**cbpro2Documentation**

Release1.0.4

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cbpro2isapythonclientlibrarytointeractwithcoinbasepro.

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**1.1PublicClient**

CHAPTER1

Documentation

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**1.1.1PublicClient**

**class**cbpro.public\_client.**PublicClient**(api\_url=’https://api.pro.coinbase.com’, time-   
out=30)

cbpropublicclientAPI.   
Allrequestsdefaulttotheproduct\_idspecifiedatobjectcreationifnototherwisespecified.

**url**

APIURL.DefaultstocbproAPI.   
TypeOptional[str]

**get\_currencies**()   
Listknowncurrencies.

Returns   
Listofcurrencies.Example::

[{“id”:“BTC”,“name”:“Bitcoin”,“min\_size”:“0.00000001”   
},{“id”:“USD”,“name”:“UnitedStatesDollar”,“min\_size”:“0.01000000”

}]

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Returntypelist   
**get\_product\_24hr\_stats**(product\_id)

Get24hrstatsfortheproduct.   
Parameters**product\_id**(str)–Product

Returns   
24hourstats.Volumeisinbasecurrencyunits.

Open,high,lowareinquotecurrencyunits.Example::   
{“open”:“34.19000000”,“high”:“95.70000000”,“low”:“7.06000000”,“volume”:

“2.41000000”

}

Returntypedict   
**get\_product\_historic\_rates**(product\_id,start=None,end=None,granularity=None)

Historicratesforaproduct.   
Ratesarereturnedingroupedbucketsbasedonrequestedgranularity.Ifstart,end,andgranularityaren’t   
provided,theexchangewillassumesome(currentlyunknown)defaultvalues.

Historicalratedatamaybeincomplete.Nodataispublishedforintervalswheretherearenoticks.   
Caution:Historicalratesshouldnotbepolledfrequently.Ifyouneedreal-timeinformation,usethetrade   
andbookendpointsalongwiththewebsocketfeed.   
Themaximumnumberofdatapointsforasinglerequestis200candles.Ifyourselectionofstart/end   
timeandgranularitywillresultinmorethan200datapoints,yourrequestwillberejected.Ifyouwishto   
retrievefinegranularitydataoveralargertimerange,youwillneedtomakemultiplerequestswithnew   
start/endranges.

Parameters   
•**product\_id**(str)–Product

•**start**(Optional[str])–StarttimeinISO8601   
•**end**(Optional[str])–EndtimeinISO8601   
•**granularity**(Optional[int])–Desiredtimesliceinseconds

Returns   
Historiccandledata.Example:

[[time,low,high,open,close,volume],[1415398768,0.32,4.2,0.35,4.2,12.3],   
...

]

Returntypelist   
**get\_product\_order\_book**(product\_id,level=1)

Getalistofopenordersforaproduct.   
Theamountofdetailshowncanbecustomizedwiththelevelparameter:\*1:Onlythebestbidandask\*   
2:Top50bidsandasks(aggregated)\*3:Fullorderbook(nonaggregated)

Level1andLevel2arerecommendedforpolling.Forthemostup-to-datedata,considerusingthe   
websocketstream.

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Caution:Level3isonlyrecommendedforuserswishingtomaintainafullreal-timeorderbookusing   
thewebsocketstream.AbuseofLevel3viapollingwillcauseyouraccesstobelimitedorblocked.

Parameters   
•**product\_id**(str)–Product

•**level**(Optional[int])–Orderbooklevel(1,2,or3).Defaultis1.

Returns   
Orderbook.Exampleforlevel1::

{“sequence”:“3”,“bids”:[   
[price,size,num-orders],

],“asks”:[   
[price,size,num-orders],

]

}

Returntypedict   
**get\_product\_ticker**(product\_id)

Snapshotaboutthelasttrade(tick),bestbid/askand24hvolume.   
Caution:Pollingisdiscouragedinfavorofconnectingviathewebsocketstreamandlisteningformatch   
messages.

Parameters**product\_id**(str)–Product   
Returns

Tickerinfo.Example::   
{“trade\_id”:4729088,“price”:“333.99”,“size”:“0.193”,“bid”:“333.98”,“ask”:

“333.99”,“volume”:“5957.11914015”,“time”:“2015-11-14T20:46:03.511254Z”

}

Returntypedict   
**get\_product\_trades**(product\_id,before=”,after=”,limit=None,result=None)

Listthelatesttradesforaproduct.   
ThismethodreturnsageneratorwhichmaymakemultipleHTTPrequestswhileiteratingthroughit.

Parameters   
•**product\_id**(str)–Product

•**before**(Optional[str])–starttimeinISO8601   
•**after**(Optional[str])–endtimeinISO8601   
•**limit**(Optional[int])–thedesirednumberoftrades(canbemorethan100,

automaticallypaginated)   
•**results**(Optional[list])–listofresultsthatisusedforthepagination

Returns   
Latesttrades.Example::

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[{“time”: “2014-11-07T22:19:28.578544Z”,“trade\_id”: 74,“price”:   
“10.00000000”,“size”:“0.01000000”,“side”:“buy”

},{“time”: “2014-11-07T01:08:43.642366Z”,“trade\_id”: 73,“price”:   
“100.00000000”,“size”:“0.01000000”,“side”:“sell”

Returntype   
list

}]

**get\_products**()   
Getalistofavailablecurrencypairsfortrading.

Returns   
Infoaboutallcurrencypairs.Example::

[

{“id”:“BTC-USD”,“display\_name”:“BTC/USD”,“base\_currency”:“BTC”,   
“quote\_currency”:“USD”,“base\_min\_size”:“0.01”,“base\_max\_size”:   
“10000.00”,“quote\_increment”:“0.01”

}

]

Returntypelist

**get\_time**()   
GettheAPIservertime.

Returns   
ServertimeinISOandepochformat(decimalseconds

sinceUnixepoch).Example::   
{“iso”:“2015-01-07T23:47:25.201Z”,“epoch”:1420674445.201

}

Returntypedict

**1.2AuthenticatedClient**

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**1.2.1AuthenticatedClient**

cbpro/AuthenticatedClient.pyDanielPaquin   
ForauthenticatedrequeststotheCoinbaseexchange

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**class**cbpro.authenticated\_client.**AuthenticatedClient**(key,b64secret,passphrase,   
api\_url=’https://api.pro.coinbase.com’)

ProvidesaccesstoPrivateEndpointsonthecbproAPI.   
Allrequestsdefaulttotheliveapi\_url:‘[https://api.pro.coinbase.com](https://api.pro.coinbase.com/)’.Totestyourapplicationusingthesand-   
boxmodifytheapi\_url.

**url**

Theapiurlforthisclientinstancetouse.   
Typestr

**auth**

Customauthenticationhandlerforeachrequest.   
TypeCBProAuth

**session**   
PersistentHTTPconnectionobject.

Typerequests.Session   
**buy**(product\_id,order\_type,\*\*kwargs)

Placeabuyorder.   
Thisisincludedtomaintainbackwardscompatibilitywitholderversionsofcbpro-Python.Formaximum   
supportfromdocstringsandfunctionsignaturesseetheordertype-specificfunctionsplace\_limit\_order,   
place\_market\_order,andplace\_stop\_order.

Parameters   
•**product\_id**(str)–Producttoorder(eg.‘BTC-USD’)

•**order\_type**(str)–Ordertype(‘limit’,‘market’,or‘stop’)   
•**\*\*kwargs**–Additionalargumentscanbespecifiedfordifferentordertypes.

ReturnsOrderdetails.Seeplace\_orderforexample.   
Returntypedict

**cancel\_all**(product\_id=None)   
Withbesteffort,cancelallopenorders.

Parameters**product\_id**(Optional[str])–Onlycancelordersforthisproduct\_id   
Returns

Alistofidsofthecanceledorders.Example::   
[“144c6f8e-713f-4682-8435-5280fbe8b2b4”, “debe4907-95dc-442f-af3b-

cec12f42ebda”,“cf7aceee-7b08-4227-a76c-3858144323ab”,“dfc5ae27-cadb-   
4c0c-beef-8994936fde8a”,“34fecfbf-de33-4273-b2c6-baf8e8948be4”

]

Returntypelist   
**cancel\_order**(order\_id)

Cancelapreviouslyplacedorder.   
Iftheorderhadnomatchesduringitslifetimeitsrecordmaybepurged.Thismeanstheorderdetailswill   
notbeavailablewithget\_order(order\_id).Iftheordercouldnotbecanceled(alreadyfilledorpreviously   
canceled,etc),thenanerrorresponsewillindicatethereasoninthemessagefield.

Caution:Theorderidistheserver-assignedorderidandnottheoptionalclient\_oid.

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Parameters**order\_id**(str)–Theorder\_idoftheorderyouwanttocancel   
Returns

Containingtheorder\_idofcancelledorder.Example::[“c5ab5eae-76be-480e-8961-   
00792dc7e138”]

Returntypelist   
**close\_position**(repay\_only)

Closeposition.   
Parameters**repay\_only**(bool)–Undocumentedbycbpro.

ReturnsUndocumented   
**coinbase\_deposit**(amount,currency,coinbase\_account\_id)

Depositfundsfromacoinbaseaccount.   
YoucanmovefundsbetweenyourCoinbaseaccountsandyourcbprotradingaccountswithinyourdaily   
limits.MovingfundsbetweenCoinbaseandcbproisinstantandfree.

SeeAuthenticatedClient.get\_coinbase\_accounts() toreceive informationregardingyourcoin-   
base\_accounts.

Parameters   
•**amount**(Decimal)–Theamounttodeposit.

•**currency**(str)–Thetypeofcurrency.   
•**coinbase\_account\_id**(str)–IDofthecoinbaseaccount.

Returns   
Informationaboutthedeposit.Example::

{“id”:“593533d2-ff31-46e0-b22e-ca754147a96a”,“amount”:“10.00”,“currency”:   
“BTC”,

}

Returntypedict   
**coinbase\_withdraw**(amount,currency,coinbase\_account\_id)

Withdrawfundstoacoinbaseaccount.   
YoucanmovefundsbetweenyourCoinbaseaccountsandyourcbprotradingaccountswithinyourdaily   
limits.MovingfundsbetweenCoinbaseandcbproisinstantandfree.

SeeAuthenticatedClient.get\_coinbase\_accounts() toreceive informationregardingyourcoin-   
base\_accounts.

Parameters   
•**amount**(Decimal)–Theamounttowithdraw.

•**currency**(str)–Thetypeofcurrency(eg.‘BTC’)   
•**coinbase\_account\_id**(str)–IDofthecoinbaseaccount.

Returns   
Informationaboutthedeposit.Example::

{“id”:”593533d2-ff31-46e0-b22e-ca754147a96a”,“amount”:”10.00”,“currency”:   
“BTC”,

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}

Returntypedict   
**create\_report**(report\_type,start\_date,end\_date,product\_id=None,account\_id=None,re-

port\_format=’pdf’,email=None)   
Createreportofhistoricinformationaboutyouraccount.

Thereportwillbegeneratedwhenresourcesareavailable.Reportstatuscanbequeriedvia   
get\_report(report\_id).

Parameters   
•**report\_type**(str)–‘fills’or‘account’

•**start\_date**(str)–StartingdateforthereportinISO8601   
•**end\_date**(str)–EndingdateforthereportinISO8601   
•**product\_id**(Optional[str])–IDoftheproducttogenerateafillsreportfor.

Requiredifaccount\_typeis‘fills’   
•**account\_id**(Optional[str])–IDoftheaccounttogenerateanaccountreport

for.Requiredifreport\_typeis‘account’.   
•**report\_format**(Optional[str])–‘pdf’or‘csv’.Defaultis‘pdf’.

•**email**(Optional[str])–Emailaddresstosendthereportto.

Returns   
Reportdetails.Example::

{“id”:“0428b97b-bec1-429e-a94c-59232926778d”,“type”:“fills”,“status”:“pend-   
ing”,“created\_at”:“2015-01-06T10:34:47.000Z”,“completed\_at”:undefined,   
“expires\_at”:“2015-01-13T10:35:47.000Z”,“file\_url”:undefined,“params”:{

”start\_date”: “2014-11-01T00:00:00.000Z”,“end\_date”: “2014-11-   
30T23:59:59.000Z”

}

}

Returntypedict   
**crypto\_withdraw**(amount,currency,crypto\_address)

Withdrawfundstoacryptoaddress.   
Parameters

•**amount**(Decimal)–Theamounttowithdraw   
•**currency**(str)–Thetypeofcurrency(eg.‘BTC’)   
•**crypto\_address**(str)–Cryptoaddresstowithdrawto.

Returns   
Withdrawdetails.Example::

{“id”:”593533d2-ff31-46e0-b22e-ca754147a96a”,“amount”:”10.00”,“currency”:   
“BTC”,

}

Returntypedict

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**deposit**(amount,currency,payment\_method\_id)   
Depositfundsfromapaymentmethod.

SeeAuthenticatedClient.get\_payment\_methods()toreceiveinformationregardingpaymentmethods.   
Parameters

•**amount**(Decmial)–Theamounttodeposit.   
•**currency**(str)–Thetypeofcurrency.   
•**payment\_method\_id**(str)–IDofthepaymentmethod.

Returns   
Informationaboutthedeposit.Example::

{“id”:“593533d2-ff31-46e0-b22e-ca754147a96a”,“amount”:“10.00”,“currency”:   
“USD”,“payout\_at”:“2016-08-20T00:31:09Z”

}

Returntypedict   
**get\_account**(account\_id)

Getinformationforasingleaccount.   
Usethisendpointwhenyouknowtheaccount\_id.

Parameters**account\_id**(str)–Accountidforaccountyouwanttoget.   
Returns

Accountinformation.Example::   
{“id”:“a1b2c3d4”,“balance”:“1.100”,“holds”:“0.100”,“available”:“1.00”,“cur-

rency”:“USD”

}

Returntypedict   
**get\_account\_history**(account\_id,\*\*kwargs)

Listaccountactivity.Accountactivityeitherincreasesordecreasesyouraccountbalance.   
Entrytypeindicatesthereasonfortheaccountchange.\*transfer:Fundsmovedto/fromCoinbaseto   
cbpro\*match:Fundsmovedasaresultofatrade\*fee:Feeasaresultofatrade\*rebate:Feerebateas   
perourfeeschedule

Ifanentryistheresultofatrade(match,fee),thedetailsfieldwillcontainadditionalinformationabout   
thetrade.

Parameters   
•**account\_id**(str)–Accountidtogethistoryof.

•**kwargs**(dict)–AdditionalHTTPrequestparameters.

Returns   
Historyinformationfortheaccount.Example::

[

{“id”:“100”,“created\_at”:“2014-11-07T08:19:27.028459Z”,“amount”:   
“0.001”,“balance”:“239.669”,“type”:“fee”,“details”:{

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”order\_id”:“d50ec984-77a8-460a-b958-66f114b0de9b”,“trade\_id”:“74”, “product\_id”:“BTC-USD”

}

},{

...

}

]

Returntypelist   
**get\_account\_holds**(account\_id,\*\*kwargs)

Getholdsonanaccount.   
ThismethodreturnsageneratorwhichmaymakemultipleHTTPrequestswhileiteratingthroughit.   
Holdsareplacedonanaccountforactiveordersorpendingwithdrawrequests.   
Asanorderisfilled,theholdamountisupdated.Ifanorderiscanceled,anyremainingholdisremoved.   
Forawithdraw,onceitiscompleted,theholdisremoved.   
Thetypefieldwillindicatewhytheholdexists.Theholdtypeis‘order’forholdsrelatedtoopenorders   
and‘transfer’forholdsrelatedtoawithdraw.   
Thereffieldcontainstheidoftheorderortransferwhichcreatedthehold.

Parameters   
•**account\_id**(str)–Accountidtogetholdsof.

•**kwargs**(dict)–AdditionalHTTPrequestparameters.

Returns   
Holdinformationfortheaccount.Example::

[

{“id”: “82dcd140-c3c7-4507-8de4-2c529cd1a28f”, “account\_id”:   
“e0b3f39a-183d-453e-b754-0c13e5bab0b3”,“created\_at”: “2014-11-   
06T10:34:47.123456Z”,“updated\_at”:“2014-11-06T10:40:47.123456Z”,   
“amount”:“4.23”,“type”:“order”,“ref”:“0a205de4-dd35-4370-a285-   
fe8fc375a273”,

},{...}

]

Returntypegenerator(list)

**get\_accounts**()   
Getalistoftradingallaccounts.

Whenyouplaceanorder,thefundsfortheorderareplacedonhold.Theycannotbeusedforotherorders   
orwithdrawn.Fundswillremainonholduntiltheorderisfilledorcanceled.Thefundsonholdforeach   
accountwillbespecified.

Returns   
Infoaboutallaccounts.Example::

[

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{“id”:“71452118-efc7-4cc4-8780-a5e22d4baa53”,“currency”:“BTC”,   
“balance”:“0.0000000000000000”,“available”:“0.0000000000000000”,   
“hold”:“0.0000000000000000”,“profile\_id”:“75da88c5-05bf-4f54-bc85-   
5c775bd68254”

},{

...

}

]

Returntypelist

•Additionalinfoincludedinresponseformarginaccounts.

**get\_coinbase\_accounts**()   
Getalistofyourcoinbaseaccounts.

ReturnsCoinbaseaccountdetails.   
Returntypelist

**get\_fills**(product\_id=None,order\_id=None,\*\*kwargs)   
Getalistofrecentfills.

Asof8/23/18-Requestswithouteitherorder\_idorproduct\_idwillberejected   
ThismethodreturnsageneratorwhichmaymakemultipleHTTPrequestswhileiteratingthroughit.   
Feesarerecordedintwostages.Immediatelyafterthematchingenginecompletesamatch,thefillis   
insertedintoourdatastore.Oncethefillisrecorded,asettlementprocesswillsettlethefillandcreditboth   
tradingcounterparties.

The‘fee’fieldindicatesthefeeschargedforthisfill.   
The‘liquidity’fieldindicatesifthefillwastheresultofaliquidityproviderorliquiditytaker.Mindicates   
MakerandTindicatesTaker.

Parameters   
•**product\_id**(str)–Limitlisttothisproduct\_id

•**order\_id**(str)–Limitlisttothisorder\_id   
•**kwargs**(dict)–AdditionalHTTPrequestparameters.

Returns   
Containinginformationonfills.Example::

[

{“trade\_id”:74,“product\_id”:“BTC-USD”,“price”:“10.00”,“size”:   
“0.01”,“order\_id”:“d50ec984-77a8-460a-b958-66f114b0de9b”,“cre-   
ated\_at”:“2014-11-07T22:19:28.578544Z”,“liquidity”:“T”,“fee”:   
“0.00025”,“settled”:true,“side”:“buy”

},{

...

}

]

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Returntypelist   
**get\_fundings**(status=None,\*\*kwargs)

Everyorderplacedwithamarginprofilethatdrawsfundingwillcreateafundingrecord.   
ThismethodreturnsageneratorwhichmaymakemultipleHTTPrequestswhileiteratingthroughit.

Parameters   
•**status**(list/str)–Limitfundingrecordstothesestatuses.\*\*Options:‘out-

standing’,‘settled’,‘rejected’   
•**kwargs**(dict)–AdditionalHTTPrequestparameters.

Returns   
Containinginformationonmarginfunding.Example::

[

{“id”:“b93d26cd-7193-4c8d-bfcc-446b2fe18f71”,“order\_id”:“b93d26cd-   
7193-4c8d-bfcc-446b2fe18f71”,“profile\_id”:“d881e5a6-58eb-47cd-b8e2-   
8d9f2e3ec6f6”,“amount”:“1057.6519956381537500”,“status”:“settled”,   
“created\_at”:“2017-03-17T23:46:16.663397Z”,“currency”:“USD”,“re-   
paid\_amount”:“1057.6519956381537500”,“default\_amount”:“0”,“re-   
paid\_default”:false

},{

...

}

]

Returntypelist   
**get\_order**(order\_id)

Getasingleorderbyorderid.   
Iftheorderiscanceledtheresponsemayhavestatuscode404iftheorderhadnomatches.   
Caution:Openordersmaychangestatebetweentherequestandtheresponsedependingonmarket   
conditions.

Parameters**order\_id**(str)–Theordertogetinformationof.   
Returns

Containinginformationonorder.Example::   
{“created\_at”: “2017-06-18T00:27:42.920136Z”, “executed\_value”:

“0.0000000000000000”,“fill\_fees”:“0.0000000000000000”,“filled\_size”:   
“0.00000000”, “id”: “9456f388-67a9-4316-bad1-330c5353804f”,   
“post\_only”: true,“price”:“1.00000000”,“product\_id”:“BTC-USD”,   
“settled”:false,“side”:“buy”,“size”:“1.00000000”,“status”:“pending”,   
“stp”:“dc”,“time\_in\_force”:“GTC”,“type”:“limit”

}

Returntypedict   
**get\_orders**(product\_id=None,status=None,\*\*kwargs)

Listyourcurrentopenorders.   
ThismethodreturnsageneratorwhichmaymakemultipleHTTPrequestswhileiteratingthroughit.

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Onlyopenorun-settledordersarereturned.Assoonasanorderisnolongeropenandsettled,itwillno   
longerappearinthedefaultrequest.

Orderswhicharenolongerrestingontheorderbook,willbemarkedwiththe‘done’status.Thereisa   
smallwindowbetweenanorderbeing‘done’and‘settled’.Anorderis‘settled’whenallofthefillshave   
settledandtheremainingholds(ifany)havebeenremoved.

Forhigh-volumetradingitisstronglyrecommendedthatyoumaintainyourownlistofopenordersand   
useoneofthestreamingmarketdatafeedstokeepitupdated.Youshouldpolltheopenordersendpoint   
oncewhenyoustarttradingtoobtainthecurrentstateofanyopenorders.

Parameters   
•**product\_id**(Optional[str])–Onlylistordersforthisproduct

•**status**(Optional[list/str])–Limitlistoforderstothisstatusorsta-   
tuses.Passing‘all’returnsordersofallstatuses.\*\*Options:‘open’,‘pending’,   
‘active’,‘done’,

’settled’   
\*\*default:[‘open’,‘pending’,‘active’]

Returns   
Containinginformationonorders.Example::

[

{“id”:“d0c5340b-6d6c-49d9-b567-48c4bfca13d2”,“price”:“0.10000000”,   
“size”:“0.01000000”,“product\_id”:“BTC-USD”,“side”:“buy”,   
“stp”:“dc”,“type”:“limit”,“time\_in\_force”:“GTC”,“post\_only”:   
false,“created\_at”: “2016-12-08T20:02:28.53864Z”,“fill\_fees”:   
“0.0000000000000000”,“filled\_size”:“0.00000000”,“executed\_value”:   
“0.0000000000000000”,“status”:“open”,“settled”:false

},{

...

}

]

Returntypelist

**get\_payment\_methods**()   
Getalistofyourpaymentmethods.

ReturnsPaymentmethoddetails.   
Returntypelist

**get\_position**()   
GetAnoverviewofyourmarginprofile.

ReturnsDetailsaboutfunding,accounts,andmargincall.   
Returntypedict

**get\_report**(report\_id)   
Getreportstatus.

Usetoqueryaspecificreportonceithasbeenrequested.   
Parameters**report\_id**(str)–ReportID

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ReturnsReportdetails,includingfileurlonceitiscreated.   
Returntypedict

**get\_trailing\_volume**()   
Getyour30-daytrailingvolumeforallproducts.

Thisisacachedvaluethat’scalculatedeverydayatmidnightUTC.   
Returns

30-daytrailingvolumes.Example::

[

{“product\_id”:“BTC-USD”,“exchange\_volume”:“11800.00000000”,“vol-   
ume”:“100.00000000”,“recorded\_at”:“1973-11-29T00:05:01.123456Z”

},{

...

}

]

Returntypelist   
**margin\_transfer**(margin\_profile\_id,transfer\_type,currency,amount)

Transferfundsbetweenyourstandardprofileandamarginprofile.   
Parameters

•**margin\_profile\_id**(str)–MarginprofileIDtowithdrawordepositfrom.   
•**transfer\_type**(str)–‘deposit’or‘withdraw’   
•**currency**(str)–Currencytotransfer(eg.‘USD’)   
•**amount**(Decimal)–Amounttotransfer

Returns   
Transferdetails.Example::

{“created\_at”:“2017-01-25T19:06:23.415126Z”,“id”:“80bc6b74-8b1f-4c60-   
a089-c61f9810d4ab”,“user\_id”: “521c20b3d4ab09621f000011”,“pro-   
file\_id”:“cda95996-ac59-45a3-a42e-30daeb061867”,“margin\_profile\_id”:   
“45fa9e3b-00ba-4631-b907-8a98cbdf21be”,“type”:“deposit”,“amount”:   
“2”,“currency”:“USD”,“account\_id”:“23035fc7-0707-4b59-b0d2-   
95d0c035f8f5”, “margin\_account\_id”: “e1d9862c-a259-4e83-96cd-   
376352a9d24d”,“margin\_product\_id”:“BTC-USD”,“status”:“completed”,   
“nonce”:25

}

Returntypedict   
**place\_limit\_order**(product\_id, side, price, size, client\_oid=None,stp=None,

time\_in\_force=None, cancel\_after=None, post\_only=None, over-   
draft\_enabled=None,funding\_amount=None)

Placealimitorder.   
Parameters

•**product\_id**(str)–Producttoorder(eg.‘BTC-USD’)   
•**side**(str)–Orderside(‘buy’or‘sell)

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•**price**(Decimal)–Pricepercryptocurrency   
•**size**(Decimal)–Amountofcryptocurrencytobuyorsell   
•**client\_oid**(Optional[str])–User-specifiedOrderID   
•**stp**(Optional[str])–Self-tradepreventionflag.Seeplace\_orderfordetails.   
•**time\_in\_force**(Optional[str])–Timeinforce.Options:‘GTC’Good

tillcanceled‘GTT’Goodtilltime(setbycancel\_after)‘IOC’Immediateorcancel   
‘FOK’Fillorkill

•**cancel\_after**(Optional[str])–Cancelafterthisperiodfor‘GTT’or-   
ders.Optionsare‘min’,‘hour’,or‘day’.

•**post\_only**(Optional[bool])–Indicatesthattheordershouldonlymake   
liquidity.Ifanypartoftheorderresultsintakingliquidity,theorderwillberejected   
andnopartofitwillexecute.

•**overdraft\_enabled**(Optional[bool])–Iftruefundingaboveandbe-   
yondtheaccountbalancewillbeprovidedbymargin,asnecessary.

•**funding\_amount**(Optional[Decimal])–Amountofmarginfundingto   
beprovidedfortheorder.Mutuallyexclusivewithoverdraft\_enabled.

ReturnsOrderdetails.Seeplace\_orderforexample.   
Returntypedict

**place\_market\_order**(product\_id,side,size=None,funds=None,client\_oid=None,stp=None,   
overdraft\_enabled=None,funding\_amount=None)

Placemarketorder.   
Parameters

•**product\_id**(str)–Producttoorder(eg.‘BTC-USD’)   
•**side**(str)–Orderside(‘buy’or‘sell)   
•**size**(Optional[Decimal])–Desiredamountincrypto.Specifythisor

funds.   
•**funds**(Optional[Decimal])–Desiredamountofquotecurrencytouse.

Specifythisorsize.   
•**client\_oid**(Optional[str])–User-specifiedOrderID

•**stp**(Optional[str])–Self-tradepreventionflag.Seeplace\_orderfordetails.   
•**overdraft\_enabled**(Optional[bool])–Iftruefundingaboveandbe-

yondtheaccountbalancewillbeprovidedbymargin,asnecessary.   
•**funding\_amount**(Optional[Decimal])–Amountofmarginfundingto

beprovidedfortheorder.Mutuallyexclusivewithoverdraft\_enabled.   
ReturnsOrderdetails.Seeplace\_orderforexample.

Returntypedict

**place\_order**(product\_id,side,order\_type,\*\*kwargs)   
Placeanorder.

Thethreeordertypes(limit,market,andstop)canbeplacedusingthismethod.Specificmethodsare   
providedforeachordertype,butifamoregenericinterfaceisdesiredthismethodisavailable.

Parameters

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•**product\_id**(str)–Producttoorder(eg.‘BTC-USD’)   
•**side**(str)–Orderside(‘buy’or‘sell)   
•**order\_type**(str)–Ordertype(‘limit’,‘market’,or‘stop’)   
•**\*\*client\_oid**(str)–OrderIDselectedbyyoutoidentifyyourorder.This

shouldbeaUUID,whichwillbebroadcastinthepublicfeedforreceivedmes-   
sages.

•**\*\*stp**(str)–Self-tradepreventionflag.cbprodoesn’tallowself-trading.This   
behaviorcanbemodifiedwiththisflag.Options:‘dc’DecreaseandCancel(de-   
fault)‘co’Canceloldest‘cn’Cancelnewest‘cb’Cancelboth

•**\*\*overdraft\_enabled**(Optional[bool])–Iftruefundingaboveandbe-   
yondtheaccountbalancewillbeprovidedbymargin,asnecessary.

•**\*\*funding\_amount**(Optional[Decimal])–Amountofmarginfunding   
tobeprovidedfortheorder.Mutuallyexclusivewithoverdraft\_enabled.

•**\*\*kwargs**–Additionalargumentscanbespecifiedfordifferentordertypes.See   
thelimit/market/stopordermethodsfordetails.

Returns   
Orderdetails.Example::

{“id”:“d0c5340b-6d6c-49d9-b567-48c4bfca13d2”,“price”:“0.10000000”,   
“size”:“0.01000000”,“product\_id”:“BTC-USD”,“side”:“buy”,“stp”:“dc”,   
“type”:“limit”,“time\_in\_force”:“GTC”,“post\_only”:false,“created\_at”:   
“2016-12-08T20:02:28.53864Z”,“fill\_fees”: “0.0000000000000000”,   
“filled\_size”:“0.00000000”,“executed\_value”:“0.0000000000000000”,   
“status”:“pending”,“settled”:false

}

Returntypedict   
**place\_stop\_order**(product\_id,side,price,size=None,funds=None,client\_oid=None,stp=None,

overdraft\_enabled=None,funding\_amount=None)

Placestoporder.   
Parameters

•**product\_id**(str)–Producttoorder(eg.‘BTC-USD’)   
•**side**(str)–Orderside(‘buy’or‘sell)   
•**price**(Decimal)–Desiredpriceatwhichthestopordertriggers.   
•**size**(Optional[Decimal])–Desiredamountincrypto.Specifythisor

funds.   
•**funds**(Optional[Decimal])–Desiredamountofquotecurrencytouse.

Specifythisorsize.   
•**client\_oid**(Optional[str])–User-specifiedOrderID

•**stp**(Optional[str])–Self-tradepreventionflag.Seeplace\_orderfordetails.   
•**overdraft\_enabled**(Optional[bool])–Iftruefundingaboveandbe-

yondtheaccountbalancewillbeprovidedbymargin,asnecessary.   
•**funding\_amount**(Optional[Decimal])–Amountofmarginfundingto

beprovidedfortheorder.Mutuallyexclusivewithoverdraft\_enabled.

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ReturnsOrderdetails.Seeplace\_orderforexample.   
Returntypedict

**repay\_funding**(amount,currency)   
Repayfunding.Repaystheolderfundingrecordsfirst.

Parameters   
•**amount**(int)–Amountofcurrencytorepay

•**currency**(str)–Thecurrency,exampleUSD   
ReturnsNotspecifiedbycbpro.

**sell**(product\_id,order\_type,\*\*kwargs)   
Placeasellorder.

Thisisincludedtomaintainbackwardscompatibilitywitholderversionsofcbpro-Python.Formaximum   
supportfromdocstringsandfunctionsignaturesseetheordertype-specificfunctionsplace\_limit\_order,   
place\_market\_order,andplace\_stop\_order.

Parameters   
•**product\_id**(str)–Producttoorder(eg.‘BTC-USD’)

•**order\_type**(str)–Ordertype(‘limit’,‘market’,or‘stop’)   
•**\*\*kwargs**–Additionalargumentscanbespecifiedfordifferentordertypes.

ReturnsOrderdetails.Seeplace\_orderforexample.   
Returntypedict

**withdraw**(amount,currency,payment\_method\_id)   
Withdrawfundstoapaymentmethod.

SeeAuthenticatedClient.get\_payment\_methods()toreceiveinformationregardingpaymentmethods.   
Parameters

•**amount**(Decimal)–Theamounttowithdraw.   
•**currency**(str)–Currencytype(eg.‘BTC’)   
•**payment\_method\_id**(str)–IDofthepaymentmethod.

Returns   
Withdrawdetails.Example::

{“id”:”593533d2-ff31-46e0-b22e-ca754147a96a”,“amount”:“10.00”,“cur-   
rency”:“USD”,“payout\_at”:“2016-08-20T00:31:09Z”

}

Returntypedict

**1.3Authentication**

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**1.3.1Authentication**

**class**cbpro.cbpro\_auth.**CBProAuth**(api\_key,secret\_key,passphrase)

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