

# Twitter Setup Guide For Python

## Beforehand

- Have a Twitter account made
  - **If not**, make an account at <https://twitter.com/signup?lang=en>
    - Enter email and name text boxes
    - Enter a phone number
      - This is something that is actually mandatory for the Twitter API because it assumes you're using the API for app reasons, so having a phone attached to the account is needed.
      - This will send a verification code in a text to that number, which will be needed to verify that number.
    - Enter a username (twitter handle) (@example)
      - This is seen by other users
      - This can be changed later
      - It *has* to be a unique handle
      - It is specifically used in the code to gather the tweet timeline
    - Topics of interest are optional
    - Importing contacts is optional
    - Following accounts is optional
    - Turning on notifications is optional
    - Verify the account by confirming the email that was sent to the account email
- Be signed into the desired twitter account through your web browser
- Install the Python Twitter Library:
  - `pip install python-twitter`

## Setup

- A. Go to <https://apps.twitter.com>
- B. Click **Create New App**
- C. Insert a name
  - a. This must be unique
- D. Insert a description
- E. Insert your application's website url
  - a. ([http://ee.bradley.edu/projects/proj2018/iot\\_display/](http://ee.bradley.edu/projects/proj2018/iot_display/))
- F. Select the box after you've "read and agreed" with the Twitter Developer Agreement
- G. Click **Create your Twitter Application**
- H. Click on the "Keys and Access Tokens" at the middle-top of the screen
- I. Here, you'll need 4 keys to fill into the Twitter code:
  - a. Consumer Key (API Key)
  - b. Consumer Secret (API Secret)
  - c. Access Token
  - d. Access Token Secret
- J. These should be copy and pasted into the correct locations in the code

## Code

The following code can be found on our GitHub at, [https://github.com/bdaszkiewicz/info\\_display](https://github.com/bdaszkiewicz/info_display)

Additionally, the code will be shown below. The username (Twitter handle) and the 4 keys must be input into the code, and the rest of the functionality can be adjusted and amended to depending on what additional aspects wanted to be added.

```
import  
twitter
```

```
def getTweets():
```

```
#"You can get all 4 by heading over to # https://apps.twitter.com. #

#Once there, sign in with your Twitter account and click on "Create New
App" button.

#Fill in required information (note that app name must be unique)
# and select "Create Your Twitter Application".

#You will be taken to your application view.
# There click on "Keys and Access Tokens" tab.
# Look for section called Token Actions and click on "Create my Access
Token".
# The page should refresh, and if everything went well you should see both
# Consumer Key/Secret and Access Token/Secret."
# - (@akras14)

api = twitter.Api(consumer_key=xyz', #Fill in -- Replace with user twitter
keys
consumer_secret='xyz', #Fill in
access_token_key=xyz', #Fill in
access_token_secret='xyz') #fill in

#print(api.VerifyCredentials())

t = api.GetUserTimeline(screen_name="realDonaldTrump", count=5) #Put
username here, can change count

#"The following command uses list comprehension
#which is just a hipster way of doing a for loop on every Tweet,
#converting it to a Dictionary via built in "AsDict" method,
#and storing all of the converted Tweets into a List."
# -(@akras14)

tweets = [i.AsDict() for i in t]

returnedTweet = ['time','text']
```

```
returnedTweetsList = []

for t in tweets:
    #print('\n', t['id'], t['text'])
    #print('Time: ' + t['created_at'])
    #print(t['text'] + '\n')
    text = t['text']
    text = text.encode('ascii', 'ignore')
    returnedTweet[0] = t['created_at']
    returnedTweet[1] = text

    #Below, searches each tweet and updates status
    #technically last tweet will change the last status
    if (t['text'].find("*Available")):
        status = 3;
        #Status 3 = Available
    if (t['text'].find("*Busy")):
        status = 2;
        #Status 2 = Busy
    if (t['text'].find("*Away")):
        status = 1;
        #Status 1 = Away
    if (t['text'].find("*hide") or (t['text'].find("*offline"))):
        status = 0;
        #Status 0 = Hide availability meter

    returnedTweetsList.append(returnedTweet[0:])

returnObject = [returnedTweetsList,status]

return (returnObject)
```

**Save this code and run it after the 4 keys have been put in at the top and the correct username has been entered, and it should return the ('count') latest tweets**

## References

<https://www.alexkras.com/how-to-get-user-feed-with-twitter-api-and-python/>

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