
python-kucoin Documentation

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This is an unofficial Python wrapper for the [Kucoin exchanges REST and Websocket API v2](#). I am in no way affiliated with Kucoin, use at your own risk.

PyPi <https://pypi.python.org/pypi/python-kucoin>

Source code <https://github.com/sammchardy/python-kucoin>

Documentation <https://python-kucoin.readthedocs.io/en/latest/>

Blog with examples <https://sammchardy.github.io>

CHAPTER 1

Features

- Implementation of REST endpoints
- Simple handling of authentication
- Response exception handling
- Implement websockets (note only python3.5+)

CHAPTER 2

TODO

- L2 and L3 Local Order Books

Register an account with Kucoin.

To test on the Sandbox register with Kucoin Sandbox.

Generate an API Key or Generate an API Key in Sandbox and enable it.

```
pip install python-kucoin
```

```
from kucoin.client import Client

api_key = '<api_key>'
api_secret = '<api_secret>'
api_passphrase = '<api_passphrase>'

client = Client(api_key, api_secret, api_passphrase)

# or connect to Sandbox
# client = Client(api_key, api_secret, api_passphrase, sandbox=True)

# get currencies
currencies = client.get_currencies()

# get market depth
depth = client.get_order_book('KCS-BTC')

# get symbol klines
klines = client.get_kline_data('KCS-BTC')

# get list of markets
markets = client.get_markets()

# place a market buy order
order = client.create_market_order('NEO', Client.SIDE_BUY, size=20)
```

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```
# get list of active orders
orders = client.get_active_orders('KCS-BTC')
```

Note only for python3.5+

```
import asyncio

from kucoin.client import Client
from kucoin.asyncio import KucoinSocketManager

api_key = '<api_key>'
api_secret = '<api_secret>'
api_passphrase = '<api_passphrase>'

async def main():
    global loop

    # callback function that receives messages from the socket
    async def handle_evt(msg):
        if msg['topic'] == '/market/ticker:ETH-USDT':
            print(f'got ETH-USDT tick:{msg["data"]}')

        elif msg['topic'] == '/market/snapshot:BTC':
            print(f'got BTC market snapshot:{msg["data"]}')

        elif msg['topic'] == '/market/snapshot:KCS-BTC':
            print(f'got KCS-BTC symbol snapshot:{msg["data"]}')

        elif msg['topic'] == '/market/ticker:all':
            print(f'got all market snapshot:{msg["data"]}')

        elif msg['topic'] == '/account/balance':
            print(f'got account balance:{msg["data"]}')

        elif msg['topic'] == '/market/level2:KCS-BTC':
            print(f'got L2 msg:{msg["data"]}')
```

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```

elif msg['topic'] == '/market/match:BTC-USDT':
    print(f'got market match msg:{msg["data"]}')

elif msg['topic'] == '/market/level3:BTC-USDT':
    if msg['subject'] == 'trade.l3received':
        if msg['data']['type'] == 'activated':
            # must be logged into see these messages
            print(f"L3 your order activated: {msg['data']}")
        else:
            print(f"L3 order received:{msg['data']}")
    elif msg['subject'] == 'trade.l3open':
        print(f"L3 order open: {msg['data']}")
    elif msg['subject'] == 'trade.l3done':
        print(f"L3 order done: {msg['data']}")
    elif msg['subject'] == 'trade.l3match':
        print(f"L3 order matched: {msg['data']}")
    elif msg['subject'] == 'trade.l3change':
        print(f"L3 order changed: {msg['data']}")

client = Client(api_key, api_secret, api_passphrase)

ksm = await KucoinSocketManager.create(loop, client, handle_evt)

# for private topics such as '/account/balance' pass private=True
ksm_private = await KucoinSocketManager.create(loop, client, handle_evt,
↳private=True)

# Note: try these one at a time, if all are on you will see a lot of output

# ETH-USDT Market Ticker
await ksm.subscribe('/market/ticker:ETH-USDT')
# BTC Symbol Snapshots
await ksm.subscribe('/market/snapshot:BTC')
# KCS-BTC Market Snapshots
await ksm.subscribe('/market/snapshot:KCS-BTC')
# All tickers
await ksm.subscribe('/market/ticker:all')
# Level 2 Market Data
await ksm.subscribe('/market/level2:KCS-BTC')
# Market Execution Data
await ksm.subscribe('/market/match:BTC-USDT')
# Level 3 market data
await ksm.subscribe('/market/level3:BTC-USDT')
# Account balance - must be authenticated
await ksm_private.subscribe('/account/balance')

while True:
    print("sleeping to keep loop open")
    await asyncio.sleep(20, loop=loop)

if __name__ == "__main__":

    loop = asyncio.get_event_loop()
    loop.run_until_complete(main())

```

For more check out the documentation.

CHAPTER 5

Donate

If this library helped you out feel free to donate.

- ETH: 0xD7a7fDdCfA687073d7cC93E9E51829a727f9fE70
- NEO: AVJB4ZgN7VgSUtArCt94y7ZYT6d5NDfpBo
- LTC: LPC5vw9ajR1YndE1hYVeo3kJ9LdHjcRCUZ
- BTC: 1Dknp6L6oRZrHDECRedihPzx2sSfmvEBys

If you use [Binance](#) check out my [python-binance](#) library.

If you use [Binance Chain](#) check out my [python-binance-chain](#) library.

If you use [Allcoin](#) check out my [python-allcoin](#) library.

If you use [IDEX](#) check out my [python-idex](#) library.

If you use [BigONE](#) check out my [python-bigone](#) library.

6.1 Contents

6.1.1 Getting Started

This API has been updated to work with the v2 Sandbox

Installation

`python-kucoin` is available on [PYPI](#). Install with `pip`:

```
pip install python-kucoin
```

For previous v1 API install with

```
pip install python-kucoin==0.1.12
```

Register on Kucoin

Firstly register an account with [Kucoin](#).

To test on the Sandbox register with [Kucoin Sandbox](#).

Generate an API Key

To use signed account methods you are required to [create an API Key](#) and enable it.

Initialise the client

Pass your API Key, Secret and API Passphrase

```
from kucoin.client import Client
client = Client(api_key, api_secret, api_passphrase)
```

Requests Settings

python-kucoin uses the [requests](#) library.

You can set custom requests parameters for all API calls when creating the client.

```
client = Client("api-key", "api-secret", "api-passphrase", {"verify": False, "timeout": 20})
```

Check out the [requests documentation](#) for all options.

Proxy Settings

You can use the Requests Settings method above

```
proxies = {
    'http': 'http://10.10.1.10:3128',
    'https': 'http://10.10.1.10:1080'
}

# in the Client instantiation
client = Client("api-key", "api-secret", {'proxies': proxies})
```

Or set an environment variable for your proxy if required to work across all requests.

An example for Linux environments from the [requests Proxies documentation](#) is as follows.

```
$ export HTTP_PROXY="http://10.10.1.10:3128"
$ export HTTPS_PROXY="http://10.10.1.10:1080"
```

For Windows environments

```
C:\>set HTTP_PROXY=http://10.10.1.10:3128
C:\>set HTTPS_PROXY=http://10.10.1.10:1080
```

API Rate Limit

Public Endpoints - 30 requests per ten seconds.

Private Endpoints - 50 requests per ten seconds.

- Websocket *

Connect - 30 times per minutes

Subscribe - 120 times per minute

Unsubscribe - 120 times per minute

6.1.2 Constants

Kucoin defines constants for Redord Types, Order Side, Order Status and Resolution. These are accessible from the Client class.

```
SIDE_BUY = 'buy'
SIDE_SELL = 'sell'

ACCOUNT_MAIN = 'main'
ACCOUNT_TRADE = 'trade'

ORDER_LIMIT = 'limit'
ORDER_MARKET = 'market'
ORDER_LIMIT_STOP = 'limit_stop'
ORDER_MARKET_STOP = 'market_stop'

STOP_LOSS = 'loss'
STOP_ENTRY = 'entry'

STP_CANCEL_NEWEST = 'CN'
STP_CANCEL_OLDEST = 'CO'
STP_DECREASE_AND_CANCEL = 'DC'
STP_CANCEL_BOTH = 'CB'

TIMEINFORCE_GOOD_TILL_CANCELLED = 'GTC'
TIMEINFORCE_GOOD_TILL_TIME = 'GTT'
TIMEINFORCE_IMMEDIATE_OR_CANCEL = 'IOC'
TIMEINFORCE_FILL_OR_KILL = 'FOK'
```

Use in your code like below.

```
from kucoin.client import Client

order_side = Client.SIDE_BUY
```

6.1.3 General Endpoints

```
class kucoin.client.Client (api_key, api_secret, passphrase, sandbox=False, re-quests_params=None)
```

```
get_timestamp ()
```

Get the server timestamp

<https://docs.kucoin.com/#time>

Returns response timestamp in ms

6.1.4 Currency Endpoints

```
class kucoin.client.Client (api_key, api_secret, passphrase, sandbox=False, re-quests_params=None)
```

```
get_currencies ()
```

List known currencies

<https://docs.kucoin.com/#get-currencies>

```
currencies = client.get_currencies ()
```

Returns API Response

```
[
  {
    "currency": "BTC",
    "name": "BTC",
    "fullName": "Bitcoin",
    "precision": 8
  },
  {
    "currency": "ETH",
    "name": "ETH",
    "fullName": "Ethereum",
    "precision": 7
  }
]
```

Raises KucoinResponseException, KucoinAPIException

```
get_currency (currency)
```

Get single currency detail

<https://docs.kucoin.com/#get-currency-detail>

```
# call with no coins
currency = client.get_currency ('BTC')
```

Returns API Response

```
{
  "currency": "BTC",
  "name": "BTC",
  "fullName": "Bitcoin",
  "precision": 8,
  "withdrawalMinSize": "0.002",
  "withdrawalMinFee": "0.0005",
  "isWithdrawEnabled": true,
  "isDepositEnabled": true
}
```

Raises KucoinResponseException, KucoinAPIException

6.1.5 Account Endpoints

class `kucoin.client.Client` (*api_key*, *api_secret*, *passphrase*, *sandbox=False*, *requests_params=None*)

cancel_withdrawal (*withdrawal_id*)

Cancel a withdrawal

<https://docs.kucoin.com/#cancel-withdrawal>

Parameters `withdrawal_id` (*string*) – ID of withdrawal

```
client.cancel_withdrawal('5bffb63303aa675e8bbe18f9')
```

Returns None

Raises `KucoinResponseException`, `KucoinAPIException`

create_account (*account_type*, *currency*)

Create an account

<https://docs.kucoin.com/#create-an-account>

Parameters

- **account_type** (*string*) – Account type - main or trade
- **currency** (*string*) – Currency code

```
account = client.create_account('trade', 'BTC')
```

Returns API Response

```
{
  "id": "5bd6e9286d99522a52e458de"
}
```

Raises `KucoinResponseException`, `KucoinAPIException`

create_deposit_address (*currency*)

Create deposit address of currency for deposit. You can just create one deposit address.

<https://docs.kucoin.com/#create-deposit-address>

Parameters `currency` (*string*) – Name of currency

```
address = client.create_deposit_address('NEO')
```

Returns `ApiResponse`

```
{
  "address": "0x78d3ad1c0aa1bf068e19c94a2d7b16c9c0fcd8b1",
  "memo": "5c247c8a03aa677cea2a251d"
}
```

Raises `KucoinResponseException`, `KucoinAPIException`

create_inner_transfer (*from_account_id, to_account_id, amount, order_id=None*)

Get account holds placed for any active orders or pending withdraw requests

<https://docs.kucoin.com/#get-holds>

Parameters

- **from_account_id** (*str*) – ID of account to transfer funds from - from list_accounts()
- **to_account_id** (*str*) – ID of account to transfer funds to - from list_accounts()
- **amount** (*int*) – Amount to transfer
- **order_id** (*string*) – (optional) Request ID (default flat_uuid())

```
transfer = client.create_inner_transfer('5bd6e9216d99522a52e458d6',  
↳5bc7f080b39c5c03286eef8e', 20)
```

Returns API Response

```
{  
  "orderId": "5bd6e9286d99522a52e458de"  
}
```

Raises KucoinResponseException, KucoinAPIException

create_withdrawal (*currency, amount, address, memo=None, is_inner=False, remark=None*)

Process a withdrawal

<https://docs.kucoin.com/#apply-withdraw>

Parameters

- **currency** (*string*) – Name of currency
- **amount** (*number*) – Amount to withdraw
- **address** (*string*) – Address to withdraw to
- **memo** (*string*) – (optional) Remark to the withdrawal address
- **is_inner** (*bool*) – (optional) Remark to the withdrawal address
- **remark** (*string*) – (optional) Remark

```
withdrawal = client.create_withdrawal('NEO', 20, '598aeb627da3355fa3e851')
```

Returns ApiResponse

```
{  
  "withdrawalId": "5bffb63303aa675e8bbe18f9"  
}
```

Raises KucoinResponseException, KucoinAPIException

get_account (*account_id*)

Get an individual account

<https://docs.kucoin.com/#get-an-account>

Parameters **account_id** (*string*) – ID for account - from list_accounts()

```
account = client.get_account('5bd6e9216d99522a52e458d6')
```

Returns API Response

```
{
  "currency": "KCS",
  "balance": "1000000060.6299",
  "available": "1000000060.6299",
  "holds": "0"
}
```

Raises KucoinResponseException, KucoinAPIException

get_account_holds (*account_id*, *page=None*, *page_size=None*)

Get account holds placed for any active orders or pending withdraw requests

<https://docs.kucoin.com/#get-holds>

Parameters

- **account_id** (*string*) – ID for account - from list_accounts()
- **page** (*int*) – (optional) Current page - default 1
- **page_size** (*int*) – (optional) Number of results to return - default 50

```
holds = client.get_account_holds('5bd6e9216d99522a52e458d6')
```

```
holds = client.get_account_holds('5bd6e9216d99522a52e458d6', page=2, page_
↳size=10)
```

Returns API Response

```
{
  "currentPage": 1,
  "pageSize": 10,
  "totalNum": 2,
  "totalPage": 1,
  "items": [
    {
      "currency": "ETH",
      "holdAmount": "5083",
      "bizType": "Withdraw",
      "orderId": "5bc7f080b39c5c03286eef8e",
      "createdAt": 1545898567000,
      "updatedAt": 1545898567000
    },
    {
      "currency": "ETH",
      "holdAmount": "1452",
      "bizType": "Withdraw",
      "orderId": "5bc7f518b39c5c033818d62d",
      "createdAt": 1545898567000,
      "updatedAt": 1545898567000
    }
  ]
}
```

Raises KucoinResponseException, KucoinAPIException

get_accounts ()

Get a list of accounts

<https://docs.kucoin.com/#accounts>

```
accounts = client.get_accounts()
```

Returns API Response

```
[
  {
    "id": "5bd6e9286d99522a52e458de",
    "currency": "BTC",
    "type": "main",
    "balance": "237582.04299",
    "available": "237582.032",
    "holds": "0.01099"
  },
  {
    "id": "5bd6e9216d99522a52e458d6",
    "currency": "BTC",
    "type": "trade",
    "balance": "1234356",
    "available": "1234356",
    "holds": "0"
  }
]
```

Raises KucoinResponseException, KucoinAPIException

get_deposit_address (*currency*)

Get deposit address for a currency

<https://docs.kucoin.com/#get-deposit-address>

Parameters **currency** (*string*) – Name of currency

```
address = client.get_deposit_address('NEO')
```

Returns ApiResponse

```
{
  "address": "0x78d3ad1c0aa1bf068e19c94a2d7b16c9c0fcd8b1",
  "memo": "5c247c8a03aa677cea2a251d"
}
```

Raises KucoinResponseException, KucoinAPIException

get_deposits (*currency=None, status=None, start=None, end=None, page=None, limit=None*)

Get deposit records for a currency

<https://docs.kucoin.com/#get-deposit-list>

Parameters

- **currency** (*string*) – Name of currency (optional)

- **status** (*string*) – optional - Status of deposit (PROCESSING, SUCCESS, FAILURE)
- **start** (*string*) – (optional) Start time as unix timestamp
- **end** (*string*) – (optional) End time as unix timestamp
- **page** (*int*) – (optional) Page to fetch
- **limit** (*int*) – (optional) Number of transactions

```
deposits = client.get_deposits('NEO')
```

Returns ApiResponse

```
{
  "currentPage": 1,
  "pageSize": 5,
  "totalNum": 2,
  "totalPage": 1,
  "items": [
    {
      "address": "0x5f047b29041bcfdbf0e4478cdfa753a336ba6989",
      "memo": "5c247c8a03aa677cea2a251d",
      "amount": 1,
      "fee": 0.0001,
      "currency": "KCS",
      "isInner": false,
      "walletTxId": "5bbb57386d99522d9f954c5a@test004",
      "status": "SUCCESS",
      "createdAt": 1544178843000,
      "updatedAt": 1544178891000
    }, {
      "address": "0x5f047b29041bcfdbf0e4478cdfa753a336ba6989",
      "memo": "5c247c8a03aa677cea2a251d",
      "amount": 1,
      "fee": 0.0001,
      "currency": "KCS",
      "isInner": false,
      "walletTxId": "5bbb57386d99522d9f954c5a@test003",
      "status": "SUCCESS",
      "createdAt": 1544177654000,
      "updatedAt": 1544178733000
    }
  ]
}
```

Raises KucoinResponseException, KucoinAPIException

get_withdrawal_quotas (*currency*)

Get withdrawal quotas for a currency

<https://docs.kucoin.com/#get-withdrawal-quotas>

Parameters **currency** (*string*) – Name of currency

```
quotas = client.get_withdrawal_quotas('ETH')
```

Returns ApiResponse

```
{
  "currency": "ETH",
  "availableAmount": 2.9719999,
  "remainAmount": 2.9719999,
  "withdrawMinSize": 0.1000000,
  "limitBTCAmount": 2.0,
  "innerWithdrawMinFee": 0.00001,
  "isWithdrawEnabled": true,
  "withdrawMinFee": 0.0100000,
  "precision": 7
}
```

Raises KucoinResponseException, KucoinAPIException

get_withdrawals (*currency=None, status=None, start=None, end=None, page=None, limit=None*)

Get deposit records for a currency

<https://docs.kucoin.com/#get-withdrawals-list>

Parameters

- **currency** (*string*) – Name of currency (optional)
- **status** (*string*) – optional - Status of deposit (PROCESSING, SUCCESS, FAILURE)
- **start** (*string*) – (optional) Start time as unix timestamp
- **end** (*string*) – (optional) End time as unix timestamp
- **page** (*int*) – (optional) Page to fetch
- **limit** (*int*) – (optional) Number of transactions

```
withdrawals = client.get_withdrawals('NEO')
```

Returns ApiResponse

```
{
  "currentPage": 1,
  "pageSize": 10,
  "totalNum": 1,
  "totalPage": 1,
  "items": [
    {
      "id": "5c2dc64e03aa675aa263f1ac",
      "address": "0x5bedb060b8eb8d823e2414d82acce78d38be7fe9",
      "memo": "",
      "currency": "ETH",
      "amount": 1.0000000,
      "fee": 0.0100000,
      "walletTxId": "3e2414d82acce78d38be7fe9",
      "isInner": false,
      "status": "FAILURE",
      "createdAt": 1546503758000,
      "updatedAt": 1546504603000
    }
  ]
}
```

Raises KucoinResponseException, KucoinAPIException

6.1.6 Trading Endpoints

class `kucoin.client.Client` (*api_key*, *api_secret*, *passphrase*, *sandbox=False*, *requests_params=None*)

cancel_all_orders (*symbol=None*)

Cancel all orders

<https://docs.kucoin.com/#cancel-all-orders>

```
res = client.cancel_all_orders()
```

Returns ApiResponse

```
{
  "cancelledOrderIds": [
    "5bd6e9286d99522a52e458de"
  ]
}
```

Raises KucoinResponseException, KucoinAPIException

cancel_order (*order_id*)

Cancel an order

<https://docs.kucoin.com/#cancel-an-order>

Parameters *order_id* (*string*) – Order id

```
res = client.cancel_order('5bd6e9286d99522a52e458de')
```

Returns ApiResponse

```
{
  "cancelledOrderIds": [
    "5bd6e9286d99522a52e458de"
  ]
}
```

Raises KucoinResponseException, KucoinAPIException

KucoinAPIException If *order_id* is not found

create_limit_order (*symbol*, *side*, *price*, *size*, *client_oid=None*, *remark=None*, *time_in_force=None*, *stop=None*, *stop_price=None*, *stp=None*, *cancel_after=None*, *post_only=None*, *hidden=None*, *iceberg=None*, *visible_size=None*)

Create an order

<https://docs.kucoin.com/#place-a-new-order>

Parameters

- **symbol** (*string*) – Name of symbol e.g. KCS-BTC

- **side** (*string*) – buy or sell
- **price** (*string*) – Name of coin
- **size** (*string*) – Amount of base currency to buy or sell
- **client_oid** (*string*) – (optional) Unique order_id default flat_uuid()
- **remark** (*string*) – (optional) remark for the order, max 100 utf8 characters
- **stp** (*string*) – (optional) self trade protection CN, CO, CB or DC (default is None)
- **time_in_force** (*string*) – (optional) GTC, GTT, IOC, or FOK (default is GTC)
- **stop** (*string*) – (optional) stop type loss or entry - requires stop_price
- **stop_price** (*string*) – (optional) trigger price for stop order
- **cancel_after** (*string*) – (optional) number of seconds to cancel the order if not filled required time_in_force to be GTT
- **post_only** (*bool*) – (optional) indicates that the order should only make liquidity. If any part of the order results in taking liquidity, the order will be rejected and no part of it will execute.
- **hidden** (*bool*) – (optional) Orders not displayed in order book
- **iceberg** (*bool*) – (optional) Only visible portion of the order is displayed in the order book
- **visible_size** (*bool*) – (optional) The maximum visible size of an iceberg order

```
order = client.create_limit_order('KCS-BTC', Client.SIDE_BUY, '0.01', '1000')
```

Returns ApiResponse

```
{  
  "orderId": "596186ad07015679730ffa02"  
}
```

Raises KucoinResponseException, KucoinAPIException, LimitOrderException

create_market_order (*symbol*, *side*, *size=None*, *funds=None*, *client_oid=None*, *remark=None*,
stp=None)

Create a market order

One of size or funds must be set

<https://docs.kucoin.com/#place-a-new-order>

Parameters

- **symbol** (*string*) – Name of symbol e.g. KCS-BTC
- **side** (*string*) – buy or sell
- **size** (*string*) – (optional) Desired amount in base currency
- **funds** (*string*) – (optional) Desired amount of quote currency to use
- **client_oid** (*string*) – (optional) Unique order id (default flat_uuid())
- **remark** (*string*) – (optional) remark for the order, max 100 utf8 characters
- **stp** (*string*) – (optional) self trade protection CN, CO, CB or DC (default is None)

```
order = client.create_market_order('NEO', Client.SIDE_BUY, size=20)
```

Returns ApiResponse

```
{
  "orderId": "596186ad07015679730ffa02"
}
```

Raises KucoinResponseException, KucoinAPIException, MarketOrderException

get_fills (*order_id=None, symbol=None, side=None, order_type=None, start=None, end=None, page=None, limit=None*)

Get a list of recent fills.

<https://docs.kucoin.com/#list-fills>

Parameters

- **order_id** (*string*) – (optional) generated order id
- **symbol** (*string*) – (optional) Name of symbol e.g. KCS-BTC
- **side** (*string*) – (optional) buy or sell
- **order_type** (*string*) – (optional) limit, market, limit_stop or market_stop
- **start** (*string*) – Start time as unix timestamp (optional)
- **end** (*string*) – End time as unix timestamp (optional)
- **page** (*int*) – optional - Page to fetch
- **limit** (*int*) – optional - Number of orders

```
fills = client.get_fills()
```

Returns ApiResponse

```
{
  "currentPage":1,
  "pageSize":1,
  "totalNum":251915,
  "totalPage":251915,
  "items":[
    {
      "symbol":"BTC-USDT",
      "tradeId":"5c35c02709e4f67d5266954e",
      "orderId":"5c35c02703aa673ceec2a168",
      "counterOrderId":"5c1ab46003aa676e487fa8e3",
      "side":"buy",
      "liquidity":"taker",
      "forceTaker":true,
      "price":"0.083",
      "size":"0.8424304",
      "funds":"0.0699217232",
      "fee":"0",
      "feeRate":"0",
      "feeCurrency":"USDT",

```

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```

        "stop": "",
        "type": "limit",
        "createdAt": 1547026472000
    }
]
}

```

Raises KucoinResponseException, KucoinAPIException

get_order (*order_id*)

Get order details

<https://docs.kucoin.com/#get-an-order>

Parameters *order_id* (*str*) – orderOid value

```
order = client.get_order('5c35c02703aa673ceec2a168')
```

Returns ApiResponse

```

{
  "id": "5c35c02703aa673ceec2a168",
  "symbol": "BTC-USDT",
  "opType": "DEAL",
  "type": "limit",
  "side": "buy",
  "price": "10",
  "size": "2",
  "funds": "0",
  "dealFunds": "0.166",
  "dealSize": "2",
  "fee": "0",
  "feeCurrency": "USDT",
  "stp": "",
  "stop": "",
  "stopTriggered": false,
  "stopPrice": "0",
  "timeInForce": "GTC",
  "postOnly": false,
  "hidden": false,
  "iceberge": false,
  "visibleSize": "0",
  "cancelAfter": 0,
  "channel": "IOS",
  "clientOid": null,
  "remark": null,
  "tags": null,
  "isActive": false,
  "cancelExist": false,
  "createdAt": 1547026471000
}

```

Raises KucoinResponseException, KucoinAPIException

get_orders (*symbol=None, status=None, side=None, order_type=None, start=None, end=None, page=None, limit=None*)

Get list of orders

<https://docs.kucoin.com/#list-orders>

Parameters

- **symbol** (*string*) – (optional) Name of symbol e.g. KCS-BTC
- **status** (*string*) – (optional) Specify status active or done (default done)
- **side** (*string*) – (optional) buy or sell
- **order_type** (*string*) – (optional) limit, market, limit_stop or market_stop
- **start** (*string*) – (optional) Start time as unix timestamp
- **end** (*string*) – (optional) End time as unix timestamp
- **page** (*int*) – (optional) Page to fetch
- **limit** (*int*) – (optional) Number of orders

```
orders = client.get_orders(symbol='KCS-BTC', status='active')
```

Returns ApiResponse

```
{
  "currentPage": 1,
  "pageSize": 1,
  "totalNum": 153408,
  "totalPage": 153408,
  "items": [
    {
      "id": "5c35c02703aa673ceec2a168",
      "symbol": "BTC-USDT",
      "opType": "DEAL",
      "type": "limit",
      "side": "buy",
      "price": "10",
      "size": "2",
      "funds": "0",
      "dealFunds": "0.166",
      "dealSize": "2",
      "fee": "0",
      "feeCurrency": "USDT",
      "stp": "",
      "stop": "",
      "stopTriggered": false,
      "stopPrice": "0",
      "timeInForce": "GTC",
      "postOnly": false,
      "hidden": false,
      "iceberge": false,
      "visibleSize": "0",
      "cancelAfter": 0,
      "channel": "IOS",
      "clientOid": null,
      "remark": null,
      "tags": null,
      "isActive": false,
      "cancelExist": false,
      "createdAt": 1547026471000
    }
  ]
}
```

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```

    }
  ]
}

```

Raises KucoinResponseException, KucoinAPIException

6.1.7 Market Endpoints

class `kucoin.client.Client` (*api_key*, *api_secret*, *passphrase*, *sandbox=False*, *requests_params=None*)

get_24hr_stats (*symbol*)

Get 24hr stats for a symbol. Volume is in base currency units. open, high, low are in quote currency units.

Parameters **symbol** (*string*) – (optional) Name of symbol e.g. KCS-BTC

```
stats = client.get_24hr_stats('ETH-BTC')
```

Returns ApiResponse

Without a symbol param

```

{
  "symbol": "BTC-USDT",
  "changeRate": "0.0128", # 24h change rate
  "changePrice": "0.8", # 24h rises and falls in price (if the change_
↪rate is a negative number, # the price rises; if the change rate is a_
↪positive number, the price falls.)
  "open": 61, # Opening price
  "close": 63.6, # Closing price
  "high": "63.6", # Highest price filled
  "low": "61", # Lowest price filled
  "vol": "244.78", # Transaction quantity
  "volValue": "15252.0127" # Transaction amount
}

```

Raises KucoinResponseException, KucoinAPIException

get_full_order_book (*symbol*)

Get a list of all bids and asks aggregated by price for a symbol.

This call is generally used by professional traders because it uses more server resources and traffic, and Kucoin has strict access frequency control.

<https://docs.kucoin.com/#get-full-order-book-aggregated>

Parameters **symbol** (*string*) – Name of symbol e.g. KCS-BTC

```
orders = client.get_order_book('KCS-BTC')
```

Returns ApiResponse

```
{
  "sequence": "3262786978",
  "bids": [
    ["6500.12", "0.45054140"], # [price size]
    ["6500.11", "0.45054140"]
  ],
  "asks": [
    ["6500.16", "0.57753524"],
    ["6500.15", "0.57753524"]
  ]
}
```

Raises KucoinResponseException, KucoinAPIException

get_full_order_book_level3(*symbol*)

Get a list of all bids and asks non-aggregated for a symbol.

This call is generally used by professional traders because it uses more server resources and traffic, and Kucoin has strict access frequency control.

<https://docs.kucoin.com/#get-full-order-book-atomic>

Parameters **symbol** (*string*) – Name of symbol e.g. KCS-BTC

```
orders = client.get_order_book('KCS-BTC')
```

Returns ApiResponse

```
{
  "sequence": "1545896707028",
  "bids": [
    [
      "5c2477e503aa671a745c4057", # orderId
      "6", # price
      "0.999" # size
    ],
    [
      "5c2477e103aa671a745c4054",
      "5",
      "0.999"
    ]
  ],
  "asks": [
    [
      "5c24736703aa671a745c401e",
      "200",
      "1"
    ],
    [
      "5c2475c903aa671a745c4033",
      "201",
      "1"
    ]
  ]
}
```

Raises KucoinResponseException, KucoinAPIException

get_historical_orders (*symbol=None, side=None, start=None, end=None, page=None, limit=None*)

List of KuCoin V1 historical orders.

<https://docs.kucoin.com/#get-v1-historical-orders-list>

Parameters

- **symbol** (*string*) – (optional) Name of symbol e.g. KCS-BTC
- **side** (*string*) – (optional) buy or sell
- **start** (*string*) – (optional) Start time as unix timestamp
- **end** (*string*) – (optional) End time as unix timestamp
- **page** (*int*) – (optional) Page to fetch
- **limit** (*int*) – (optional) Number of orders

```
orders = client.get_historical_orders(symbol='KCS-BTC')
```

Returns ApiResponse

```
{
  "currentPage": 1,
  "pageSize": 50,
  "totalNum": 1,
  "totalPage": 1,
  "items": [
    {
      "symbol": "SNOV-ETH",
      "dealPrice": "0.0000246",
      "dealValue": "0.018942",
      "amount": "770",
      "fee": "0.00001137",
      "side": "sell",
      "createdAt": 1540080199
    }
  ]
}
```

Raises KucoinResponseException, KucoinAPIException

get_kline_data (*symbol, kline_type='5min', start=None, end=None*)

Get kline data

For each query, the system would return at most 1500 pieces of data. To obtain more data, please page the data by time.

Parameters

- **symbol** (*string*) – Name of symbol e.g. KCS-BTC
- **kline_type** (*string*) – type of symbol, type of candlestick patterns: 1min, 3min, 5min, 15min, 30min, 1hour, 2hour, 4hour, 6hour, 8hour, 12hour, 1day, 1week
- **start** (*int*) – Start time as unix timestamp (optional) default start of day in UTC
- **end** (*int*) – End time as unix timestamp (optional) default now in UTC

<https://docs.kucoin.com/#get-historic-rates>

```
klines = client.get_kline_data('KCS-BTC', '5min', 1507479171, 1510278278)
```

Returns ApiResponse

```
[
  [
    "1545904980",           //Start time of the candle cycle
    "0.058",              //opening price
    "0.049",              //closing price
    "0.058",              //highest price
    "0.049",              //lowest price
    "0.018",              //Transaction amount
    "0.000945"           //Transaction volume
  ],
  [
    "1545904920",
    "0.058",
    "0.072",
    "0.072",
    "0.058",
    "0.103",
    "0.006986"
  ]
]
```

Raises KucoinResponseException, KucoinAPIException

get_markets ()

Get supported market list

<https://docs.kucoin.com/#get-market-list>

```
markets = client.get_markets()
```

Returns ApiResponse

```
{
  "data": [
    "BTC",
    "ETH",
    "USDT"
  ]
}
```

Raises KucoinResponseException, KucoinAPIException

get_order_book (*symbol*)

Get a list of bids and asks aggregated by price for a symbol.

Returns up to 100 depth each side. Fastest Order book API

<https://docs.kucoin.com/#get-part-order-book-aggregated>

Parameters **symbol** (*string*) – Name of symbol e.g. KCS-BTC

```
orders = client.get_order_book('KCS-BTC')
```

Returns ApiResponse

```
{
  "sequence": "3262786978",
  "bids": [
    ["6500.12", "0.45054140"], # [price, size]
    ["6500.11", "0.45054140"]
  ],
  "asks": [
    ["6500.16", "0.57753524"],
    ["6500.15", "0.57753524"]
  ]
}
```

Raises KucoinResponseException, KucoinAPIException

get_symbols ()

Get a list of available currency pairs for trading.

<https://docs.kucoin.com/#symbols-amp-ticker>

```
symbols = client.get_symbols()
```

Returns ApiResponse

```
[
  {
    "symbol": "BTC-USDT",
    "name": "BTC-USDT",
    "baseCurrency": "BTC",
    "quoteCurrency": "USDT",
    "baseMinSize": "0.00000001",
    "quoteMinSize": "0.01",
    "baseMaxSize": "10000",
    "quoteMaxSize": "100000",
    "baseIncrement": "0.00000001",
    "quoteIncrement": "0.01",
    "priceIncrement": "0.00000001",
    "enableTrading": true
  }
]
```

Raises KucoinResponseException, KucoinAPIException

get_ticker (*symbol=None*)

Get symbol tick

<https://docs.kucoin.com/#get-ticker>

Parameters **symbol** (*string*) – (optional) Name of symbol e.g. KCS-BTC

```
all_ticks = client.get_ticker()

ticker = client.get_ticker('ETH-BTC')
```

Returns ApiResponse

```
{
  "sequence": "1545825031840",      # now sequence
  "price": "3494.367783",          # last trade price
  "size": "0.05027185",           # last trade size
  "bestBid": "3494.367783",        # best bid price
  "bestBidSize": "2.60323254",     # size at best bid price
  "bestAsk": "3499.12",           # best ask price
  "bestAskSize": "0.01474011"     # size at best ask price
}
```

Raises KucoinResponseException, KucoinAPIException

get_trade_histories (*symbol*)

List the latest trades for a symbol

<https://docs.kucoin.com/#get-trade-histories>

Parameters **symbol** (*string*) – Name of symbol e.g. KCS-BTC

```
orders = client.get_trade_histories('KCS-BTC')
```

Returns ApiResponse

```
[
  {
    "sequence": "1545896668571",
    "price": "0.07",                # Filled price
    "size": "0.004",              # Filled amount
    "side": "buy",                # Filled side. The filled side is set_
    ↪to the taker by default.
    "time": 1545904567062140823   # Transaction time
  },
  {
    "sequence": "1545896668578",
    "price": "0.054",
    "size": "0.066",
    "side": "buy",
    "time": 1545904581619888405
  }
]
```

Raises KucoinResponseException, KucoinAPIException

6.1.8 Websockets

Note: The websocket client is only available for python3.5+

This feature is still in development so check the documentation around message topics here <https://docs.kucoin.com/#websocket-feed>

For private topics such as '/account/balance' pass private=True to the KucoinSocketManager, see example below

TODO:

- Helper functions for topics

- Multiplexing
- Local Order book level 2 & 3

Sample Code

```
import asyncio

from kucoin.client import Client
from kucoin.asyncio import KucoinSocketManager

api_key = '<api_key>'
api_secret = '<api_secret>'
api_passphrase = '<api_passphrase>'

async def main():
    global loop

    # callback function that receives messages from the socket
    async def handle_evt(msg):
        if msg['topic'] == '/market/ticker:ETH-USDT':
            print(f'got ETH-USDT tick:{msg["data"]}')

        elif msg['topic'] == '/market/snapshot:BTC':
            print(f'got BTC market snapshot:{msg["data"]}')

        elif msg['topic'] == '/market/snapshot:KCS-BTC':
            print(f'got KCS-BTC symbol snapshot:{msg["data"]}')

        elif msg['topic'] == '/market/ticker:all':
            print(f'got all market snapshot:{msg["data"]}')

        elif msg['topic'] == '/account/balance':
            print(f'got account balance:{msg["data"]}')

        elif msg['topic'] == '/market/level2:KCS-BTC':
            print(f'got L2 msg:{msg["data"]}')

        elif msg['topic'] == '/market/match:BTC-USDT':
            print(f'got market match msg:{msg["data"]}')

        elif msg['topic'] == '/market/level3:BTC-USDT':
            if msg['subject'] == 'trade.l3received':
                if msg['data']['type'] == 'activated':
                    # must be logged into see these messages
                    print(f"L3 your order activated: {msg['data']}")
                else:
                    print(f"L3 order received:{msg['data']}")
            elif msg['subject'] == 'trade.l3open':
                print(f"L3 order open: {msg['data']}")
            elif msg['subject'] == 'trade.l3done':
                print(f"L3 order done: {msg['data']}")
            elif msg['subject'] == 'trade.l3match':
                print(f"L3 order matched: {msg['data']}")
            elif msg['subject'] == 'trade.l3change':
                print(f"L3 order changed: {msg['data']}")
```

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```

client = Client(api_key, api_secret, api_passphrase)

ksm = await KucoinSocketManager.create(loop, client, handle_evt)

# for private topics such as '/account/balance' pass private=True
ksm_private = await KucoinSocketManager.create(loop, client, handle_evt,
↳private=True)

# Note: try these one at a time, if all are on you will see a lot of output

# ETH-USDT Market Ticker
await ksm.subscribe('/market/ticker:ETH-USDT')
# BTC Symbol Snapshots
await ksm.subscribe('/market/snapshot:BTC')
# KCS-BTC Market Snapshots
await ksm.subscribe('/market/snapshot:KCS-BTC')
# All tickers
await ksm.subscribe('/market/ticker:all')
# Level 2 Market Data
await ksm.subscribe('/market/level2:KCS-BTC')
# Market Execution Data
await ksm.subscribe('/market/match:BTC-USDT')
# Level 3 market data
await ksm.subscribe('/market/level3:BTC-USDT')
# Account balance - must be authenticated
await ksm_private.subscribe('/account/balance')

while True:
    print("sleeping to keep loop open")
    await asyncio.sleep(20, loop=loop)

if __name__ == "__main__":

    loop = asyncio.get_event_loop()
    loop.run_until_complete(main())

```

Unsubscribe from channel

Send the same topic name to the unsubscribe function

```
await ksm.unsubscribe('/market/ticker:ETH-USDT')
```

6.1.9 Exceptions

KucoinResponseException

Raised if a non JSON response is returned

KucoinAPIException

On an API call error a `kucoin.exceptions.KucoinAPIException` will be raised.

The exception provides access to the

- *status_code* - response status code
- *response* - response object
- *message* - Kucoin error message=
- *request* - request object if available

```
try:
    client.get_coin_list()
except KucoinAPIException as e:
    print(e.status_code)
    print(e.message)
```

MarketOrderException

Raised if market order params are incorrect

LimitOrderException

Raised if limit order params are incorrect

6.1.10 Changelog

v2.1.2 - 2019-04-17

Added

- exception if using a private websocket topic but not connected with private

Removed

- removed py3.6 type annotations for py3.5 support

v2.1.1 - 2019-04-17

Added

- websocket support for private messages
- *get_historical_orders* function to get V1 historical orders

Fixed

- fixed *get_ticker* to work for all tickers
- websocket reconnect ability

v2.1.0 - 2019-02-25

Added

- websocket support
- *get_fiat_prices* function to get fiat price for currency

- *get_markets* function to get supported market list
- iceberg order support
- util functions to generate uuid and convert dict to compact json string

Updated

- *get_ticker* to have optional symbol param

Fixed

- market and limit order create functions
- *get_kline_data* function
- *get_account_holds* function endpoint
- LimitOrderException message

v2.0.2 - 2019-02-23

Fixed

- signature generation for get requests

v2.0.1 - 2019-01-23

Fixed

- added auth for *get_fills()*

v2.0.0 - 2019-01-22

Added

- support for REST endpoint of v2 API

v0.1.12 - 2018-04-27

Added

- timestamp in milliseconds to *get_historical_klines_tv* function

Fixed

- make *coin* parameter required in *get_coin_info* function

v0.1.11 - 2018-03-01

Added

- option for passing requests module parameters on Client initialisation

Restored

- old *get_all_balances* non-paged functionality

v0.1.10 - 2018-02-10

Fixed

- remove slash in path in *get_order_details* function

v0.1.9 - 2018-02-09

Updated

- path for *get_all_balances* to match update in Kucoin docs, now supports pagination

v0.1.8 - 2018-01-20

Added

- better exception error messages

Fixed

- *cancel_order* format to make *order_type* required

v0.1.7 - 2018-01-17

Fixed

- *cancel_order* format to send symbol in payload, remove URL params
- *cancel_all_orders* format to send symbol in payload, remove URL params

v0.1.6 - 2018-01-15

Added

- constants for transfer types, pending, finished and cancelled
- documentation for *group* param on *get_order_book*, *get_buy_orders* and *get_sell_orders*
- add *get_trading_markets* endpoint
- add *market* param to *get_trading_symbols* and *get_trending_coins*
- add *get_coin_info* function with optional *coin* param

Fixed

- set coin param to optional for *get_reward_info*, *get_reward_summary* and *extract_invite_bonus*
- actually use the *kv_format* param on *get_active_orders*
- *cancel_order* format to send symbol in URL
- *cancel_all_orders* format to send symbol in URL
- *order_details* removed symbol from URL
- *get_tick* symbol is now optional
- fix *get_coin_list* URL

v0.1.5 - 2018-01-14

Fixed

- remove debug output

v0.1.4 - 2018-01-14

Added

- add function *get_historical_klines_tv* to get klines in OHLCV format

Fixed

- handle success: false type errors properly to raise exception
- fix passed param name on *get_kline_data*

v0.1.3 - 2018-01-12

Added

- add function *get_total_balance* to get balance in Fiat
- added pagination params to *get_all_balances*

v0.1.2 - 2018-01-07

Added

- api key endpoints
- set default currency function
- extract invite bonus function

v0.1.1 - 2018-01-02

Added

- cancel all orders function
- get order details function
- get dealt orders function

Updated

- old *get_deal_orders* function to *get_symbol_dealt_orders*

v0.1.0 - 2017-11-12

Added

- Kucoin client interface
- Coverage for all main endpoints
- Constants for transfer type and status, order side and kline resolution

- Full documentation

6.1.11 Kucoin API

client module

```
class kucoin.client.Client(api_key, api_secret, passphrase, sandbox=False, re-  
quests_params=None)
```

Bases: object

```
REST_API_URL = 'https://openapi-v2.kucoin.com'
```

```
SANDBOX_API_URL = 'https://openapi-sandbox.kucoin.com'
```

```
API_VERSION = 'v1'
```

```
SIDE_BUY = 'buy'
```

```
SIDE_SELL = 'sell'
```

```
ACCOUNT_MAIN = 'main'
```

```
ACCOUNT_TRADE = 'trade'
```

```
ORDER_LIMIT = 'limit'
```

```
ORDER_MARKET = 'market'
```

```
ORDER_LIMIT_STOP = 'limit_stop'
```

```
ORDER_MARKET_STOP = 'market_stop'
```

```
STOP_LOSS = 'loss'
```

```
STOP_ENTRY = 'entry'
```

```
STP_CANCEL_NEWEST = 'CN'
```

```
STP_CANCEL_OLDEST = 'CO'
```

```
STP_DECREASE_AND_CANCEL = 'DC'
```

```
STP_CANCEL_BOTH = 'CB'
```

```
TIMEINFORCE_GOOD_TILL_CANCELLED = 'GTC'
```

```
TIMEINFORCE_GOOD_TILL_TIME = 'GTT'
```

```
TIMEINFORCE_IMMEDIATE_OR_CANCEL = 'IOC'
```

```
TIMEINFORCE_FILL_OR_KILL = 'FOK'
```

```
__init__(api_key, api_secret, passphrase, sandbox=False, requests_params=None)
```

Kucoin API Client constructor

<https://docs.kucoin.com/>

Parameters

- **api_key** (*string*) – Api Token Id
- **api_secret** (*string*) – Api Secret
- **passphrase** (*string*) – Api Passphrase used to create API
- **sandbox** (*bool*) – (optional) Use the sandbox endpoint or not (default False)

- **requests_params** (*dict.*) – (optional) Dictionary of requests params to use for all calls

```
client = Client(api_key, api_secret, api_passphrase)
```

get_timestamp()

Get the server timestamp

<https://docs.kucoin.com/#time>

Returns response timestamp in ms

get_currencies()

List known currencies

<https://docs.kucoin.com/#get-currencies>

```
currencies = client.get_currencies()
```

Returns API Response

```
[
  {
    "currency": "BTC",
    "name": "BTC",
    "fullName": "Bitcoin",
    "precision": 8
  },
  {
    "currency": "ETH",
    "name": "ETH",
    "fullName": "Ethereum",
    "precision": 7
  }
]
```

Raises KucoinResponseException, KucoinAPIException

get_currency(currency)

Get single currency detail

<https://docs.kucoin.com/#get-currency-detail>

```
# call with no coins
currency = client.get_currency('BTC')
```

Returns API Response

```
{
  "currency": "BTC",
  "name": "BTC",
  "fullName": "Bitcoin",
  "precision": 8,
  "withdrawalMinSize": "0.002",
  "withdrawalMinFee": "0.0005",
  "isWithdrawEnabled": true,
}
```

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```
}
  "isDepositEnabled": true
}
```

Raises KucoinResponseException, KucoinAPIException

`get_accounts()`

Get a list of accounts

<https://docs.kucoin.com/#accounts>

```
accounts = client.get_accounts()
```

Returns API Response

```
[
  {
    "id": "5bd6e9286d99522a52e458de",
    "currency": "BTC",
    "type": "main",
    "balance": "237582.04299",
    "available": "237582.032",
    "holds": "0.01099"
  },
  {
    "id": "5bd6e9216d99522a52e458d6",
    "currency": "BTC",
    "type": "trade",
    "balance": "1234356",
    "available": "1234356",
    "holds": "0"
  }
]
```

Raises KucoinResponseException, KucoinAPIException

`get_account(account_id)`

Get an individual account

<https://docs.kucoin.com/#get-an-account>

Parameters `account_id` (*string*) – ID for account - from `list_accounts()`

```
account = client.get_account('5bd6e9216d99522a52e458d6')
```

Returns API Response

```
{
  "currency": "KCS",
  "balance": "1000000060.6299",
  "available": "1000000060.6299",
  "holds": "0"
}
```

Raises KucoinResponseException, KucoinAPIException

create_account (*account_type*, *currency*)

Create an account

<https://docs.kucoin.com/#create-an-account>

Parameters

- **account_type** (*string*) – Account type - main or trade
- **currency** (*string*) – Currency code

```
account = client.create_account('trade', 'BTC')
```

Returns API Response

```
{
  "id": "5bd6e9286d99522a52e458de"
}
```

Raises KucoinResponseException, KucoinAPIException

get_account_activity (*account_id*, *start=None*, *end=None*, *page=None*, *limit=None*)

Get list of account activity

<https://docs.kucoin.com/#get-account-history>

Parameters

- **account_id** (*string*) – ID for account - from list_accounts()
- **start** (*string*) – (optional) Start time as unix timestamp
- **end** (*string*) – (optional) End time as unix timestamp
- **page** (*int*) – (optional) Current page - default 1
- **limit** (*int*) – (optional) Number of results to return - default 50

```
history = client.get_account_activity('5bd6e9216d99522a52e458d6')

history = client.get_account_activity('5bd6e9216d99522a52e458d6', start=
↪'1540296039000')

history = client.get_account_activity('5bd6e9216d99522a52e458d6', page=2,
↪page_size=10)
```

Returns API Response

```
{
  "currentPage": 1,
  "pageSize": 10,
  "totalNum": 2,
  "totalPage": 1,
  "items": [
    {
      "currency": "KCS",
      "amount": "0.0998",
      "fee": "0",
      "balance": "1994.040596",
```

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```

        "bizType": "withdraw",
        "direction": "in",
        "createdAt": 1540296039000,
        "context": {
            "orderId": "5bc7f080b39c5c03286eef8a",
            "currency": "BTC"
        }
    },
    {
        "currency": "KCS",
        "amount": "0.0998",
        "fee": "0",
        "balance": "1994.140396",
        "bizType": "trade exchange",
        "direction": "in",
        "createdAt": 1540296039000,
        "context": {
            "orderId": "5bc7f080b39c5c03286eef8e",
            "tradeId": "5bc7f080b3949c03286eef8a",
            "symbol": "BTC-USD"
        }
    }
]
}

```

Raises `KucoinResponseException`, `KucoinAPIException`

get_account_holds (*account_id*, *page=None*, *page_size=None*)

Get account holds placed for any active orders or pending withdraw requests

<https://docs.kucoin.com/#get-holds>

Parameters

- **account_id** (*string*) – ID for account - from `list_accounts()`
- **page** (*int*) – (optional) Current page - default 1
- **page_size** (*int*) – (optional) Number of results to return - default 50

```

holds = client.get_account_holds('5bd6e9216d99522a52e458d6')

holds = client.get_account_holds('5bd6e9216d99522a52e458d6', page=2, page_
↪size=10)

```

Returns API Response

```

{
    "currentPage": 1,
    "pageSize": 10,
    "totalNum": 2,
    "totalPage": 1,
    "items": [
        {
            "currency": "ETH",
            "holdAmount": "5083",

```

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```

        "bizType": "Withdraw",
        "orderId": "5bc7f080b39c5c03286eef8e",
        "createdAt": 1545898567000,
        "updatedAt": 1545898567000
    },
    {
        "currency": "ETH",
        "holdAmount": "1452",
        "bizType": "Withdraw",
        "orderId": "5bc7f518b39c5c033818d62d",
        "createdAt": 1545898567000,
        "updatedAt": 1545898567000
    }
]

```

Raises KucoinResponseException, KucoinAPIException

create_inner_transfer (*from_account_id, to_account_id, amount, order_id=None*)

Get account holds placed for any active orders or pending withdraw requests

<https://docs.kucoin.com/#get-holds>

Parameters

- **from_account_id** (*str*) – ID of account to transfer funds from - from list_accounts()
- **to_account_id** (*str*) – ID of account to transfer funds to - from list_accounts()
- **amount** (*int*) – Amount to transfer
- **order_id** (*string*) – (optional) Request ID (default flat_uuid())

```
transfer = client.create_inner_transfer('5bd6e9216d99522a52e458d6',
↪5bc7f080b39c5c03286eef8e', 20)
```

Returns API Response

```
{
    "orderId": "5bd6e9286d99522a52e458de"
}
```

Raises KucoinResponseException, KucoinAPIException

create_deposit_address (*currency*)

Create deposit address of currency for deposit. You can just create one deposit address.

<https://docs.kucoin.com/#create-deposit-address>

Parameters **currency** (*string*) – Name of currency

```
address = client.create_deposit_address('NEO')
```

Returns ApiResponse

```
{
  "address": "0x78d3ad1c0aa1bf068e19c94a2d7b16c9c0fcd8b1",
  "memo": "5c247c8a03aa677cea2a251d"
}
```

Raises KucoinResponseException, KucoinAPIException

get_deposit_address (*currency*)

Get deposit address for a currency

<https://docs.kucoin.com/#get-deposit-address>

Parameters **currency** (*string*) – Name of currency

```
address = client.get_deposit_address('NEO')
```

Returns ApiResponse

```
{
  "address": "0x78d3ad1c0aa1bf068e19c94a2d7b16c9c0fcd8b1",
  "memo": "5c247c8a03aa677cea2a251d"
}
```

Raises KucoinResponseException, KucoinAPIException

get_deposits (*currency=None, status=None, start=None, end=None, page=None, limit=None*)

Get deposit records for a currency

<https://docs.kucoin.com/#get-deposit-list>

Parameters

- **currency** (*string*) – Name of currency (optional)
- **status** (*string*) – optional - Status of deposit (PROCESSING, SUCCESS, FAILURE)
- **start** (*string*) – (optional) Start time as unix timestamp
- **end** (*string*) – (optional) End time as unix timestamp
- **page** (*int*) – (optional) Page to fetch
- **limit** (*int*) – (optional) Number of transactions

```
deposits = client.get_deposits('NEO')
```

Returns ApiResponse

```
{
  "currentPage": 1,
  "pageSize": 5,
  "totalNum": 2,
  "totalPage": 1,
  "items": [
    {
      "address": "0x5f047b29041bcfdbf0e4478cdfa753a336ba6989",
      "memo": "5c247c8a03aa677cea2a251d",
    }
  ]
}
```

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```

        "amount": 1,
        "fee": 0.0001,
        "currency": "KCS",
        "isInner": false,
        "walletTxId": "5bbb57386d99522d9f954c5a@test004",
        "status": "SUCCESS",
        "createdAt": 1544178843000,
        "updatedAt": 1544178891000
    }, {
        "address": "0x5f047b29041bcfdbf0e4478cdfa753a336ba6989",
        "memo": "5c247c8a03aa677cea2a251d",
        "amount": 1,
        "fee": 0.0001,
        "currency": "KCS",
        "isInner": false,
        "walletTxId": "5bbb57386d99522d9f954c5a@test003",
        "status": "SUCCESS",
        "createdAt": 1544177654000,
        "updatedAt": 1544178733000
    }
]
}

```

Raises KucoinResponseException, KucoinAPIException

get_withdrawals (*currency=None, status=None, start=None, end=None, page=None, limit=None*)

Get deposit records for a currency

<https://docs.kucoin.com/#get-withdrawals-list>

Parameters

- **currency** (*string*) – Name of currency (optional)
- **status** (*string*) – optional - Status of deposit (PROCESSING, SUCCESS, FAILURE)
- **start** (*string*) – (optional) Start time as unix timestamp
- **end** (*string*) – (optional) End time as unix timestamp
- **page** (*int*) – (optional) Page to fetch
- **limit** (*int*) – (optional) Number of transactions

```
withdrawals = client.get_withdrawals('NEO')
```

Returns ApiResponse

```

{
    "currentPage": 1,
    "pageSize": 10,
    "totalNum": 1,
    "totalPage": 1,
    "items": [
        {
            "id": "5c2dc64e03aa675aa263f1ac",
            "address": "0x5bedb060b8eb8d823e2414d82acce78d38be7fe9",

```

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```

        "memo": "",
        "currency": "ETH",
        "amount": 1.0000000,
        "fee": 0.0100000,
        "walletTxId": "3e2414d82acce78d38be7fe9",
        "isInner": false,
        "status": "FAILURE",
        "createdAt": 1546503758000,
        "updatedAt": 1546504603000
    }
}

```

Raises KucoinResponseException, KucoinAPIException

get_withdrawal_quotas (*currency*)

Get withdrawal quotas for a currency

<https://docs.kucoin.com/#get-withdrawal-quotas>

Parameters **currency** (*string*) – Name of currency

```
quotas = client.get_withdrawal_quotas('ETH')
```

Returns ApiResponse

```

{
    "currency": "ETH",
    "availableAmount": 2.9719999,
    "remainAmount": 2.9719999,
    "withdrawMinSize": 0.1000000,
    "limitBTCAmount": 2.0,
    "innerWithdrawMinFee": 0.00001,
    "isWithdrawEnabled": true,
    "withdrawMinFee": 0.0100000,
    "precision": 7
}

```

Raises KucoinResponseException, KucoinAPIException

create_withdrawal (*currency, amount, address, memo=None, is_inner=False, remark=None*)

Process a withdrawal

<https://docs.kucoin.com/#apply-withdraw>

Parameters

- **currency** (*string*) – Name of currency
- **amount** (*number*) – Amount to withdraw
- **address** (*string*) – Address to withdraw to
- **memo** (*string*) – (optional) Remark to the withdrawal address
- **is_inner** (*bool*) – (optional) Remark to the withdrawal address
- **remark** (*string*) – (optional) Remark

```
withdrawal = client.create_withdrawal('NEO', 20, '598aeb627da3355fa3e851')
```

Returns ApiResponse

```
{
  "withdrawalId": "5bffb63303aa675e8bbe18f9"
}
```

Raises KucoinResponseException, KucoinAPIException

cancel_withdrawal (*withdrawal_id*)

Cancel a withdrawal

<https://docs.kucoin.com/#cancel-withdrawal>

Parameters **withdrawal_id** (*string*) – ID of withdrawal

```
client.cancel_withdrawal('5bffb63303aa675e8bbe18f9')
```

Returns None

Raises KucoinResponseException, KucoinAPIException

create_market_order (*symbol, side, size=None, funds=None, client_oid=None, remark=None, stp=None*)

Create a market order

One of size or funds must be set

<https://docs.kucoin.com/#place-a-new-order>

Parameters

- **symbol** (*string*) – Name of symbol e.g. KCS-BTC
- **side** (*string*) – buy or sell
- **size** (*string*) – (optional) Desired amount in base currency
- **funds** (*string*) – (optional) Desired amount of quote currency to use
- **client_oid** (*string*) – (optional) Unique order id (default flat_uuid())
- **remark** (*string*) – (optional) remark for the order, max 100 utf8 characters
- **stp** (*string*) – (optional) self trade protection CN, CO, CB or DC (default is None)

```
order = client.create_market_order('NEO', Client.SIDE_BUY, size=20)
```

Returns ApiResponse

```
{
  "orderId": "596186ad07015679730ffa02"
}
```

Raises KucoinResponseException, KucoinAPIException, MarketOrderException

create_limit_order (*symbol*, *side*, *price*, *size*, *client_oid=None*, *remark=None*, *time_in_force=None*, *stop=None*, *stop_price=None*, *stp=None*, *cancel_after=None*, *post_only=None*, *hidden=None*, *iceberg=None*, *visible_size=None*)

Create an order

<https://docs.kucoin.com/#place-a-new-order>

Parameters

- **symbol** (*string*) – Name of symbol e.g. KCS-BTC
- **side** (*string*) – buy or sell
- **price** (*string*) – Name of coin
- **size** (*string*) – Amount of base currency to buy or sell
- **client_oid** (*string*) – (optional) Unique order_id default flat_uuid()
- **remark** (*string*) – (optional) remark for the order, max 100 utf8 characters
- **stp** (*string*) – (optional) self trade protection CN, CO, CB or DC (default is None)
- **time_in_force** (*string*) – (optional) GTC, GTT, IOC, or FOK (default is GTC)
- **stop** (*string*) – (optional) stop type loss or entry - requires stop_price
- **stop_price** (*string*) – (optional) trigger price for stop order
- **cancel_after** (*string*) – (optional) number of seconds to cancel the order if not filled required time_in_force to be GTT
- **post_only** (*bool*) – (optional) indicates that the order should only make liquidity. If any part of the order results in taking liquidity, the order will be rejected and no part of it will execute.
- **hidden** (*bool*) – (optional) Orders not displayed in order book
- **iceberg** (*bool*) – (optional) Only visible portion of the order is displayed in the order book
- **visible_size** (*bool*) – (optional) The maximum visible size of an iceberg order

```
order = client.create_limit_order('KCS-BTC', Client.SIDE_BUY, '0.01', '1000')
```

Returns ApiResponse

```
{
  "orderId": "596186ad07015679730ffa02"
}
```

Raises KucoinResponseException, KucoinAPIException, LimitOrderException

cancel_order (*order_id*)

Cancel an order

<https://docs.kucoin.com/#cancel-an-order>

Parameters **order_id** (*string*) – Order id

```
res = client.cancel_order('5bd6e9286d99522a52e458de')
```

Returns ApiResponse

```
{
  "cancelledOrderIds": [
    "5bd6e9286d99522a52e458de"
  ]
}
```

Raises KucoinResponseException, KucoinAPIException

KucoinAPIException If order_id is not found

cancel_all_orders (*symbol=None*)

Cancel all orders

<https://docs.kucoin.com/#cancel-all-orders>

```
res = client.cancel_all_orders()
```

Returns ApiResponse

```
{
  "cancelledOrderIds": [
    "5bd6e9286d99522a52e458de"
  ]
}
```

Raises KucoinResponseException, KucoinAPIException

get_orders (*symbol=None, status=None, side=None, order_type=None, start=None, end=None, page=None, limit=None*)

Get list of orders

<https://docs.kucoin.com/#list-orders>

Parameters

- **symbol** (*string*) – (optional) Name of symbol e.g. KCS-BTC
- **status** (*string*) – (optional) Specify status active or done (default done)
- **side** (*string*) – (optional) buy or sell
- **order_type** (*string*) – (optional) limit, market, limit_stop or market_stop
- **start** (*string*) – (optional) Start time as unix timestamp
- **end** (*string*) – (optional) End time as unix timestamp
- **page** (*int*) – (optional) Page to fetch
- **limit** (*int*) – (optional) Number of orders

```
orders = client.get_orders(symbol='KCS-BTC', status='active')
```

Returns ApiResponse

```
{
  "currentPage": 1,
  "pageSize": 1,
  "totalNum": 153408,
  "totalPage": 153408,
  "items": [
    {
      "id": "5c35c02703aa673ceec2a168",
      "symbol": "BTC-USDT",
      "opType": "DEAL",
      "type": "limit",
      "side": "buy",
      "price": "10",
      "size": "2",
      "funds": "0",
      "dealFunds": "0.166",
      "dealSize": "2",
      "fee": "0",
      "feeCurrency": "USDT",
      "stp": "",
      "stop": "",
      "stopTriggered": false,
      "stopPrice": "0",
      "timeInForce": "GTC",
      "postOnly": false,
      "hidden": false,
      "iceberge": false,
      "visibleSize": "0",
      "cancelAfter": 0,
      "channel": "IOS",
      "clientOid": null,
      "remark": null,
      "tags": null,
      "isActive": false,
      "cancelExist": false,
      "createdAt": 1547026471000
    }
  ]
}
```

Raises KucoinResponseException, KucoinAPIException

get_historical_orders (*symbol=None, side=None, start=None, end=None, page=None, limit=None*)

List of KuCoin V1 historical orders.

<https://docs.kucoin.com/#get-v1-historical-orders-list>

Parameters

- **symbol** (*string*) – (optional) Name of symbol e.g. KCS-BTC
- **side** (*string*) – (optional) buy or sell
- **start** (*string*) – (optional) Start time as unix timestamp
- **end** (*string*) – (optional) End time as unix timestamp
- **page** (*int*) – (optional) Page to fetch

- **limit** (*int*) – (optional) Number of orders

```
orders = client.get_historical_orders(symbol='KCS-BTC')
```

Returns ApiResponse

```
{
  "currentPage": 1,
  "pageSize": 50,
  "totalNum": 1,
  "totalPage": 1,
  "items": [
    {
      "symbol": "SNOV-ETH",
      "dealPrice": "0.0000246",
      "dealValue": "0.018942",
      "amount": "770",
      "fee": "0.00001137",
      "side": "sell",
      "createdAt": 1540080199
    }
  ]
}
```

Raises KucoinResponseException, KucoinAPIException

get_order (*order_id*)

Get order details

<https://docs.kucoin.com/#get-an-order>

Parameters **order_id** (*str*) – orderOid value

```
order = client.get_order('5c35c02703aa673ceec2a168')
```

Returns ApiResponse

```
{
  "id": "5c35c02703aa673ceec2a168",
  "symbol": "BTC-USDT",
  "opType": "DEAL",
  "type": "limit",
  "side": "buy",
  "price": "10",
  "size": "2",
  "funds": "0",
  "dealFunds": "0.166",
  "dealSize": "2",
  "fee": "0",
  "feeCurrency": "USDT",
  "stp": "",
  "stop": "",
  "stopTriggered": false,
  "stopPrice": "0",
  "timeInForce": "GTC",
  "postOnly": false,
```

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```

"hidden": false,
"iceberge": false,
"visibleSize": "0",
"cancelAfter": 0,
"channel": "IOS",
"clientOid": null,
"remark": null,
"tags": null,
"isActive": false,
"cancelExist": false,
"createdAt": 1547026471000
}

```

Raises KucoinResponseException, KucoinAPIException

get_fills (*order_id=None, symbol=None, side=None, order_type=None, start=None, end=None, page=None, limit=None*)

Get a list of recent fills.

<https://docs.kucoin.com/#list-fills>

Parameters

- **order_id** (*string*) – (optional) generated order id
- **symbol** (*string*) – (optional) Name of symbol e.g. KCS-BTC
- **side** (*string*) – (optional) buy or sell
- **order_type** (*string*) – (optional) limit, market, limit_stop or market_stop
- **start** (*string*) – Start time as unix timestamp (optional)
- **end** (*string*) – End time as unix timestamp (optional)
- **page** (*int*) – optional - Page to fetch
- **limit** (*int*) – optional - Number of orders

```
fills = client.get_fills()
```

Returns ApiResponse

```

{
  "currentPage": 1,
  "pageSize": 1,
  "totalNum": 251915,
  "totalPage": 251915,
  "items": [
    {
      "symbol": "BTC-USDT",
      "tradeId": "5c35c02709e4f67d5266954e",
      "orderId": "5c35c02703aa673ceec2a168",
      "counterOrderId": "5c1ab46003aa676e487fa8e3",
      "side": "buy",
      "liquidity": "taker",
      "forceTaker": true,
      "price": "0.083",
    }
  ]
}

```

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```

        "size": "0.8424304",
        "funds": "0.0699217232",
        "fee": "0",
        "feeRate": "0",
        "feeCurrency": "USDT",
        "stop": "",
        "type": "limit",
        "createdAt": 1547026472000
    }
]
}

```

Raises KucoinResponseException, KucoinAPIException

get_symbols()

Get a list of available currency pairs for trading.

<https://docs.kucoin.com/#symbols-amp-ticker>

```
symbols = client.get_symbols()
```

Returns ApiResponse

```

[
  {
    "symbol": "BTC-USDT",
    "name": "BTC-USDT",
    "baseCurrency": "BTC",
    "quoteCurrency": "USDT",
    "baseMinSize": "0.00000001",
    "quoteMinSize": "0.01",
    "baseMaxSize": "10000",
    "quoteMaxSize": "100000",
    "baseIncrement": "0.00000001",
    "quoteIncrement": "0.01",
    "priceIncrement": "0.00000001",
    "enableTrading": true
  }
]

```

Raises KucoinResponseException, KucoinAPIException

get_ticker(symbol=None)

Get symbol tick

<https://docs.kucoin.com/#get-ticker>

Parameters **symbol** (*string*) – (optional) Name of symbol e.g. KCS-BTC

```

all_ticks = client.get_ticker()

ticker = client.get_ticker('ETH-BTC')

```

Returns ApiResponse

```
{
  "sequence": "1545825031840",      # now sequence
  "price": "3494.367783",          # last trade price
  "size": "0.05027185",           # last trade size
  "bestBid": "3494.367783",        # best bid price
  "bestBidSize": "2.60323254",     # size at best bid price
  "bestAsk": "3499.12",           # best ask price
  "bestAskSize": "0.01474011"     # size at best ask price
}
```

Raises KucoinResponseException, KucoinAPIException

get_fiat_prices (*base=None, symbol=None*)

Get fiat price for currency

<https://docs.kucoin.com/#get-fiat-price>

Parameters

- **base** (*string*) – (optional) Fiat, eg. USD, EUR, default is USD.
- **symbol** (*string*) – (optional) Cryptocurrencies. For multiple cryptocurrencies, please separate them with comma one by one. default is all

```
prices = client.get_fiat_prices()
```

Returns ApiResponse

```
{
  "BTC": "3911.28000000",
  "ETH": "144.55492453",
  "LTC": "48.45888179",
  "KCS": "0.45546856"
}
```

Raises KucoinResponseException, KucoinAPIException

get_24hr_stats (*symbol*)

Get 24hr stats for a symbol. Volume is in base currency units. open, high, low are in quote currency units.

Parameters **symbol** (*string*) – (optional) Name of symbol e.g. KCS-BTC

```
stats = client.get_24hr_stats('ETH-BTC')
```

Returns ApiResponse

Without a symbol param

```
{
  "symbol": "BTC-USDT",
  "changeRate": "0.0128",          # 24h change rate
  "changePrice": "0.8",           # 24h rises and falls in price (if the change_
↪rate is a negative number,                                     # the price rises; if the change rate is a_
↪positive number, the price falls.)
```

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```

"open": 61,                # Opening price
"close": 63.6,            # Closing price
"high": "63.6",          # Highest price filled
"low": "61",              # Lowest price filled
"vol": "244.78",         # Transaction quantity
"volValue": "15252.0127" # Transaction amount
}

```

Raises KucoinResponseException, KucoinAPIException**get_markets()**

Get supported market list

<https://docs.kucoin.com/#get-market-list>

```
markets = client.get_markets()
```

Returns ApiResponse

```

{
  "data": [
    "BTC",
    "ETH",
    "USDT"
  ]
}

```

Raises KucoinResponseException, KucoinAPIException**get_order_book(symbol)**

Get a list of bids and asks aggregated by price for a symbol.

Returns up to 100 depth each side. Fastest Order book API

<https://docs.kucoin.com/#get-part-order-book-aggregated>**Parameters** **symbol** (*string*) – Name of symbol e.g. KCS-BTC

```
orders = client.get_order_book('KCS-BTC')
```

Returns ApiResponse

```

{
  "sequence": "3262786978",
  "bids": [
    ["6500.12", "0.45054140"], # [price, size]
    ["6500.11", "0.45054140"]
  ],
  "asks": [
    ["6500.16", "0.57753524"],
    ["6500.15", "0.57753524"]
  ]
}

```

Raises KucoinResponseException, KucoinAPIException

get_full_order_book (*symbol*)

Get a list of all bids and asks aggregated by price for a symbol.

This call is generally used by professional traders because it uses more server resources and traffic, and Kucoin has strict access frequency control.

<https://docs.kucoin.com/#get-full-order-book-aggregated>

Parameters **symbol** (*string*) – Name of symbol e.g. KCS-BTC

```
orders = client.get_order_book('KCS-BTC')
```

Returns ApiResponse

```
{
  "sequence": "3262786978",
  "bids": [
    ["6500.12", "0.45054140"], # [price size]
    ["6500.11", "0.45054140"]
  ],
  "asks": [
    ["6500.16", "0.57753524"],
    ["6500.15", "0.57753524"]
  ]
}
```

Raises KucoinResponseException, KucoinAPIException

get_full_order_book_level13 (*symbol*)

Get a list of all bids and asks non-aggregated for a symbol.

This call is generally used by professional traders because it uses more server resources and traffic, and Kucoin has strict access frequency control.

<https://docs.kucoin.com/#get-full-order-book-atomic>

Parameters **symbol** (*string*) – Name of symbol e.g. KCS-BTC

```
orders = client.get_order_book('KCS-BTC')
```

Returns ApiResponse

```
{
  "sequence": "1545896707028",
  "bids": [
    [
      "5c2477e503aa671a745c4057", # orderId
      "6", # price
      "0.999" # size
    ],
    [
      "5c2477e103aa671a745c4054",
      "5",
      "0.999"
    ]
  ]
}
```

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```

],
  "asks": [
    [
      "5c24736703aa671a745c401e",
      "200",
      "1"
    ],
    [
      "5c2475c903aa671a745c4033",
      "201",
      "1"
    ]
  ]
}

```

Raises KucoinResponseException, KucoinAPIException

get_trade_histories (*symbol*)

List the latest trades for a symbol

<https://docs.kucoin.com/#get-trade-histories>

Parameters **symbol** (*string*) – Name of symbol e.g. KCS-BTC

```
orders = client.get_trade_histories('KCS-BTC')
```

Returns ApiResponse

```

[
  {
    "sequence": "1545896668571",
    "price": "0.07", # Filled price
    "size": "0.004", # Filled amount
    "side": "buy", # Filled side. The filled side is set
    ↳to the taker by default.
    "time": 1545904567062140823 # Transaction time
  },
  {
    "sequence": "1545896668578",
    "price": "0.054",
    "size": "0.066",
    "side": "buy",
    "time": 1545904581619888405
  }
]

```

Raises KucoinResponseException, KucoinAPIException

get_kline_data (*symbol, kline_type='5min', start=None, end=None*)

Get kline data

For each query, the system would return at most 1500 pieces of data. To obtain more data, please page the data by time.

Parameters

- **symbol** (*string*) – Name of symbol e.g. KCS-BTC
- **kline_type** (*string*) – type of symbol, type of candlestick patterns: 1min, 3min, 5min, 15min, 30min, 1hour, 2hour, 4hour, 6hour, 8hour, 12hour, 1day, 1week
- **start** (*int*) – Start time as unix timestamp (optional) default start of day in UTC
- **end** (*int*) – End time as unix timestamp (optional) default now in UTC

<https://docs.kucoin.com/#get-historic-rates>

```
klines = client.get_kline_data('KCS-BTC', '5min', 1507479171, 1510278278)
```

Returns ApiResponse

```
[
  [
    "1545904980",           //Start time of the candle cycle
    "0.058",              //opening price
    "0.049",              //closing price
    "0.058",              //highest price
    "0.049",              //lowest price
    "0.018",              //Transaction amount
    "0.000945"           //Transaction volume
  ],
  [
    "1545904920",
    "0.058",
    "0.072",
    "0.072",
    "0.058",
    "0.103",
    "0.006986"
  ]
]
```

Raises KucoinResponseException, KucoinAPIException

get_ws_endpoint (*private=False*)

Get websocket channel details

Parameters **private** (*bool*) – Name of symbol e.g. KCS-BTC

<https://docs.kucoin.com/#websocket-feed>

```
ws_details = client.get_ws_endpoint(private=True)
```

Returns ApiResponse

```
{
  "code": "200000",
  "data": {
    "instanceServers": [
      {
        "pingInterval": 50000,
        "endpoint": "wss://push1-v2.kucoin.net/endpoint",
        "protocol": "websocket",

```

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```

        "encrypt": true,
        "pingTimeout": 10000
    }
],
"token":
↪ "vYNlCtbz4XNJ1QncwWilJnBtmmfe4geLQDUA62kKJsDChc6I4bRDQc73JfIrlFaVYIAE0Gv2--
↪ MROnLAGjVsWkcDq_MuG7qV7EktfCEIphiqnlfpQn4Ybg==.IoORVxR2LmKV7_maOR9xOg=="
    }
}

```

Raises `KucoinResponseException`, `KucoinAPIException`

exceptions module

exception `kucoin.exceptions.KucoinAPIException` (*response*)

Bases: `exceptions.Exception`

Exception class to handle general API Exceptions

code values

message format

`__init__` (*response*)

`x.__init__(...)` initializes `x`; see `help(type(x))` for signature

exception `kucoin.exceptions.KucoinRequestException` (*message*)

Bases: `exceptions.Exception`

`__init__` (*message*)

`x.__init__(...)` initializes `x`; see `help(type(x))` for signature

exception `kucoin.exceptions.MarketOrderException` (*message*)

Bases: `exceptions.Exception`

`__init__` (*message*)

`x.__init__(...)` initializes `x`; see `help(type(x))` for signature

exception `kucoin.exceptions.LimitOrderException` (*message*)

Bases: `exceptions.Exception`

`__init__` (*message*)

`x.__init__(...)` initializes `x`; see `help(type(x))` for signature

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