
thingspeak Documentation

Release 1.0.0

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Feb 24, 2019

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ThingSpeak is an open source “Internet of Things” application and API to store and retrieve data from things using HTTP over the Internet or via a Local Area Network. With ThingSpeak, you can create sensor logging applications, location tracking applications, and a social network of things with status updates. <https://github.com/iobridge/ThingSpeak>

This repository contains Python module that helps in talking to ThingSpeak API.

master: develop:

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CHAPTER 1

Installation

This part of the documentation covers the installation of [thingspeak package](#). The first step to using any software package is getting it properly installed.

1.1 Pip Install thingspeak API

To install thingspeak, simply run this simple command in your terminal of choice:

```
$ pip install thingspeak
```

If you don't have [pip](#) installed (tisk tisk!), [this Python installation guide](#) can guide you through the process.

1.2 Get the Source Code

Requests is developed on GitHub, where the code is [always available](#).

You can either clone the public repository:

```
$ git clone git@github.com:mchwalisz/thingspeak.git
```

Or, download the [tarball](#):

```
$ curl -OL https://github.com/mchwalisz/thingspeak/tarball/master  
# optionally, zipball is also available (for Windows users).
```

Once you have a copy of the source, you can embed it in your own Python package, or install it into your site-packages easily:

```
$ python setup.py install
```


2.1 Command line

It is possible to view the channel directly:

```
$ thingspeak -q -r 2 9
{
  "channel": {
    "created_at": "2010-12-14T01:20:06Z",
    "description": "Netduino Plus connected to sensors around the house",
    "field1": "Light",
    "field2": "Outside Temperature",
    "id": 9,
    "last_entry_id": 9680334,
    "latitude": "40.44",
    "longitude": "-79.9965",
    "name": "my_house",
    "updated_at": "2016-02-09T20:11:45Z"
  },
  "feeds": [
    {
      "created_at": "2016-02-09T20:11:31Z",
      "entry_id": 9680333,
      "field1": "199",
      "field2": "29.978768577494691"
    },
    {
      "created_at": "2016-02-09T20:11:45Z",
      "entry_id": 9680334,
      "field1": "213",
      "field2": "29.723991507430998"
    }
  ]
}
```

2.2 Python interface

Or through Python interface:

```
>>> import thingspeak
>>> ch = thingspeak.Channel(9)
>>> ch.get({'results': 2})
u'{"channel":{"id":9,"name":"my_house",
"description":"Netduino Plus connected to sensors around the house",
"latitude":"40.44","longitude":"-79.9965",
"field1":"Light","field2":"Outside Temperature",
"created_at":"2010-12-14T01:20:06Z",
"updated_at":"2016-02-09T20:13:45Z","last_entry_id":9680342},
"feeds":[
{"created_at":"2016-02-09T20:13:30Z","entry_id":9680341,
"field1":"199","field2":"29.554140127388536"},
{"created_at":"2016-02-09T20:13:45Z","entry_id":9680342,
"field1":"193","field2":"27.855626326963908"}
]}'
```

For valid parameters refer to <https://mathworks.com/help/thingspeak/channels-and-charts.html>

CHAPTER 3

Changelog

3.1 v1.0.0

Warning:

- *read_key* and *write_key* have been replaced with *api_key*

The user needs to decide which key should be used. The change is inline with thingspeak API design.

- Upated examples
- Added tests, using [vcrpy](#) to store http responses.
- Switched to use [poetry](#) for deployment and requirements management

3.2 v0.4.0

- Added *thingspeak.get_field()*
- Added examples
- Added timeout option

3.3 v0.3.6

- First releases

3.4 v0.1.1

- Original version of thingspeak library from @bergey

CHAPTER 4

API

```
class thingspeak.Channel (id,          api_key=None,          fmt='json',          timeout=None,
                          server_url='https://api.thingspeak.com')
```

ThingSpeak channel object

```
get (options=None)
    Get a channel feed.
    get-a-channel-feed
```

```
get_field (field=None, options=None)
    Get particular field
    get-channel-field-feed
```

```
get_field_last (field=None, options=None)
    To get the age of the most recent entry in a channel's field feed
    get-channel-field-feed field\_last\_data
```

```
get_last_data_age (field=None, options=None)
    Get last result from particular field in text format
    get-channel-field-feed field\_last\_data\_age
```

```
update (data)
    Update channel feed.
    update-channel-feed
```

```
view ()
    View a Channel
    view-a-channel
```

Warning: This is a complete redesign of the library as compared to v0.1.1. Previous version is available in <https://github.com/bergey/thingspeak> and is no longer maintained.

To install old version you can still use:

```
pip install thingspeak==0.1.1
```

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