pyoanda Documentation

Release

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Contents

Oanda's API python wrapper. Robust and Fast API wrapper for your Forex bot.

Python library that wraps oanda API. Built on top of requests, it's easy to use and makes sense.

Pyoanda is released under the MIT license. The source code is on GitHub and issues are also tracked on GitHub. Works well with python 2.7, 3, 3.1, 3.2, 3.3, 3.4 and pypy.

Contents:

CHAPTER 1

The MIT License (MIT)

CHAPTER 2

Installing pyoanda

Pyoanda is on the Python Package Index (PyPI), so it can be installed standard Python tools like `pip` or `easy_install`, and as well you can install from sources

Pypi

For an easy and always standard setup:

```
$ pip install pyoanda
```

Manual

For a custom or developer installation:

```
$ git clone git@github.com:toloco/pyoanda.git
$ cd pyoanda
$ python setup.py install
# Make sure it works
$ python setup.py test
```

CHAPTER 3

Usage

```
from pyoanda import Client, PRACTICE

c = Client(
    environment=PRACTICE,
    account_id="Your Oanda account ID",
    access_token="Your Oanda access token"
)

c.get_instrument_history(
    instrument="EUR_GBP",
    candle_format="midpoint",
    granularity="S30"
)
```

Note: that if you are indenting to use the sandbox environment, you should first use the API to create an account then use the account_id to run the example above.

```
from pyoanda import Client, SANDBOX

c = Client(environment=SANDBOX)

# Create an account
user = c.create_account()

# Retrieve the username and accountId values for future use
print "username: %s\naccount_id: %d" % (user['username'], user['accountId'])
```

CHAPTER 4

pyoanda package

Submodules

pyoanda.client module

class pyoanda.client.**Client**(*environment*, *account_id=None*, *access_token=None*, *json_options=None*)

Bases: object

API_VERSION = 'v1'

close_order(*order_id*)

See more: http://developer.oanda.com/rest-live/orders/#closeOrder

close_position(*instrument*)

Close an existing position

instrument [string] The instrument to close the position for.

See more: http://developer.oanda.com/rest-live/positions/#closeExistingPosition

close_trade(*trade_id*)

Close an open trade.

trade_id [int] The id of the trade to close.

See more: http://developer.oanda.com/rest-live/trades/#closeOpenTrade

create_account(*currency=None*)

Create a new account.

This call is only available on the sandbox system. Please create accounts on fxtrade.oanda.com on our production system.

See more: http://developer.oanda.com/rest-sandbox/accounts/#-a-name-createtestaccount-a-create-a-test-account

create_order(*order*)

See more: http://developer.oanda.com/rest-live/orders/#createNewOrder

get_accounts(*username=None*)
Get a list of accounts owned by the user.

username [string] The name of the user. Note: This is only required on the sandbox, on production systems your access token will identify you.

See more: http://developer.oanda.com/rest-sandbox/accounts/#-a-name-getaccountsforuser-a-get-accounts-for-a-user

get_credentials()
See more: http://developer.oanda.com/rest-live/accounts/

get_instrument_history(*instrument*, *candle_format='bidask'*, *granularity='S5'*, *count=500*, *daily_alignment=None*, *alignment_timezone=None*, *weekly_alignment='Monday'*, *start=None*, *end=None*)
See more: http://developer.oanda.com/rest-live/rates/#retrieveInstrumentHistory

get_instruments()
See more: http://developer.oanda.com/rest-live/rates/#getInstrumentList

get_order(*order_id*)
See more: http://developer.oanda.com/rest-live/orders/#getInformationForAnOrder

get_orders(*instrument=None*, *count=50*)
See more: http://developer.oanda.com/rest-live/orders/#getOrdersForAnAccount

get_position(*instrument*)
Get the position for an instrument.

instrument [string] The instrument to get the open position for.

See more: http://developer.oanda.com/rest-live/positions/#getPositionForInstrument

get_positions()
Get a list of all open positions.

See more: http://developer.oanda.com/rest-live/positions/#getListAllOpenPositions

get_prices(*instruments*, *stream=True*)
See more: http://developer.oanda.com/rest-live/rates/#getCurrentPrices

get_trade(*trade_id*)
Get information on a specific trade.

trade_id [int] The id of the trade to get information on.

See more: http://developer.oanda.com/rest-live/trades/#getInformationSpecificTrade

get_trades(*max_id=None*, *count=None*, *instrument=None*, *ids=None*)
Get a list of open trades

max_id [int] The server will return trades with id less than or equal to this, in descending order (for pagination)

count [int] Maximum number of open trades to return. Default: 50 Max value: 500

instrument [str] Retrieve open trades for a specific instrument only Default: all

ids [list] A list of trades to retrieve. Maximum number of ids: 50. No other parameter may be specified with the ids parameter.

See more: http://developer.oanda.com/rest-live/trades/#getListOpenTrades

get_transaction(*transaction_id*)
Get information on a specific transaction.

transaction_id [int] The id of the transaction to get information on.

See more: http://developer.oanda.com/rest-live/transaction-history/#getInformationForTransaction http://developer.oanda.com/rest-live/transaction-history/#transactionTypes

get_transaction_history(*max_wait=5.0*)
Download full account history.

Uses request_transaction_history to get the transaction history URL, then polls the given URL until it's ready (or the max_wait time is reached) and provides the decoded response.

max_wait [float] The total maximum time to spend waiting for the file to be ready; if this is exceeded a failed response will be returned. This is not guaranteed to be strictly followed, as one last attempt will be made to check the file before giving up.

See more: http://developer.oanda.com/rest-live/transaction-history/#getFullAccountHistory http://developer.oanda.com/rest-live/transaction-history/#transactionTypes

get_transactions(*max_id=None*, *count=None*, *instrument='all'*, *ids=None*)
Get a list of transactions.

max_id [int] The server will return transactions with id less than or equal to this, in descending order (for pagination).

count [int] Maximum number of open transactions to return. Default: 50. Max value: 500.

instrument [str] Retrieve open transactions for a specific instrument only. Default: all.

ids [list] A list of transactions to retrieve. Maximum number of ids: 50. No other parameter may be specified with the ids parameter.

See more: http://developer.oanda.com/rest-live/transaction-history/#getTransactionHistory http://developer.oanda.com/rest-live/transaction-history/#transactionTypes

request_transaction_history()
Request full account history.

Submit a request for a full transaction history. A successfully accepted submission results in a response containing a URL in the Location header to a file that will be available once the request is served. Response for the URL will be HTTP 404 until the file is ready. Once served the URL will be valid for a certain amount of time.

See more: http://developer.oanda.com/rest-live/transaction-history/#getFullAccountHistory http://developer.oanda.com/rest-live/transaction-history/#transactionTypes

update_order(*order_id*, *order*)
See more: http://developer.oanda.com/rest-live/orders/#modifyExistingOrder

update_trade(*trade_id*, *stop_loss=None*, *take_profit=None*, *trailing_stop=None*)
Modify an existing trade.

Note: Only the specified parameters will be modified. All other parameters will remain unchanged. To remove an optional parameter, set its value to 0.

trade_id [int] The id of the trade to modify.

stop_loss [number] Stop Loss value.

take_profit [number] Take Profit value.

trailing_stop [number] Trailing Stop distance in pips, up to one decimal place

See more: http://developer.oanda.com/rest-live/trades/#modifyExistingTrade

pyoanda.exceptions module

exception pyoanda.exceptions.**BadCredentials**
Bases: Exception

exception pyoanda.exceptions.**BadRequest**
Bases: Exception

pyoanda.order module

class pyoanda.order.**Order**(**kwargs*)
Bases: object

check()
Logic extracted from: http://developer.oanda.com/rest-live/orders/#createNewOrder

Module contents

CHAPTER 5

Indices and tables

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Python Module Index

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