
krakenex Documentation

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CHAPTER 1

Interface classes

General-use interface provided by *krakenex*.

Internally, classes are in separate modules, but they are also exported to the top-level namespace, so the following uses are possible:

```
# recommended, unlikely to result in namespace collisions
import krakenex
k = krakenex.API()
c = krakenex.Connection()

# OK for simple scripts
from krakenex import *
k = API()
c = Connection()

# can be explicit in both cases
k = krakenex.api.API()
c = krakenex.connection.Connection()
```

class `krakenex.API` (*key='', secret='', conn=None*)

Bases: `object`

Maps a key/secret pair to a connection.

Specifying either is optional.

Note: If a connection is not set, a new one will be opened on first query. If a connection is set, during creation or as a result of a previous query, it will be reused for subsequent queries. However, its state is not checked.

Note: No timeout handling or query rate limiting is performed.

Note: If a private query is performed without setting a key/secret pair, the effects are undefined.

`__init__` (*key*=', *secret*=', *conn*=None)

Create an object with authentication information.

Parameters

- **key** (*str*) – key required to make queries to the API
- **secret** (*str*) – private key used to sign API messages
- **conn** (`krakenex.Connection`) – existing connection object to use

Returns None

`__module__` = 'krakenex.api'

`_query` (*urlpath*, *req*={}, *conn*=None, *headers*={})

Low-level query handling.

Preferably use `query_private()` or `query_public()` instead.

Parameters

- **urlpath** (*str*) – API URL path sans host
- **req** (*dict*) – additional API request parameters
- **conn** (`krakenex.Connection`) – existing connection object to use
- **headers** (*dict*) – HTTPS headers

Returns `json.loads()` -deserialised Python object

`load_key` (*path*)

Load key and secret from file.

Expected file format is key and secret on separate lines.

Parameters **path** (*str*) – path to keyfile

Returns None

`query_private` (*method*, *req*={}, *conn*=None)

API queries that require a valid key/secret pair.

Parameters

- **method** (*str*) – API method name
- **req** (*dict*) – additional API request parameters
- **conn** (`krakenex.Connection`) – existing connection object to use

Returns `json.loads()` -deserialised Python object

`query_public` (*method*, *req*={}, *conn*=None)

API queries that do not require a valid key/secret pair.

Parameters

- **method** (*str*) – API method name
- **req** (*dict*) – additional API request parameters
- **conn** (`krakenex.Connection`) – existing connection object to use

Returns `json.loads()` -deserialised Python object

set_connection (*conn*)

Set an existing connection to be used as a default in queries.

Note: May become deprecated in future versions.

Parameters *conn* (`krakenex.Connection`) – existing connection object to use

Returns None

class `krakenex.Connection` (*uri*=`'api.kraken.com'`, *timeout*=30)

Bases: `object`

Object representing a single connection.

Opens a reusable HTTPS connection. Allows specifying HTTPS timeout, or server URI (for testing purposes).

__init__ (*uri*=`'api.kraken.com'`, *timeout*=30)

Create an object for reusable connections.

Parameters

- **uri** (*str*) – URI to connect to
- **timeout** (*int*) – blocking operations' timeout (in seconds)

Returns None

__module__ = `'krakenex.connection'`

__request (*url*, *req*=`{}`, *headers*=`{}`)

Send POST request to API server using this connection.

Parameters

- **url** (*str*) – fully-qualified URL with all necessary urlencoded information
- **req** (*dict*) – additional API request parameters
- **headers** (*dict*) – additional HTTPS headers, such as API-Key and API-Sign

Returns `http.client`-decoded response

close ()

Close this connection.

Returns None

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