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# **strawpoll.py Documentation**

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## Contents

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<b>1</b>	<b>A note on coroutines</b>	<b>3</b>
<b>2</b>	<b>API reference</b>	<b>5</b>
2.1	Version info . . . . .	5
2.2	API . . . . .	5
2.3	Poll . . . . .	6
2.4	Exceptions . . . . .	7
<b>3</b>	<b>Indices and tables</b>	<b>9</b>
	<b>Python Module Index</b>	<b>11</b>



Contents:



# CHAPTER 1

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## A note on coroutines

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A coroutine is a function that is either decorated with `@asyncio.coroutine` for python 3.4 or defined with `async def` in python 3.5+.

Coroutines are not like regular functions, if you invoke it as usual, it will not be executed. The proper way to call a coroutine is to use `yield from` in python 3.4 or `await` in python 3.5+, like so:

```
# With python 3.4
@asyncio.coroutine
def my_coro():
    yield from another_coro()

# With python 3.5+
async def my_coro():
    await another_coro()
```

As you can see async programming has slight syntax nuances between python 3.4 and python 3.5+. **It is highly recommended to use python 3.5+.**





An async python wrapper for the Strawpoll API.

## 2.1 Version info

`strawpoll.version_info`

A named tuple containing the five components of the version number in a similar manner as `sys.version_info`.

`strawpoll.__version__`

A string representation of `version_info`.

## 2.2 API

**class** `strawpoll.API` (\*, *loop=None*, *requests\_policy=<RequestsPolicy.asynchronous: 0>*)

Represents the strawpoll API.

**Parameters** `loop` – The event loop to use for the asynchronous calls. Defaults to *None*, which will grab the default event loop instead.

**get\_poll** (*arg*, \*, *request\_policy=None*)

Retrieves a poll from strawpoll.

**Parameters**

- **arg** – Either the ID of the poll or its strawpoll url.
- **request\_policy** (Optional[*RequestsPolicy*]) – Overrides `API.requests_policy` for that request.

**Raises** *HTTPException* – Requesting the poll failed.

**Returns** A poll constructed with the requested data.

**Return type** *Poll*

**submit\_poll** (*poll*, \*, *request\_policy*=None)

Submits a poll on strawpoll.

**Parameters**

- **poll** (*Poll*) – The poll to submit.
- **request\_policy** (Optional[*RequestsPolicy*]) – Overrides `API.requests_policy` for that request.

**Raises**

- *ExistingPoll* – This poll instance has already been submitted.
- *HTTPException* – The submission failed.

**Returns** The given poll updated with the data sent back from the submission.

**Return type** *Poll*

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**Note:** Only polls that have a non empty title and between 2 and 30 options can be submitted.

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**class** strawpoll.**RequestsPolicy**

An enumeration of the requests' policies.

**asynchronous** = 0

The asynchronous policy.

**synchronous** = 1

The synchronous policy.

## 2.3 Poll

**class** strawpoll.**Poll** (*title*, *options*, *\*\*kwargs*)

Represents a poll from strawpoll.

**Parameters**

- **title** (*str*) – The question that the poll is asking.
- **options** (*iterable*) – An iterable of elements accepting the `str()` operation.

**Variables**

- **id** (*int*) – The poll ID on strawpoll. If the poll has not been submitted on or retrieved from strawpoll, it's None instead.
- **multi** (*bool*) – Specifies if the polls accepts multiple votes from one user. Defaults to False.
- **dupcheck** (*str*) – Defines how to handle checking for duplicate votes. Defaults to normal.
- **captcha** (*bool*) – Specifies if the poll requires users to pass a captcha to vote. Defaults to False.

**options**

Returns a list of strings to represent the options for the poll, in the order they were given when the poll was created.

**votes**

Return a list of integers that correspond to the same indexed option which specify the current votes for that option.

**total\_votes**

Returns the total number of votes on the poll.

**url**

Returns the url of the poll. If the poll has not been submitted yet, an empty string is returned instead.

**results** (*limit=None*)

Returns a list of tuples each containing a string representing an option and an int which specify the current votes for that option, ordered by their votes count.

**Parameters** **limit** (*int*) – The maximum number of results to return. If not specified, every results will be returned.

**result\_at** (*index*)

Returns a tuple containing a string representing the option and an int which specify the current votes for that option.

**Parameters** **index** (*int*) – The index of the wanted option in the options list.

## 2.4 Exceptions

**exception** `strawpoll.StrawpollException`

Base class of all the other exceptions in strawpoll.py

**exception** `strawpoll.ExistingPoll`

Exception thrown when an attempt to submit a poll that already has been submitted is made.

**exception** `strawpoll.HTTPException` (*response, data*)

Exception thrown when an HTTP request failed.

**Variables**

- **response** (`aiohttp.ClientResponse`) – The failed HTTP request's response.
- **text** (*str*) – The error message extracted from the response. Can be an empty string.
- **code** (*int*) – The error code extracted from the response. Can be 0 if no error code was found.



## CHAPTER 3

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### Indices and tables

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- `genindex`
- `modindex`
- `search`



**S**

`strawpoll`, 3





## Symbols

`__version__` (in module `strawpoll`), 5

## A

`API` (class in `strawpoll`), 5

`asynchronous` (`strawpoll.RequestsPolicy` attribute), 6

## E

`ExistingPoll`, 7

## G

`get_poll()` (`strawpoll.API` method), 5

## H

`HTTPException`, 7

## O

`options` (`strawpoll.Poll` attribute), 6

## P

`Poll` (class in `strawpoll`), 6

## R

`RequestsPolicy` (class in `strawpoll`), 6

`result_at()` (`strawpoll.Poll` method), 7

`results()` (`strawpoll.Poll` method), 7

## S

`strawpoll` (module), 3

`StrawpollException`, 7

`submit_poll()` (`strawpoll.API` method), 5

`synchronous` (`strawpoll.RequestsPolicy` attribute), 6

## T

`total_votes` (`strawpoll.Poll` attribute), 7

## U

`url` (`strawpoll.Poll` attribute), 7

## V

`version_info` (in module `strawpoll`), 5

`votes` (`strawpoll.Poll` attribute), 6