Save Channel

Using the Channet

You can get data into a channel from a device, website, or another ThingsSpeak channel. You can then visualize data and transform it using ThingSpeak Apps.

See Get Started with ThingSpeak" for an example of measuring dew point from a weather station that acquires data from an Arduino® device.

Learn More

2TDSPM - Professor

Channel ID: 2962906

Author: mwa0000037827227

Access: Private

Aula Integração com ThinkSpeak

Private View

Public View

Channel Settings

Sharing

API Keys

Data Import / Export

Add Widgets

Export recent data

MATLAB Analysis

MATLAB Visualization

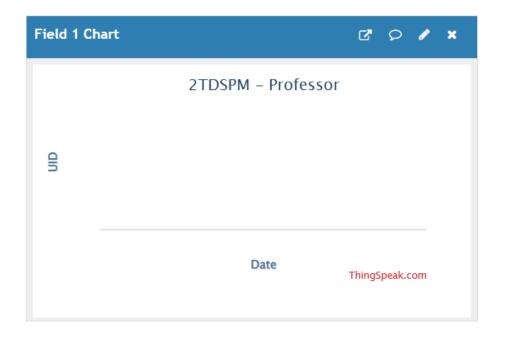
Channel Stats

Created: 8 minutes ago

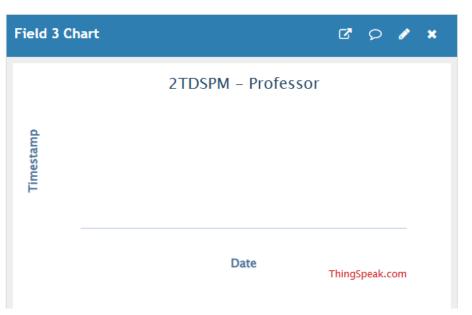
Entries: 0

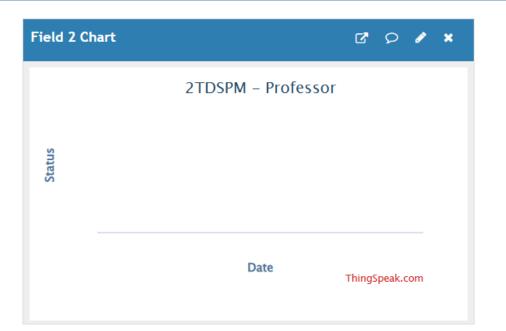






☐ ThingSpeak™





2TDSPM - Professor

Channel ID: 2962906

Author: mwa0000037827227

Access: Private

Private View

Aula Integração com ThinkSpeak

Public View

Channel Settings

Sharing

API Keys

Data Import / Export

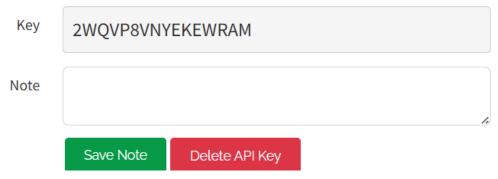
Write API Key

Key

450ZDAZ857O00JAR

Generate New Write API Key

Read API Keys



Help

API keys enable you to write data to a channel or read data from a private channel. API keys are autogenerated 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=450ZDAZ857Q00JAR&field1=0

Read a Channel Feed





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