

Installation

First install python3, then
pip3 install tweepy
pip3 install pandas
pip3 install requests

Twitter api and crediantal

First, Enter <https://developer.twitter.com/> and sign in or sign up a new account. Click the Developer Portal on the top right corner and create your own twitter api.

Then you will get 5 things: API Key and Secret, Bearer Token, Access Token and Secret. You can also check them in Keys and notes under your project afterwards.

PROJECT 1

EC601PROJECT2YX

Settings

Keys and tokens

Elevated account

To run the test programs, you need to upgrade your twitter api to elevated. Enter the product section on the left side and click Elevated to apply for.

Twitter API v2

Essential

Elevated

Academic Research

tweepy_api.py test

This code file is used to search the most recent tweets by hashtag or keywords using tweepy

In the file, there is a dictionary including API Key and Secret, Access Token and Secret. Change these variables to your own and run

```
python3 tweepy_api.py
```

The result shows all the most recent n tweets searched by keywords. You can change the content of variable hashtag and count

```
hashtags =  
count = 100
```

For example, I search the hashtag #Zhongli and count to 100.

Result

```
(base) chenxiluodeMBP:twitterapi chenxilu$ python3 tweepy_api.py  
Time User Tweet  
0 2022-10-16 23:32:07+00:00 Sleepy_sub RT @akynoodles: Don't think I ever posted all ...  
1 2022-10-16 23:31:56+00:00 koreheartfilia RT @nicocchiin: ❷ sketch from months ago #itt...  
2 2022-10-16 23:31:54+00:00 _basicwitch_ RT @allzhongli_bot: #GenshinImpact #原神\n#鍾離 #z...  
3 2022-10-16 23:31:53+00:00 nicomdlp RT @nicocchiin: ❷ sketch from months ago #itt...  
4 2022-10-16 23:31:50+00:00 Orphinceus RT @MMt841: ぬい先生「ぬー♡(とりっくおあとりと)」\n#zhongli #...  
5 2022-10-16 23:31:42+00:00 Nommie_noms RT @sharowolet: i return with more vacation ju...  
6 2022-10-16 23:31:27+00:00 ghostcityhc RT @343_sashimiiii: #zhongli\n\n加筆しまくるお遊びしてた...  
7 2022-10-16 23:31:26+00:00 Ryo_katsumi15 RT @sharowolet: i return with more vacation ju...  
8 2022-10-16 23:30:51+00:00 voxpets RT @sharowolet: i return with more vacation ju...  
9 2022-10-16 23:30:32+00:00 hatsujoutenshi RT @mlem_: Look what he drew!\n#zhongli #G...  
10 2022-10-16 23:30:29+00:00 windychime RT @lvye_ei: #原神 #钟离 #zhongli #GenshinImpact 旅...  
11 2022-10-16 23:30:27+00:00 emigotchi RT @sharowolet: i return with more vacation ju...  
12 2022-10-16 23:30:19+00:00 ptatoos RT @dtd_myau: The 2nd part is alr up on my Boo...  
13 2022-10-16 23:29:50+00:00 ellenleto_ RT @343_sashimiiii: #zhongli\n\n加筆しまくるお遊びしてた...  
14 2022-10-16 23:29:47+00:00 na_chaa_ RT @343_sashimiiii: #zhongli\n\n加筆しまくるお遊びしてた...  
15 2022-10-16 23:29:16+00:00 _MariiM RT @343_sashimiiii: #zhongli\n\n加筆しまくるお遊びしてた...  
16 2022-10-16 23:29:13+00:00 Bluriris RT @pun_rii: 🥰 "Hairstyle"\n\n#nahida #zhongli #...  
17 2022-10-16 23:28:51+00:00 Springly_yu RT @343_sashimiiii: #zhongli\n\n加筆しまくるお遊びしてた...  
18 2022-10-16 23:28:11+00:00 AyakySan RT @KST_ten: 【045/100】鍾離\n\n下弦の月(微鐘タル)\n\n#100...  
19 2022-10-16 23:28:11+00:00 johnmarkten RT @seiget810: #原神 #GenshinImpact #Zhongli #鍾...  
20 2022-10-16 23:28:05+00:00 gatitodiluc RT @An_Llong: #zhongli #钟离 https://t.co/vBYb20...  
21 2022-10-16 23:27:58+00:00 CatboyVentii RT @lvye_ei: #原神 #钟离 #zhongli #GenshinImpact 旅...  
22 2022-10-16 23:27:56+00:00 returntoaranara RT @343_sashimiiii: #zhongli\n\n加筆しまくるお遊びしてた...  
23 2022-10-16 23:27:51+00:00 LRosenhart RT @pun_rii: 🥰 "Hairstyle"\n\n#nahida #zhongli #...  
24 2022-10-16 23:27:27+00:00 CatboyVentii RT @Reiikuu_: #zhongven #venti #zhongli some ...  
25 2022-10-16 23:27:25+00:00 PavilionOfRain RT @343_sashimiiii: #zhongli\n\n加筆しまくるお遊びしてた...  
26 2022-10-16 23:27:06+00:00 sailoreeve RT @sharowolet: i return with more vacation ju...  
27 2022-10-16 23:26:30+00:00 a_u_r_e_lia_ RT @343_sashimiiii: #zhongli\n\n加筆しまくるお遊びしてた...  
28 2022-10-16 23:25:55+00:00 tedkainsfw RT @sharowolet: i return with more vacation ju...  
29 2022-10-16 23:25:51+00:00 R4SHUAKU RT @343_sashimiiii: #zhongli\n\n加筆しまくるお遊びしてた...
```

twitter_recent_search.py test

This code file is used to search the recent tweets by query using request

Tutorial

To set up the search tweet link, we use postman. You can learn more about it in <https://developer.twitter.com/en/docs/tutorials/postman-getting-started>

Test

Put the string of the search url in postman in requests.get(). For example, I want to get the most recent 100 tweets about boston university without repeating

```
response = requests.get("https://api.twitter.com/2/tweets/search/recent?query=Boston University&max_results=100",auth=auth)
```

In the file, there is a dictionary including API Key and Secret, Access Token and Secret. Change these variables to your own and run

```
python3 twitter_api.py
```

Result

```
1 Michigan Falls to Boston University in Penalty-Riddled Game  
https://t.co/ZPWU7l4MY9  
2 Postseason Update – Patriot League Tournament  
  
CLINCHED – Army West Point, Bucknell, Boston University  
ELIMINATED – None  
  
SEVEN teams remain battling for THREE spots.  
3 @samanthamarika1 Made by DOCTORS from:  
1 Boston University;  
2 Cleveland Clinics Florida;  
3 Harvard Medical School;  
4 Friedrich-Alexander Universitat Erlangen-Nurnberg, Erlangen, Germany;  
5 University of Wisconsin, Madison  
  
Seriously what purpose does this serve???  
https://t.co/4hn0jBZoGi  
4 RT @WilliamAEden: This lab from Boston University is taking the Omicron spike protein and a  
  
“In K18-hACE2 mice,...  
5 New MGoPost: Michigan Hockey Game #4: Boston University 3, Michigan 2 https://t.co/RJ1Ll0eG  
6 12. BOSTON UNIVERSITY https://t.co/Nh4ZaFX4bb https://t.co/faXKC3BWqu  
7 @CRIXUSwasHERE @brokenveteran2 Boston University must be so proud of their alumni. I think  
pus.  
8 RT @BosAdvantage: Huge congratulations to lifetime Boston Advantage / Lovell Hockey defense  
9 RT @NastyIsland: BU outplayed Michigan, then held on down the stretch. Portillo played well  
10 BU outplayed Michigan, then held on down the stretch. Portillo played well. Duplessis matc  
s by @BlueBarronPhoto  
  
https://t.co/VNzBzTYgtE  
11 RT @Susmita_Speaks: @news24tvchannel @ChouhanShivraj Piyush's Son – Harvard University  
Javedkar's Son– Boston University  
Rajnath's Son –Lee...  
12 @kghouul I'm mostly doing the georgia schools but I'm also doing university of Washington!  
13 Here's how Sunday evening played out, from @ConnorEaregood: https://t.co/TLto8cCuXx  
14 @dclassknight im completing my fafsaIm applying to boston university
```