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# **thingspeak Documentation**

***Release 1.0.0***

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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:

## Contents



# CHAPTER 1

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## Installation

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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>

### 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

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### API

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```
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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