PAGE RANKING MY TWITTER NETWORK

@DRVINCEKNIGHT

I LIKE TWITTER

👍

Martin Chorley @martinjc · 23h

Shut up

👤 Will Webberley

Twitter   11:36

Will Webberley (@flyingSparx) is popular on Twitter. Follow them for the latest updates.

_r_309   1

♥ 2

Chris Gwilliams @encima27 · Apr 12

Just taught the hound roll over. I feel like God. Now to teach him not to bite or hump me...
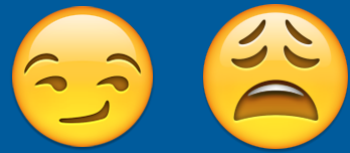
♥ 1

Geraint Palmer @GeraintPalmer · Feb 27

I am still upset that there's no Doctor Who this year.

I FOLLOW TOO MANY PEOPLE

😏 😩

```python
# Authenticating
auth = tweepy.OAuthHandler(consumer_key, consumer_secret)
auth.set_access_token(token, token_secret)

api = tweepy.API(auth, wait_on_rate_limit=True,
                 wait_on_rate_limit_notify=False)


def analyse_user(user_id=None):
    """Return the list of followers and last tweet date and text"""
    try:
        friends = api.friends_ids(user_id=user_id)
        try:
            last_tweet = api.user_timeline(user_id=user_id, count=1)[0]
            return friends, last_tweet.created_at
        except IndexError:  # No tweets
            return friends, False
    except tweepy.error.TweepError:  # No access to user
        return [], False
```

```python
network_map = {f.user_id:f.friend_ids_in_network for f in active_network_nodes}
```

```
>>> G = nx.Graph(network_map)   # Graph for the whole network
>>> components = list(nx.connected_components(G))
>>> len(components)
8
```

```
>>> nx.center(G)
['11348282']
>>> api.lookup_users(center)[0].screen_name
'NASA'
```

```python
>>> pr = nx.pagerank(G)
>>> sorted_nodes = sorted([(node, pagerank) for node, pagerank in pr.items()], key=lambda x:pr[x[0]])
```

```
>>> mis = nx.maximal_independent_set(G)  # This is in fact an approximative algorithm
>>> len(mis)
300
```

VKNIGHT.ORG/UNPEUDEMATH/CODE/2016/03/31/ANALYZING-MY-OWN-TWITTER-NETWORK-USING-PYTHON.HTML