krakenex Documentation

Release 2.1.0

Noel Maersk

Apr 20, 2018

Contents

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
kraken = krakenex.API()

# OK for simple scripts
from krakenex import *
kraken = API()

# can be explicit in both cases
# <some import form here>
kraken = krakenex.api.API()
```

class krakenex.**API**(*key=''*, *secret=''*)

Bases: object

Maintains a single session between this machine and Kraken.

Specifying a key/secret pair is optional. If not specified, private queries will not be possible.

The `session` attribute is a `requests.Session` object. Customise networking options by manipulating it.

Query responses, as received by `requests`, are retained as attribute `response` of this object. It is overwritten on each query.

Note: No query rate limiting is performed.

__init__(*key=''*, *secret=''*)

Create an object with authentication information.

Parameters

- **key** (*str*) – (optional) key identifier for queries to the API
- **secret** (*str*) – (optional) actual private key used to sign messages

Returns None

__module__ = 'krakenex.api'

_nonce()
Nonce counter.

Returns an always-increasing unsigned integer (up to 64 bits wide)

_query(*urlpath*, *data*, *headers=None*, *timeout=None*)
Low-level query handling.

Note: Use *query_private()* or *query_public()* unless you have a good reason not to.

Parameters

- **urlpath** (*str*) – API URL path sans host
- **data** (*dict*) – API request parameters
- **headers** (*dict*) – (optional) HTTPS headers
- **timeout** (*int or float*) – (optional) if not `None`, a `requests.HTTPError` will be thrown after `timeout` seconds if a response has not been received

Returns `requests.Response.json()`-deserialised Python object

Raises `requests.HTTPError`: if response status not successful

_sign(*data*, *urlpath*)
Sign request data according to Kraken's scheme.

Parameters

- **data** (*dict*) – API request parameters
- **urlpath** (*str*) – API URL path sans host

Returns signature digest

close()
Close this session.

Returns None

json_options(***kwargs*)
Set keyword arguments to be passed to JSON deserialization.

Parameters **kwargs** – passed to `requests.Response.json()`

Returns this instance for chaining

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*, *data=None*, *timeout=None*)
Performs an API query that requires a valid key/secret pair.

Parameters

- **method** (*str*) – API method name
- **data** (*dict*) – (optional) API request parameters
- **timeout** (*int or float*) – (optional) if not `None`, a `requests.HTTPError` will be thrown after `timeout` seconds if a response has not been received

Returns `requests.Response.json()`-deserialised Python object

query_public(*method*, *data=None*, *timeout=None*)
Performs an API query that does not require a valid key/secret pair.

Parameters

- **method** (*str*) – API method name
- **data** (*dict*) – (optional) API request parameters
- **timeout** (*int or float*) – (optional) if not `None`, a `requests.HTTPError` will be thrown after `timeout` seconds if a response has not been received

Returns `requests.Response.json()`-deserialised Python object

Python Module Index

k

Index

Symbols

A

C

J

K

L

Q