
python-codeforces Documentation

Release 0.2.3

Mukundan Senthil <mukundan314@gmail.com>

Jan 19, 2019

Contents:

1	Quickstart	1
1.1	Installation	1
1.2	Using python-codeforces	1
2	API	3
2.1	codeforces	3
3	Indices and tables	5
	Python Module Index	7

1.1 Installation

python-codeforces can be installed using pip as follows:

```
pip install python-codeforces
```

Installation from source can be done from the root of the project with the following command.

```
pip install .
```

1.2 Using python-codeforces

1.2.1 Introduction

Direct [API](#) calls can be made with the `codeforces.api.call` function. For Example:

```
>>> from codeforces import api
>>> api.call('user.info', handles="mukundan314")
[{'lastName': 'Senthil', 'country': 'India', 'lastOnlineTimeSeconds': 1547349164,
  ↳ 'city': 'Coimbatore', 'rating': 1495, 'friendOfCount': 4, 'titlePhoto': '//userpic.
  ↳ codeforces.com/765517/title/93ffab462a95eb16.jpg', 'handle': 'Mukundan314', 'avatar
  ↳ ': '//userpic.codeforces.com/765517/avatar/b0cea461ab905c83.jpg', 'firstName':
  ↳ 'Mukundan', 'contribution': 0, 'organization': 'Block Lab', 'rank': 'specialist',
  ↳ 'maxRating': 1502, 'registrationTimeSeconds': 1531657670, 'email':
  ↳ 'mukundan314@gmail.com', 'maxRank': 'specialist'}]
```

1.2.2 Authorization

To make authorized API calls you need to generate a API key at <https://codeforces.com/settings/api>.

And when making authorized call:

```
from codeforces import api

api_key = "xxx"
api_secret = "yyy"

api.call("method_name", key=api_key, secret=api_secret, arg=arg_for_method)
```

2.1 codeforces

2.1.1 api

Functions to call the codeforces api.

`codeforces.api.call (method, key=None, secret=None, **kwargs)`
Call a Codeforces API method.

Parameters

- **method** (*str*) – Name of method to call, list of all methods can be found at <https://codeforces.com/api/help>.
- **key** (*str*, *optional*) – Your api key (needed for authorized calls)
- **secret** (*str*, *optional*) – Secret for your api key.
- ****kwargs** – Arguments for the api call

Returns A python object containing the results of the api call.

Return type any

2.1.2 problem

Functions to info about a problem.

`codeforces.problem.get_info (contest_id, index, gym=False, lang='en')`
Get info for a contest problem.

Parameters

- **contest_id** (*int*) – Id of the contest. It is not the round number. It can be seen in contest URL. For example: /contest/**566**/status

- **index** (*str*) – Usually a letter of a letter, followed by a digit, that represent a problem index in a contest. It can be seen in problem URL. For example: /contest/566/A
- **gym** (*bool*) – If true gym problem is returned otherwise regular problem is returned.

Returns

- **title** (*str*) – Title of the problem.
- **time_limit** (*str*) – Time limit specification for the problem.
- **memory_limit** (*str*) – Memory limit specification for the problem.
- **sample_tests** (*zip*) – Sample tests given for the problem.

2.1.3 error

All exceptions used in codeforces.

exception `codeforces.error.CodeforcesAPIError` (*comment, method, args*)

Raised by `api.call` if method returns a error or is not found.

CHAPTER 3

Indices and tables

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

C

- `codeforces.api`, 3
- `codeforces.error`, 4
- `codeforces.problem`, 3

C

`call()` (in module `codeforces.api`), 3
`codeforces.api` (module), 3
`codeforces.error` (module), 4
`codeforces.problem` (module), 3
`CodeforcesAPIError`, 4

G

`get_info()` (in module `codeforces.problem`), 3