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# **python-codeforces Documentation**

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## 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

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### Indices and tables

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