

```
In [30]:
```

```
import twitter
import json
from twitter import Twitter
from twitter import OAuth
from twitter import TwitterHTTPError
from twitter import TwitterStream
import pandas as pd

from textblob import TextBlob
```

```
In [16]:
```

```
ck = " "
cs = " "
at = " "
ats = " "
```

```
In [21]:
```

```
# Authentication of the keys
oauth=OAuth(at,ats,ck,cs)
api = Twitter(auth=oauth)
from pandas.io.jsonimport json_normalize#Normalize into json format

t_loc = api.trends.available() # checking the available trend
t_loc
```

```
Out[21]:
```

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  'woeid': 23424925},
{'country': 'Qatar',
 'countryCode': 'QA',
 'name': 'Qatar',
 'parentid': 1,
 'placeType': {'code': 12, 'name': 'Country'},
 'url': 'http://where.yahooapis.com/v1/place/23424930',
 'woeid': 23424930},
{'country': 'Philippines',
 'countryCode': 'PH',
 'name': 'Philippines',
 'parentid': 1,
 'placeType': {'code': 12, 'name': 'Country'},
 'url': 'http://where.yahooapis.com/v1/place/23424934',
 'woeid': 23424934},
{'country': 'Puerto Rico',
 'countryCode': 'PR',
 'name': 'Puerto Rico',
 'parentid': 1,
 'placeType': {'code': 12, 'name': 'Country'},
 'url': 'http://where.yahooapis.com/v1/place/23424935',
 'woeid': 23424935},
{'country': 'Russia',
 'countryCode': 'RU',
 'name': 'Russia',
 'parentid': 1,
 'placeType': {'code': 12, 'name': 'Country'},
 'url': 'http://where.yahooapis.com/v1/place/23424936',
 'woeid': 23424936},
{'country': 'Saudi Arabia',
 'countryCode': 'SA',
 'name': 'Saudi Arabia',
 'parentid': 1,
 'placeType': {'code': 12, 'name': 'Country'},
 'url': 'http://where.yahooapis.com/v1/place/23424938',
 'woeid': 23424938},
{'country': 'South Africa',
 'countryCode': 'ZA',
 'name': 'South Africa',
 'parentid': 1,
 'placeType': {'code': 12, 'name': 'Country'},
 'url': 'http://where.yahooapis.com/v1/place/23424942',
 'woeid': 23424942},
{'country': 'Singapore',
 'countryCode': 'SG',
 'name': 'Singapore',
 'parentid': 1,
 'placeType': {'code': 12, 'name': 'Country'},
 'url': 'http://where.yahooapis.com/v1/place/23424948',
 'woeid': 23424948},
{'country': 'Spain',
 'countryCode': 'ES',
 'name': 'Spain',
 'parentid': 1,
 'placeType': {'code': 12, 'name': 'Country'},
 'url': 'http://where.yahooapis.com/v1/place/23424950',
 'woeid': 23424950},
{'country': 'Sweden',
 'countryCode': 'SE',
 'name': 'Sweden',
 'parentid': 1,
 'placeType': {'code': 12, 'name': 'Country'},
 'url': 'http://where.yahooapis.com/v1/place/23424954',
 'woeid': 23424954},
{'country': 'Switzerland',
 'countryCode': 'CH',
 'name': 'Switzerland',
 'parentid': 1,
 'placeType': {'code': 12, 'name': 'Country'},
 'url': 'http://where.yahooapis.com/v1/place/23424957',
 'woeid': 23424957},
{'country': 'Thailand',
 'countryCode': 'TH',
 'name': 'Thailand',
 'parentid': 1,
```

```
'placeType': {'code': 12, 'name': 'Country'},  
'url': 'http://where.yahooapis.com/v1/place/23424960',
```

```
'url': 'http://where.yahooapis.com/v1/place/23424960',
'woeid': 23424960},
{'country': 'Turkey',
'countryCode': 'TR',
'name': 'Turkey',
'parentid': 1,
'placeType': {'code': 12, 'name': 'Country'},
'url': 'http://where.yahooapis.com/v1/place/23424969',
'woeid': 23424969},
{'country': 'United Kingdom',
'countryCode': 'GB',
'name': 'United Kingdom',
'parentid': 1,
'placeType': {'code': 12, 'name': 'Country'},
'url': 'http://where.yahooapis.com/v1/place/23424975',
'woeid': 23424975},
{'country': 'Ukraine',
'countryCode': 'UA',
'name': 'Ukraine',
'parentid': 1,
'placeType': {'code': 12, 'name': 'Country'},
'url': 'http://where.yahooapis.com/v1/place/23424976',
'woeid': 23424976},
{'country': 'United States',
'countryCode': 'US',
'name': 'United States',
'parentid': 1,
'placeType': {'code': 12, 'name': 'Country'},
'url': 'http://where.yahooapis.com/v1/place/23424977',
'woeid': 23424977},
{'country': 'Venezuela',
'countryCode': 'VE',
'name': 'Venezuela',
'parentid': 1,
'placeType': {'code': 12, 'name': 'Country'},
'url': 'http://where.yahooapis.com/v1/place/23424982',
'woeid': 23424982},
{'country': 'Vietnam',
'countryCode': 'VN',
'name': 'Vietnam',
'parentid': 1,
'placeType': {'code': 12, 'name': 'Country'},
'url': 'http://where.yahooapis.com/v1/place/23424984',
'woeid': 23424984},
{'country': 'Malaysia',
'countryCode': 'MY',
'name': 'Petaling',
'parentid': 23424901,
'placeType': {'code': 7, 'name': 'Town'},
'url': 'http://where.yahooapis.com/v1/place/56013632',
'woeid': 56013632},
{'country': 'Malaysia',
'countryCode': 'MY',
'name': 'Hulu Langat',
'parentid': 23424901,
'placeType': {'code': 7, 'name': 'Town'},
'url': 'http://where.yahooapis.com/v1/place/56013645',
'woeid': 56013645},
{'country': 'Saudi Arabia',
'countryCode': 'SA',
'name': 'Ahsa',
'parentid': 23424938,
'placeType': {'code': 9, 'name': 'Unknown'},
'url': 'http://where.yahooapis.com/v1/place/56120136',
'woeid': 56120136},
{'country': 'Japan',
'countryCode': 'JP',
'name': 'Okayama',
'parentid': 23424856,
'placeType': {'code': 7, 'name': 'Town'},
'url': 'http://where.yahooapis.com/v1/place/90036018',
'woeid': 90036018}]
```

In [23]:

```
loc_df = json_normalize(loc) #converted into dataframe
loc_df
```


	countryCode	name	parentId	placeType.code	placeType.name	
0	None	Worldwide	0	19	Supernode	http://where.yahooapis.com/v1
1	Canada	CA	Winnipeg	23424 775	Town	http://where.yahooapis.com/v1
2	Canada	CA	Ottawa	23424 775	Town	http://where.yahooapis.com/v1
3	Canada	CA	Quebec	23424 775	Town	http://where.yahooapis.com/v1
4	Canada	CA	Montreal	23424 775	Town	http://where.yahooapis.com/v1
5	Canada	CA	Toronto	23424 775	Town	http://where.yahooapis.com/v1
6	Canada	CA	Edmonton	23424 775	Town	http://where.yahooapis.com/v1
7	Canada	CA	Calgary	23424 775	Town	http://where.yahooapis.com/v1
8	Canada	CA	Vancouver	23424 775	Town	http://where.yahooapis.com/v1
9	United Kingdom	GB	Birmingham	23424 975	Town	http://where.yahooapis.com/v1
10	United Kingdom	GB	Blackpool	23424 975	Town	http://where.yahooapis.com/v1
11	United Kingdom	GB	Bournemouth	23424 975	Town	http://where.yahooapis.com/v1
12	United Kingdom	GB	Brighton	23424 975	Town	http://where.yahooapis.com/v1
13	United Kingdom	GB	Bristol	23424 975	Town	http://where.yahooapis.com/v1
14	United Kingdom	GB	Cardiff	23424 975	Town	http://where.yahooapis.com/v1

1 5	United Kingdom						
GB	Coventry	23424 975	7		Town		http://where.yahooapis.com/v1

1	United Kingdom	GB	Derby	23424 975	7	Town	http://where.yahooapis.com/v1
1	United Kingdom	GB	Edinburgh	23424 975	7	Town	http://where.yahooapis.com/v1
1	United Kingdom	GB	Glasgow	23424 975	7	Town	http://where.yahooapis.com/v1
1	United Kingdom	GB	Hull	23424 975	7	Town	http://where.yahooapis.com/v1
2	United Kingdom	GB	Leeds	23424 975	7	Town	http://where.yahooapis.com/v1
2	United Kingdom	GB	Leicester	23424 975	7	Town	http://where.yahooapis.com/v1
2	United Kingdom	GB	Liverpool	23424 975	7	Town	http://where.yahooapis.com/v1
2	United Kingdom	GB	Manchester	23424 975	7	Town	http://where.yahooapis.com/v1
2	United Kingdom	GB	Middlesbrough	23424 975	7	Town	http://where.yahooapis.com/v1
2	United Kingdom	GB	Newcastle	23424 975	7	Town	http://where.yahooapis.com/v1
2	United Kingdom	GB	Nottingham	23424 975	7	Town	http://where.yahooapis.com/v1
2	United Kingdom	GB	Plymouth	23424 975	7	Town	http://where.yahooapis.com/v1
2	United Kingdom	GB	Portsmouth	23424 975	7	Town	http://where.yahooapis.com/v1

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Kingdom

Kingdom

	country	countryCode	name	parentid	placeType.code	placeType.name	
29	United Kingdom	GB	Preston	23424975	7	Town	http://where.yahooapis.com/v1
...
43	Nigeria	NG	Nigeria	1	12	Country	http://where.yahooapis.com/v1
43	Netherlands	NL	Netherlands	1	12	Country	http://where.yahooapis.com/v1
43	Norway	NO	Norway	1	12	Country	http://where.yahooapis.com/v1
44	New Zealand	NZ	New Zealand	1	12	Country	http://where.yahooapis.com/v1
44	Peru	PE	Peru	1	12	Country	http://where.yahooapis.com/v1
44	Pakistan	PK	Pakistan	1	12	Country	http://where.yahooapis.com/v1
44	Poland	PL	Poland	1	12	Country	http://where.yahooapis.com/v1
44	Panama	PA	Panama	1	12	Country	http://where.yahooapis.com/v1
44	Portugal	PT	Portugal	1	12	Country	http://where.yahooapis.com/v1
44	Qatar	QA	Qatar	1	12	Country	http://where.yahooapis.com/v1
44	Philippines	PH	Philippines	1	12	Country	http://where.yahooapis.com/v1
44	Puerto Rico	PR	Puerto Rico	1	12	Country	http://where.yahooapis.com/v1
44	Russia	RU	Russia	1	12	Country	http://where.yahooapis.com/v1
45	Saudi Arabia	SA	Saudi Arabia	1	12	Country	http://where.yahooapis.com/v1
45	South Africa	ZA	South Africa	1	12	Country	http://where.yahooapis.com/v1
45	Singapore	SG	Singapore	1	12	Country	http://where.yahooapis.com/v1
45	Spain	ES	Spain	1	12	Country	http://where.yahooapis.com/v1

45	Sweden	SE	Sweden	1		Country	http://where.yahooapis.com/v1
4				12			

45	Switzerl 5	CH	Switzerl and	1	12		Country	http://where.yahooapis.com/v1
45	Thailand	TH	Thailand	1	12		Country	http://where.yahooapis.com/v1
45	Turkey	TR	Turkey	1	12		Country	http://where.yahooapis.com/v1
45	United Kingdo m	GB	United Kingdo m	1	12		Country	http://where.yahooapis.com/v1
45	Ukraine	UA	Ukraine	1	12		Country	http://where.yahooapis.com/v1
46	United 0 States	US	United States	1	12		Country	http://where.yahooapis.com/v1
46	Venezu 1 ela	VE	Venezu ela	1	12		Country	http://where.yahooapis.com/v1
46	Vietnam	VN	Vietnam	1	12		Country	http://where.yahooapis.com/v1
46	Malaysi 3 a	MY	Petaling	23424 901	7		Town	http://where.yahooapis.com/v1
46	Malaysi 4 a	MY	Hulu Langat	23424 901	7		Town	http://where.yahooapis.com/v1
46	Saudi 5 Arabia	SA	Ahsa	23424 938	9		Unknown	http://where.yahooapis.com/v1
46	Japan	JP	Okayam a	23424 856	7		Town	http://where.yahooapis.com/v1

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467 rows × 8 columns

In [24]:

```
loc_df.shape
```

Out[24]:

```
(467, 8)
```

In [25]:

```
loc_df[(loc_df['countryCode']=='MY') & ( loc_df['name'].str.contains('Petaling'))]
```

```
loc_df[(loc_df['countryCode']=='MY') & (loc_df['name'].str.contains('Petaling'))]
```

Out[25]:

	country	countryCode	name	parentid	placeType.code	placeType.name	
463	Malaysia	MY	Petaling	23424901	7	Town	http://where.yahooapis.com/v1/place/560

In [29]:

```
#Another Example:
```

```
query = api.search.tweets(q='Bitcoin', count=1000)
query
```

Out[29]:

```
{'search_metadata': {'completed_in': 0.115,
'count': 100,
'max_id': 968531186988539904,
'max_id_str': '968531186988539904',
'query': 'Bitcoin',
'refresh_url': '?since_id=968531186988539904&q=Bitcoin&include_entities=1',
'since_id': 0,
'since_id_str': '0'},
'statuses': [{'contributors': None,
'coordinates': None,
'created_at': 'Tue Feb 27 17:00:04 +0000 2018',
'entities': {'hashtags': [], 'symbols': [], 'urls': [{"display_url": 'coindesk.com/israeli-suprem...', 'expanded_url': 'https://www.coindesk.com/israeli-supreme-court-rules-for-bitcoin-broker-in-bank-dispute/'}, {"indices": [78, 101], "url": "https://t.co/CbWfStia3z"}]}, 'user_mentions': []},
'favorite_count': 0,
'favorited': False,
'geo': None,
'id': 968531186988539904,
'id_str': '968531186988539904',
'in_reply_to_screen_name': None,
'in_reply_to_status_id': None,
'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None,
'in_reply_to_user_id_str': None,
'is_quote_status': False,
'lang': 'en',
'metadata': {'iso_language_code': 'en', 'result_type': 'recent'},
'place': None,
'possibly_sensitive': False,
'retweet_count': 0,
'retweeted': False,
'source': '<a href="https://whatsbitcoinprice.com/" rel="nofollow">Crypto news report</a>',
'text': 'Israeli Supreme Court Rules for Bitcoin Broker in Bank Dispute cryptocurrency https://t.co/CbWfStia3z',
'truncated': False,
'user': {'contributors_enabled': False,
'created_at': 'Thu Oct 26 06:46:52 +0000 2017',
'default_profile': True,
'default_profile_image': False,
'description': '',
'entities': {'description': {'urls': []}, 'url': {'urls': [{"display_url": 'whatsbitcoinprice.com', 'expanded_url': 'https://whatsbitcoinprice.com/'}, {"indices": [0, 23], "url": "https://t.co/1FYFYAb7WX"}]}},
'favourites_count': 13040,
'follow_request_sent': False,
'followers_count': 1413,
'following': False,
'friends_count': 1893,
'geo_enabled': False,
'has_extended_profile': False,
'id': 923440777132412929,
'id_str': '923440777132412929',
'is_translation_enabled': False}
```

```
'is_translation_enabled': False,
'is_translator': False,
'lang': 'en',
'listed_count': 10,
'location': '',
'name': 'Whatsbitcoinprice',
'notifications': False,
'profile_background_color': 'F5F8FA',
'profile_background_image_url': None,
'profile_background_image_url_https': None,
'profile_background_tile': False,
'profile_banner_url': 'https://pbs.twimg.com/profile_banners/923440777132412929/1509007015',
'profile_image_url': 'http://pbs.twimg.com/profile_images/923468282086199297/o68vjcbt_normal.jpg',
'profile_image_url_https': 'https://pbs.twimg.com/profile_images/923468282086199297/o68vjcbt_normal
.jpg',
'profile_link_color': '1DA1F2',
'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6',
'profile_text_color': '333333',
'profile_use_background_image': True,
'protected': False,
'screen_name': 'CryptoEvo',
'statuses_count': 9697,
'time_zone': 'Eastern Time (US & Canada)',
'translator_type': 'none',
'url': 'https://t.co/1FYFYAb7WX',
'utc_offset': -18000,
'verified': False}},
{'contributors': None,
'coordinates': None,
'created_at': 'Tue Feb 27 17:00:03 +0000 2018',
'entities': {'hashtags': [{'indices': [124, 132], 'text': 'Bitcoin'}]},
'symbols': [],
'urls': [],
'user_mentions': [{'id': 22682896,
'id_str': '22682896',
'indices': [3, 16],
'name': 'Charlie Shrem',
'screen_name': 'CharlieShrem'},
{'id': 61417559,
'id_str': '61417559',
'indices': [57, 70],
'name': 'Erik Voorhees',
'screen_name': 'ErikVoorhees'},
{'id': 2834662337,
'id_str': '2834662337',
'indices': [71, 84],
'name': 'Ira Miller',
'screen_name': 'iravagecoins']}},
'favorite_count': 0,
'favorited': False,
'geo': None,
'id': 968531186422296578,
'id_str': '968531186422296578',
'in_reply_to_screen_name': None,
'in_reply_to_status_id': None,
'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None,
'in_reply_to_user_id_str': None,
'is_quote_status': False,
'lang': 'en',
'metadata': {'iso_language_code': 'en', 'result_type': 'recent'},
'place': None,
'retweet_count': 142,
'retweeted': False,
'retweeted_status': {'contributors': None,
'coordinates': None,
'created_at': 'Tue Feb 27 12:35:08 +0000 2018',
'entities': {'hashtags': [{'indices': [106, 114], 'text': 'Bitcoin'}]},
'symbols': [],
'urls': [{"display_url": "twitter.com/i/web/status/9...",
'expanded_url': 'https://twitter.com/i/web/status/968464517549252615',
'indices': [116, 139],
'url': 'https://t.co/b68PEu4c8u'}],
'user_mentions': [{"id': 61417559,
'id_str': '61417559',
'indices': [39, 52],
'name': 'Erik Voorhees'}]}]
```

```
'name': 'Erik Voorhees',
'screen_name': 'ErikVoorhees'},
{'id': 2834662337,
'id_str': '2834662337',
'indices': [53, 66],
'name': 'Ira Miller',
'screen_name': 'iravagecoins'}]}},
'favorite_count': 735,
'favorited': False,
'geo': None,
'id': 968464517549252615,
'id_str': '968464517549252615',
'in_reply_to_screen_name': None,
'in_reply_to_status_id': None,
'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None,
'in_reply_to_user_id_str': None,
'is_quote_status': False,
'lang': 'en',
'metadata': {'iso_language_code': 'en', 'result_type': 'recent'},
'place': None,
'possibly_sensitive': False,
'retweet_count': 142,
'retweeted': False,
'source': '<a href="http://twitter.com" rel="nofollow">Twitter Web Client</a>',
'text': 'Just dug up this old piece of history. @ErikVoorhees @iravagecoins and I trying to convince students that #Bitcoin... https://t.co/b68PEu4c8u',
'truncated': True,
'user': {'contributors_enabled': False,
'created_at': 'Tue Mar 03 21:28:46 +0000 2009',
'default_profile': False,
'default_profile_image': False,
'description': 'Bitcoin pioneer / Founder https://t.co/yvuvDuLY8e / *NEW* Founder https://t.co/bdqZ6Uv1Xy | See https://t.co/mVznCoCScr for all companies I advise and consult!',
'entities': {'description': {'urls': [{'display_url': 'BitcoinFoundation.org',
'expanded_url': 'http://BitcoinFoundation.org',
'indices': [26, 49],
'url': 'https://t.co/yvuvDuLY8e'},
{'display_url': 'CryptoIQ.co',
'expanded_url': 'http://www.CryptoIQ.co',
'indices': [66, 89],
'url': 'https://t.co/bdqZ6Uv1Xy'},
{'display_url': 'CharlieShrem.com',
'expanded_url': 'http://CharlieShrem.com',
'indices': [97, 120],
'url': 'https://t.co/mVznCoCScr'}]},
'urls': [{'display_url': 'CharlieShrem.com',
'expanded_url': 'http://CharlieShrem.com',
'indices': [0, 23],
'url': 'https://t.co/mVznCoCScr'}]}},
'favourites_count': 3275,
'follow_request_sent': False,
'followers_count': 131207,
'following': False,
'friends_count': 326,
'geo_enabled': True,
'has_extended_profile': True,
'id': 22682896,
'id_str': '22682896',
'is_translation_enabled': False,
'is_translator': False,
'lang': 'en',
'listed_count': 2839,
'location': 'Sarasota, FL',
'name': 'Charlie Shrem',
'notifications': False,
'profile_background_color': '131516',
'profile_background_image_url': 'http://abs.twimg.com/images/themes/theme14/bg.gif',
'profile_background_image_url_https': 'https://abs.twimg.com/images/themes/theme14/bg.gif',
'profile_background_tile': True,
'profile_banner_url': 'https://pbs.twimg.com/profile_banners/22682896/1480808133',
'profile_image_url': 'http://pbs.twimg.com/profile_images/865954659084775424/2SRmI8-d_normal.jpg',
'profile_image_url_https': 'https://pbs.twimg.com/profile_images/865954659084775424/2SRmI8-d_normal.jpg',
'profile_link_color': '009999',
'profile_sidebar_border_color': 'EEEEEE',
'profile_sidebar_fill_color': 'EFEFEF',
'profile_text_color': '333333',
```

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'profile_text_color': '333333',
'profile_use_background_image': True,
'protected': False,
'screen_name': 'CharlieShrem',
'statuses_count': 8329,
'time_zone': 'Indiana (East)',
'translator_type': 'none',
'url': 'https://t.co/mVznCoCScr',
'utc_offset': -18000,
'verified': True}},
'source': '<a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>',
'text': 'RT @CharlieShrem: Just dug up this old piece of history. @ErikVoorhees @iravagecoins and I trying to convince students that #Bitcoin is the...',
'truncated': False,
'user': {'contributors_enabled': False,
'created_at': 'Fri Jan 26 07:53:41 +0000 2018',
'default_profile': True,
'default_profile_image': False,
'description': 'Spread the wealth. All tweets are my opinion alone and not advice',
'entities': {'description': {'urls': []}}},
'favourites_count': 586,
'follow_request_sent': False,
'followers_count': 27,
'following': False,
'friends_count': 145,
'geo_enabled': False,
'has_extended_profile': True,
'id': 956797273396170752,
'id_str': '956797273396170752',
'is_translation_enabled': False,
'is_translator': False,
'lang': 'en',
'listed_count': 1,
'location': 'Moon, PA',
'name': 'cryptohart',
'notifications': False,
'profile_background_color': 'F5F8FA',
'profile_background_image_url': None,
'profile_background_image_url_https': None,
'profile_background_tile': False,
'profile_banner_url': 'https://pbs.twimg.com/profile_banners/956797273396170752/1516954056',
'profile_image_url': 'http://pbs.twimg.com/profile_images/956800767649898497/cD7ixJ9H_normal.jpg',
'profile_image_url_https': 'https://pbs.twimg.com/profile_images/956800767649898497/cD7ixJ9H_normal.jpg',
'profile_link_color': '1DA1F2',
'profile_sidebar_border_color': 'C0DEED',
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\n\nSign up now:... https://t.co/CNxH4XCosh',
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uld like a RT from us please include the hashtag #LitecoinUK @ATSocialMediaUK',
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'symbols': [],
"urls': [{display_url': 'twitter.com/i/web/status/9...', expanded_url': 'https://twitter.com/i/web/status/968262100157165568', indices': [117, 140],
'url': 'https://t.co/FT8GFIri4T'}],
'user_mentions': []},
'favorite_count': 76,
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'geo': None,
'id': 968262100157165568,
'id_str': '968262100157165568',
'in_reply_to_screen_name': None,
'in_reply_to_status_id': None,
'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None,
'in_reply_to_user_id_str': None,
'is_quote_status': False,
'lang': 'en',
'metadata': {'iso_language_code': 'en', 'result_type': 'recent'},
'place': None,
'retweet_count': 18,
'retweeted': False,
'source': '<a href="http://twitter.com" rel="nofollow">Twitter Web Client</a>',
'text': "I think that 50 Cent stating he never owned #Bitcoin under oath is iconic. If he didn't it proves #bitcoin is so po... https://t.co/FT8GFIri4T",
'truncated': True,
'user': {'contributors_enabled': False,
'created_at': 'Thu Mar 12 12:52:40 +0000 2009',
'default_profile': False,
'default_profile_image': False,
'description': 'Autonomy Lover, Crypto Voyeur, Blockchain Journalist, Woker than you after a shot of espresso.',
'entities': {'description': {'urls': []}},
'url': {'urls': [{display_url': 'blog.icoalert.com/crypto-taxatio...', expanded_url': 'https://blog.icoalert.com/crypto-taxation-without-representation-1b72ac454712'}],
'indices': [0, 23],
'url': 'https://t.co/eZNgvy7D2s'}}},
'favourites_count': 2151,
'follow_request_sent': False,
'followers_count': 556,
'following': False,
'friends_count': 198,
'geo_enabled': True,
'has_extended_profile': False,
'id': 23941245,
'id_str': '23941245',
'is_translation_enabled': False,
'is_translator': False,
'lang': 'en',
'listed_count': 30,
'location': 'Pittsburgh, PA',
'name': 'Kelly Green',
'notifications': False,
'profile_background_color': '000000',
'profile_background_image_url': 'http://abs.twimg.com/images/themes/theme19/bg.gif',
'profile_background_image_url_https': 'https://abs.twimg.com/images/themes/theme19/bg.gif',
'profile_background_tile': False,
'profile_banner_url': 'https://pbs.twimg.com/profile_banners/23941245/1519166735',
'profile_image_url': 'http://pbs.twimg.com/profile_images/966081640366710784/Eojf1NoH_normal.jpg',
'profile_image_url_https': 'https://pbs.twimg.com/profile_images/966081640366710784/Eojf1NoH_norma
1.jpg',
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'profile_sidebar_border_color': '000000',
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'profile_sidebar_border_color': '000000',
'profile_sidebar_fill_color': '000000',
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'profile_use_background_image': False,
'protected': False,
'screen_name': 'iamkelgreen',
'statuses_count': 7516,
'time_zone': 'Central Time (US & Canada)',
'translator_type': 'none',
'url': 'https://t.co/eZNgvy7D2s',
'utc_offset': -21600,
'verified': False}},
'version': 1,
'source': '<a href="https://mobile.twitter.com" rel="nofollow">Twitter Lite</a>',
'text': "RT @iamkelgreen: I think that 50 Cent stating he never owned #Bitcoin under oath is iconic.  
If he didn't it proves #bitcoin is so popular...",
'truncated': False,
'user': {'contributors_enabled': False,
'created_at': 'Sun Oct 03 05:34:37 +0000 2010',
'default_profile': True,
'default_profile_image': False,
'description': 'Starting a new phase in my life.....',
'entities': {'description': {'urls': []}}},
'favourites_count': 60,
'follow_request_sent': False,
'followers_count': 18,
'following': False,
'friends_count': 78,
'geo_enabled': False,
'has_extended_profile': False,
'id': 198045413,
'id_str': '198045413',
'is_translation_enabled': False,
'is_translator': False,
'lang': 'en',
'listed_count': 0,
'location': 'New Delhi, India',
'name': 'Abhimanyu Jayakanth',
'notifications': False,
'profile_background_color': 'C0DEED',
'profile_background_image_url': 'http://abs.twimg.com/images/themes/theme1/bg.png',
'profile_background_image_url_https': 'https://abs.twimg.com/images/themes/theme1/bg.png',
'profile_background_tile': False,
'profile_image_url': 'http://pbs.twimg.com/profile_images/939014788260048896/K-cHEvID_normal.jpg',
'profile_image_url_https': 'https://pbs.twimg.com/profile_images/939014788260048896/K-cHEvID_normal.jpg',
'profile_link_color': '1DA1F2',
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'profile_sidebar_fill_color': 'DDEEF6',
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'profile_use_background_image': True,
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'screen_name': 'mallelajaykanth',
'statuses_count': 631,
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'translator_type': 'none',
'url': None,
'utc_offset': None,
'verified': False}},
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{'indices': [73, 82], 'text': 'Litecoin'}],
'symbols': []},
"urls': [],
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'id_str': '916699001751207937',
'indices': [3, 19],
'name': 'unilot',
'screen_name': 'unilot_platform'}]},
'favorite_count': 0,
'favorited': False,
'geo': None,
'id': 968531054536613890,
'id_str': '968531054536613890',
'in_reply_to_screen_name': None,
'in_reply_to_status_id': None,
'in_reply_to_status_id_str': None,
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'in_reply_to_user_id': None,
'in_reply_to_user_id_str': None,
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'lang': 'en',
'metadata': {'iso_language_code': 'en', 'result_type': 'recent'},
'place': None,
'retweet_count': 118,
'retweeted': False,
'retweeted_status': {'contributors': None,
'coordinates': None,
'created_at': 'Mon Feb 26 22:21:05 +0000 2018',
'entities': {'hashtags': [{'indices': [39, 47], 'text': 'Bitcoin'},
{'indices': [52, 61], 'text': 'Litecoin'}],
'symbols': []},
"urls': [{display_url': 'twitter.com/i/web/status/9...', 'expanded_url': 'https://twitter.com/i/web/status/968249588061786112', 'indices': [117, 140], 'url': 'https://t.co/JJ0oaiyAcj'}],
'user_mentions': []},
'favorite_count': 53,
'favorited': False,
'geo': None,
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'id_str': '968249588061786112',
'in_reply_to_screen_name': None,
'in_reply_to_status_id': None,
'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None,
'in_reply_to_user_id_str': None,
'is_quote_status': False,
'lang': 'en',
'metadata': {'iso_language_code': 'en', 'result_type': 'recent'},
'place': None,
'possibly_sensitive': False,
'retweet_count': 118,
'retweeted': False,
'source': '<a href="http://twitter.com" rel="nofollow">Twitter Web Client</a>',
'text': 'Good news for you! ↗️ Soon, we will add #Bitcoin and #Litecoin! ! 🎉\n\nSo, you can use a lso these two cryptocurrencies... https://t.co/JJ0oaiyAcj',
'truncated': True,
'user': {'contributors_enabled': False,
'created_at': 'Sat Oct 07 16:17:28 +0000 2017',
'default_profile': True,
'default_profile_image': False,
'description': 'Decentralized #gaming #platform 💻 More information is here:\nhttps://t.co/01Y8fyaeOe\nhttps://t.co/FwJjw3dZQO\n#ico #unilot #crypto #buytokens #token #tokens',
'entities': {'description': {'urls': [{display_url': 't.me/Unilot', expanded_url': 'http://t.me/Unilot', indices': [62, 85], url': 'https://t.co/01Y8fyaeOe'}, {'display_url': 't.me/UnilotEng', expanded_url': 'http://t.me/UnilotEng', indices': [88, 111], url': 'https://t.co/FwJjw3dZQO'}]}, 'url': {'urls': [{display_url': 'unilot.io', expanded_url': 'https://unilot.io', indices': [0, 23], url': 'https://t.co/300GfhU8mh'}]}},
'favourites_count': 0,
'follow_request_sent': False,
'followers_count': 2525,
'following': False,
'friends_count': 294,
'geo_enabled': False,
'has_extended_profile': False,
'id': 916699001751207937,
'id_str': '916699001751207937',
'is_translation_enabled': False,
'is_translator': False,
'lang': 'en',
'listed_count': 7,
'location': 'Malta',
'name': 'unilot',
'notifications': False,
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'profile_image_url_https': 'https://pbs.twimg.com/profile_images/968109972017082368/1hTamsLE_norma
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'profile_sidebar_border_color': 'CODEED',
'profile_sidebar_fill_color': 'DDEEF6',
'profile_text_color': '333333',
'profile_use_background_image': True,
'protected': False,
'screen_name': 'unilot_platform',
'statuses_count': 60,
'time_zone': 'Pacific Time (US & Canada)',
'translator_type': 'none',
'url': 'https://t.co/300GfhU8mh',
'utc_offset': -28800,
'verified': False}},
'source': '<a href="http://twitter.com" rel="nofollow">Twitter Web Client</a>',
'text': 'RT @unilot_platform: Good news for you! Soon, we will add #Bitcoin and #Litecoin! So, you can use also these two cryptocurrencies fo...',
'truncated': False,
'user': {'contributors_enabled': False,
'created_at': 'Tue Sep 12 19:50:48 +0000 2017',
'default_profile': True,
'default_profile_image': False,
'description': '',
'entities': {'description': {'urls': []}}},
'favourites_count': 356,
'follow_request_sent': False,
'followers_count': 555,
'following': False,
'friends_count': 878,
'geo_enabled': False,
'has_extended_profile': False,
'id': 907692994186371074,
'id_str': '907692994186371074',
'is_translation_enabled': False,
'is_translator': False,
'lang': 'ru',
'listed_count': 0,
'location': '',
'name': 'Andrew Avery',
'notifications': False,
'profile_background_color': 'F5F8FA',
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'profile_background_image_url_https': None,
'profile_background_tile': False,
'profile_image_url': 'http://pbs.twimg.com/profile_images/934695432105676800/xK4klcYv_normal.jpg',
'profile_image_url_https': 'https://pbs.twimg.com/profile_images/934695432105676800/xK4klcYv_
normal
.jpg',
'profile_link_color': '1DA1F2',
'profile_sidebar_border_color': 'CODEED',
'profile_sidebar_fill_color': 'DDEEF6',
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'profile_use_background_image': True,
'protected': False,
'screen_name': 'coffinsubstr',
'statuses_count': 1039,
'time_zone': 'Pacific Time (US & Canada)',
'translator_type': 'none',
'url': None,
'utc_offset': -28800,
'verified': False}},
{'contributors': None,
'coordinates': None,
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'entities': {'hashtags': [], 'symbols': []},
'urls': [{'display_url': 'news.bitcoin.com/israeli-suprem...', 'expanded_url': 'https://news.bitcoin.com/israeli-supreme-court-forbids-bank-denying-service-bitcoin-exchange/'},
{'indices': [90, 113], 'url': 'https://t.co/BXcdSBiac9'}],
'user_mentions': [{'id': 357312062, 'id_str': '357312062', 'indices': [3, 11]}],
'profile_background_tile': False,
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```
'indices': [3, 11],
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'in_reply_to_status_id': None,  
'in_reply_to_status_id_str': None,  
'in_reply_to_user_id': None,  
'in_reply_to_user_id_str': None,  
'is_quote_status': False,  
'lang': 'en',
'metadata': {'iso_language_code': 'en', 'result_type': 'recent'},
'place': None,  
'possibly_sensitive': False,  
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'retweeted': False,  
'retweeted_status': {'contributors': None,  
'coordinates': None,  
'created_at': 'Tue Feb 27 16:58:33 +0000 2018',  
'entities': {'hashtags': [],  
'symbols': [],  
'urls': [{'display_url': 'news.bitcoin.com/israeli-suprem...',  
'expanded_url': 'https://news.bitcoin.com/israeli-supreme-court-forbids-bank-denying-service-bitcoin-exchange/'},  
'indices': [77, 100],  
'url': 'https://t.co/BXcdSBiac9'}],  
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'id_str': '968530807735296000',  
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'in_reply_to_status_id': None,  
'in_reply_to_status_id_str': None,  
'in_reply_to_user_id': None,  
'in_reply_to_user_id_str': None,  
'is_quote_status': False,  
'lang': 'en',
'metadata': {'iso_language_code': 'en', 'result_type': 'recent'},
'place': None,  
'possibly_sensitive': False,  
'retweet_count': 9,  
'retweeted': False,  
'source': '<a href="http://twitter.com" rel="nofollow">Twitter Web Client</a>',  
'text': 'Israeli Supreme Court Forbids Bank From Denying Service to Bitcoin Exchange\n\nhttps://t.co/BXcdSBiac9',  
'truncated': False,  
'user': {'contributors_enabled': False,  
'created_at': 'Thu Aug 18 05:06:08 +0000 2011',  
'default_profile': False,  
'default_profile_image': False,  
'description': 'Bitcoin News, Information and Price Tweets',  
'entities': {'description': {'urls': []}},  
'favourites_count': 240,  
'follow_request_sent': False,  
'followers_count': 790506,  
'following': False,  
'friends_count': 127,  
'geo_enabled': False,  
'has_extended_profile': False,  
'id': 357312062,  
'id_str': '357312062',  
'is_translation_enabled': False,  
'is_translator': False,  
'lang': 'en',  
'listed_count': 6348,  
'location': 'Worldwide',  
'name': 'Bitcoin',  
'notifications': False,  
'profile_background_color': '131516',  
'profile_background_image_url': 'http://abs.twimg.com/images/themes/theme14/bg.gif',  
'profile_background_image_url_https': 'https://abs.twimg.com/images/themes/theme14/bg.gif',  
'profile_background_tile': True,
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```
'profile_background_color': None,
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'profile_image_url_https': 'https://pbs.twimg.com/profile_images/421692600446619648/dWAbC2wg_norma
l.jpeg',
'profile_link_color': '009999',
'profile_sidebar_border_color': 'EEEEEE',
'profile_sidebar_fill_color': 'EFEFEF',
'profile_text_color': '333333',
'profile_use_background_image': True,
'protected': False,
'screen_name': 'Bitcoin',
'statuses_count': 19535,
'time_zone': 'Arizona',
'translator_type': 'regular',
'url': None,
'utc_offset': -25200,
'verified': False}},

'source': '<a href="http://twitter.com" rel="nofollow">Twitter Web Client</a>',
'text': 'RT @Bitcoin: Israeli Supreme Court Forbids Bank From Denying Service to Bitcoin Exchange\n\nhttps://t.co/BXcdSBIac9',
'truncated': False,
'user': {'contributors_enabled': False,
'created_at': 'Sun Dec 31 15:46:57 +0000 2017',
'default_profile': True,
'default_profile_image': False,
'description': '⌚️ Jax FL, 24 years old 🚗 Entrepreneur Cryptocurrency and Real Estate Investor ☎️ You can't deposit excuses https://t.co/GvmX5qLo0J',
'entities': {'description': {'urls': [{'display_url': 'binance.com/?ref=12511618',
'expanded_url': 'http://www.binance.com/?ref=12511618',
'indices': [120, 143],
'url': 'https://t.co/GvmX5qLo0J'}]}},
'favourites_count': 171,
'follow_request_sent': False,
'followers_count': 2040,
'following': False,
'friends_count': 116,
'geo_enabled': True,
'has_extended_profile': True,
'id': 947494290640564224,
'id_str': '947494290640564224',
'is_translation_enabled': False,
'is_translator': False,
'lang': 'en',
'listed_count': 0,
'location': 'Jacksonville Beach, FL',
'name': 'Connor Miller',
'notifications': False,
'profile_background_color': 'F5F8FA',
'profile_background_image_url': None,
'profile_background_image_url_https': None,
'profile_background_tile': False,
'profile_banner_url': 'https://pbs.twimg.com/profile_banners/947494290640564224/1514742459',
'profile_image_url': 'http://pbs.twimg.com/profile_images/947524659507015680/_-maFZ6_normal.jpg',
'profile_image_url_https': 'https://pbs.twimg.com/profile_images/947524659507015680/_-maFZ6_normal
.jpg',
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'profile_sidebar_border_color': 'CODEED',
'profile_sidebar_fill_color': 'DDEEF6',
'profile_text_color': '333333',
'profile_use_background_image': True,
'protected': False,
'screen_name': 'btc_millz',
'statuses_count': 165,
'time_zone': 'Pacific Time (US & Canada)',
'translator_type': 'none',
'url': None,
'utc_offset': -28800,
'verified': False}}]
```

In [31]:

```
mid=0;  
  
df=pd.DataFrame()
```

```

for i in range(10):
    if i==0:
        search_result= api.search.tweets(q="Trump", count=100)
    else:
        search_result= api.search.tweets(q="Trump", count=100, max_id=mid)

    dftemp= json_normalize(search_result, 'statuses')
    mid= dftemp['id'].min()
    mid=mid-1
    df=df.append(dftemp, ignore_index=True)

```

In [32]:

#100 Tweets Related to "Trump"

df

Out[32]:

	contributors	coordinates	created_at	entities	extended_entities	favorite_count	favorited
0	None	None	Tue Feb 27 17:01:13 +0000 2018	{"hashtags": [], "symbols": [], 'user_mentions...}	NaN	0	False
1	None	None	Tue Feb 27 17:01:12 +0000 2018	{"hashtags": [], "symbols": [], 'user_mentions...}	NaN	0	False
2	None	None	Tue Feb 27 17:01:12 +0000 2018	{"hashtags": [], "symbols": [], 'user_mentions...}	NaN	0	False
3	None	None	Tue Feb 27 17:01:12 +0000 2018	{"hashtags": [], "symbols": [], 'user_mentions...}	NaN	0	False
4	None	None	Tue Feb 27 17:01:12 +0000 2018	{"hashtags": [], "symbols": [], 'user_mentions...}	NaN	0	False
5	None	None	Tue Feb 27 17:01:12 +0000 2018	{"hashtags": [], "symbols": [], 'user_mentions...}	NaN	0	False
6	None	None	Tue Feb 27 17:01:12 +0000 2018	{"hashtags": [{"text": 'DonaldTrump', 'indices...'}]	{"media": [{"id": 968531414261141504, 'id_str':...}}	0	False
7	None	None	Tue Feb 27 17:01:12 +0000 2018	{"hashtags": [], "symbols": [], 'user_mentions...}	NaN	0	False
8	None	None	Tue Feb 27 17:01:12 +0000 2018	{"hashtags": [{"text": 'NoClearanceForKushner'...}]} {'symbols': []}	NaN	0	False
9	None	None	Tue Feb 27 17:01:12 +0000 2018	{"hashtags": [], "symbols": [], 'user_mentions...}	NaN	0	False
10			Tue Feb 27 17:01:12 17:01:12	{"hashtags": [], "symbols": [], 'user_mentions...}'}			

	None contributors	None coordinates	created_at +0000	user_mentions... entities	NaN extended_entities	0 favorite_count	False favored
			2018				
1 1	None	None	Tue Feb 27 17:01:12 +0000 2018	{"hashtags": [{"text": "NoClearanceForKushner"}]}	NaN	0	False
1 2	None	None	Tue Feb 27 17:01:12 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions": []}	NaN	0	False
1 3	None	None	Tue Feb 27 17:01:12 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions": []}	NaN	0	False
1 4	None	None	Tue Feb 27 17:01:12 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions": []}	NaN	0	False
1 5	None	None	Tue Feb 27 17:01:12 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions": []}	NaN	0	False
1 6	None	None	Tue Feb 27 17:01:12 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions": []}	NaN	0	False

1 7		Tue Feb 27 17:01:12 +0000 2018				
None	None	{'hashtags': [{'text': 'NoClearanceForKushner'...}		NaN	0	False

1 8	None	None	Tue Feb 27 17:01:12 +0000 2018	{'hashtags': [], 'symbols': [], 'user_mentions...}	NaN	0	False
1 9	None	None	Tue Feb 27 17:01:12 +0000 2018	{'hashtags': [], 'symbols': [], 'user_mentions...}	NaN	0	False
2 0	None	None	Tue Feb 27 17:01:12 +0000 2018	{'hashtags': [], 'symbols': [], 'user_mentions...}	NaN	0	False
2 1	None	None	Tue Feb 27 17:01:12 +0000 2018	{'hashtags': [], 'symbols': [], 'user_mentions...}	NaN	0	False
2 2	None	None	Tue Feb 27 17:01:12 +0000 2018	{'hashtags': [], 'symbols': [], 'user_mentions...}	NaN	0	False
2 3	None	None	Tue Feb 27 17:01:12 +0000 2018	{'hashtags': [], 'symbols': [], 'user_mentions...}	NaN	0	False
2 4	None	None	Tue Feb 27 17:01:12 +0000 2018	{'hashtags': [], 'symbols': [], 'user_mentions...}	NaN	0	False
25			Tue Feb 27				

Tue Feb 27

8 7 0	None	None	Tue Feb 27 17:00:4 5 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions...}	NaN	0	False
8 7 1	None	None	Tue Feb 27 17:00:4 5 +0000 2018	{"hashtags": [{"text": 'NoClearanceForKushner'...}], "symbols": [], "user_mentions": []}	NaN	0	False

8			Tue Feb 27 17:00:4 5 +0000 2018			
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8 7 4	None	None	Tue Feb 27 17:00:45 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions": []}	NaN	0	False
8 7 5	None	None	Tue Feb 27 17:00:45 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions": []}	NaN	0	False
8 7 6	None	None	Tue Feb 27 17:00:45 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions": []}	NaN	0	False
8 7 7	None	None	Tue Feb 27 17:00:45 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions": []}	NaN	0	False
8 7 8	None	None	Tue Feb 27 17:00:45 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions": []}	{"media": [{"id": 968530689518907393, "id_str": "968530689518907393"}]}	0	False
8 7 9			Tue Feb 27 17:00:45 +0000 2018	{"hashtags": [], "symbols": []}			
	contributors	coordinates	+0000creat ed_at	user_mentions... entities	extended_enti ties	favorite_ count	favori ted
			2018				
8 8 0	None	None	Tue Feb 27 17:00:45 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions": []}	NaN	0	False
8 8 1	None	None	Tue Feb 27 17:00:45 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions": []}	NaN	0	False
8 8 2	None	None	Tue Feb 27 17:00:45 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions": []}	NaN	0	False
8 8 3	None	None	Tue Feb 27 17:00:45 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions": []}	NaN	0	False
8 8 4	None	None	Tue Feb 27 17:00:45 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions": []}	NaN	0	False

8	None	None	Tue Feb 27 17:00:45 +0000 2018	{'hashtags': [], 'symbols': [], 'user_mentions...}	NaN	1	False
----------	------	------	---	--	-----	---	-------

8 8 6			Tue Feb 27 17:00:45 +0000 2018				
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8 8 7	None	None	Tue Feb 27 17:00:45 +0000 2018	{'hashtags': [{'text': 'LookingForNews', 'indi...}	NaN	0	False
8 8 8	None	None	Tue Feb 27 17:00:45 +0000 2018	{'hashtags': [{'text': 'NoClearanceForKushner'...}	NaN	0	False
8 8 9	None	None	Tue Feb 27 17:00:45 +0000 2018	{'hashtags': [{'text': 'NoClearanceForKushner'...}	NaN	0	False
8 9 0	None	None	Tue Feb 27 17:00:45 +0000 2018	{'hashtags': [], 'symbols': [], 'user_mentions...}	NaN	4	False
8 9 1	None	None	Tue Feb 27 17:00:45 +0000 2018	{'hashtags': [], 'symbols': [], 'user_mentions...}	{'media': [{'id': 968195434144 387073, 'id_str'...}	0	False
8 9 2	None	None	Tue Feb 27 17:00:45 +0000 2018	{'hashtags': [], 'symbols': [], 'user_mentions...}	NaN	0	False
8 9 3	None	None	Tue Feb 27 17:00:45 +0000 2018	{'hashtags': [], 'symbols': [], 'user_mentions...}	NaN	0	False
	None	None	NaN	0	False	None	NaN

	contributors	coordinates	created_at	entities	extended_entities	favorite_count	favorited
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896	None	None	Tue Feb 27 17:00:45 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions..."} 'user_mentions...'	NaN	0	False
897	None	None	Tue Feb 27 17:00:44 +0000 2018	{"hashtags": [], "symbols": [], "user_mentions..."} 'user_mentions...'	NaN	0	False
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900 rows × 31 columns

In [34]:

```
tweettext=df['text']
tweettext
```

Out[34]:

```
0      RT @CAPAction: Now, Trump wants to expand shor...
1      RT @Procrastinemos: Si en esta foto con EL CA...
2      RT @Fahrenthold: Here's the back story on that...
3      RT @RealCandaceO: Wow. Because we should striv...
4      Georgia lieutenant governor threatens Delta af...
5      RT @ZcohenCNN: NSA/Cybercom chief Adm. Rogers ...
6      भारत अमेरिकेवर उपकार करत नाही, द्रृष्ट यांची टी...
7      RT @Tia6sc: Judge Nap: Trump Will Lose in the ...
8      Trump's Chief of Staff John Kelly should obey ...
9      RT @krassenstein: Brad Parscale, the new Trump...
10     RT @Wilderness: Tell the Trump administration ...
11     Trump's Chief of Staff John Kelly should obey ...
12     Good story by @jessiehellmann. Advocates worki...
13     RT @Amy_Siskind: I am shocked at how little at...
14     RT @JudicialWatch: The case of the Russian Dos...
15     RT @JoyAnnReid: Trump wouldn't run into Vietna...
16     RT @Shakestweetz: And, given that the Trump ad...
17     Trump's Chief of Staff John Kelly should obey ...
18     @RealJamesWoods 1. Trump can't run.\n2. Trump ...
19     RT @JenniferJJacobs: Brad Parscale's "leadersh...
20     RT @TeaPainUSA: FUN FACT: The average America...
21     RT @WilDonnelly: BREAKING: NSA Director Mike R...
22     RT @Uberficker: @mitchellreports @clairecmc Th...
23     RT @Amy_Siskind: Trump has unlocked historic a...
24     RT @RWPUSA: Here we go again. And these Twitte...
25     RT @TeaPainUSA: FUN FACT: The average America...
26     Trump's Chief of Staff John Kelly should obey ...
27     RT @SebGorka: #CLINTONcorruption\n\nhttps://t....
28     RT @Shakestweetz: This is a nightmare. I have ...
29     RT @PreetBharara: He would've run in there una...
...
870     RT @sarahkendzior: @Shakestweetz It was obviou...
871     Trump's Chief of Staff John Kelly should obey ...
872     RT @TomSteyer: Approval fluctuates, but terrib...
873     Trump's Chief of Staff John Kelly should obey ...
874     @JoyAnnReid I will not be back to Georgia to v...
```

```
875 Joint Statement by 11 @ArtPlaceAmerica Funders...
876 RT @shawnslawns4u: Retweet if you will vote fo...
877 RT @OliverMcGee: Obama told Dreamers that DACA...
878 RT @thehill: Trump Education Dept may block st...
879 RT @MaddowBlog: "...Donna Calk's attorneys iss...
880 RT @DRUDGE: TRUMP SET FOR SHOCK ANNOUNCEMENT
881 @LouDobbs @realDonaldTrump @POTUS Please give ...
882 RT @mikandynothem: Well, well, well...\nAfter ...
883 RT @RMConservative: Congress relieved that Jud...
884 RT @TimRunsHisMouth: People are mocking Trump ...
885 Cruel and morally rancid for the Trump adminis...
886 RT @LouDobbs: President @realDonaldTrump has j...
887 @monitor_sur @Variety #LookingForNews&gt;&gt;&...
888 Trump's Chief of Staff John Kelly should obey ...
889 Trump's Chief of Staff John Kelly should obey ...
890 Hope Hicks is scheduled to testify in front of...
891 RT @SethMacFarlane: Trump: "I really believe I...
892 RT @JoshuaGreen: During the 2016 race, Trump's...
893 Ownership Dispute Over Trump Hotel in Panama E...
894 RT @SethAbramson: Trump has long had a policy ...
895 RT @JackPosobiec: Breaking: Petition Launched ...
896 RT @ProudResister: Donald Trump is tweeting ab...
897 RT @vjeannek: Have you found 2 unregistered pe...
898 Trump's Chief of Staff John Kelly should obey ...
899 RT @TheDailyShow: Trump says he'd run into a s...
```

Name: text, Length: 900, dtype: object

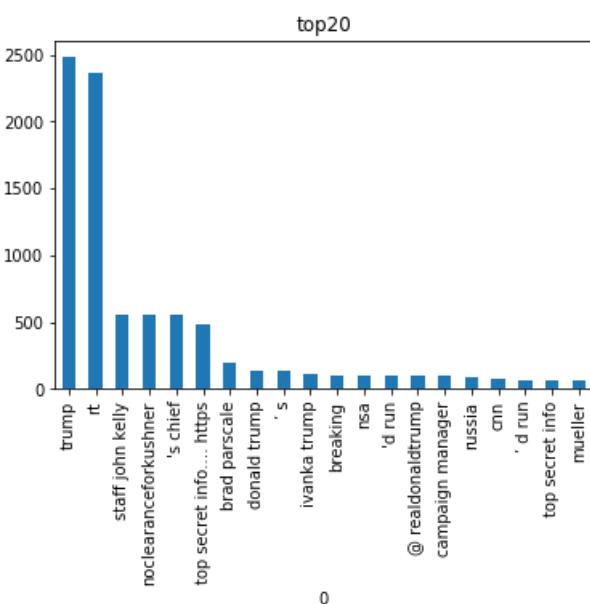
In [35]:

```
wordlist=pd.DataFrame();
for t in tweettext:
    tx= TextBlob(t)
    tx.tags
    for word, tag in tx.tags:
        if tag=='NN':
            l= list(tx.noun_phrases)
            if len(l)!=0:
                wordlist= wordlist.append(l, ignore_index=True)
```

In [37]:

```
#Checking the top 20 nouns
import matplotlib.pyplot as plt

allword=wordlist.groupby(0).size()
top20allwords=allword.sort_values(0,ascending=False).head(20)
top20allwordsplot(kind='bar',title='top20')
plt.show()
```



In [38]:

```
#Plot a sentiment graph on the tweets
polarity=[]
```

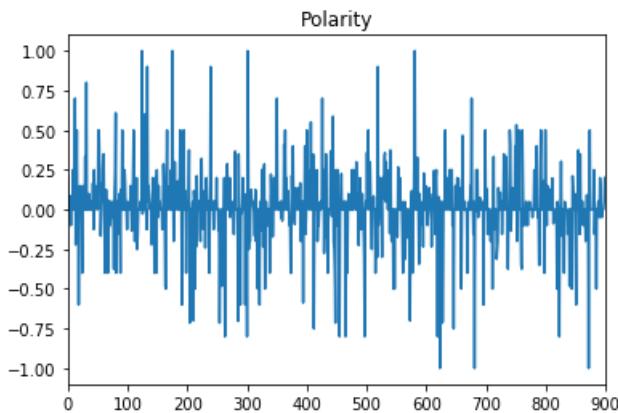
```

polarity=[]

for t in tweettext:
    tx= TextBlob(t)
    polarity.append(tx.sentiment.polarity)
    subj.append(tx.sentiment.subjectivity)

polttweet= pd.DataFrame({'polarity':polarity,'subjectivity':subj})
polttweet.polarity.plot(title='Polarity')
plt.show()

```

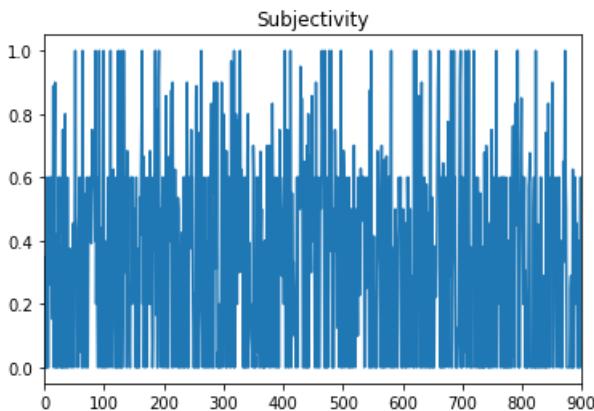


In [40]:

```

polttweet.subjectivityplot(title='Subjectivity')
plt.show()

```



In [41]:

```
#Create a summary of a news article
```

In [42]:

```

pip.main(['install', 'requests'])
pip.main(["install","newspaper3k"])
import newspaper
from newspaper import Article
from textblob import TextBlob

```

```

Requirement already satisfied: requests in c:\users\ajant\python\lib\site-packages
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in c:\users\ajant\python\lib\site-packages (from requests)
Requirement already satisfied: idna<2.7,>=2.5 in c:\users\ajant\python\lib\site-packages (from requests)
Requirement already satisfied: urllib3<1.23,>=1.21.1 in c:\users\ajant\python\lib\site-packages (from requests)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\ajant\python\lib\site-packages (from requests)
Collecting newspaper3k
  Using cached newspaper3k-0.2.6.tar.gz
Requirement already satisfied: beautifulsoup4>=4.4.1 in c:\users\ajant\python\lib\site-packages (from newspaper3k)
Requirement already satisfied: Pillow>=3.3.0 in c:\users\ajant\python\lib\site-packages (from newspaper3k)
Requirement already satisfied: PyYAML>=3.11 in c:\users\ajant\python\lib\site-packages (from newspaper3k)

```

subj=[]

```
3k)
Collecting cssselect>=0.9.2 (from newspaper3k)
    Using cached cssselect-1.0.3-py2.py3-none-any.whl
Requirement already satisfied: lxml>=3.6.0 in c:\users\ajant\python\lib\site-packages (from
newspaper3k)
Requirement already satisfied: nltk>=3.2.1 in c:\users\ajant\python\lib\site-packages (from
newspaper3k)
Requirement already satisfied: requests>=2.10.0 in c:\users\ajant\python\lib\site-packages (from
newspaper3k)
Collecting feedparser>=5.2.1 (from newspaper3k)
Using cached feedparser-5.2.1.zip
Collecting tldextract>=2.0.1 (from newspaper3k)
    Using cached tldextract-2.2.0-py2.py3-none-any.whl
Collecting feedfinder2>=0.0.4 (from newspaper3k)
    Using cached feedfinder2-0.0.4.tar.gz
Collecting jieba3k>=0.35.1 (from newspaper3k)
    Using cached jieba3k-0.35.1.zip
Requirement already satisfied: python-dateutil>=2.5.3 in c:\users\ajant\python\lib\site-packages
(from newspaper3k)
Requirement already satisfied: olefile in c:\users\ajant\python\lib\site-packages (from
Pillow>=3.3.0->newspaper3k)
Requirement already satisfied: six in c:\users\ajant\python\lib\site-packages (from nltk>=3.2.1-
>newspaper3k)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in c:\users\ajant\python\lib\site-packages
(from requests>=2.10.0->newspaper3k)
Requirement already satisfied: idna<2.7,>=2.5 in c:\users\ajant\python\lib\site-packages (from
requests>=2.10.0->newspaper3k)
Requirement already satisfied: urllib3<1.23,>=1.21.1 in c:\users\ajant\python\lib\site-packages
(from requests>=2.10.0->newspaper3k)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\ajant\python\lib\site-packages (from
requests>=2.10.0->newspaper3k)
Collecting requests-file>=1.4 (from tldextract>=2.0.1->newspaper3k)
    Using cached requests_file-1.4.3-py2.py3-none-any.whl
Requirement already satisfied: setuptools in c:\users\ajant\python\lib\site-packages (from
tldextract>=2.0.1->newspaper3k)
Building wheels for collected packages: newspaper3k, feedparser, feedfinder2, jieba3k
    Running setup.py bdist_wheel for newspaper3k: started
    Running setup.py bdist_wheel for newspaper3k: finished with status 'done'
    Stored in directory:
C:\Users\ajant\AppData\Local\pip\Cache\wheels\d1\38\04\48031b2f399b5f18b7f90b74
419acf264bf05057c05164a99e
    Running setup.py bdist_wheel for feedparser: started
    Running setup.py bdist_wheel for feedparser: finished with status 'done'
    Stored in directory:
C:\Users\ajant\AppData\Local\pip\Cache\wheels\15\ce\10\b500f745822ea6db6ea8ed22
5c06b15c000d71016b89ef9037
    Running setup.py bdist_wheel for feedfinder2: started
    Running setup.py bdist_wheel for feedfinder2: finished with status 'done'
    Stored in directory:
C:\Users\ajant\AppData\Local\pip\Cache\wheels\3f\c7\47da1638f81a31a4102405fb
2984ad2f699037cb3b9ae90ec5
    Running setup.py bdist_wheel for jieba3k: started
    Running setup.py bdist_wheel for jieba3k: finished with status 'done'
    Stored in directory:
C:\Users\ajant\AppData\Local\pip\Cache\wheels\58\fb\37\03b0dc30e3e39afe9294b2fe
082f9d073d4c25261d4847f6ae
Successfully built newspaper3k feedparser feedfinder2 jieba3k
Installing collected packages: cssselect, feedparser, requests-file, tldextract, feedfinder2,
jieba3k, newspaper3k
Successfully installed cssselect-1.0.3 feedfinder2-0.0.4 feedparser-5.2.1 jieba3k-0.35.1
newspaper3k-0.2.6 requests-file-1.4.3 tldextract-2.2.0
```

In [49]:

```
url =
'https://www.bridgewater.com/'
article = newspaper.Article(url)
article.download()
article.parse() article.nlp()
article.summary
```

In [50]:

```
article.title
```

Out[50]:

'Bridgewater Associates, LP'

In [52]:

article.keywords

```
Out[52]:
```

```
['meaningful',
 'unique',
 'work',
 'works',
 'understanding',
 'read',
 'associates',
 'world',
 'bridgewater',
 'truth',
 'principles',
 'lp',
 'radical']
```

```
In [53]:
```

```
article.summary
```

```
Out[53]:
```

```
'We want an idea meritocracy in which meaningful work and meaningful relationships are pursued through radical truth and radical transparency.\nIt is by continually striving together for the highest levels of truth and excellence that we create meaningful work and meaningful relationships.\nWe believe that creating excellent outcomes requires setting ambitious goals and applying our understanding of how the world works, as reflected in principles, to achieve them.\nThey're not just read and followed, but stress-tested on an individual and collective level as our shared approach to working together.\nAs Bridgewater is an idea-meritocracy in which we value independent thinking, we urge you to read and assess them for yourself.'
```

```
In [54]:
```

```
article.text
```

```
Out[54]:
```

```
'Our unique success is the direct result of our unique way of being. We want an idea meritocracy in which meaningful work and meaningful relationships are pursued through radical truth and radical transparency. We require people to be extremely open, air disagreements, test each other's logic, and view discovering mistakes and weaknesses as a good thing that leads to improvement and innovation. It is by continually striving together for the highest levels of truth and excellence that we create meaningful work and meaningful relationships.\n\nWe are both idealistic and practical. We believe that creating excellent outcomes requires setting ambitious goals and applying our understanding of how the world works, as reflected in principles, to achieve them. Our Principles are ways of dealing with situations. They are the evolving record of our understanding of what works well. They're not just read and followed, but stress-tested on an individual and collective level as our shared approach to working together. As Bridgewater is an idea-meritocracy in which we value independent thinking, we urge you to read and assess them for yourself.'
```

```
In [55]:
```

```
blob2 = TextBlob(article.text)
```

```
In [56]:
```

```
blob2.sentences[1]

wordlist = pd.DataFrame()

ssList=[]

for t in blob2.sentences
    ww =[]
    for word, tag in t.tags:
        if tag in ('NN', 'NNS', 'NNP', 'NNPS', 'VB', 'VBD', 'VBG', 'VBP', 'VBZ'):
            ww.append(word.lemmatize())

    ss = ' '.join(ww)
    ssList.append(ss.lower())

wordlist=wordlist.append(ssList, ignore_index=True)

wordlist
```

```
Out[56]:
```

		8
0	success is result way being	
1	want idea meritocracy work relationship are tr...	
2	require people be air disagreement test s logi...	
3	is striving level truth excellence create work...	
4	are	
5	believe creating outcome requires setting goal...	
6	principles are way dealing situation	
7	are evolving record understanding work	
8	' read followed level approach working	
9	bridgewater is idea-meritocracy value thinking...	

In []:

```
wordlist.to_csv('summary1.csv') #Converting into csv
```