
aiovkcom

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aiovkcom is a python [vk.com API](#) wrapper. The main features are:

- authorization ([Authorization Code](#), [Implicit Flow](#))
- [REST API](#) methods

CHAPTER 1

Usage

To use [vk.com API](#) you need a registered app and [vk.com](#) account. For more details, see [aiovkcom Documentation](#).

```
from aiovkcom import TokenSession, API

session = TokenSession(access_token, v='5.101')
api = API(session)

events = await api.wall.get()
friends = await api.friends.get()
```

Pass `access_token` that was received after authorization. For more details, see [aiovkcom Documentation](#).

CHAPTER 2

Installation

```
$ pip install aiovkcom
```

or

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

Supported Python Versions

Python 3.5, 3.6, 3.7 and 3.8 are supported.

3.1 Getting Started

3.1.1 Installation

If you use pip, just type

```
$ pip install aiovkcom
```

You can install from the source code like

```
$ git clone https://github.com/KonstantinTogoi/aiovkcom.git
$ cd aiovkcom
$ python setup.py install
```

3.1.2 Account

Sign up in vk.com.

3.1.3 Application

After signing up visit vk.com API [documentation](#) page and create a new application: <https://vk.com/editapp?act=create>.

Save **client_id** (aka **app_id**) and **client_secret** (aka **app_secret**) for user authorization.

```
app_id = 'your client id'
app_secret = 'your secret key'
```

3.2 Authorization

To authorize with vk.com OAuth 2.0 you need `app_id` (Implicit Grant) or `app_id` and `app_secret` (Code Grant).

The preferred way to authorize is an `async with` statement. After authorization the session will have the following attributes:

- `access_token`
- `expires_in`
- `user_id`

3.2.1 Authorization Code Grant

```
from aiovkcom import CodeSession, API

app_id = 123456
app_secret = 'abc'

async with CodeSession(app_id, app_secret, code, redirect_uri) as session:
    api = API(session)
    ...
```

About OAuth 2.0 Authorization Code Grant: <https://oauth.net/2/grant-types/authorization-code/>

For more details, see https://vk.com/dev/authcode_flow_user

3.2.2 Implicit Grant

```
from aiovkcom import ImplicitSession, API

app_id = 123456
app_secret = ''

async with ImplicitSession(app_id, login, passwd, scope) as session:
    api = API(session)
    ...
```

About OAuth 2.0 Implicit Grant: <https://oauth.net/2/grant-types/implicit/>

For more details, see https://vk.com/dev/implicit_flow_user

3.3 Session

3.3.1 Request

The session makes **GET** requests when you call methods of an `API` instance. For example, the following code block

```
from aiovkcom import TokenSession, API

session = TokenSession('abcde', v='5.101')
api = API(session)
news = await api.newsfeed.get()
```

is equivalent to **GET** request:

```
https://api.vk.com/method/newsfeed.get?access_token=abcde&v=5.101
```

3.3.2 Response

By default, a session after executing request returns response's body (value of "response" key). For example, if original response looks like this:

```
{"response": [{"id": 210700286, "first_name": "Lindsey", "last_name": "Stirling"}]}
```

then the session will return

```
[{"id": 210700286, "first_name": "Lindsey", "last_name": "Stirling"}]
```

You can pass `pass_error` parameter to `TokenSession` for returning original response (including errors).

3.3.3 Error

In case of an error, by default, an exception is raised. You can pass `pass_error` parameter to `TokenSession` for returning original error's body. For example:

```
{"error": {"error_code": 1, "error_msg": "Unknown error occurred", "request_params":  
→ { ... }}}
```

3.4 REST API

List of all methods is available here: <https://vk.com/dev/methods>.

3.4.1 Executing requests

```
from aiovkcom import API

api = API(session)

events = await api.newsfeed.get() # events for current user
friends = await api.friends.get() # current user's friends
```

Under the hood each API request is enriched with parameters (https://vk.com/dev/api_requests):

- `access_token`
- `v`

to authorize request.

CHAPTER 4

Indices and tables

- `genindex`
- `modindex`