

# Stocktwits

June 29, 2022

```
[45]: eth_url = "https://api.stocktwits.com/api/2/streams/symbol/ETH.X.json"

[2]: import requests

[3]: import json

[46]: response = requests.get(eth_url)

[47]: data = json.loads(response.text)

[7]: data.keys()

[7]: dict_keys(['response', 'symbol', 'cursor', 'regions', 'messages'])

[8]: data['symbol']

[8]: {'id': 13016,
      'symbol': 'ETH.X',
      'title': 'Ethereum',
      'aliases': ['ETHUSD'],
      'is_following': False,
      'watchlist_count': 256784,
      'has_pricing': True}

[9]: data['cursor']

[9]: {'more': True, 'since': 469077046, 'max': 469062634}

[10]: data['messages'][0].keys()

[10]: dict_keys(['id', 'body', 'created_at', 'user', 'source', 'symbols', 'likes',
               'mentioned_users', 'entities'])

[11]: data['messages'][0]['id']

[11]: 469077046

[12]: data['messages'][0]['body']
```

```
[12]: '$LUNC.X The epic run in the work.\n\nLocked and loaded ==&gt; .0004\n\n$DOGE.X $SHIB.X $ETH.X'
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[13]: data['messages'][0]['created_at']
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[13]: '2022-06-29T17:49:39Z'
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[14]: data['messages'][0]['user']
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[14]: {'id': 3233459,
      'username': 'MoneyIsJustATool',
      'name': 'Andy',
      'avatar_url':
'https://avatars.stocktwits.com/production/3233459/thumb-1595289845.png',
      'avatar_url_ssl':
'https://avatars.stocktwits.com/production/3233459/thumb-1595289845.png',
      'join_date': '2020-03-27',
      'official': False,
      'identity': 'User',
      'classification': [],
      'home_country': 'US',
      'search_country': 'US',
      'followers': 34,
      'following': 32,
      'ideas': 2234,
      'watchlist_stocks_count': 25,
      'like_count': 888,
      'plus_tier': '',
      'premium_room': '',
      'trade_app': False,
      'trade_status': None}
```

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[15]: data['messages'][0]['entities']
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[15]: {'sentiment': {'basic': 'Bullish'}}
```

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[16]: with open(f"ethereum_{data['cursor']['max']}", "w") as f:
      json.dump(data, f)
```

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[18]: len(data['messages'])
```

```
[18]: 30
```

```
[48]: stocktwits_tweets = {
      'created_at': [],
      'user_name': [],
      'user_id': [],
      'bear_bull_tag': [],
```

```

    'text': []
}

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[49]: for message in data['messages']:
        stocktwits_tweets['text'].append(message['body'])
        stocktwits_tweets['created_at'].append(message['created_at'])
        try:
            stocktwits_tweets['bear_bull_tag'].
            ↪append(message['entities']['sentiment']['basic'])
        except TypeError:
            stocktwits_tweets['bear_bull_tag'].append("NIL")
        stocktwits_tweets['user_name'].append(message['user']['username'])
        stocktwits_tweets['user_id'].append(message['user']['id'])

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[28]: import pandas as pd

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[50]: pd.DataFrame(stocktwits_tweets)

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[50]:
      created_at      user_name  user_id  bear_bull_tag  \
0  2022-06-29T18:17:24Z  Billionaireclubcollc  1505519      NIL
1  2022-06-29T18:16:34Z      charlie_mack  6543928    Bearish
2  2022-06-29T18:14:03Z      DevOpLerp  5906790      NIL
3  2022-06-29T18:11:29Z      tuningin   254176      NIL
4  2022-06-29T18:10:50Z      rumneychel  6358556    Bullish
5  2022-06-29T18:06:31Z      Bluben    1699159    Bullish
6  2022-06-29T18:05:01Z      A76er76er  3265366      NIL
7  2022-06-29T18:04:25Z      The__Warthog  6389310    Bearish
8  2022-06-29T18:02:03Z  Billionaireclubcollc  1505519      NIL
9  2022-06-29T17:53:11Z      StocksWithCam  5248069    Bullish
10 2022-06-29T17:51:55Z      Deep_Value_Crypto  6289096    Bullish
11 2022-06-29T17:50:59Z      ProfitablePiggg  1853481    Bearish
12 2022-06-29T17:49:39Z      MoneyIsJustATool  3233459    Bullish
13 2022-06-29T17:49:16Z      Honeycombz11  3975552    Bearish
14 2022-06-29T17:48:54Z      Rollertrader  3841160    Bullish
15 2022-06-29T17:48:34Z  Billionaireclubcollc  1505519      NIL
16 2022-06-29T17:46:36Z      _SuNdAyGrAvY__  6362259      NIL
17 2022-06-29T17:45:52Z      ElcaBezudo    5398578    Bearish
18 2022-06-29T17:42:43Z      rumneychel    6358556    Bullish
19 2022-06-29T17:42:17Z      STCKPRO      1555408      NIL
20 2022-06-29T17:42:09Z  Billionaireclubcollc  1505519      NIL
21 2022-06-29T17:39:27Z  Billionaireclubcollc  1505519      NIL
22 2022-06-29T17:38:22Z      Opposite_George  5468014    Bullish
23 2022-06-29T17:37:49Z      StocksWithCam  5248069    Bullish
24 2022-06-29T17:34:45Z      ShartMarket   1007119      NIL
25 2022-06-29T17:33:34Z      SorosSonosSatoshi  2011874      NIL
26 2022-06-29T17:33:08Z      TTP16        390247    Bearish
27 2022-06-29T17:32:23Z      ChartGuysDan   434891      NIL

```

28	2022-06-29T17:32:19Z	WoLFoFWaLlStReET0007	3326991	Bullish
29	2022-06-29T17:27:08Z	PELK	3740090	NIL

```

                                text
0  Polkadot's founder announces steps toward full...
1  $ETH.X Y'all stupid trying to get you cerium t...
2  $ETH.X so now Hollywood is defunding the police?
3  $ETH.X so many reasons to be bullish. So many ...
4  $ETH.X $BTC.X should I chase the pumps \nWill ...
5  $DOGE.X $LUNC.X $ETH.X $BTC.X $SHIB.X \n\nDog...
6  $ETH.X price action is pretty weak and the res...
7                                $ETH.X
8  It's time to refocus on crypto infrastructure,...
9  $BTC.X $LUNC.X $UST.X $XRP.X $ETH.X \n    \nBRE...
10 $ZEC.X price depressing i can barely meme for...
11 I think what's gonna catch most crypto bulls b...
12 $LUNC.X The epic run in the work.\n\nLocked an...
13 $ETH.X Getting cannibalized by BTC. Goes down ...
14 $LUNC.X The state of the crypto market right n...
15 Gal Gadot-Backed AdaSwap Launches Public Testn...
16 $AABB $ETH.X $DIGAF \nbone marrow ..yes please
17     $ETH.X there goes your vacations folks
18     $ETH.X 500 is the bottom
19 $ETH.X NEW ARTICLE : 3,371 ETH Worth $3M Was J...
20 Binance NFT Marketplace Will Support the First...
21 $TRON.X With Over 100M Users, Celebrates Mainn...
22 $BTC.X $ETH.X \n25000 and 1500 is the new to ...
23 $BTC.X $LUNC.X $UST.X $XRP.X $ETH.X \nBREAKIN...
24                                $ETH.X
25 $BTC.X soon proudly presentinthe razoring o 16...
26                                $ETH.X
27 Going LIVE in 30 minutes to look at $BTC.x $ET...
28     $ETH.X who hooooo...hoodoo... heeeee haaaa
29                                $SPY $ETH.X

```

```

[51]: for i in range(33): # 1000/30 ~ 33
      # making 'max' the 'since' of latest
      # we'll go back from the latest url every time using 'max' to get 1000
      ↪ latest tweets.
      response = requests.get(eth_url + f"?max={data['cursor']['since']}")
      data = json.loads(response.text)

      with open(f"ethereum_{data['cursor']['max']}.w", "w") as f:
          json.dump(data, f)

      for message in data['messages']:
          stocktwits_tweets['text'].append(message['body'])

```

```

stocktwits_tweets['created_at'].append(message['created_at'])
try:
    stocktwits_tweets['bear_bull_tag'].
    ↪append(message['entities']['sentiment']['basic'])
except TypeError:
    stocktwits_tweets['bear_bull_tag'].append("NIL")
stocktwits_tweets['user_name'].append(message['user']['username'])
stocktwits_tweets['user_id'].append(message['user']['id'])

```

```
[52]: df = pd.DataFrame(stocktwits_tweets)
```

```
[53]: df.head()
```

```
[53]:
```

	created_at	user_name	user_id	bear_bull_tag	\
0	2022-06-29T18:17:24Z	Billionaireclubcollc	1505519	NIL	
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```

text
0 Polkadot's founder announces steps toward full...
1 $ETH.X Y'all stupid trying to get you cerium t...
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3 $ETH.X so many reasons to be bullish. So many ...
4 $ETH.X $BTC.X should I chase the pumps \nWill ...

```

```
[54]: df.to_csv("eth_stocktwits.csv", index=False)
```

```
[55]: len(df)
```

```
[55]: 1020
```