

Final Proposal: President Trump's Twitter Activity and Engagement with President Trump's Tweets as a Function of Time

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Question: How does President Trump's Twitter activity and the magnitude of engagement with President Trump's tweets (as measured by retweets, favorites) vary with time?

The goal of this project is to investigate the two sides of President Trump's Twitter account: his activity, and the engagements with his tweets by his followers. I will use five bar graphs to visualize trends the following metrics as a function of time:

- Mean Number of Tweets per Week versus Time
- Total Number of Tweets per Hour
- Retweet Percentage versus Hour of Day
- Number of Engagements versus Hour of Day
- Mean Favorite-to-Retweet Ratio per Month versus Time

The first three graphs will analyze President Trump's twitter habits with time as the independent variable. The last two graphs will analyze how Trump's followers engage with his tweets (as measured by favorites, retweets), again with time as the independent variable.

There is more ways of thinking about time than the 12-hour clock with an hour-hand that rotates twice per day. Calendars, which are typically thought of as entire-year maps, can be broken down into months, weeks, and even days. Grouping the data by these different intervals can reveal trends about when President Trump tends to (or tends not to) tweet as well as when his followers tend to (or tend not to) engage with his tweets. Some food for thought: Does President Trump take a break from Twitter in the same way Congress might recess? Do President Trump's followers engage with his tweets when they are catching up (after waking up in the morning) or is the daytime a more fertile breeding ground for engagements (e.g. will people retweet "after-the-fact")?

The data I used for this project is from President Trump's [Twitter Archive](http://www.trumptwitterarchive.com/archive) (<http://www.trumptwitterarchive.com/archive>), a website with a log of the tweets from Trump's Twitter handle, [@realDonaldTrump](https://twitter.com/realDonaldTrump) (https://twitter.com/realDonaldTrump?ref_src=twsrc%5Egoogle%7Ctwcamp%5Eserp%7Ctwgr%5Eauthor). I am not concerned with the content of the tweets but rather the times when they are created.

I will restrict the time interval to January 20, 2017 (Inauguration Day and when his term began) to the date I extracted the data, May 6, 2019.

Since I am dealing with a large dataset (almost 8,000 tweets since his inauguration or an average of about 9 per day), mapping *all* these tweets out will be messy so naturally I will divide the data into time intervals where a clear picture can be made out.

When collecting the data from the [Twitter Archive \(http://www.trumptwitterarchive.com/archive\)](http://www.trumptwitterarchive.com/archive), I selected the time the tweet was created was created (UTC: date and time), retweet count, favorite count, whether it is a retweet (true/false), and the tweet id (which will probably be irrelevant but is an alternate way of identifying them). Again, the actual content or text of the tweet was irrelevant as I am focusing on the tweet **activity** and magnitude of **engagements**.

When exporting the data as a CSV (for MS Excel), there was no automatic download. A text box appeared with each tweet as its own line, with the aforementioned categories separated by commas. So I copied and paste this data into an excel spreadsheet and named it *Trump_Twitter_Archive_Since_Inauguration_2017*. The exact file_name with its location on my computer can be found below.

Importing the necessary data analysis tools, libraries

```
In [417]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import datetime as dt
```

Importing the data

```
In [418]: file_name = "/Users/josephtaied/Desktop/Data_Bootcamp/Trump_Twitter_Archive_Since_Inauguration_2017.xlsx"
```

```
In [419]: twitter_data = pd.read_excel(file_name)
```

```
In [420]: twitter_data.head()
```

```
Out[420]:
```

	created_at,retweet_count,favorite_count,is_retweet,id_str
0	05-06-2019 13:51:49,6960,30581,false,112539776...
1	05-06-2019 13:48:41,11324,36942,false,11253969...
2	05-06-2019 13:48:41,10329,36763,false,11253969...
3	05-06-2019 13:30:14,12088,39796,false,11253923...
4	05-06-2019 11:08:41,16550,66179,false,11253567...

```
In [421]: twitter_data.rename(index=str, columns={"created_at,retweet_count,favorite_count,is_retweet,id_str":"name"}, inplace = True)
```

```
In [422]: twitter_data.head()
```

```
Out[422]:
```

	name
0	05-06-2019 13:51:49,6960,30581,false,112539776...
1	05-06-2019 13:48:41,11324,36942,false,11253969...
2	05-06-2019 13:48:41,10329,36763,false,11253969...
3	05-06-2019 13:30:14,12088,39796,false,11253923...
4	05-06-2019 11:08:41,16550,66179,false,11253567...

Splitting the combined columns up

Since the data did not come already separated into columns, I did so by splitting the columns by the commas separating them, shown below.

```
In [423]: new_df = twitter_data.name.str.split(",", expand = True)
```

To reiterate, the data I have imported from the [Twitter Archive \(http://www.trumptwitterarchive.com/archive\)](http://www.trumptwitterarchive.com/archive) contains the following information for each of President Trump's tweets:

- when the tweet was created (UTC)
- the tweet's retweet count
- the tweet's favorite count
- whether it is a retweet or not
- the tweet identification number

```
In [424]: new_df.columns=([ 'Created_At_UTC', 'Retweet_Count', 'Favorite_Count', 'Is_Retweet', 'ID_Str' ])
```

```
In [425]: new_df.head()
```

```
Out[425]:
```

	Created_At_UTC	Retweet_Count	Favorite_Count	Is_Retweet	ID_Str
0	05-06-2019 13:51:49	6960	30581	false	1125397761204072449
1	05-06-2019 13:48:41	11324	36942	false	1125396971009859585
2	05-06-2019 13:48:41	10329	36763	false	1125396971852845056
3	05-06-2019 13:30:14	12088	39796	false	1125392330083663875
4	05-06-2019 11:08:41	16550	66179	false	1125356705787850753

```
In [426]: new_df.Created_At_UTC.dtypes
```

```
Out[426]: dtype('O')
```

Converting the "Created_At_UTC" values into datetime

```
In [427]: new_df['Created_At_UTC'] = pd.to_datetime(new_df['Created_At_UTC'])
```

```
In [428]: new_df.head()
```

```
Out[428]:
```

	Created_At_UTC	Retweet_Count	Favorite_Count	Is_Retweet	ID_Str
0	2019-05-06 13:51:49	6960	30581	false	1125397761204072449
1	2019-05-06 13:48:41	11324	36942	false	1125396971009859585
2	2019-05-06 13:48:41	10329	36763	false	1125396971852845056
3	2019-05-06 13:30:14	12088	39796	false	1125392330083663875
4	2019-05-06 11:08:41	16550	66179	false	1125356705787850753

```
In [429]: new_df.Created_At_UTC.dtypes
```

```
Out[429]: dtype('<M8[ns]')
```

```
In [430]: np.dtype('datetime64[ns]') == np.dtype('<M8[ns]')
```

```
Out[430]: True
```

```
In [431]: new_df.head()
```

```
Out[431]:
```

	Created_At_UTC	Retweet_Count	Favorite_Count	Is_Retweet	ID_Str
0	2019-05-06 13:51:49	6960	30581	false	1125397761204072449
1	2019-05-06 13:48:41	11324	36942	false	1125396971009859585
2	2019-05-06 13:48:41	10329	36763	false	1125396971852845056
3	2019-05-06 13:30:14	12088	39796	false	1125392330083663875
4	2019-05-06 11:08:41	16550	66179	false	1125356705787850753

Converting the UTC Time Zone to EST

```
In [432]: from datetime import datetime  
          from datetime import timedelta
```

```
In [528]: UTC = new_df['Created_At_UTC']  
          EST = UTC - timedelta(hours=2)  
          print(EST)
```

0	2019-05-06	11:51:49
1	2019-05-06	11:48:41
2	2019-05-06	11:48:41
3	2019-05-06	11:30:14
4	2019-05-06	09:08:41
5	2019-05-06	08:46:01
6	2019-05-06	08:46:01
7	2019-05-06	01:05:35
8	2019-05-06	01:05:35
9	2019-05-05	22:13:59
10	2019-05-05	22:13:59
11	2019-05-05	22:08:20
12	2019-05-05	19:26:47
13	2019-05-05	19:26:47
14	2019-05-05	18:46:39
15	2019-05-05	18:24:39
16	2019-05-05	18:22:10
17	2019-05-05	18:21:41
18	2019-05-05	18:21:11
19	2019-05-05	18:03:58
20	2019-05-05	18:01:49
21	2019-05-05	16:03:29
22	2019-05-05	16:03:29
23	2019-05-05	14:08:46
24	2019-05-05	14:08:46
25	2019-05-05	13:59:36
26	2019-05-05	12:55:18
27	2019-05-05	12:48:15
28	2019-05-05	12:46:50
29	2019-05-05	12:46:47

...

7629	2017-01-25	10:17:01
7630	2017-01-25	10:13:46
7631	2017-01-25	10:10:01
7632	2017-01-25	00:37:48
7633	2017-01-25	00:25:40
7634	2017-01-25	00:16:19
7635	2017-01-24	22:46:57
7636	2017-01-24	15:49:17
7637	2017-01-24	15:04:01
7638	2017-01-24	14:58:06
7639	2017-01-24	09:11:47
7640	2017-01-23	09:38:16
7641	2017-01-22	12:23:17
7642	2017-01-22	10:51:36
7643	2017-01-22	10:47:21
7644	2017-01-22	10:35:09
7645	2017-01-21	21:54:31
7646	2017-01-21	09:53:41
7647	2017-01-21	02:56:15
7648	2017-01-20	16:13:48
7649	2017-01-20	16:00:43
7650	2017-01-20	15:58:24
7651	2017-01-20	15:55:44
7652	2017-01-20	15:54:36
7653	2017-01-20	15:54:00
7654	2017-01-20	15:53:17

```
7655    2017-01-20 15:52:45
7656    2017-01-20 15:51:58
7657    2017-01-20 15:51:25
7658    2017-01-20 10:31:53
Name: Created_At_UTC, Length: 7659, dtype: datetime64[ns]
```

```
In [436]: new_df['Time'] = EST
```



```
In [437]: new_df.drop(['Created_At_UTC'], axis =1)
```

Out[437]:

	Retweet_Count	Favorite_Count	Is_Retweet	ID_Str	Time
0	6960	30581	false	1125397761204072449	2019-05-06 11:51:49
1	11324	36942	false	1125396971009859585	2019-05-06 11:48:41
2	10329	36763	false	1125396971852845056	2019-05-06 11:48:41
3	12088	39796	false	1125392330083663875	2019-05-06 11:30:14
4	16550	66179	false	1125356705787850753	2019-05-06 09:08:41
5	18822	73856	false	1125351000704000000	2019-05-06 08:46:01
6	16146	63911	false	1125351003572797440	2019-05-06 08:46:01
7	20275	94772	false	1125235130002489345	2019-05-06 01:05:35
8	17323	83108	false	1125235131759960064	2019-05-06 01:05:35
9	26694	116464	false	1125191944525832192	2019-05-05 22:13:59
10	18034	80906	false	1125191945654099968	2019-05-05 22:13:59
11	11798	49478	false	1125190521918513153	2019-05-05 22:08:20
12	18462	77473	false	1125149867347718144	2019-05-05 19:26:47
13	16583	71515	false	1125149868220125184	2019-05-05 19:26:47
14	10440	0	true	1125139769774702592	2019-05-05 18:46:39
15	20871	0	true	1125134233331281921	2019-05-05 18:24:39
16	11824	0	true	1125133608757420033	2019-05-05 18:22:10
17	9461	0	true	1125133484207562753	2019-05-05 18:21:41
18	12929	0	true	1125133359670267904	2019-05-05 18:21:11
19	14393	56514	false	1125129024890703878	2019-05-05 18:03:58
20	12612	48836	false	1125128484270026753	2019-05-05 18:01:49
21	21343	88590	false	1125098704560689157	2019-05-05 16:03:29
22	16966	72165	false	1125098705533767680	2019-05-05 16:03:29
23	24610	93236	false	1125069835044573186	2019-05-05 14:08:46
24	16966	69169	false	1125069836088950784	2019-05-05 14:08:46
25	14495	68938	false	1125067530828173313	2019-05-05 13:59:36
26	19695	89804	false	1125051346456121346	2019-05-05 12:55:18
27	8934	0	true	1125049572429058048	2019-05-05 12:48:15
28	5889	0	true	1125049218312409088	2019-05-05 12:46:50
29	7557	0	true	1125049203334557697	2019-05-05 12:46:47
...
7629	21700	132199	false	824229586091307008	2017-01-25 10:17:01
7630	18914	107227	false	824228768227217408	2017-01-25 10:13:46
7631	26155	129979	false	824227824903090176	2017-01-25 10:10:01

	Retweet_Count	Favorite_Count	Is_Retweet	ID_Str	Time
7632	53949	193872	false	824083821889015809	2017-01-25 00:37:48
7633	56038	209363	false	824080766288228352	2017-01-25 00:25:40
7634	32107	162721	false	824078417213747200	2017-01-25 00:16:19
7635	18697	101012	false	824055927200423936	2017-01-24 22:46:57
7636	25694	131943	false	823950814163140609	2017-01-24 15:49:17
7637	16331	99607	false	823939422743830528	2017-01-24 15:04:01
7638	20939	109406	false	823937936056008704	2017-01-24 14:58:06
7639	23743	154857	false	823850781946343427	2017-01-24 09:11:47
7640	26750	177839	false	823495059010109440	2017-01-23 09:38:16
7641	81527	390826	false	823174199036542980	2017-01-22 12:23:17
7642	40085	217610	false	823151124815507460	2017-01-22 10:51:36
7643	45718	213295	false	823150055418920960	2017-01-22 10:47:21
7644	16906	127677	false	823146987117772800	2017-01-22 10:35:09
7645	28013	0	true	822955565949272065	2017-01-21 21:54:31
7646	23337	177579	false	822774162011910144	2017-01-21 09:53:41
7647	52468	289942	false	822669114237943808	2017-01-21 02:56:15
7648	16522	92002	false	822507434396753921	2017-01-20 16:13:48
7649	14039	86467	false	822504142178500608	2017-01-20 16:00:43
7650	9139	58946	false	822503558369181697	2017-01-20 15:58:24
7651	38092	161358	false	822502887477673984	2017-01-20 15:55:44
7652	37458	173821	false	822502601304526848	2017-01-20 15:54:36
7653	34939	148031	false	822502450007515137	2017-01-20 15:54:00
7654	60604	218555	false	822502270503972872	2017-01-20 15:53:17
7655	42790	180394	false	822502135233384448	2017-01-20 15:52:45
7656	18362	91143	false	822501939267141634	2017-01-20 15:51:58
7657	20125	109640	false	822501803615014918	2017-01-20 15:51:25
7658	70523	268372	false	822421390125043713	2017-01-20 10:31:53

7659 rows × 5 columns

```
In [438]: new_df.columns=( [ 'Created_At_UTC', 'Retweet_Count', 'Favorite_Count', 'Is_Retweet', 'ID_Str', 'Time' ] )
```

```
In [443]: new_df.set_index('Time')
```

Out[443]:

	Created_At_UTC	Retweet_Count	Favorite_Count	Is_Retweet	ID_Str
Time					
2019-05-06 11:51:49	2019-05-06 13:51:49	6960	30581	false	1125397761204072449
2019-05-06 11:48:41	2019-05-06 13:48:41	11324	36942	false	1125396971009859585
2019-05-06 11:48:41	2019-05-06 13:48:41	10329	36763	false	1125396971852845056
2019-05-06 11:30:14	2019-05-06 13:30:14	12088	39796	false	1125392330083663875
2019-05-06 09:08:41	2019-05-06 11:08:41	16550	66179	false	1125356705787850753
2019-05-06 08:46:01	2019-05-06 10:46:01	18822	73856	false	1125351000704000000
2019-05-06 08:46:01	2019-05-06 10:46:01	16146	63911	false	1125351003572797440
2019-05-06 01:05:35	2019-05-06 03:05:35	20275	94772	false	1125235130002489345
2019-05-06 01:05:35	2019-05-06 03:05:35	17323	83108	false	1125235131759960064
2019-05-05 22:13:59	2019-05-06 00:13:59	26694	116464	false	1125191944525832192
2019-05-05 22:13:59	2019-05-06 00:13:59	18034	80906	false	1125191945654099968
2019-05-05 22:08:20	2019-05-06 00:08:20	11798	49478	false	1125190521918513153
2019-05-05 19:26:47	2019-05-05 21:26:47	18462	77473	false	1125149867347718144
2019-05-05 19:26:47	2019-05-05 21:26:47	16583	71515	false	1125149868220125184
2019-05-05 18:46:39	2019-05-05 20:46:39	10440	0	true	1125139769774702592

	Created_At_UTC	Retweet_Count	Favorite_Count	Is_Retweet	ID_Str
Time					
2019-05-05 18:24:39	2019-05-05 20:24:39	20871	0	true	1125134233331281921
2019-05-05 18:22:10	2019-05-05 20:22:10	11824	0	true	1125133608757420033
2019-05-05 18:21:41	2019-05-05 20:21:41	9461	0	true	1125133484207562753
2019-05-05 18:21:11	2019-05-05 20:21:11	12929	0	true	1125133359670267904
2019-05-05 18:03:58	2019-05-05 20:03:58	14393	56514	false	1125129024890703878
2019-05-05 18:01:49	2019-05-05 20:01:49	12612	48836	false	1125128484270026753
2019-05-05 16:03:29	2019-05-05 18:03:29	21343	88590	false	1125098704560689157
2019-05-05 16:03:29	2019-05-05 18:03:29	16966	72165	false	1125098705533767680
2019-05-05 14:08:46	2019-05-05 16:08:46	24610	93236	false	1125069835044573186
2019-05-05 14:08:46	2019-05-05 16:08:46	16966	69169	false	1125069836088950784
2019-05-05 13:59:36	2019-05-05 15:59:36	14495	68938	false	1125067530828173313
2019-05-05 12:55:18	2019-05-05 14:55:18	19695	89804	false	1125051346456121346
2019-05-05 12:48:15	2019-05-05 14:48:15	8934	0	true	1125049572429058048
2019-05-05 12:46:50	2019-05-05 14:46:50	5889	0	true	1125049218312409088
2019-05-05 12:46:47	2019-05-05 14:46:47	7557	0	true	1125049203334557697
...

	Created_At_UTC	Retweet_Count	Favorite_Count	Is_Retweet	ID_Str
Time					
2017-01-25 10:17:01	2017-01-25 12:17:01	21700	132199	false	824229586091307008
2017-01-25 10:13:46	2017-01-25 12:13:46	18914	107227	false	824228768227217408
2017-01-25 10:10:01	2017-01-25 12:10:01	26155	129979	false	824227824903090176
2017-01-25 00:37:48	2017-01-25 02:37:48	53949	193872	false	824083821889015809
2017-01-25 00:25:40	2017-01-25 02:25:40	56038	209363	false	824080766288228352
2017-01-25 00:16:19	2017-01-25 02:16:19	32107	162721	false	824078417213747200
2017-01-24 22:46:57	2017-01-25 00:46:57	18697	101012	false	824055927200423936
2017-01-24 15:49:17	2017-01-24 17:49:17	25694	131943	false	823950814163140609
2017-01-24 15:04:01	2017-01-24 17:04:01	16331	99607	false	823939422743830528
2017-01-24 14:58:06	2017-01-24 16:58:06	20939	109406	false	823937936056008704
2017-01-24 09:11:47	2017-01-24 11:11:47	23743	154857	false	823850781946343427
2017-01-23 09:38:16	2017-01-23 11:38:16	26750	177839	false	823495059010109440
2017-01-22 12:23:17	2017-01-22 14:23:17	81527	390826	false	823174199036542980
2017-01-22 10:51:36	2017-01-22 12:51:36	40085	217610	false	823151124815507460
2017-01-22 10:47:21	2017-01-22 12:47:21	45718	213295	false	823150055418920960
2017-01-22 10:35:09	2017-01-22 12:35:09	16906	127677	false	823146987117772800

	Created_At_UTC	Retweet_Count	Favorite_Count	Is_Retweet	ID_Str
Time					
2017-01-21 21:54:31	2017-01-21 23:54:31	28013	0	true	822955565949272065
2017-01-21 09:53:41	2017-01-21 11:53:41	23337	177579	false	822774162011910144
2017-01-21 02:56:15	2017-01-21 04:56:15	52468	289942	false	822669114237943808
2017-01-20 16:13:48	2017-01-20 18:13:48	16522	92002	false	822507434396753921
2017-01-20 16:00:43	2017-01-20 18:00:43	14039	86467	false	822504142178500608
2017-01-20 15:58:24	2017-01-20 17:58:24	9139	58946	false	822503558369181697
2017-01-20 15:55:44	2017-01-20 17:55:44	38092	161358	false	822502887477673984
2017-01-20 15:54:36	2017-01-20 17:54:36	37458	173821	false	822502601304526848
2017-01-20 15:54:00	2017-01-20 17:54:00	34939	148031	false	822502450007515137
2017-01-20 15:53:17	2017-01-20 17:53:17	60604	218555	false	822502270503972872
2017-01-20 15:52:45	2017-01-20 17:52:45	42790	180394	false	822502135233384448
2017-01-20 15:51:58	2017-01-20 17:51:58	18362	91143	false	822501939267141634
2017-01-20 15:51:25	2017-01-20 17:51:25	20125	109640	false	822501803615014918
2017-01-20 10:31:53	2017-01-20 12:31:53	70523	268372	false	822421390125043713

7659 rows × 5 columns

Setting the time of the tweet was created as the index will allow for easy chronological sorting.


```
In [444]: twitter_log = new_df.set_index('Time')
```

```
In [445]: twitter_log = twitter_log.drop(['Created_At_UTC'], axis = 1)
```

```
In [447]: twitter_log
```

Out[447]:

	Retweet_Count	Favorite_Count	Is_Retweet	ID_Str
Time				
2019-05-06 11:51:49	6960	30581	false	1125397761204072449
2019-05-06 11:48:41	11324	36942	false	1125396971009859585
2019-05-06 11:48:41	10329	36763	false	1125396971852845056
2019-05-06 11:30:14	12088	39796	false	1125392330083663875
2019-05-06 09:08:41	16550	66179	false	1125356705787850753
2019-05-06 08:46:01	18822	73856	false	1125351000704000000
2019-05-06 08:46:01	16146	63911	false	1125351003572797440
2019-05-06 01:05:35	20275	94772	false	1125235130002489345
2019-05-06 01:05:35	17323	83108	false	1125235131759960064
2019-05-05 22:13:59	26694	116464	false	1125191944525832192
2019-05-05 22:13:59	18034	80906	false	1125191945654099968
2019-05-05 22:08:20	11798	49478	false	1125190521918513153
2019-05-05 19:26:47	18462	77473	false	1125149867347718144
2019-05-05 19:26:47	16583	71515	false	1125149868220125184
2019-05-05 18:46:39	10440	0	true	1125139769774702592
2019-05-05 18:24:39	20871	0	true	1125134233331281921
2019-05-05 18:22:10	11824	0	true	1125133608757420033
2019-05-05 18:21:41	9461	0	true	1125133484207562753
2019-05-05 18:21:11	12929	0	true	1125133359670267904
2019-05-05 18:03:58	14393	56514	false	1125129024890703878
2019-05-05 18:01:49	12612	48836	false	1125128484270026753
2019-05-05 16:03:29	21343	88590	false	1125098704560689157
2019-05-05 16:03:29	16966	72165	false	1125098705533767680
2019-05-05 14:08:46	24610	93236	false	1125069835044573186
2019-05-05 14:08:46	16966	69169	false	1125069836088950784
2019-05-05 13:59:36	14495	68938	false	1125067530828173313
2019-05-05 12:55:18	19695	89804	false	1125051346456121346
2019-05-05 12:48:15	8934	0	true	1125049572429058048
2019-05-05 12:46:50	5889	0	true	1125049218312409088
2019-05-05 12:46:47	7557	0	true	1125049203334557697
...
2017-01-25 10:17:01	21700	132199	false	824229586091307008
2017-01-25 10:13:46	18914	107227	false	824228768227217408

	Retweet_Count	Favorite_Count	Is_Retweet	ID_Str
Time				
2017-01-25 10:10:01	26155	129979	false	824227824903090176
2017-01-25 00:37:48	53949	193872	false	824083821889015809
2017-01-25 00:25:40	56038	209363	false	824080766288228352
2017-01-25 00:16:19	32107	162721	false	824078417213747200
2017-01-24 22:46:57	18697	101012	false	824055927200423936
2017-01-24 15:49:17	25694	131943	false	823950814163140609
2017-01-24 15:04:01	16331	99607	false	823939422743830528
2017-01-24 14:58:06	20939	109406	false	823937936056008704
2017-01-24 09:11:47	23743	154857	false	823850781946343427
2017-01-23 09:38:16	26750	177839	false	823495059010109440
2017-01-22 12:23:17	81527	390826	false	823174199036542980
2017-01-22 10:51:36	40085	217610	false	823151124815507460
2017-01-22 10:47:21	45718	213295	false	823150055418920960
2017-01-22 10:35:09	16906	127677	false	823146987117772800
2017-01-21 21:54:31	28013	0	true	822955565949272065
2017-01-21 09:53:41	23337	177579	false	822774162011910144
2017-01-21 02:56:15	52468	289942	false	822669114237943808
2017-01-20 16:13:48	16522	92002	false	822507434396753921
2017-01-20 16:00:43	14039	86467	false	822504142178500608
2017-01-20 15:58:24	9139	58946	false	822503558369181697
2017-01-20 15:55:44	38092	161358	false	822502887477673984
2017-01-20 15:54:36	37458	173821	false	822502601304526848
2017-01-20 15:54:00	34939	148031	false	822502450007515137
2017-01-20 15:53:17	60604	218555	false	822502270503972872
2017-01-20 15:52:45	42790	180394	false	822502135233384448
2017-01-20 15:51:58	18362	91143	false	822501939267141634
2017-01-20 15:51:25	20125	109640	false	822501803615014918
2017-01-20 10:31:53	70523	268372	false	822421390125043713

7659 rows × 4 columns

Now, I have a solid dataframe to work with, consisting of just under 8,000 tweets, happening at all times of the day and coming in a healthy mix of original posts and retweets. Does President Trump like sharing his own thoughts at one part of the day? In the same vein, is there a time of day when he has no time to craft a message of his own but can still manage to retweet other people's content?

```
In [448]: twitter_log.dtypes
```

```
Out[448]: Retweet_Count    object
          Favorite_Count    object
          Is_Retweet         object
          ID_Str             object
          dtype: object
```

The data types are objects. I will convert them to floats (which accomodates decimal values and allowing for more precise measures) for the numerical values and convert to boolean (true/false) for the binary retweet identification.

```
In [449]: twitter_log.Retweet_Count = twitter_log.Retweet_Count.astype(float)
```

```
In [450]: twitter_log.Favorite_Count = twitter_log.Favorite_Count.astype(float)
```

```
In [451]: twitter_log.Is_Retweet = twitter_log.Is_Retweet.astype(bool)
```

```
In [452]: twitter_log.ID_Str = twitter_log.ID_Str.astype(float)
```

```
In [453]: twitter_log.dtypes
```

```
Out[453]: Retweet_Count    float64
          Favorite_Count    float64
          Is_Retweet        bool
          ID_Str            float64
          dtype: object
```

I will group the data by the following time categories for future analysis:

- year (2017, 2018, 2019)
- month of year (January, February,...,December)
- month *and* year (January 2017, February 2017,...,May 2019)
- day of month (1, 2,...,28, 29, 30, 31)
- day of the year (January 1, January 2,...,December 31)
- date (January 20, 2017; January 21, 2017;...;May 6, 2019)
- hour of day (0, 1, 2,...,22, 23)
- minute of day (0, 1, 2,...1438, 1439)

Tweets grouped by year (2017, 2018, 2019)

```
In [144]: year_group = twitter_log.groupby(twitter_log.index.year)
```

```
In [145]: year_group.groups
```

```
Out[145]: {2017: DatetimeIndex(['2017-12-31 21:43:04', '2017-12-31 20:18:20',
                                '2017-12-31 20:00:21', '2017-12-31 17:06:52',
                                '2017-12-31 16:36:28', '2017-12-31 11:36:32',
                                '2017-12-31 11:26:29', '2017-12-31 11:03:29',
                                '2017-12-31 02:46:21', '2017-12-30 20:42:09',
                                ...
                                '2017-01-20 16:00:43', '2017-01-20 15:58:24',
                                '2017-01-20 15:55:44', '2017-01-20 15:54:36',
                                '2017-01-20 15:54:00', '2017-01-20 15:53:17',
                                '2017-01-20 15:52:45', '2017-01-20 15:51:58',
                                '2017-01-20 15:51:25', '2017-01-20 10:31:53'],
                                dtype='datetime64[ns]', name='Time', length=2459, freq=None),
 2018: DatetimeIndex(['2018-12-31 23:05:39', '2018-12-31 22:51:43',
                                '2018-12-31 22:40:26', '2018-12-31 21:53:06',
                                '2018-12-31 18:02:52', '2018-12-31 18:02:52',
                                '2018-12-31 13:39:15', '2018-12-31 13:37:14',
                                '2018-12-31 13:33:15', '2018-12-31 12:38:52',
                                ...
                                '2018-01-02 12:39:49', '2018-01-02 12:13:13',
                                '2018-01-02 12:08:56', '2018-01-02 11:49:23',
                                '2018-01-02 11:44:33', '2018-01-02 10:48:00',
                                '2018-01-02 10:09:17', '2018-01-01 11:37:52',
                                '2018-01-01 10:44:40', '2018-01-01 10:12:00'],
                                dtype='datetime64[ns]', name='Time', length=3571, freq=None),
 2019: DatetimeIndex(['2019-05-06 11:51:49', '2019-05-06 11:48:41',
                                '2019-05-06 11:48:41', '2019-05-06 11:30:14',
                                '2019-05-06 09:08:41', '2019-05-06 08:46:01',
                                '2019-05-06 08:46:01', '2019-05-06 01:05:35',
                                '2019-05-06 01:05:35', '2019-05-05 22:13:59',
                                ...
                                '2019-01-01 13:32:30', '2019-01-01 12:55:01',
                                '2019-01-01 12:54:32', '2019-01-01 12:52:33',
                                '2019-01-01 12:50:39', '2019-01-01 12:32:01',
                                '2019-01-01 12:25:32', '2019-01-01 11:08:29',
                                '2019-01-01 10:51:34', '2019-01-01 00:01:26'],
                                dtype='datetime64[ns]', name='Time', length=1629, freq=None)
one)}
```

```
In [146]: len(year_group.groups)
```

```
Out[146]: 3
```

Not exactly revelatory, but good to confirm that the data exists for the three years President Trump has been in office (i.e. 2017, 2018, 2019).

Tweets grouped by month of year (January, February,..., December)

```
In [147]: month_group = twitter_log.groupby(twitter_log.index.month)
```

```
In [148]: month_group.groups
```



```

Out[148]: {1: DatetimeIndex(['2019-01-31 22:14:37', '2019-01-31 19:40:02',
                             '2019-01-31 19:40:01', '2019-01-31 17:19:19',
                             '2019-01-31 15:43:21', '2019-01-31 13:08:03',
                             '2019-01-31 12:56:15', '2019-01-31 12:52:17',
                             '2019-01-31 11:36:29', '2019-01-31 11:21:01',
                             ...
                             '2017-01-20 16:00:43', '2017-01-20 15:58:24',
                             '2017-01-20 15:55:44', '2017-01-20 15:54:36',
                             '2017-01-20 15:54:00', '2017-01-20 15:53:17',
                             '2017-01-20 15:52:45', '2017-01-20 15:51:58',
                             '2017-01-20 15:51:25', '2017-01-20 10:31:53'],
                             dtype='datetime64[ns]', name='Time', length=645, freq=None),
          2: DatetimeIndex(['2019-02-28 23:15:17', '2019-02-28 23:12:26',
                             '2019-02-28 08:25:18', '2019-02-28 08:10:02',
                             '2019-02-27 14:25:33', '2019-02-27 13:38:24',
                             '2019-02-27 13:36:56', '2019-02-27 13:24:16',
                             '2019-02-27 13:24:14', '2019-02-27 07:45:59',
                             ...
                             '2017-02-02 15:29:16', '2017-02-02 09:39:49',
                             '2017-02-02 09:34:36', '2017-02-02 09:25:40',
                             '2017-02-02 09:18:21', '2017-02-02 09:13:13',
                             '2017-02-02 01:55:49', '2017-02-02 01:06:14',
                             '2017-02-01 10:50:16', '2017-02-01 01:45:26'],
                             dtype='datetime64[ns]', name='Time', length=579, freq=None),
          3: DatetimeIndex(['2019-03-31 21:41:52', '2019-03-31 17:39:13',
                             '2019-03-31 17:21:24', '2019-03-30 20:24:34',
                             '2019-03-30 18:36:30', '2019-03-30 18:31:22',
                             '2019-03-30 10:14:56', '2019-03-30 01:26:56',
                             '2019-03-29 21:25:17', '2019-03-29 21:15:44',
                             ...
                             '2017-03-03 15:54:30', '2017-03-03 14:41:55',
                             '2017-03-03 10:19:12', '2017-03-03 10:00:39',
                             '2017-03-03 00:38:48', '2017-03-03 00:35:33',
                             '2017-03-03 00:27:29', '2017-03-03 00:22:49',
                             '2017-03-02 09:00:41', '2017-03-01 11:38:44'],
                             dtype='datetime64[ns]', name='Time', length=719, freq=None),
          4: DatetimeIndex(['2019-04-30 21:21:16', '2019-04-30 19:09:13',
                             '2019-04-30 19:09:13', '2019-04-30 18:20:10',
                             '2019-04-30 16:23:28', '2019-04-30 16:05:02',
                             '2019-04-30 15:56:57', '2019-04-30 14:31:50',
                             '2019-04-30 14:31:49', '2019-04-29 23:23:49',
                             ...
                             '2017-04-02 11:03:43', '2017-04-02 10:56:49',
                             '2017-04-01 20:21:02', '2017-04-01 15:02:29',
                             '2017-04-01 14:50:36', '2017-04-01 14:06:14',
                             '2017-04-01 13:59:36', '2017-04-01 13:35:12',
                             '2017-04-01 11:02:32', '2017-04-01 10:43:32'],
                             dtype='datetime64[ns]', name='Time', length=840, freq=None),
          5: DatetimeIndex(['2019-05-06 11:51:49', '2019-05-06 11:48:41',
                             '2019-05-06 11:48:41', '2019-05-06 11:30:14',
                             '2019-05-06 09:08:41', '2019-05-06 08:46:01',
                             '2019-05-06 08:46:01', '2019-05-06 01:05:35',
                             '2019-05-06 01:05:35', '2019-05-05 22:13:59',
                             ...
                             '2017-05-06 11:51:49', '2017-05-06 11:48:41',
                             '2017-05-06 11:30:14', '2017-05-06 09:08:41',
                             '2017-05-06 08:46:01', '2017-05-06 01:05:35',
                             '2017-05-06 01:05:35', '2017-05-05 22:13:59',
                             '2017-05-05 22:13:59', '2017-05-05 22:13:59'],
                             dtype='datetime64[ns]', name='Time', length=1000, freq=None)}

```

```

...
'2017-05-03 20:01:42', '2017-05-03 18:57:56',
'2017-05-03 01:06:16', '2017-05-03 00:51:07',
'2017-05-02 19:08:14', '2017-05-02 11:07:10',
'2017-05-02 11:01:41', '2017-05-01 22:55:54',
'2017-05-01 18:30:42', '2017-05-01 17:29:41'],
dtype='datetime64[ns]', name='Time', length=594, freq=None),
6: DatetimeIndex(['2018-06-30 17:44:09', '2018-06-30 17:31:42',
'2018-06-30 17:26:12', '2018-06-30 17:17:42',
'2018-06-30 17:05:48', '2018-06-30 10:33:55',
'2018-06-30 09:37:03', '2018-06-30 09:22:41',
'2018-06-30 09:07:30', '2018-06-30 08:59:46',
...
'2017-06-02 08:34:42', '2017-06-02 08:33:37',
'2017-06-02 08:32:39', '2017-06-02 08:32:10',
'2017-06-02 08:31:03', '2017-06-02 08:08:24',
'2017-06-01 23:00:35', '2017-06-01 20:50:29',
'2017-06-01 17:03:10', '2017-06-01 09:05:21'],
dtype='datetime64[ns]', name='Time', length=596, freq=None),
7: DatetimeIndex(['2018-07-31 23:37:04', '2018-07-31 22:24:25',
'2018-07-31 20:50:10', '2018-07-31 18:49:25',
'2018-07-31 18:39:22', '2018-07-31 15:33:48',
'2018-07-31 15:33:47', '2018-07-31 15:13:32',
'2018-07-31 15:09:50', '2018-07-31 11:34:47',
...
'2017-07-01 20:08:37', '2017-07-01 20:02:27',
'2017-07-01 20:02:12', '2017-07-01 19:38:32',
'2017-07-01 19:01:20', '2017-07-01 11:20:35',
'2017-07-01 11:12:40', '2017-07-01 11:07:05',
'2017-07-01 10:59:52', '2017-07-01 10:44:23'],
dtype='datetime64[ns]', name='Time', length=583, freq=None),
8: DatetimeIndex(['2018-08-31 22:01:21', '2018-08-31 20:07:25',
'2018-08-31 16:37:04', '2018-08-31 15:09:01',
'2018-08-30 23:50:40', '2018-08-30 17:59:32',
'2018-08-30 16:30:04', '2018-08-30 14:54:09',
'2018-08-30 11:49:51', '2018-08-30 11:39:00',
...
'2017-08-03 10:05:07', '2017-08-03 10:00:05',
'2017-08-02 23:29:46', '2017-08-02 16:29:04',
'2017-08-02 14:22:40', '2017-08-02 12:09:37',
'2017-08-02 11:38:00', '2017-08-01 11:55:19',
'2017-08-01 11:03:59', '2017-08-01 10:49:22'],
dtype='datetime64[ns]', name='Time', length=646, freq=None),
9: DatetimeIndex(['2018-09-30 16:56:27', '2018-09-30 15:47:03',
'2018-09-30 14:57:45', '2018-09-30 00:49:55',
'2018-09-29 22:52:25', '2018-09-29 22:51:22',
'2018-09-29 18:36:43', '2018-09-29 18:33:51',
'2018-09-28 22:27:17', '2018-09-27 20:46:17',
...
'2017-09-02 11:58:37', '2017-09-01 22:34:32',
'2017-09-01 22:03:00', '2017-09-01 21:47:38',
'2017-09-01 17:47:23', '2017-09-01 10:58:48',
'2017-09-01 10:47:46', '2017-09-01 10:35:27',

```

```

        '2017-09-01 09:56:45', '2017-09-01 09:50:34'],
        dtype='datetime64[ns]', name='Time', length=688, freq=None),
    10: DatetimeIndex(['2018-10-31 23:43:15', '2018-10-31 22:53:19',
        '2018-10-31 18:18:07', '2018-10-31 17:25:29',
        '2018-10-31 17:24:22', '2018-10-31 15:19:27',
        '2018-10-31 14:43:19', '2018-10-31 13:28:57',
        '2018-10-31 13:25:01', '2018-10-31 12:19:51',
        ...
        '2017-10-02 09:11:37', '2017-10-01 23:22:34',
        '2017-10-01 17:01:19', '2017-10-01 12:31:15',
        '2017-10-01 12:30:59', '2017-10-01 10:30:17',
        '2017-10-01 10:26:26', '2017-10-01 10:22:14',
        '2017-10-01 10:05:25', '2017-10-01 00:08:00'],
        dtype='datetime64[ns]', name='Time', length=678, freq=None),
    11: DatetimeIndex(['2018-11-30 22:23:30', '2018-11-30 18:23:09',
        '2018-11-30 18:19:12', '2018-11-30 12:45:18',
        '2018-11-30 11:08:27', '2018-11-30 07:59:03',
        '2018-11-30 07:52:04', '2018-11-30 01:31:14',
        '2018-11-30 01:04:34', '2018-11-30 00:50:59',
        ...
        '2017-11-01 19:14:33', '2017-11-01 18:14:27',
        '2017-11-01 18:14:17', '2017-11-01 17:26:47',
        '2017-11-01 13:03:29', '2017-11-01 12:59:43',
        '2017-11-01 11:30:32', '2017-11-01 09:40:14',
        '2017-11-01 09:30:48', '2017-11-01 09:24:32'],
        dtype='datetime64[ns]', name='Time', length=598, freq=None),
    12: DatetimeIndex(['2018-12-31 23:05:39', '2018-12-31 22:51:43',
        '2018-12-31 22:40:26', '2018-12-31 21:53:06',
        '2018-12-31 18:02:52', '2018-12-31 18:02:52',
        '2018-12-31 13:39:15', '2018-12-31 13:37:14',
        '2018-12-31 13:33:15', '2018-12-31 12:38:52',
        ...
        '2017-12-02 15:14:13', '2017-12-02 10:54:37',
        '2017-12-02 05:49:18', '2017-12-01 19:49:27',
        '2017-12-01 18:08:22', '2017-12-01 15:23:17',
        '2017-12-01 09:21:06', '2017-12-01 09:13:35',
        '2017-12-01 09:03:35', '2017-12-01 01:30:42'],
        dtype='datetime64[ns]', name='Time', length=493, freq=None)
})

```

```
In [149]: len(month_group.groups)
```

```
Out[149]: 12
```

Again perfunctory, but we have confirmed that none of the twelve months are missing from the data set.

Tweets grouped by month and year (January 2017, February 2017,..., May 2019)

```
In [150]: month_and_year_group = twitter_log.groupby([twitter_log.index.year, twitter_log.index.month])
```

```
In [151]: month_and_year_group.groups
```

```

Out[151]: {(2017, 1): DatetimeIndex(['2017-01-31 23:01:03', '2017-01-31 22:31:0
8',
    '2017-01-31 09:27:02', '2017-01-31 09:21:52',
    '2017-01-30 22:45:50', '2017-01-30 19:07:52',
    '2017-01-30 12:23:49', '2017-01-30 11:43:25',
    '2017-01-30 11:31:00', '2017-01-30 10:27:05',
    '2017-01-30 10:20:49', '2017-01-30 10:16:30',
    '2017-01-29 21:39:53', '2017-01-29 21:28:50',
    '2017-01-29 19:49:32', '2017-01-29 19:45:58',
    '2017-01-29 13:03:58', '2017-01-29 11:08:18',
    '2017-01-29 11:00:32', '2017-01-28 20:50:06',
    '2017-01-28 13:42:58', '2017-01-28 11:16:17',
    '2017-01-28 11:08:42', '2017-01-28 11:04:58',
    '2017-01-27 21:46:22', '2017-01-27 20:00:47',
    '2017-01-27 18:20:15', '2017-01-27 14:30:29',
    '2017-01-27 14:27:02', '2017-01-27 11:19:10',
    '2017-01-27 11:12:52', '2017-01-26 21:53:37',
    '2017-01-26 21:45:28', '2017-01-26 17:21:17',
    '2017-01-26 17:15:44', '2017-01-26 11:55:03',
    '2017-01-26 11:51:46', '2017-01-26 09:04:24',
    '2017-01-26 00:48:25', '2017-01-26 00:45:32',
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        '2019-03-31 17:21:24', '2019-03-30 20:24:34',
        '2019-03-30 18:36:30', '2019-03-30 18:31:22',
        '2019-03-30 10:14:56', '2019-03-30 01:26:56',
        '2019-03-29 21:25:17', '2019-03-29 21:15:44',
        ...,
        '2019-03-01 19:03:13', '2019-03-01 11:37:09',
        '2019-03-01 11:26:56', '2019-03-01 11:19:44',
        '2019-03-01 11:08:02', '2019-03-01 11:00:17',

```

```

        '2019-03-01 10:49:22', '2019-03-01 02:35:26',
        '2019-03-01 02:00:29', '2019-03-01 01:59:59'],
        dtype='datetime64[ns]', name='Time', length=403, freq=None),
    (2019, 4): DatetimeIndex(['2019-04-30 21:21:16', '2019-04-30 19:09:13',
        '2019-04-30 19:09:13', '2019-04-30 18:20:10',
        '2019-04-30 16:23:28', '2019-04-30 16:05:02',
        '2019-04-30 15:56:57', '2019-04-30 14:31:50',
        '2019-04-30 14:31:49', '2019-04-29 23:23:49',
        ...,
        '2019-04-02 00:23:55', '2019-04-02 00:13:25',
        '2019-04-01 14:47:16', '2019-04-01 12:43:14',
        '2019-04-01 11:41:23', '2019-04-01 11:03:28',
        '2019-04-01 10:15:19', '2019-04-01 10:14:45',
        '2019-04-01 10:13:29', '2019-04-01 10:07:45'],
        dtype='datetime64[ns]', name='Time', length=431, freq=None),
    (2019, 5): DatetimeIndex(['2019-05-06 11:51:49', '2019-05-06 11:48:41',
        '2019-05-06 11:48:41', '2019-05-06 11:30:14',
        '2019-05-06 09:08:41', '2019-05-06 08:46:01',
        '2019-05-06 08:46:01', '2019-05-06 01:05:35',
        '2019-05-06 01:05:35', '2019-05-05 22:13:59',
        ...,
        '2019-05-01 07:57:49', '2019-05-01 07:57:34',
        '2019-05-01 07:57:18', '2019-05-01 07:57:10',
        '2019-05-01 07:56:59', '2019-05-01 07:56:52',
        '2019-05-01 07:56:39', '2019-05-01 07:56:34',
        '2019-05-01 07:56:14', '2019-05-01 07:56:00'],
        dtype='datetime64[ns]', name='Time', length=178, freq=None)
})

```

```
In [152]: len(month_and_year_group.groups)
```

```
Out[152]: 29
```

There are indeed 29 months between January 2017 and May 2019, included.

Tweets grouped by day of month (1, 2,..., 28, 29, 30, 31)

```
In [153]: day_group = twitter_log.groupby(twitter_log.index.day)
```

```
In [154]: day_group.groups
```

```

Out[154]: {1: DatetimeIndex(['2019-05-01 23:58:10', '2019-05-01 23:01:44',
                             '2019-05-01 23:00:19', '2019-05-01 22:59:51',
                             '2019-05-01 22:59:22', '2019-05-01 22:58:56',
                             '2019-05-01 22:57:48', '2019-05-01 22:57:17',
                             '2019-05-01 22:53:23', '2019-05-01 22:50:37',
                             ...
                             '2017-04-01 15:02:29', '2017-04-01 14:50:36',
                             '2017-04-01 14:06:14', '2017-04-01 13:59:36',
                             '2017-04-01 13:35:12', '2017-04-01 11:02:32',
                             '2017-04-01 10:43:32', '2017-03-01 11:38:44',
                             '2017-02-01 10:50:16', '2017-02-01 01:45:26'],
                             dtype='datetime64[ns]', name='Time', length=298, freq=None),
          2: DatetimeIndex(['2019-05-02 23:01:02', '2019-05-02 22:11:07',
                             '2019-05-02 19:33:57', '2019-05-02 18:55:09',
                             '2019-05-02 14:56:07', '2019-05-02 14:29:22',
                             '2019-05-02 14:29:21', '2019-05-02 09:26:25',
                             '2019-05-02 09:21:52', '2019-05-02 09:21:17',
                             ...
                             '2017-04-02 10:56:49', '2017-03-02 09:00:41',
                             '2017-02-02 15:29:16', '2017-02-02 09:39:49',
                             '2017-02-02 09:34:36', '2017-02-02 09:25:40',
                             '2017-02-02 09:18:21', '2017-02-02 09:13:13',
                             '2017-02-02 01:55:49', '2017-02-02 01:06:14'],
                             dtype='datetime64[ns]', name='Time', length=226, freq=None),
          3: DatetimeIndex(['2019-05-03 23:52:31', '2019-05-03 21:45:22',
                             '2019-05-03 21:25:35', '2019-05-03 21:23:13',
                             '2019-05-03 20:55:02', '2019-05-03 20:53:05',
                             '2019-05-03 19:48:37', '2019-05-03 17:39:10',
                             '2019-05-03 15:06:31', '2019-05-03 15:06:31',
                             ...
                             '2017-03-03 00:35:33', '2017-03-03 00:27:29',
                             '2017-03-03 00:22:49', '2017-02-03 21:08:38',
                             '2017-02-03 10:51:58', '2017-02-03 09:48:16',
                             '2017-02-03 09:41:11', '2017-02-03 09:34:32',
                             '2017-02-03 09:28:02', '2017-02-03 09:24:51'],
                             dtype='datetime64[ns]', name='Time', length=287, freq=None),
          4: DatetimeIndex(['2019-05-04 23:49:24', '2019-05-04 23:49:05',
                             '2019-05-04 23:48:39', '2019-05-04 23:45:40',
                             '2019-05-04 23:44:39', '2019-05-04 16:31:06',
                             '2019-05-04 15:53:42', '2019-05-04 15:00:12',
                             '2019-05-04 11:56:03', '2019-05-04 11:54:28',
                             ...
                             '2017-02-04 22:34:50', '2017-02-04 21:37:59',
                             '2017-02-04 19:44:49', '2017-02-04 18:44:07',
                             '2017-02-04 12:26:10', '2017-02-04 11:39:27',
                             '2017-02-04 11:12:02', '2017-02-04 11:06:39',
                             '2017-02-04 10:59:35', '2017-02-04 01:07:47'],
                             dtype='datetime64[ns]', name='Time', length=270, freq=None),
          5: DatetimeIndex(['2019-05-05 22:13:59', '2019-05-05 22:13:59',
                             '2019-05-05 22:08:20', '2019-05-05 19:26:47',
                             '2019-05-05 19:26:47', '2019-05-05 18:46:39',
                             '2019-05-05 18:24:39', '2019-05-05 18:22:10',
                             '2019-05-05 18:21:41', '2019-05-05 18:21:11',

```

```

...
'2017-05-05 04:16:06', '2017-05-05 00:55:02',
'2017-04-05 19:18:08', '2017-03-05 15:30:11',
'2017-03-05 09:40:20', '2017-03-05 09:32:22',
'2017-02-05 20:49:42', '2017-02-05 18:47:25',
'2017-02-05 18:42:33', '2017-02-05 18:39:05'],
dtype='datetime64[ns]', name='Time', length=265, freq=None),
6: DatetimeIndex(['2019-05-06 11:51:49', '2019-05-06 11:48:41',
'2019-05-06 11:48:41', '2019-05-06 11:30:14',
'2019-05-06 09:08:41', '2019-05-06 08:46:01',
'2019-05-06 08:46:01', '2019-05-06 01:05:35',
'2019-05-06 01:05:35', '2019-04-06 21:36:56',
...
'2017-03-06 21:49:53', '2017-03-06 19:22:15',
'2017-03-06 19:21:32', '2017-03-06 19:19:04',
'2017-02-06 21:33:52', '2017-02-06 14:32:24',
'2017-02-06 14:27:45', '2017-02-06 10:07:55',
'2017-02-06 10:01:53', '2017-02-06 01:36:54'],
dtype='datetime64[ns]', name='Time', length=222, freq=None),
7: DatetimeIndex(['2019-04-07 23:03:25', '2019-04-07 22:45:32',
'2019-04-07 20:02:04', '2019-04-07 20:02:03',
'2019-04-07 17:54:53', '2019-04-07 17:53:56',
'2019-04-07 17:50:54', '2019-04-07 11:50:02',
'2019-03-07 20:39:11', '2019-03-07 12:38:54',
...
'2017-03-07 10:13:59', '2017-03-07 10:04:13',
'2017-03-07 01:50:49', '2017-03-07 01:49:54',
'2017-02-07 23:04:00', '2017-02-07 14:25:13',
'2017-02-07 10:11:29', '2017-02-07 10:04:01',
'2017-02-07 00:49:28', '2017-02-07 00:33:55'],
dtype='datetime64[ns]', name='Time', length=229, freq=None),
8: DatetimeIndex(['2019-04-08 21:57:29', '2019-04-08 14:48:48',
'2019-04-08 10:22:03', '2019-04-08 10:09:45',
'2019-04-08 10:09:19', '2019-04-08 10:06:29',
'2019-04-08 09:44:16', '2019-04-08 09:39:34',
'2019-03-08 23:18:38', '2019-03-08 21:18:27',
...
'2017-02-08 20:07:18', '2017-02-08 19:46:14',
'2017-02-08 17:39:51', '2017-02-08 17:22:33',
'2017-02-08 15:41:09', '2017-02-08 13:54:01',
'2017-02-08 13:51:01', '2017-02-08 13:23:29',
'2017-02-08 11:04:47', '2017-02-08 10:03:18'],
dtype='datetime64[ns]', name='Time', length=229, freq=None),
9: DatetimeIndex(['2019-04-09 23:22:19', '2019-04-09 23:01:51',
'2019-04-09 18:43:35', '2019-04-09 17:15:26',
'2019-04-09 16:32:44', '2019-04-09 15:58:35',
'2019-04-09 14:09:58', '2019-04-09 13:38:27',
'2019-04-09 13:36:17', '2019-04-09 13:31:21',
...
'2017-03-09 20:36:27', '2017-03-09 15:01:17',
'2017-03-09 11:13:54', '2017-02-09 21:35:49',
'2017-02-09 13:58:01', '2017-02-09 11:52:31',
'2017-02-09 11:31:59', '2017-02-09 11:26:07',

```



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        '2017-02-09 11:19:08', '2017-02-09 09:57:59'],
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    10: DatetimeIndex(['2019-04-10 23:55:55', '2019-04-10 19:41:06',
        '2019-04-10 19:37:40', '2019-04-10 17:45:55',
        '2019-04-10 17:17:19', '2019-04-10 12:48:02',
        '2019-04-10 01:02:43', '2019-04-10 00:59:40',
        '2019-04-10 00:22:07', '2019-04-10 00:05:47',
        ...,
        '2017-05-10 09:10:48', '2017-05-10 00:42:52',
        '2017-04-10 21:56:35', '2017-04-10 19:59:10',
        '2017-03-10 13:40:53', '2017-03-10 11:45:02',
        '2017-03-10 11:32:05', '2017-02-10 21:24:51',
        '2017-02-10 11:35:50', '2017-02-10 11:15:27'],
        dtype='datetime64[ns]', name='Time', length=266, freq=None),
    11: DatetimeIndex(['2019-04-11 22:46:56', '2019-04-11 22:44:16',
        '2019-04-11 22:32:40', '2019-04-11 22:29:17',
        '2019-04-11 22:24:09', '2019-04-11 21:57:01',
        '2019-04-11 21:45:38', '2019-04-11 21:14:47',
        '2019-04-11 19:23:33', '2019-04-11 13:35:36',
        ...,
        '2017-03-11 12:39:07', '2017-02-11 21:24:08',
        '2017-02-11 21:15:34', '2017-02-11 21:07:52',
        '2017-02-11 21:00:21', '2017-02-11 16:28:31',
        '2017-02-11 11:33:53', '2017-02-11 11:24:32',
        '2017-02-11 11:18:43', '2017-02-11 10:12:51'],
        dtype='datetime64[ns]', name='Time', length=218, freq=None),
    12: DatetimeIndex(['2019-04-12 21:26:32', '2019-04-12 20:38:45',
        '2019-04-12 19:35:31', '2019-04-12 14:38:02',
        '2019-04-12 14:38:02', '2019-04-12 12:19:36',
        '2019-04-12 11:46:27', '2019-04-12 11:37:30',
        '2019-04-12 11:06:42', '2019-03-12 20:17:13',
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        '2017-03-12 10:36:59', '2017-02-12 20:19:05',
        '2017-02-12 13:41:55', '2017-02-12 11:23:18',
        '2017-02-12 11:04:49', '2017-02-12 10:14:16',
        '2017-02-12 09:55:10', '2017-02-12 09:34:45',
        '2017-02-12 03:02:01', '2017-02-12 01:23:13'],
        dtype='datetime64[ns]', name='Time', length=219, freq=None),
    13: DatetimeIndex(['2019-04-13 23:47:25', '2019-04-13 23:38:33',
        '2019-04-13 22:08:37', '2019-04-13 22:01:02',
        '2019-04-13 21:51:55', '2019-04-13 21:38:27',
        '2019-04-13 21:30:41', '2019-04-13 20:37:52',
        '2019-04-13 14:01:11', '2019-04-13 10:21:05',
        ...,
        '2017-04-13 11:16:30', '2017-04-13 11:08:20',
        '2017-03-13 20:54:16', '2017-03-13 18:57:02',
        '2017-03-13 15:20:15', '2017-03-13 11:11:17',
        '2017-03-13 10:52:29', '2017-02-13 16:50:57',
        '2017-02-13 14:59:06', '2017-02-13 13:53:08'],
        dtype='datetime64[ns]', name='Time', length=261, freq=None),
    14: DatetimeIndex(['2019-04-14 23:50:15', '2019-04-14 23:49:26',
        '2019-04-14 23:42:58', '2019-04-14 23:31:56',

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'2019-04-14 22:28:09', '2019-04-14 17:10:18',
'2019-04-14 16:36:00', '2019-04-14 16:27:57',
'2019-04-14 15:57:15', '2019-04-14 12:04:00',
...
'2017-04-14 18:41:25', '2017-04-14 01:18:24',
'2017-03-14 14:12:22', '2017-03-14 13:00:25',
'2017-02-14 20:50:33', '2017-02-14 19:48:10',
'2017-02-14 18:21:59', '2017-02-14 12:28:54',
'2017-02-14 01:30:45', '2017-02-14 00:57:05'],
dtype='datetime64[ns]', name='Time', length=242, freq=None),
15: DatetimeIndex(['2019-04-15 19:58:34', '2019-04-15 19:57:02',
'2019-04-15 15:39:48', '2019-04-15 15:35:41',
'2019-04-15 14:36:19', '2019-04-15 14:24:39',
'2019-04-15 14:21:01', '2019-04-15 14:05:21',
'2019-04-15 13:33:56', '2019-04-15 13:33:36',
...
'2017-02-15 19:34:05', '2017-02-15 17:45:16',
'2017-02-15 17:17:59', '2017-02-15 14:34:27',
'2017-02-15 11:13:10', '2017-02-15 10:42:20',
'2017-02-15 10:28:37', '2017-02-15 10:19:18',
'2017-02-15 10:08:12', '2017-02-15 09:40:32'],
dtype='datetime64[ns]', name='Time', length=270, freq=None),
16: DatetimeIndex(['2019-04-16 23:45:26', '2019-04-16 23:24:39',
'2019-04-16 23:11:47', '2019-04-16 22:57:41',
'2019-04-16 20:39:26', '2019-04-16 16:59:17',
'2019-04-16 16:01:11', '2019-04-16 12:11:46',
'2019-04-16 11:34:55', '2019-04-16 11:02:23',
...
'2017-03-16 19:43:07', '2017-03-16 18:09:38',
'2017-03-16 13:52:22', '2017-03-16 02:20:41',
'2017-02-16 21:44:54', '2017-02-16 12:39:52',
'2017-02-16 12:10:49', '2017-02-16 10:02:59',
'2017-02-16 09:58:43', '2017-02-16 09:34:46'],
dtype='datetime64[ns]', name='Time', length=236, freq=None),
17: DatetimeIndex(['2019-04-17 23:07:04', '2019-04-17 20:26:28',
'2019-04-17 16:52:33', '2019-04-17 14:14:52',
'2019-04-17 14:14:52', '2019-04-17 09:45:14',
'2019-04-17 09:34:45', '2019-04-17 02:27:01',
'2019-03-17 21:16:38', '2019-03-17 20:27:27',
...
'2017-03-17 07:35:58', '2017-02-17 22:02:58',
'2017-02-17 21:15:56', '2017-02-17 19:48:22',
'2017-02-17 19:32:29', '2017-02-17 13:34:14',
'2017-02-17 11:16:22', '2017-02-17 09:43:10',
'2017-02-17 09:38:20', '2017-02-17 08:13:32'],
dtype='datetime64[ns]', name='Time', length=294, freq=None),
18: DatetimeIndex(['2019-04-18 22:38:16', '2019-04-18 22:27:34',
'2019-04-18 21:47:26', '2019-04-18 21:46:58',
'2019-04-18 21:28:23', '2019-04-18 20:29:09',
'2019-04-18 19:31:51', '2019-04-18 18:37:57',
'2019-04-18 14:59:04', '2019-04-18 11:57:33',
...
'2017-04-18 08:46:19', '2017-04-18 08:38:59',

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        '2017-04-18 07:48:10', '2017-04-18 07:39:25',
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        '2017-03-18 11:15:41', '2017-02-18 18:26:31',
        '2017-02-18 11:51:20', '2017-02-18 11:31:53'],
        dtype='datetime64[ns]', name='Time', length=283, freq=None),
    19: DatetimeIndex(['2019-04-19 21:10:40', '2019-04-19 20:51:04',
        '2019-04-19 20:46:13', '2019-04-19 20:45:23',
        '2019-04-19 19:44:40', '2019-04-19 19:42:51',
        '2019-04-19 19:41:10', '2019-04-19 19:30:39',
        '2019-04-19 19:23:10', '2019-04-19 19:14:33',
        ...
        '2017-05-19 20:16:06', '2017-05-19 12:24:08',
        '2017-05-19 00:03:58', '2017-04-19 23:34:10',
        '2017-04-19 18:26:45', '2017-04-19 15:31:28',
        '2017-04-19 10:43:18', '2017-04-19 02:09:17',
        '2017-03-19 18:20:22', '2017-02-19 19:57:01'],
        dtype='datetime64[ns]', name='Time', length=213, freq=None),
    20: DatetimeIndex(['2019-04-20 23:53:02', '2019-04-20 23:44:34',
        '2019-04-20 21:35:46', '2019-04-20 21:34:04',
        '2019-04-20 21:22:28', '2019-04-20 21:20:25',
        '2019-04-20 21:20:08', '2019-04-20 21:02:54',
        '2019-04-20 20:09:33', '2019-04-20 19:55:17',
        ...
        '2017-01-20 16:00:43', '2017-01-20 15:58:24',
        '2017-01-20 15:55:44', '2017-01-20 15:54:36',
        '2017-01-20 15:54:00', '2017-01-20 15:53:17',
        '2017-01-20 15:52:45', '2017-01-20 15:51:58',
        '2017-01-20 15:51:25', '2017-01-20 10:31:53'],
        dtype='datetime64[ns]', name='Time', length=291, freq=None),
    21: DatetimeIndex(['2019-04-21 20:35:16', '2019-04-21 12:23:37',
        '2019-04-21 11:55:27', '2019-04-21 10:51:49',
        '2019-04-21 10:37:43', '2019-04-21 09:40:29',
        '2019-04-21 09:20:25', '2019-04-21 09:04:01',
        '2019-04-21 08:48:20', '2019-04-21 02:01:18',
        ...
        '2017-04-21 08:11:27', '2017-03-21 16:12:05',
        '2017-03-21 15:33:23', '2017-03-21 15:02:31',
        '2017-03-21 00:18:20', '2017-02-21 21:23:13',
        '2017-02-21 18:46:42', '2017-01-21 21:54:31',
        '2017-01-21 09:53:41', '2017-01-21 02:56:15'],
        dtype='datetime64[ns]', name='Time', length=259, freq=None),
    22: DatetimeIndex(['2019-04-22 21:59:38', '2019-04-22 21:58:58',
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        '2019-04-22 21:44:32', '2019-04-22 21:43:44',
        ...
        '2017-03-22 23:33:54', '2017-03-22 23:04:32',
        '2017-03-22 23:03:18', '2017-03-22 11:09:35',
        '2017-02-22 10:50:56', '2017-02-22 10:20:40',
        '2017-01-22 12:23:17', '2017-01-22 10:51:36',
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ne),
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                  '2019-04-23 09:32:19', '2019-04-23 09:26:40',
                  ...
                  '2017-04-23 12:07:52', '2017-04-23 12:05:07',
                  '2017-03-23 20:19:43', '2017-03-23 14:07:55',
                  '2017-03-23 13:16:24', '2017-03-23 10:18:33',
                  '2017-02-23 22:06:44', '2017-02-23 22:01:40',
                  '2017-02-23 20:53:45', '2017-01-23 09:38:16'],
                  dtype='datetime64[ns]', name='Time', length=225, freq=None),
24: DatetimeIndex(['2019-04-24 21:01:43', '2019-04-24 17:48:32',
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                  ...
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25: DatetimeIndex(['2019-04-25 22:59:14', '2019-04-25 16:11:16',
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26: DatetimeIndex(['2019-04-26 20:57:34', '2019-04-26 17:13:29',
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27: DatetimeIndex(['2019-04-27 23:58:39', '2019-04-27 21:46:06',
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                  '2019-04-27 15:05:36', '2019-04-27 14:41:38',

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        '2017-01-28 11:08:42', '2017-01-28 11:04:58'],
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    29: DatetimeIndex(['2019-04-29 23:23:49', '2019-04-29 23:17:20',
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        '2017-03-29 10:01:52', '2017-01-29 21:39:53',
        '2017-01-29 21:28:50', '2017-01-29 19:49:32',
        '2017-01-29 19:45:58', '2017-01-29 13:03:58',
        '2017-01-29 11:08:18', '2017-01-29 11:00:32'],
        dtype='datetime64[ns]', name='Time', length=235, freq=None),
    30: DatetimeIndex(['2019-04-30 21:21:16', '2019-04-30 19:09:13',
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        '2019-04-30 16:23:28', '2019-04-30 16:05:02',
        '2019-04-30 15:56:57', '2019-04-30 14:31:50',
        '2019-04-30 14:31:49', '2019-03-30 20:24:34',
        ...
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        '2017-01-30 22:45:50', '2017-01-30 19:07:52',
        '2017-01-30 12:23:49', '2017-01-30 11:43:25',
        '2017-01-30 11:31:00', '2017-01-30 10:27:05',
        '2017-01-30 10:20:49', '2017-01-30 10:16:30'],
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    31: DatetimeIndex(['2019-03-31 21:41:52', '2019-03-31 17:39:13',
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        '2019-01-31 19:40:02', '2019-01-31 19:40:01',
        '2019-01-31 17:19:19', '2019-01-31 15:43:21',
        '2019-01-31 13:08:03', '2019-01-31 12:56:15',
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        '2017-03-31 15:45:10', '2017-03-31 15:28:44',
        '2017-03-31 12:35:47', '2017-03-31 09:04:32',

```

```
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'2017-01-31 09:27:02', '2017-01-31 09:21:52'],  
dtype='datetime64[ns]', name='Time', length=150, freq=None))}
```

```
In [155]: len(day_group.groups)
```

```
Out[155]: 31
```

Although some months have 28 or 30 days (there was no leap year during Trump's term yet), since we are compiling all the data during all months, the number of days of the month group will go up to 31.

Tweets grouped by day of the year (January 1, January 2,..., December 31)

```
In [156]: month_and_day_group = twitter_log.groupby([twitter_log.index.month, twitter_log.index.day])
```

```
In [157]: month_and_day_group.groups
```

```

Out[157]: {(1, 1): DatetimeIndex(['2019-01-01 22:43:50', '2019-01-01 21:39:32',
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                                   '2019-01-01 16:12:08', '2019-01-01 13:51:09',
                                   '2019-01-01 13:32:30', '2019-01-01 12:55:01',
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                                   '2019-01-01 12:50:39', '2019-01-01 12:32:01',
                                   '2019-01-01 12:25:32', '2019-01-01 11:08:29',
                                   '2019-01-01 10:51:34', '2019-01-01 00:01:26',
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                                   '2018-01-02 20:23:41', '2018-01-02 16:11:11',
                                   '2018-01-02 13:16:38', '2018-01-02 12:53:47',
                                   '2018-01-02 12:39:49', '2018-01-02 12:13:13',
                                   '2018-01-02 12:08:56', '2018-01-02 11:49:23',
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                                   '2018-01-04 22:11:26', '2018-01-04 21:53:05',
                                   '2018-01-04 13:48:04', '2018-01-04 09:37:46',
                                   '2018-01-04 09:32:22', '2018-01-04 09:11:45',
                                   '2018-01-04 09:02:14', '2018-01-04 00:13:16',
                                   '2018-01-04 00:11:31', '2018-01-04 00:07:37'],
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                                   '2019-01-05 10:31:03', '2019-01-05 10:17:35',
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(1, 18): DatetimeIndex(['2019-01-18 23:52:47', '2019-01-18 23:50:03',
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        '2018-12-27 19:04:24', '2018-12-27 19:04:06',
        '2018-12-27 18:39:59', '2018-12-27 17:44:49',
        '2018-12-27 17:41:45', '2018-12-27 17:35:46',
        '2018-12-27 10:06:25', '2018-12-27 09:59:04',
        '2017-12-27 21:11:13', '2017-12-27 20:49:30'],
        dtype='datetime64[ns]', name='Time', freq=None),
(12, 28): DatetimeIndex(['2018-12-28 12:51:07', '2018-12-28 11:06:13',
        '2018-12-28 10:49:26', '2018-12-28 10:42:12',
        '2018-12-28 10:16:40', '2017-12-28 22:01:47',
        '2017-12-28 21:14:21', '2017-12-28 20:17:55',
        '2017-12-28 20:17:36', '2017-12-28 20:17:06',
        '2017-12-28 20:16:29', '2017-12-28 17:20:47',
        '2017-12-28 14:24:08', '2017-12-28 14:18:20',
        '2017-12-28 13:24:53', '2017-12-28 00:46:30',
        '2017-12-28 00:09:22'],
        dtype='datetime64[ns]', name='Time', freq=None),
(12, 29): DatetimeIndex(['2018-12-29 19:06:08', '2018-12-29 17:25:47',
        '2018-12-29 16:36:17', '2018-12-29 16:30:16',
        '2018-12-29 14:03:02', '2018-12-29 13:52:24',
        '2018-12-29 13:42:50', '2017-12-29 11:16:11',
        '2017-12-29 11:04:09', '2017-12-29 10:50:17',
        '2017-12-29 10:50:00', '2017-12-29 10:48:57',
        '2017-12-29 10:48:15', '2017-12-29 10:46:23'],
        dtype='datetime64[ns]', name='Time', freq=None),
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        '2018-12-30 13:28:35', '2018-12-30 01:15:36',
        '2018-12-30 01:01:28', '2017-12-30 20:42:09',
        '2017-12-30 20:36:41', '2017-12-30 19:12:45',
        '2017-12-30 17:02:53', '2017-12-30 17:00:54',
        '2017-12-30 01:42:58'],
        dtype='datetime64[ns]', name='Time', freq=None),
(12, 31): DatetimeIndex(['2018-12-31 23:05:39', '2018-12-31 22:51:43',
        '2018-12-31 22:40:26', '2018-12-31 21:53:06',
        '2018-12-31 18:02:52', '2018-12-31 18:02:52',
        '2018-12-31 13:39:15', '2018-12-31 13:37:14',
        '2018-12-31 13:33:15', '2018-12-31 12:38:52',
        '2018-12-31 11:29:32', '2018-12-31 11:19:13',
        '2018-12-31 11:12:40', '2018-12-31 11:03:05',
        '2018-12-31 10:51:22', '2017-12-31 21:43:04',
        '2017-12-31 20:18:20', '2017-12-31 20:00:21',
        '2017-12-31 17:06:52', '2017-12-31 16:36:28',

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```
'2017-12-31 11:36:32', '2017-12-31 11:26:29',  
'2017-12-31 11:03:29', '2017-12-31 02:46:21'],  
dtype='datetime64[ns]', name='Time', freq=None)}
```

```
In [158]: len(month_and_day_group.groups)
```

```
Out[158]: 365
```

President Trump has not missed tweeting during any day of the year as there has not been a leap year during his term yet.

Tweets grouped by date (January 20, 2017; January 21, 2017;...; May , 2019)

```
In [169]: year_month_day_group = twitter_log.groupby([twitter_log.index.year, twitter_log.index.month, twitter_log.index.day])
```

```
In [170]: year_month_day_group.groups
```

```

Out[170]: {(2017, 1, 20): DatetimeIndex(['2017-01-20 16:13:48', '2017-01-20 16:0
0:43',
                                     '2017-01-20 15:58:24', '2017-01-20 15:55:44',
                                     '2017-01-20 15:54:36', '2017-01-20 15:54:00',
                                     '2017-01-20 15:53:17', '2017-01-20 15:52:45',
                                     '2017-01-20 15:51:58', '2017-01-20 15:51:25',
                                     '2017-01-20 10:31:53'],
                                     dtype='datetime64[ns]', name='Time', freq=None),
 (2017, 1, 21): DatetimeIndex(['2017-01-21 21:54:31', '2017-01-21 09:5
3:41',
                               '2017-01-21 02:56:15'],
                               dtype='datetime64[ns]', name='Time', freq=None),
 (2017, 1, 22): DatetimeIndex(['2017-01-22 12:23:17', '2017-01-22 10:5
1:36',
                               '2017-01-22 10:47:21', '2017-01-22 10:35:09'],
                               dtype='datetime64[ns]', name='Time', freq=None),
 (2017,
  1,
  23): DatetimeIndex(['2017-01-23 09:38:16'], dtype='datetime64[ns]', n
ame='Time', freq=None),
 (2017, 1, 24): DatetimeIndex(['2017-01-24 22:46:57', '2017-01-24 15:4
9:17',
                               '2017-01-24 15:04:01', '2017-01-24 14:58:06',
                               '2017-01-24 09:11:47'],
                               dtype='datetime64[ns]', name='Time', freq=None),
 (2017, 1, 25): DatetimeIndex(['2017-01-25 22:03:33', '2017-01-25 20:0
5:59',
                               '2017-01-25 10:17:01', '2017-01-25 10:13:46',
                               '2017-01-25 10:10:01', '2017-01-25 00:37:48',
                               '2017-01-25 00:25:40', '2017-01-25 00:16:19'],
                               dtype='datetime64[ns]', name='Time', freq=None),
 (2017, 1, 26): DatetimeIndex(['2017-01-26 21:53:37', '2017-01-26 21:4
5:28',
                               '2017-01-26 17:21:17', '2017-01-26 17:15:44',
                               '2017-01-26 11:55:03', '2017-01-26 11:51:46',
                               '2017-01-26 09:04:24', '2017-01-26 00:48:25',
                               '2017-01-26 00:45:32', '2017-01-26 00:14:56'],
                               dtype='datetime64[ns]', name='Time', freq=None),
 (2017, 1, 27): DatetimeIndex(['2017-01-27 21:46:22', '2017-01-27 20:0
0:47',
                               '2017-01-27 18:20:15', '2017-01-27 14:30:29',
                               '2017-01-27 14:27:02', '2017-01-27 11:19:10',
                               '2017-01-27 11:12:52'],
                               dtype='datetime64[ns]', name='Time', freq=None),
 (2017, 1, 28): DatetimeIndex(['2017-01-28 20:50:06', '2017-01-28 13:4
2:58',
                               '2017-01-28 11:16:17', '2017-01-28 11:08:42',
                               '2017-01-28 11:04:58'],
                               dtype='datetime64[ns]', name='Time', freq=None),
 (2017, 1, 29): DatetimeIndex(['2017-01-29 21:39:53', '2017-01-29 21:2
8:50',
                               '2017-01-29 19:49:32', '2017-01-29 19:45:58',
                               '2017-01-29 13:03:58', '2017-01-29 11:08:18',
                               '2017-01-29 11:00:32'],
                               dtype='datetime64[ns]', name='Time', freq=None),
 (2017, 1, 30): DatetimeIndex(['2017-01-30 22:45:50', '2017-01-30 19:0
7:52',

```

```

        '2017-01-30 12:23:49', '2017-01-30 11:43:25',
        '2017-01-30 11:31:00', '2017-01-30 10:27:05',
        '2017-01-30 10:20:49', '2017-01-30 10:16:30'],
        dtype='datetime64[ns]', name='Time', freq=None),
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        '2017-01-31 09:27:02', '2017-01-31 09:21:52'],
        dtype='datetime64[ns]', name='Time', freq=None),
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    2,
    1): DatetimeIndex(['2017-02-01 10:50:16', '2017-02-01 01:45:26'], dt
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    (2017, 2, 2): DatetimeIndex(['2017-02-02 15:29:16', '2017-02-02 09:39:
49',
        '2017-02-02 09:34:36', '2017-02-02 09:25:40',
        '2017-02-02 09:18:21', '2017-02-02 09:13:13',
        '2017-02-02 01:55:49', '2017-02-02 01:06:14'],
        dtype='datetime64[ns]', name='Time', freq=None),
    (2017, 2, 3): DatetimeIndex(['2017-02-03 21:08:38', '2017-02-03 10:51:
58',
        '2017-02-03 09:48:16', '2017-02-03 09:41:11',
        '2017-02-03 09:34:32', '2017-02-03 09:28:02',
        '2017-02-03 09:24:51'],
        dtype='datetime64[ns]', name='Time', freq=None),
    (2017, 2, 4): DatetimeIndex(['2017-02-04 22:48:12', '2017-02-04 22:34:
50',
        '2017-02-04 21:37:59', '2017-02-04 19:44:49',
        '2017-02-04 18:44:07', '2017-02-04 12:26:10',
        '2017-02-04 11:39:27', '2017-02-04 11:12:02',
        '2017-02-04 11:06:39', '2017-02-04 10:59:35',
        '2017-02-04 01:07:47'],
        dtype='datetime64[ns]', name='Time', freq=None),
    (2017, 2, 5): DatetimeIndex(['2017-02-05 20:49:42', '2017-02-05 18:47:
25',
        '2017-02-05 18:42:33', '2017-02-05 18:39:05'],
        dtype='datetime64[ns]', name='Time', freq=None),
    (2017, 2, 6): DatetimeIndex(['2017-02-06 21:33:52', '2017-02-06 14:32:
24',
        '2017-02-06 14:27:45', '2017-02-06 10:07:55',
        '2017-02-06 10:01:53', '2017-02-06 01:36:54'],
        dtype='datetime64[ns]', name='Time', freq=None),
    (2017, 2, 7): DatetimeIndex(['2017-02-07 23:04:00', '2017-02-07 14:25:
13',
        '2017-02-07 10:11:29', '2017-02-07 10:04:01',
        '2017-02-07 00:49:28', '2017-02-07 00:33:55'],
        dtype='datetime64[ns]', name='Time', freq=None),
    (2017, 2, 8): DatetimeIndex(['2017-02-08 23:05:53', '2017-02-08 20:07:
18',
        '2017-02-08 19:46:14', '2017-02-08 17:39:51',
        '2017-02-08 17:22:33', '2017-02-08 15:41:09',
        '2017-02-08 13:54:01', '2017-02-08 13:51:01',
        '2017-02-08 13:23:29', '2017-02-08 11:04:47',
        '2017-02-08 10:03:18'],
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01',
        '2017-02-09 11:52:31', '2017-02-09 11:31:59',

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        '2017-02-09 11:26:07', '2017-02-09 11:19:08',
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(2017, 2, 11): DatetimeIndex(['2017-02-11 21:24:08', '2017-02-11 21:1
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        '2017-02-11 16:28:31', '2017-02-11 11:33:53',
        '2017-02-11 11:24:32', '2017-02-11 11:18:43',
        '2017-02-11 10:12:51'],
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        '2017-02-12 10:14:16', '2017-02-12 09:55:10',
        '2017-02-12 09:34:45', '2017-02-12 03:02:01',
        '2017-02-12 01:23:13'],
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        '2017-02-15 14:34:27', '2017-02-15 11:13:10',
        '2017-02-15 10:42:20', '2017-02-15 10:28:37',
        '2017-02-15 10:19:18', '2017-02-15 10:08:12',
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        '2017-02-17 09:43:10', '2017-02-17 09:38:20',
        '2017-02-17 08:13:32'],
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                             dtype='datetime64[ns]', name='Time', freq=None),
(2017, 2, 25): DatetimeIndex(['2017-02-25 20:02:22', '2017-02-25 19:5
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                             '2017-02-25 16:12:25', '2017-02-25 11:27:04',
                             '2017-02-25 11:19:18', '2017-02-25 10:25:24',
                             '2017-02-25 01:09:18'],
                             dtype='datetime64[ns]', name='Time', freq=None),
(2017, 2, 26): DatetimeIndex(['2017-02-26 18:13:52', '2017-02-26 16:1
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                             '2017-02-26 09:42:39', '2017-02-26 09:33:16'],
                             dtype='datetime64[ns]', name='Time', freq=None),
(2017,
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 27): DatetimeIndex(['2017-02-27 19:48:21', '2017-02-27 15:06:23'], dt
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                             '2017-02-28 00:43:03'],
                             dtype='datetime64[ns]', name='Time', freq=None),
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me='Time', freq=None),
(2017, 3, 3): DatetimeIndex(['2017-03-03 20:13:10', '2017-03-03 19:02:
23',
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                             '2017-03-03 18:47:30', '2017-03-03 15:54:30',
                             '2017-03-03 14:41:55', '2017-03-03 10:19:12',
                             '2017-03-03 10:00:39', '2017-03-03 00:38:48',
                             '2017-03-03 00:35:33', '2017-03-03 00:27:29',
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(2017, 3, 4): DatetimeIndex(['2017-03-04 11:19:29', '2017-03-04 10:02:
48',
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                             '2017-03-04 09:42:59', '2017-03-04 09:35:20',
                             '2017-03-04 09:26:47'],
                             dtype='datetime64[ns]', name='Time', freq=None),
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                             '2017-03-05 09:32:22'],
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                             dtype='datetime64[ns]', name='Time', freq=None),
(2017, 3, 7): DatetimeIndex(['2017-03-07 22:14:30', '2017-03-07 12:14:
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                             '2017-03-07 11:13:20', '2017-03-07 10:13:59',
                             '2017-03-07 10:04:13', '2017-03-07 01:50:49',
                             '2017-03-07 01:49:54'],
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(2017, 3, 8): DatetimeIndex(['2017-03-08 21:54:16', '2017-03-08 21:50:
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                             dtype='datetime64[ns]', name='Time', freq=None),
(2017, 3, 10): DatetimeIndex(['2017-03-10 13:40:53', '2017-03-10 11:4
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 3,
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ame='Time', freq=None),
(2017, 3, 13): DatetimeIndex(['2017-03-13 20:54:16', '2017-03-13 18:5
7:02',
                              '2017-03-13 15:20:15', '2017-03-13 11:11:17',
                              '2017-03-13 10:52:29'],
                              dtype='datetime64[ns]', name='Time', freq=None),
(2017,
 3,
 14): DatetimeIndex(['2017-03-14 14:12:22', '2017-03-14 13:00:25'], dt
ype='datetime64[ns]', name='Time', freq=None),
(2017, 3, 15): DatetimeIndex(['2017-03-15 22:03:23', '2017-03-15 21:2
5:25',
                              '2017-03-15 18:55:52', '2017-03-15 10:14:20',
                              '2017-03-15 09:29:05', '2017-03-15 09:13:58',
                              '2017-03-15 09:02:40', '2017-03-15 08:55:30'],
                              dtype='datetime64[ns]', name='Time', freq=None),

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(2017, 3, 16): DatetimeIndex(['2017-03-16 20:43:32', '2017-03-16 19:5
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                             '2017-03-16 13:52:22', '2017-03-16 02:20:41'],
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7:26',
                             '2017-03-17 11:07:15', '2017-03-17 10:34:17',
                             '2017-03-17 10:30:25', '2017-03-17 10:26:12',
                             '2017-03-17 10:20:22', '2017-03-17 10:12:04',
                             '2017-03-17 07:35:58'],
                             dtype='datetime64[ns]', name='Time', freq=None),
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ype='datetime64[ns]', name='Time', freq=None),
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 3,
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(2017, 3, 20): DatetimeIndex(['2017-03-20 21:03:36', '2017-03-20 15:1
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                             '2017-03-20 08:35:28'],
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                             '2017-03-21 15:02:31', '2017-03-21 00:18:20'],
                             dtype='datetime64[ns]', name='Time', freq=None),
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                             '2017-03-22 23:03:18', '2017-03-22 11:09:35'],
                             dtype='datetime64[ns]', name='Time', freq=None),
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                             '2017-03-23 13:16:24', '2017-03-23 10:18:33'],
                             dtype='datetime64[ns]', name='Time', freq=None),
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```

```
In [171]: len(year_month_day_group.groups)
```

```
Out[171]: 831
```

There have been 837 days between January 20, 2017 and May 6, 2019 so President Trump has only missed tweeting 6 days of his term thus far (837 - 831).

Tweets grouped by hour of day (0, 1, 2, ... , 22, 23)

```
In [255]: hour_group = twitter_log.groupby(twitter_log.index.hour)
```

```
In [256]: hour_group.groups
```

```

Out[256]: {0: DatetimeIndex(['2019-05-02 00:53:39', '2019-04-28 00:57:32',
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                             ...
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    12: DatetimeIndex(['2019-05-05 12:55:18', '2019-05-05 12:48:15',
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        '2019-04-29 12:55:09', '2019-04-29 12:51:03',
        '2019-04-29 12:42:12', '2019-04-29 12:32:39',
        '2019-04-26 12:25:28', '2019-04-25 12:35:11',
        ...,
        '2017-03-11 12:39:07', '2017-03-07 12:14:03',
        '2017-02-20 12:33:33', '2017-02-20 12:15:42',
        '2017-02-16 12:39:52', '2017-02-16 12:10:49',
        '2017-02-14 12:28:54', '2017-02-04 12:26:10',
        '2017-01-30 12:23:49', '2017-01-22 12:23:17'],
        dtype='datetime64[ns]', name='Time', length=458, freq=None),
    13: DatetimeIndex(['2019-05-05 13:59:36', '2019-05-03 13:18:50',
        '2019-04-29 13:20:34', '2019-04-29 13:06:11',
        '2019-04-23 13:47:42', '2019-04-20 13:52:34',
        '2019-04-15 13:33:56', '2019-04-15 13:33:36',
        '2019-04-11 13:35:36', '2019-04-11 13:20:19',
        ...,
        '2017-03-10 13:40:53', '2017-02-17 13:34:14',
        '2017-02-13 13:53:08', '2017-02-12 13:41:55',
        '2017-02-09 13:58:01', '2017-02-08 13:54:01',
        '2017-02-08 13:51:01', '2017-02-08 13:23:29',
        '2017-01-29 13:03:58', '2017-01-28 13:42:58'],
        dtype='datetime64[ns]', name='Time', length=326, freq=None),
    14: DatetimeIndex(['2019-05-05 14:08:46', '2019-05-05 14:08:46',
        '2019-05-03 14:22:14', '2019-05-02 14:56:07',
        '2019-05-02 14:29:22', '2019-05-02 14:29:21',
        '2019-04-30 14:31:50', '2019-04-30 14:31:49',
        '2019-04-27 14:41:38', '2019-04-27 14:30:13',
        ...,
        '2017-03-14 14:12:22', '2017-03-03 14:41:55',
        '2017-02-15 14:34:27', '2017-02-13 14:59:06',
        '2017-02-07 14:25:13', '2017-02-06 14:32:24',
        '2017-02-06 14:27:45', '2017-01-27 14:30:29',
        '2017-01-27 14:27:02', '2017-01-24 14:58:06'],
        dtype='datetime64[ns]', name='Time', length=316, freq=None),
    15: DatetimeIndex(['2019-05-04 15:53:42', '2019-05-04 15:00:12',
        '2019-05-03 15:06:31', '2019-05-03 15:06:31',
        '2019-04-30 15:56:57', '2019-04-27 15:05:36',
        '2019-04-26 15:34:33', '2019-04-25 15:17:56',
        '2019-04-23 15:34:42', '2019-04-22 15:47:14',
        ...,
        '2017-01-24 15:49:17', '2017-01-24 15:04:01',
        '2017-01-20 15:58:24', '2017-01-20 15:55:44',
        '2017-01-20 15:54:36', '2017-01-20 15:54:00',
        '2017-01-20 15:53:17', '2017-01-20 15:52:45',
        '2017-01-20 15:51:58', '2017-01-20 15:51:25'],
        dtype='datetime64[ns]', name='Time', length=280, freq=None)

```

```

ne),
16: DatetimeIndex(['2019-05-05 16:03:29', '2019-05-05 16:03:29',
                  '2019-05-04 16:31:06', '2019-04-30 16:23:28',
                  '2019-04-30 16:05:02', '2019-04-26 16:31:47',
                  '2019-04-25 16:11:16', '2019-04-25 16:09:25',
                  '2019-04-24 16:40:18', '2019-04-24 16:36:46',
                  ...
                  '2017-04-06 16:30:49', '2017-04-04 16:38:13',
                  '2017-03-31 16:30:38', '2017-03-21 16:12:05',
                  '2017-02-26 16:16:41', '2017-02-25 16:12:25',
                  '2017-02-13 16:50:57', '2017-02-11 16:28:31',
                  '2017-01-20 16:13:48', '2017-01-20 16:00:43'],
                  dtype='datetime64[ns]', name='Time', length=264, freq=None),
17: DatetimeIndex(['2019-05-03 17:39:10', '2019-04-26 17:13:29',
                  '2019-04-26 17:03:10', '2019-04-26 17:03:05',
                  '2019-04-24 17:48:32', '2019-04-22 17:41:59',
                  '2019-04-22 17:31:49', '2019-04-22 17:04:11',
                  '2019-04-14 17:10:18', '2019-04-10 17:45:55',
                  ...
                  '2017-04-04 17:38:59', '2017-04-03 17:39:05',
                  '2017-03-31 17:37:00', '2017-02-20 17:33:35',
                  '2017-02-15 17:45:16', '2017-02-15 17:17:59',
                  '2017-02-08 17:39:51', '2017-02-08 17:22:33',
                  '2017-01-26 17:21:17', '2017-01-26 17:15:44'],
                  dtype='datetime64[ns]', name='Time', length=320, freq=None),
18: DatetimeIndex(['2019-05-05 18:46:39', '2019-05-05 18:24:39',
                  '2019-05-05 18:22:10', '2019-05-05 18:21:41',
                  '2019-05-05 18:21:11', '2019-05-05 18:03:58',
                  '2019-05-05 18:01:49', '2019-05-02 18:55:09',
                  '2019-04-30 18:20:10', '2019-04-23 18:54:56',
                  ...
                  '2017-03-03 18:47:30', '2017-02-26 18:13:52',
                  '2017-02-21 18:46:42', '2017-02-18 18:26:31',
                  '2017-02-14 18:21:59', '2017-02-05 18:47:25',
                  '2017-02-05 18:42:33', '2017-02-05 18:39:05',
                  '2017-02-04 18:44:07', '2017-01-27 18:20:15'],
                  dtype='datetime64[ns]', name='Time', length=411, freq=None),
19: DatetimeIndex(['2019-05-05 19:26:47', '2019-05-05 19:26:47',
                  '2019-05-03 19:48:37', '2019-05-02 19:33:57',
                  '2019-04-30 19:09:13', '2019-04-30 19:09:13',
                  '2019-04-29 19:34:37', '2019-04-27 19:41:05',
                  '2019-04-22 19:35:18', '2019-04-22 19:30:57',
                  ...
                  '2017-02-19 19:57:01', '2017-02-17 19:48:22',
                  '2017-02-17 19:32:29', '2017-02-15 19:34:05',
                  '2017-02-14 19:48:10', '2017-02-08 19:46:14',
                  '2017-02-04 19:44:49', '2017-01-30 19:07:52',
                  '2017-01-29 19:49:32', '2017-01-29 19:45:58'],
                  dtype='datetime64[ns]', name='Time', length=370, freq=None),
20: DatetimeIndex(['2019-05-03 20:55:02', '2019-05-03 20:53:05',
                  '2019-04-27 20:47:01', '2019-04-27 20:14:25',
                  '2019-04-27 20:00:23', '2019-04-26 20:57:34',
                  '2019-04-23 20:43:34', '2019-04-21 20:35:16',

```



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        '2019-04-20 20:09:33', '2019-04-19 20:51:04',
        ...
        '2017-03-03 20:13:10', '2017-02-25 20:02:22',
        '2017-02-23 20:53:45', '2017-02-14 20:50:33',
        '2017-02-12 20:19:05', '2017-02-08 20:07:18',
        '2017-02-05 20:49:42', '2017-01-28 20:50:06',
        '2017-01-27 20:00:47', '2017-01-25 20:05:59'],
        dtype='datetime64[ns]', name='Time', length=390, freq=None),
    21: DatetimeIndex(['2019-05-03 21:45:22', '2019-05-03 21:25:35',
        '2019-05-03 21:23:13', '2019-04-30 21:21:16',
        '2019-04-29 21:13:49', '2019-04-27 21:46:06',
        '2019-04-24 21:01:43', '2019-04-22 21:59:38',
        '2019-04-22 21:58:58', '2019-04-22 21:58:28',
        ...
        '2017-02-09 21:35:49', '2017-02-06 21:33:52',
        '2017-02-04 21:37:59', '2017-02-03 21:08:38',
        '2017-01-29 21:39:53', '2017-01-29 21:28:50',
        '2017-01-27 21:46:22', '2017-01-26 21:53:37',
        '2017-01-26 21:45:28', '2017-01-21 21:54:31'],
        dtype='datetime64[ns]', name='Time', length=354, freq=None),
    22: DatetimeIndex(['2019-05-05 22:13:59', '2019-05-05 22:13:59',
        '2019-05-05 22:08:20', '2019-05-02 22:11:07',
        '2019-05-01 22:59:51', '2019-05-01 22:59:22',
        '2019-05-01 22:58:56', '2019-05-01 22:57:48',
        '2019-05-01 22:57:17', '2019-05-01 22:53:23',
        ...
        '2017-02-23 22:06:44', '2017-02-23 22:01:40',
        '2017-02-20 22:38:40', '2017-02-17 22:02:58',
        '2017-02-04 22:48:12', '2017-02-04 22:34:50',
        '2017-01-31 22:31:08', '2017-01-30 22:45:50',
        '2017-01-25 22:03:33', '2017-01-24 22:46:57'],
        dtype='datetime64[ns]', name='Time', length=332, freq=None),
    23: DatetimeIndex(['2019-05-04 23:49:24', '2019-05-04 23:49:05',
        '2019-05-04 23:48:39', '2019-05-04 23:45:40',
        '2019-05-04 23:44:39', '2019-05-03 23:52:31',
        '2019-05-02 23:01:02', '2019-05-01 23:58:10',
        '2019-05-01 23:01:44', '2019-05-01 23:00:19',
        ...
        '2017-03-27 23:26:04', '2017-03-26 23:04:42',
        '2017-03-22 23:33:54', '2017-03-22 23:04:32',
        '2017-03-22 23:03:18', '2017-02-28 23:42:16',
        '2017-02-28 23:30:49', '2017-02-08 23:05:53',
        '2017-02-07 23:04:00', '2017-01-31 23:01:03'],
        dtype='datetime64[ns]', name='Time', length=328, freq=None)
}

```

```
In [257]: len(hour_group.groups)
```

```
Out[257]: 24
```

There are indeed 24 hours in a day, and President Trump has tweeted during all of them.

Tweets grouped by minute of day (0, 1, 2 , ... , 1438, 1439)

```
In [258]: minute_group = twitter_log.groupby([twitter_log.index.hour, twitter_log.index.minute])
```

```
In [259]: minute_group.groups
```

```

Out[259]: {(0, 0): DatetimeIndex(['2019-04-10 00:00:46', '2019-03-21 00:00:05',
    '2019-01-23 00:00:56', '2018-11-05 00:00:06',
    '2018-01-31 00:00:02', '2017-11-30 00:00:23',
    '2017-08-26 00:00:33'],
    dtype='datetime64[ns]', name='Time', freq=None),
(0, 1): DatetimeIndex(['2019-01-01 00:01:26', '2018-10-30 00:01:38',
    '2018-07-31 00:01:02'],
    dtype='datetime64[ns]', name='Time', freq=None),
(0,
  2): DatetimeIndex(['2018-08-16 00:02:16', '2017-06-12 00:02:23'], dtype='datetime64[ns]', name='Time', freq=None),
(0, 3): DatetimeIndex(['2018-12-01 00:03:36', '2018-10-18 00:03:35',
    '2018-04-03 00:03:18', '2017-09-27 00:03:58',
    '2017-05-19 00:03:58', '2017-03-28 00:03:17'],
    dtype='datetime64[ns]', name='Time', freq=None),
(0, 4): DatetimeIndex(['2019-03-21 00:04:05', '2019-03-18 00:04:11',
    '2019-03-05 00:04:29', '2018-08-17 00:04:03',
    '2018-04-28 00:04:31'],
    dtype='datetime64[ns]', name='Time', freq=None),
(0, 5): DatetimeIndex(['2019-04-10 00:05:47', '2019-03-26 00:05:36',
    '2019-03-20 00:05:48', '2019-02-08 00:05:56',
    '2018-09-15 00:05:02', '2018-06-27 00:05:19'],
    dtype='datetime64[ns]', name='Time', freq=None),
(0, 6): DatetimeIndex(['2019-03-26 00:06:51', '2019-01-06 00:06:29',
    '2018-10-23 00:06:24', '2018-08-21 00:06:08',
    '2017-12-03 00:06:54', '2017-11-23 00:06:57',
    '2017-08-12 00:06:16'],
    dtype='datetime64[ns]', name='Time', freq=None),
(0, 7): DatetimeIndex(['2019-04-28 00:07:11', '2018-12-19 00:07:02',
    '2018-12-19 00:07:01', '2018-12-15 00:07:45',
    '2018-11-26 00:07:27', '2018-07-24 00:07:39',
    '2018-01-04 00:07:37', '2017-06-12 00:07:30'],
    dtype='datetime64[ns]', name='Time', freq=None),
(0, 8): DatetimeIndex(['2019-03-26 00:08:59', '2019-01-14 00:08:08',
    '2017-10-01 00:08:00'],
    dtype='datetime64[ns]', name='Time', freq=None),
(0, 9): DatetimeIndex(['2019-03-26 00:09:25', '2017-12-28 00:09:22',
    '2017-11-02 00:09:21', '2017-06-12 00:09:10'],
    dtype='datetime64[ns]', name='Time', freq=None),
(0,
  10): DatetimeIndex(['2019-03-05 00:10:34'], dtype='datetime64[ns]', name='Time', freq=None),
(0, 11): DatetimeIndex(['2018-12-11 00:11:21', '2018-10-30 00:11:37',
    '2018-01-04 00:11:31', '2017-11-16 00:11:45'],
    dtype='datetime64[ns]', name='Time', freq=None),
(0, 12): DatetimeIndex(['2018-06-22 00:12:34', '2018-04-19 00:12:13',
    '2017-04-06 00:12:43', '2017-03-30 00:12:09'],
    dtype='datetime64[ns]', name='Time', freq=None),
(0, 13): DatetimeIndex(['2019-04-02 00:13:25', '2018-10-23 00:13:36',
    '2018-08-25 00:13:13', '2018-01-04 00:13:16',
    '2017-12-03 00:13:28', '2017-10-28 00:13:28',
    '2017-07-03 00:13:07'],
    dtype='datetime64[ns]', name='Time', freq=None),
(0, 14): DatetimeIndex(['2019-01-19 00:14:44', '2019-01-19 00:14:11',
    '2018-11-06 00:14:58', '2017-11-16 00:14:35',
    '2017-11-08 00:14:20', '2017-06-12 00:14:29',
    '2017-01-26 00:14:56'],

```

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dtype='datetime64[ns]', name='Time', freq=None),
(0, 15): DatetimeIndex(['2019-01-06 00:15:10', '2018-11-20 00:15:22',
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                        '2017-10-06 00:15:36'],
dtype='datetime64[ns]', name='Time', freq=None),
(0, 16): DatetimeIndex(['2019-01-09 00:16:29', '2018-12-15 00:16:29',
                        '2017-10-06 00:16:32', '2017-01-25 00:16:19'],
dtype='datetime64[ns]', name='Time', freq=None),
(0, 17): DatetimeIndex(['2019-03-20 00:17:39', '2018-06-20 00:17:37',
                        '2017-12-10 00:17:25', '2017-09-27 00:17:15',
                        '2017-07-18 00:17:50'],
dtype='datetime64[ns]', name='Time', freq=None),
(0, 18): DatetimeIndex(['2019-01-19 00:18:18', '2019-01-19 00:18:14',
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                        '2018-06-27 00:18:31', '2018-01-21 00:18:51',
                        '2017-04-18 00:18:38', '2017-03-21 00:18:20'],
dtype='datetime64[ns]', name='Time', freq=None),
(0, 19): DatetimeIndex(['2018-08-29 00:19:58', '2018-05-10 00:19:02',
                        '2017-11-02 00:19:44', '2017-07-05 00:19:23',
                        '2017-07-04 00:19:02'],
dtype='datetime64[ns]', name='Time', freq=None),
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 20): DatetimeIndex(['2019-04-11 00:20:39', '2018-12-23 00:20:32'], dt
ype='datetime64[ns]', name='Time', freq=None),
(0, 21): DatetimeIndex(['2018-12-04 00:21:18', '2018-02-20 00:21:08',
                        '2017-11-20 00:21:24', '2017-11-14 00:21:14',
                        '2017-10-18 00:21:16', '2017-06-21 00:21:36'],
dtype='datetime64[ns]', name='Time', freq=None),
(0, 22): DatetimeIndex(['2019-04-10 00:22:07', '2019-03-22 00:22:31',
                        '2017-12-03 00:22:40', '2017-09-29 00:22:36',
                        '2017-09-14 00:22:57', '2017-03-03 00:22:49'],
dtype='datetime64[ns]', name='Time', freq=None),
(0, 23): DatetimeIndex(['2019-04-02 00:23:55', '2019-01-19 00:23:46',
                        '2018-11-02 00:23:20', '2018-10-04 00:23:11',
                        '2018-09-15 00:23:26', '2018-04-18 00:23:58',
                        '2017-11-30 00:23:14', '2017-09-20 00:23:52',
                        '2017-07-25 00:23:18'],
dtype='datetime64[ns]', name='Time', freq=None),
(0, 24): DatetimeIndex(['2019-03-05 00:24:38', '2018-12-06 00:24:40',
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dtype='datetime64[ns]', name='Time', freq=None),
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 25): DatetimeIndex(['2018-09-01 00:25:38', '2017-01-25 00:25:40'], dt
ype='datetime64[ns]', name='Time', freq=None),
(0,
 26): DatetimeIndex(['2018-08-29 00:26:35', '2018-04-18 00:26:57'], dt
ype='datetime64[ns]', name='Time', freq=None),
(0, 27): DatetimeIndex(['2018-09-16 00:27:07', '2018-08-30 00:27:24',
                        '2017-03-03 00:27:29'],
dtype='datetime64[ns]', name='Time', freq=None),
(0, 28): DatetimeIndex(['2019-01-29 00:28:49', '2018-12-25 00:28:40',
                        '2018-12-11 00:28:25', '2018-10-10 00:28:10',
                        '2018-08-23 00:28:45', '2018-01-20 00:28:56',
                        '2017-07-25 00:28:44'],
dtype='datetime64[ns]', name='Time', freq=None),
(0,
 29): DatetimeIndex(['2018-02-20 00:29:29'], dtype='datetime64[ns]', n

```

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ame='Time', freq=None),
(0, 30): DatetimeIndex(['2019-04-13 00:30:47', '2019-03-29 00:30:19',
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                        '2017-11-02 00:30:43', '2017-10-10 00:30:46'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(0, 31): DatetimeIndex(['2019-03-15 00:31:13', '2019-02-27 00:31:21',
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                        '2018-01-21 00:31:07', '2017-10-10 00:31:49',
                        '2017-09-20 00:31:19', '2017-06-27 00:31:16'],
                        dtype='datetime64[ns]', name='Time', freq=None),
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 32): DatetimeIndex(['2018-04-18 00:32:04'], dtype='datetime64[ns]', n
ame='Time', freq=None),
(0, 33): DatetimeIndex(['2019-04-11 00:33:10', '2018-01-21 00:33:09',
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                        '2017-06-23 00:33:37', '2017-06-21 00:33:40',
                        '2017-02-07 00:33:55'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(0, 34): DatetimeIndex(['2019-04-19 00:34:48', '2018-01-21 00:34:52',
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                        dtype='datetime64[ns]', name='Time', freq=None),
(0, 35): DatetimeIndex(['2019-04-13 00:35:03', '2018-09-01 00:35:28',
                        '2017-03-03 00:35:33'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(0, 36): DatetimeIndex(['2019-02-27 00:36:29', '2018-10-17 00:36:30',
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                        '2017-07-25 00:36:17'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(0, 37): DatetimeIndex(['2019-04-02 00:37:44', '2018-09-25 00:37:58',
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                        '2017-01-25 00:37:48'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(0, 38): DatetimeIndex(['2019-04-13 00:38:54', '2019-03-22 00:38:30',
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                        '2018-09-25 00:38:39', '2018-09-07 00:38:26',
                        '2018-04-30 00:38:00', '2018-03-27 00:38:07',
                        '2017-08-15 00:38:05', '2017-03-03 00:38:48'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(0, 39): DatetimeIndex(['2019-03-22 00:39:49', '2019-03-22 00:39:21',
                        '2018-10-17 00:39:24'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(0, 40): DatetimeIndex(['2019-03-28 00:40:30', '2019-03-21 00:40:55',
                        '2018-09-01 00:40:23', '2018-08-16 00:40:42',
                        '2017-09-03 00:40:24', '2017-04-29 00:40:11'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(0, 41): DatetimeIndex(['2019-03-29 00:41:35', '2018-06-11 00:41:02',
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                        '2017-06-21 00:41:23'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(0, 42): DatetimeIndex(['2019-04-13 00:42:07', '2019-01-18 00:42:41',
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                        '2017-05-10 00:42:52'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(0, 43): DatetimeIndex(['2019-01-11 00:43:00', '2018-11-02 00:43:46',
                        '2018-07-03 00:43:57', '2018-01-12 00:43:56',
                        '2017-07-28 00:43:30', '2017-02-28 00:43:03'],
                        dtype='datetime64[ns]', name='Time', freq=None),

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(0,
 44): DatetimeIndex(['2018-10-23 00:44:52'], dtype='datetime64[ns]', n
ame='Time', freq=None),
(0, 45): DatetimeIndex(['2019-04-13 00:45:25', '2018-10-21 00:45:20',
                        '2017-11-29 00:45:10', '2017-11-02 00:45:57',
                        '2017-01-26 00:45:32'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(0, 46): DatetimeIndex(['2019-01-29 00:46:02', '2019-01-22 00:46:23',
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        '2017-09-19 01:01:25', '2017-08-22 01:01:28',
        '2017-08-21 01:01:01'],
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        '2017-06-23 01:02:26'],
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        '2017-10-19 01:03:29'],
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        '2018-10-30 01:05:14', '2018-08-04 01:05:55',
        '2018-08-04 01:05:20', '2018-08-04 01:05:04',
        '2018-08-04 01:05:00', '2018-02-07 01:05:45'],
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(1, 9): DatetimeIndex(['2019-05-02 01:09:34', '2019-01-25 01:09:39',
        '2018-09-22 01:09:52', '2018-09-22 01:09:25',
        '2018-08-04 01:09:16', '2017-12-16 01:09:24',
        '2017-12-16 01:09:06', '2017-11-08 01:09:37',
        '2017-02-25 01:09:18'],
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        '2019-03-04 01:10:19', '2018-08-04 01:10:55',
        '2018-02-25 01:10:28'],
        dtype='datetime64[ns]', name='Time', freq=None),
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        '2017-08-15 01:11:23'],
        dtype='datetime64[ns]', name='Time', freq=None),
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                        '2018-09-22 01:13:26', '2018-04-21 01:13:07',
                        '2017-09-21 01:13:07'],
dtype='datetime64[ns]', name='Time', freq=None),
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dtype='datetime64[ns]', name='Time', freq=None),
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dtype='datetime64[ns]', name='Time', freq=None),
(1, 16): DatetimeIndex(['2019-02-15 01:16:23', '2019-02-01 01:16:58',
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ame='Time', freq=None),
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(1, 22): DatetimeIndex(['2019-01-19 01:22:44', '2019-01-19 01:22:29',
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                        '2018-02-09 01:22:53'],
dtype='datetime64[ns]', name='Time', freq=None),
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                        '2018-08-08 01:23:54', '2018-01-08 01:23:39',
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                        '2018-07-23 01:24:19', '2018-06-28 01:24:54',
                        '2018-06-28 01:24:54', '2018-06-21 01:24:35',
                        '2018-01-08 01:24:23'],
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        '2018-09-05 01:32:16', '2018-08-02 01:32:14',
        '2018-02-02 01:32:48'],
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        '2017-10-26 01:33:41'],
        dtype='datetime64[ns]', name='Time', freq=None),
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ame='Time', freq=None),
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        '2018-05-03 01:37:02', '2018-04-20 01:37:26'],
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47): DatetimeIndex(['2019-02-12 01:47:54', '2018-12-24 01:47:21'], dt
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'2018-01-05 02:04:20'],
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        '2017-12-13 02:08:41'],
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     15): DatetimeIndex(['2019-03-06 02:15:41'], dtype='datetime64[ns]', n
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    (2, 19): DatetimeIndex(['2019-03-10 02:19:53', '2018-11-20 02:19:18',
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        dtype='datetime64[ns]', name='Time', freq=None),
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        '2018-08-24 02:21:37'],
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        '2017-05-26 08:13:41', '2017-02-17 08:13:32'],
        dtype='datetime64[ns]', name='Time', freq=None),
(8, 14): DatetimeIndex(['2019-05-01 08:14:35', '2019-05-01 08:14:13',
        '2019-05-01 08:14:02', '2019-04-23 08:14:24',
        '2018-07-31 08:14:18', '2017-09-20 08:14:30',
        '2017-05-26 08:14:12'],
        dtype='datetime64[ns]', name='Time', freq=None),
(8, 15): DatetimeIndex(['2019-05-01 08:15:57', '2018-09-17 08:15:52',
        '2018-04-12 08:15:25', '2017-10-20 08:15:45',
        '2017-04-03 08:15:17'],
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(8, 16): DatetimeIndex(['2019-05-01 08:16:48', '2019-05-01 08:16:28',
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        '2018-07-03 08:16:51', '2018-06-08 08:16:39',
        '2018-03-28 08:16:26'],
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(8, 17): DatetimeIndex(['2019-05-01 08:17:51', '2019-05-01 08:17:41',
        '2019-05-01 08:17:21', '2019-05-01 08:17:13',
        '2019-05-01 08:17:01', '2018-08-24 08:17:34'],
        dtype='datetime64[ns]', name='Time', freq=None),
(8, 18): DatetimeIndex(['2019-05-01 08:18:13', '2019-05-01 08:18:08',
        '2019-04-23 08:18:42', '2017-10-10 08:18:34',
        '2017-08-16 08:18:14'],
        dtype='datetime64[ns]', name='Time', freq=None),
(8, 19): DatetimeIndex(['2018-03-22 08:19:57', '2017-09-22 08:19:36',
        '2017-08-17 08:19:39', '2017-07-12 08:19:32'],
        dtype='datetime64[ns]', name='Time', freq=None),
(8, 20): DatetimeIndex(['2019-03-25 08:20:12', '2017-09-14 08:20:58',
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(8, 21): DatetimeIndex(['2017-11-15 08:21:35', '2017-11-12 08:21:06',
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(8, 22): DatetimeIndex(['2018-05-04 08:22:31', '2017-11-15 08:22:33',
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23): DatetimeIndex(['2018-07-31 08:23:41', '2018-07-19 08:23:14'], dt
ype='datetime64[ns]', name='Time', freq=None),
(8, 24): DatetimeIndex(['2019-03-28 08:24:04', '2018-05-18 08:24:53',
        '2017-08-17 08:24:05'],
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(8, 25): DatetimeIndex(['2019-03-25 08:25:23', '2019-02-28 08:25:18',
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        '2017-11-22 08:25:22', '2017-11-15 08:25:48',
        '2017-11-07 08:25:31', '2017-10-04 08:25:58',
        '2017-08-25 08:25:06', '2017-06-05 08:25:02'],
        dtype='datetime64[ns]', name='Time', freq=None),
(8, 26): DatetimeIndex(['2019-03-25 08:26:39', '2019-03-25 08:26:33',
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(8, 28): DatetimeIndex(['2019-03-14 08:28:37', '2018-08-24 08:28:37',
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                        '2017-09-22 08:28:02', '2017-09-14 08:28:41',
                        '2017-09-10 08:28:19'],
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(8, 29): DatetimeIndex(['2019-04-15 08:29:27', '2018-07-31 08:29:59',
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                        '2017-08-04 08:29:11', '2017-06-05 08:29:08'],
dtype='datetime64[ns]', name='Time', freq=None),
(8, 30): DatetimeIndex(['2018-10-01 08:30:08', '2018-09-12 08:30:15',
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                        '2018-05-29 08:30:32', '2018-04-11 08:30:19',
                        '2017-11-15 08:30:58', '2017-10-10 08:30:28',
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(8, 31): DatetimeIndex(['2017-11-10 08:31:32', '2017-10-20 08:31:50',
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                        '2017-06-02 08:32:10', '2017-04-21 08:32:01'],
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(8, 33): DatetimeIndex(['2018-07-03 08:33:44', '2018-03-25 08:33:25',
                        '2017-11-22 08:33:28', '2017-09-10 08:33:42',
                        '2017-08-25 08:33:32', '2017-07-22 08:33:01',
                        '2017-06-27 08:33:42', '2017-06-02 08:33:37'],
dtype='datetime64[ns]', name='Time', freq=None),
(8, 34): DatetimeIndex(['2019-03-28 08:34:34', '2018-04-20 08:34:16',
                        '2018-04-03 08:34:18', '2017-10-05 08:34:12',
                        '2017-09-10 08:34:25', '2017-07-10 08:34:01',
                        '2017-06-02 08:34:42'],
dtype='datetime64[ns]', name='Time', freq=None),
(8, 35): DatetimeIndex(['2018-06-15 08:35:14', '2017-09-26 08:35:43',
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                        '2017-08-04 08:35:31', '2017-07-16 08:35:44',
                        '2017-06-13 08:35:55', '2017-06-02 08:35:32',
                        '2017-03-20 08:35:28'],
dtype='datetime64[ns]', name='Time', freq=None),
(8, 36): DatetimeIndex(['2019-05-01 08:36:14', '2017-10-11 08:36:37',
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dtype='datetime64[ns]', name='Time', freq=None),
(8, 37): DatetimeIndex(['2018-07-19 08:37:57', '2018-07-11 08:37:42',
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                        '2017-11-07 08:37:30', '2017-11-07 08:37:01',
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                        '2017-10-18 08:38:18', '2017-08-14 08:38:17',
                        '2017-08-07 08:38:32', '2017-07-25 08:38:11',
                        '2017-07-04 08:38:40', '2017-06-18 08:38:51',
                        '2017-04-26 08:38:51', '2017-04-18 08:38:59'],
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(8,
 39): DatetimeIndex(['2017-06-23 08:39:50'], dtype='datetime64[ns]', n
ame='Time', freq=None),
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                        '2017-07-12 08:40:32', '2017-07-10 08:40:16',
                        '2017-06-02 08:40:22', '2017-05-30 08:40:36',
                        '2017-05-04 08:40:33'],
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(8, 41): DatetimeIndex(['2018-09-25 08:41:20', '2018-06-22 08:41:35',
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                        '2017-08-08 08:41:59', '2017-06-06 08:41:25'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(8, 42): DatetimeIndex(['2018-07-10 08:42:43', '2018-04-24 08:42:47',
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                        '2018-03-02 08:42:42', '2017-10-10 08:42:23',
                        '2017-09-23 08:42:42', '2017-09-20 08:42:33',
                        '2017-09-15 08:42:55'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(8, 43): DatetimeIndex(['2019-03-28 08:43:13', '2018-04-20 08:43:17',
                        '2018-02-13 08:43:22', '2017-11-10 08:43:48',
                        '2017-06-06 08:43:17'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(8, 44): DatetimeIndex(['2019-04-23 08:44:33', '2019-03-14 08:44:56',
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                        '2018-03-07 08:44:26', '2017-10-05 08:44:19',
                        '2017-09-24 08:44:52', '2017-09-22 08:44:47',
                        '2017-09-20 08:44:06', '2017-08-25 08:44:17',
                        '2017-07-26 08:44:10', '2017-07-25 08:44:06',
                        '2017-06-13 08:44:16', '2017-06-05 08:44:18'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(8, 45): DatetimeIndex(['2018-05-23 08:45:37', '2018-05-04 08:45:31',
                        '2017-11-15 08:45:39', '2017-07-22 08:45:05',
                        '2017-05-31 08:45:27'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(8, 46): DatetimeIndex(['2019-05-06 08:46:01', '2019-05-06 08:46:01',
                        '2018-08-07 08:46:45', '2018-05-03 08:46:09',
                        '2018-01-26 08:46:48', '2017-10-05 08:46:02',
                        '2017-08-22 08:46:29', '2017-06-27 08:46:02',
                        '2017-06-18 08:46:35', '2017-04-18 08:46:19'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(8, 47): DatetimeIndex(['2018-05-01 08:47:30', '2018-04-11 08:47:37',
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                        '2017-09-20 08:47:35', '2017-09-06 08:47:01',
                        '2017-07-10 08:47:33'],
                        dtype='datetime64[ns]', name='Time', freq=None),
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        '2018-05-29 08:49:23', '2018-04-03 08:49:07',
        '2017-10-12 08:49:42', '2017-07-26 08:49:28',
        '2017-07-11 08:49:16', '2017-06-28 08:49:22',
        '2017-05-04 08:49:10', '2017-03-20 08:49:48'],
        dtype='datetime64[ns]', name='Time', freq=None),
(8, 50): DatetimeIndex(['2019-05-01 08:50:34', '2019-03-13 08:50:51',
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        '2018-07-31 08:50:28', '2018-04-20 08:50:38',
        '2018-03-02 08:50:34', '2017-10-09 08:50:34',
        '2017-09-23 08:50:14', '2017-04-21 08:50:33'],
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(8, 51): DatetimeIndex(['2018-09-12 08:51:59', '2018-06-05 08:51:07',
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        '2017-07-05 08:51:59', '2017-06-06 08:51:39',
        '2017-04-26 08:51:06'],
        dtype='datetime64[ns]', name='Time', freq=None),
(8, 52): DatetimeIndex(['2019-03-22 08:52:12', '2018-07-23 08:52:10',
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        '2017-07-25 08:52:27', '2017-07-24 08:52:39',
        '2017-07-22 08:52:00'],
        dtype='datetime64[ns]', name='Time', freq=None),
(8, 53): DatetimeIndex(['2018-10-01 08:53:28', '2018-09-25 08:53:41',
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        '2017-11-07 08:53:19', '2017-11-07 08:53:04',
        '2017-09-06 08:53:45'],
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(8, 54): DatetimeIndex(['2019-04-23 08:54:34', '2019-03-26 08:54:55',
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        '2018-09-26 08:54:59', '2018-06-22 08:54:51',
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        '2018-05-03 08:54:38', '2017-10-19 08:54:09',
        '2017-09-15 08:54:14', '2017-08-15 08:54:32',
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(8, 55): DatetimeIndex(['2018-08-21 08:55:03', '2018-06-15 08:55:40',
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        '2017-03-15 08:55:30'],
        dtype='datetime64[ns]', name='Time', freq=None),
(8, 56): DatetimeIndex(['2018-10-01 08:56:22', '2018-09-07 08:56:38',
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        '2018-05-31 08:56:33', '2017-11-07 08:56:55',
        '2017-10-18 08:56:36', '2017-09-27 08:56:53',
        '2017-08-17 08:56:33', '2017-08-09 08:56:36'],
        dtype='datetime64[ns]', name='Time', freq=None),
(8, 57): DatetimeIndex(['2018-09-26 08:57:30', '2018-07-12 08:57:06',
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                        '2017-10-27 08:58:36', '2017-10-12 08:58:53',
                        '2017-08-07 08:58:09', '2017-06-28 08:58:59'],
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(8, 59): DatetimeIndex(['2018-08-14 08:59:33', '2018-07-19 08:59:26',
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(9, 0): DatetimeIndex(['2018-07-31 09:00:41', '2018-06-22 09:00:36',
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(9, 1): DatetimeIndex(['2019-05-01 09:01:15', '2018-09-03 09:01:44',
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(9, 2): DatetimeIndex(['2019-01-30 09:02:54', '2018-08-30 09:02:16',
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(9, 3): DatetimeIndex(['2018-09-12 09:03:39', '2018-09-10 09:03:40',
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                        '2017-05-16 09:03:36'],
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(9, 4): DatetimeIndex(['2019-04-24 09:04:17', '2019-04-23 09:04:37',
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                        '2017-08-07 09:04:19', '2017-07-16 09:04:07',
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(9, 5): DatetimeIndex(['2018-10-25 09:05:12', '2018-09-20 09:05:16',
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                        '2017-10-07 09:05:56', '2017-09-14 09:05:55',
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                        '2017-07-29 09:07:18', '2017-05-04 09:07:35'],
dtype='datetime64[ns]', name='Time', freq=None),
(9, 8): DatetimeIndex(['2019-05-06 09:08:41', '2018-09-11 09:08:35',
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                        '2018-02-08 09:08:39', '2017-11-22 09:08:26',
                        '2017-10-14 09:08:32', '2017-10-14 09:08:00',
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(9, 9): DatetimeIndex(['2018-07-24 09:09:12', '2018-07-23 09:09:39',
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                        '2017-09-27 09:09:02', '2017-08-07 09:09:36',
                        '2017-05-04 09:09:26'],
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(9, 10): DatetimeIndex(['2018-09-10 09:10:27', '2018-08-24 09:10:13',
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dtype='datetime64[ns]', name='Time', freq=None),
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        '2017-09-21 13:15:19'],
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        '2018-01-02 13:16:38', '2017-03-23 13:16:24'],
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        '2018-08-04 13:18:53', '2017-12-08 13:18:27',
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        '2018-07-26 13:22:39', '2018-06-19 13:22:29',
        '2018-03-10 13:22:14'],
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        '2017-03-28 13:26:23'],
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        '2018-06-18 13:27:41', '2018-03-13 13:27:18',
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        '2018-10-31 13:28:57', '2018-09-03 13:28:33',
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        '2018-05-30 13:31:01', '2017-04-24 13:31:57'],
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        '2018-10-23 13:41:03', '2018-04-02 13:41:04',
        '2017-09-09 13:41:55', '2017-02-12 13:41:55'],
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(13,
55): DatetimeIndex(['2018-12-24 13:55:22', '2018-11-09 13:55:25'], dt
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(13, 56): DatetimeIndex(['2019-03-16 13:56:22', '2018-12-03 13:56:06',
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(17, 6): DatetimeIndex(['2018-11-10 17:06:50', '2018-04-24 17:06:57',
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(17, 7): DatetimeIndex(['2018-12-08 17:07:07', '2017-09-27 17:07:02',
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                        '2017-01-26 17:21:17'],
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        '2018-08-17 17:25:52', '2018-07-18 17:25:30',
        '2018-02-15 17:25:23'],
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        '2017-11-30 17:26:42', '2017-11-01 17:26:47',
        '2017-09-06 17:26:09', '2017-08-12 17:26:57'],
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(17, 27): DatetimeIndex(['2018-10-22 17:27:20', '2018-10-08 17:27:41',
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(17, 31): DatetimeIndex(['2019-04-22 17:31:49', '2019-01-09 17:31:29',
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        '2017-10-07 17:31:42', '2017-09-14 17:31:55',
        '2017-08-24 17:31:00', '2017-06-29 17:31:13'],
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(17, 32): DatetimeIndex(['2019-03-16 17:32:23', '2018-04-09 17:32:27',
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        '2017-05-05 17:32:08'],
        dtype='datetime64[ns]', name='Time', freq=None),
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ame='Time', freq=None),
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        '2018-09-10 17:35:06', '2018-07-29 17:35:14',
        '2018-05-23 17:35:18', '2018-05-22 17:35:34',
        '2017-12-18 17:35:38', '2017-06-03 17:35:33',
        '2017-05-11 17:35:22'],
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        '2018-06-06 17:37:37', '2017-03-31 17:37:00'],
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(17, 38): DatetimeIndex(['2019-03-27 17:38:55', '2019-03-27 17:38:55',
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        '2017-07-03 17:38:06', '2017-05-16 17:38:42',
        '2017-04-04 17:38:59'],
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        '2018-07-01 17:39:28', '2017-10-25 17:39:22',
        '2017-09-28 17:39:13', '2017-04-03 17:39:05',
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(17, 41): DatetimeIndex(['2019-04-22 17:41:59', '2019-03-28 17:41:11',
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        '2017-10-31 17:41:25'],
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  46): DatetimeIndex(['2018-02-17 17:46:48', '2017-08-26 17:46:30'], dt
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        '2018-03-28 17:47:02', '2017-09-01 17:47:23'],
        dtype='datetime64[ns]', name='Time', freq=None),
(17, 48): DatetimeIndex(['2019-04-24 17:48:32', '2019-01-14 17:48:31',
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                        '2017-09-30 17:55:20', '2017-07-04 17:55:28',
                        '2017-05-11 17:55:34', '2017-04-23 17:55:04'],
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                        '2017-04-08 17:58:32'],
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(17, 59): DatetimeIndex(['2019-04-02 17:59:57', '2018-11-18 17:59:41',
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                        '2017-09-26 18:11:48', '2017-07-23 18:11:11',
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                        '2017-08-07 18:15:18', '2017-07-24 18:15:25',
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        '2017-10-12 18:19:32', '2017-07-15 18:19:28',
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        '2018-09-21 18:21:27', '2018-04-19 18:21:16',
        '2017-02-14 18:21:59'],
        dtype='datetime64[ns]', name='Time', freq=None),
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        '2019-01-20 18:22:33', '2019-01-20 18:22:00',
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        '2018-05-18 18:22:25', '2017-04-21 18:22:14'],
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(18, 23): DatetimeIndex(['2019-03-20 18:23:04', '2018-11-30 18:23:09',
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(18, 24): DatetimeIndex(['2019-05-05 18:24:39', '2018-12-13 18:24:36',
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        '2018-09-21 18:24:14', '2018-08-02 18:24:33',
        '2018-03-30 18:24:56'],
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(18, 25): DatetimeIndex(['2019-01-03 18:25:18', '2018-09-21 18:25:20',
        '2018-06-23 18:25:06', '2018-06-21 18:25:24',
        '2018-04-20 18:25:13'],
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(18, 26): DatetimeIndex(['2018-09-21 18:26:58', '2018-09-15 18:26:44',
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        '2017-04-19 18:26:45', '2017-02-18 18:26:31'],
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(18, 27): DatetimeIndex(['2019-03-08 18:27:33', '2018-11-25 18:27:34',
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        '2018-04-19 18:27:01', '2017-12-23 18:27:05',
        '2017-12-14 18:27:00', '2017-06-19 18:27:27',
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(18, 28): DatetimeIndex(['2018-12-22 18:28:21', '2018-08-04 18:28:09',
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                        '2017-06-24 18:28:46'],
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(18, 29): DatetimeIndex(['2018-12-16 18:29:52', '2018-12-16 18:29:48',
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                        dtype='datetime64[ns]', name='Time', freq=None),
(18, 30): DatetimeIndex(['2019-03-08 18:30:48', '2018-09-15 18:30:46',
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(18, 31): DatetimeIndex(['2019-03-30 18:31:22', '2019-03-08 18:31:15',
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                        '2018-08-03 18:31:52', '2018-04-19 18:31:56',
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(18, 32): DatetimeIndex(['2019-01-20 18:32:11', '2018-05-27 18:32:33',
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                        dtype='datetime64[ns]', name='Time', freq=None),
(18, 33): DatetimeIndex(['2019-04-05 18:33:09', '2018-11-13 18:33:18',
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                        '2018-05-08 18:33:39', '2017-11-02 18:33:18',
                        '2017-10-27 18:33:50', '2017-10-07 18:33:31'],
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(18, 34): DatetimeIndex(['2019-02-18 18:34:14', '2019-01-09 18:34:46',
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                        '2017-06-19 18:34:11', '2017-05-11 18:34:25'],
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(18, 35): DatetimeIndex(['2019-03-09 18:35:24', '2018-12-26 18:35:25',
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                        '2017-06-19 18:35:37'],
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(18, 36): DatetimeIndex(['2019-03-30 18:36:30', '2019-03-26 18:36:53',
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                        '2019-01-04 18:36:38', '2018-09-29 18:36:43',
                        '2018-02-11 18:36:08', '2017-07-29 18:36:52',
                        '2017-05-17 18:36:02'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(18, 37): DatetimeIndex(['2019-04-18 18:37:57', '2019-03-09 18:37:14',
                        '2019-03-09 18:37:14', '2019-01-14 18:37:44',
                        '2018-12-16 18:37:17', '2018-06-05 18:37:50',
                        '2018-05-04 18:37:47', '2018-03-05 18:37:51',
                        '2017-09-30 18:37:10'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(18, 38): DatetimeIndex(['2019-03-08 18:38:16', '2019-01-14 18:38:19',
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                        dtype='datetime64[ns]', name='Time', freq=None),
(18, 39): DatetimeIndex(['2018-12-27 18:39:59', '2018-11-25 18:39:26',
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'2018-05-25 18:39:26', '2017-08-07 18:39:46',  
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(18, 40): DatetimeIndex(['2018-09-04 18:40:28', '2018-06-12 18:40:28',  
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    '2017-10-19 18:40:21'],  
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(18, 41): DatetimeIndex(['2018-09-15 18:41:45', '2018-09-04 18:41:38',  
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    '2017-08-19 18:41:15', '2017-06-13 18:41:37',  
    '2017-04-14 18:41:25'],  
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(18, 42): DatetimeIndex(['2019-03-24 18:42:19', '2018-10-13 18:42:22',  
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    '2018-07-07 18:42:48', '2018-06-04 18:42:19',  
    '2018-02-05 18:42:01', '2018-01-07 18:42:13',  
    '2017-10-18 18:42:05', '2017-08-11 18:42:45',  
    '2017-02-05 18:42:33'],  
    dtype='datetime64[ns]', name='Time', freq=None),  
(18, 43): DatetimeIndex(['2019-04-09 18:43:35', '2018-11-15 18:43:42',  
    '2018-09-23 18:43:52', '2018-09-15 18:43:58',  
    '2018-06-09 18:43:08', '2017-09-26 18:43:27'],  
    dtype='datetime64[ns]', name='Time', freq=None),  
(18, 44): DatetimeIndex(['2018-09-24 18:44:24', '2018-09-04 18:44:49',  
    '2017-07-03 18:44:27', '2017-06-24 18:44:36',  
    '2017-02-04 18:44:07'],  
    dtype='datetime64[ns]', name='Time', freq=None),  
(18, 45): DatetimeIndex(['2019-03-08 18:45:41', '2018-06-21 18:45:32',  
    '2018-04-17 18:45:36', '2018-01-18 18:45:33',  
    '2017-09-05 18:45:27', '2017-07-06 18:45:21',  
    '2017-06-05 18:45:05'],  
    dtype='datetime64[ns]', name='Time', freq=None),  
(18, 46): DatetimeIndex(['2019-05-05 18:46:39', '2019-04-22 18:46:12',  
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    '2018-07-04 18:46:00', '2018-06-21 18:46:44',  
    '2018-06-21 18:46:10', '2018-05-14 18:46:25',  
    '2017-02-21 18:46:42'],  
    dtype='datetime64[ns]', name='Time', freq=None),  
(18, 47): DatetimeIndex(['2019-04-19 18:47:34', '2018-09-26 18:47:16',  
    '2017-12-22 18:47:43', '2017-12-22 18:47:15',  
    '2017-03-03 18:47:30', '2017-02-05 18:47:25'],  
    dtype='datetime64[ns]', name='Time', freq=None),  
(18, 48): DatetimeIndex(['2019-04-06 18:48:40', '2019-03-27 18:48:47',  
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    '2018-02-12 18:48:16', '2017-08-07 18:48:54',  
    '2017-03-03 18:48:21'],  
    dtype='datetime64[ns]', name='Time', freq=None),  
(18, 49): DatetimeIndex(['2019-01-05 18:49:27', '2018-07-31 18:49:25',  
    '2018-06-28 18:49:55', '2017-07-28 18:49:51',  
    '2017-04-26 18:49:16', '2017-03-03 18:49:53'],  
    dtype='datetime64[ns]', name='Time', freq=None),  
(18, 50): DatetimeIndex(['2019-03-08 18:50:22', '2018-08-28 18:50:34',  
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    '2018-02-14 18:50:11', '2017-06-24 18:50:56'],  
    dtype='datetime64[ns]', name='Time', freq=None),
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(18, 51): DatetimeIndex(['2019-03-20 18:51:41', '2019-02-13 18:51:14',
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                        dtype='datetime64[ns]', name='Time', freq=None),
(18, 52): DatetimeIndex(['2019-03-18 18:52:32', '2019-03-08 18:52:15',
                        '2019-03-08 18:52:06', '2019-01-26 18:52:38',
                        '2018-09-23 18:52:37', '2018-04-07 18:52:58',
                        '2017-12-07 18:52:49', '2017-06-10 18:52:00'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(18, 53): DatetimeIndex(['2019-03-04 18:53:21', '2018-09-17 18:53:51',
                        '2018-08-04 18:53:39', '2018-06-12 18:53:38',
                        '2018-06-12 18:53:37', '2018-01-19 18:53:17'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(18, 54): DatetimeIndex(['2019-04-23 18:54:56', '2019-03-05 18:54:27',
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                        '2017-09-15 18:54:52', '2017-07-28 18:54:43',
                        '2017-07-26 18:54:14', '2017-07-03 18:54:08'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(18, 55): DatetimeIndex(['2019-05-02 18:55:09', '2018-11-11 18:55:38',
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                        '2018-02-14 18:55:01', '2017-06-30 18:55:44',
                        '2017-03-15 18:55:52'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(18, 56): DatetimeIndex(['2018-12-16 18:56:33', '2018-12-07 18:56:17',
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                        '2018-06-09 18:56:33', '2018-05-11 18:56:25',
                        '2017-04-18 18:56:16'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(18, 57): DatetimeIndex(['2019-03-20 18:57:57', '2019-03-18 18:57:23',
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                        '2018-07-25 18:57:24', '2018-06-09 18:57:12',
                        '2018-06-02 18:57:30', '2017-05-03 18:57:56',
                        '2017-03-28 18:57:17', '2017-03-13 18:57:02'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(18, 58): DatetimeIndex(['2019-03-17 18:58:32', '2018-07-22 18:58:44',
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                        dtype='datetime64[ns]', name='Time', freq=None),
(18,
 59): DatetimeIndex(['2018-11-05 18:59:42'], dtype='datetime64[ns]', name='Time', freq=None),
(19, 0): DatetimeIndex(['2018-05-17 19:00:12', '2018-04-18 19:00:12',
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                        '2017-02-20 19:00:37'],
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(19, 1): DatetimeIndex(['2019-03-16 19:01:21', '2018-10-10 19:01:55',
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(19, 3): DatetimeIndex(['2019-03-01 19:03:14', '2019-03-01 19:03:13',
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                        '2017-08-25 19:03:11', '2017-04-04 19:03:51'],
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        '2018-08-01 19:04:18', '2018-06-02 19:04:34',
        '2018-01-18 19:04:36'],
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(19, 5): DatetimeIndex(['2019-02-20 19:05:41', '2019-01-05 19:05:59',
        '2018-11-03 19:05:26', '2018-10-10 19:05:08'],
        dtype='datetime64[ns]', name='Time', freq=None),
(19, 6): DatetimeIndex(['2019-03-28 19:06:28', '2018-12-29 19:06:08',
        '2018-10-13 19:06:19', '2017-06-28 19:06:39'],
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(19, 7): DatetimeIndex(['2019-03-16 19:07:46', '2018-02-24 19:07:43',
        '2017-12-02 19:07:59', '2017-06-18 19:07:12',
        '2017-01-30 19:07:52'],
        dtype='datetime64[ns]', name='Time', freq=None),
(19, 8): DatetimeIndex(['2018-09-08 19:08:41', '2018-05-12 19:08:55',
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        dtype='datetime64[ns]', name='Time', freq=None),
(19, 9): DatetimeIndex(['2019-04-30 19:09:13', '2019-04-30 19:09:13',
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        '2018-06-02 19:09:20', '2018-05-14 19:09:16',
        '2017-10-28 19:09:57', '2017-10-28 19:09:00',
        '2017-05-12 19:09:32'],
        dtype='datetime64[ns]', name='Time', freq=None),
(19, 10): DatetimeIndex(['2018-11-09 19:10:46', '2018-09-05 19:10:01',
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        '2018-07-11 19:10:46', '2018-07-11 19:10:31',
        '2018-07-11 19:10:24', '2018-07-11 19:10:11',
        '2017-12-07 19:10:28', '2017-10-28 19:10:36',
        '2017-10-20 19:10:37', '2017-07-03 19:10:25',
        '2017-06-12 19:10:10'],
        dtype='datetime64[ns]', name='Time', freq=None),
(19, 11): DatetimeIndex(['2018-07-11 19:11:54', '2018-07-11 19:11:36',
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(19, 12): DatetimeIndex(['2019-03-21 19:12:05', '2018-12-22 19:12:02',
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        '2017-08-25 19:12:08'],
        dtype='datetime64[ns]', name='Time', freq=None),
(19, 13): DatetimeIndex(['2018-12-27 19:13:15', '2018-03-12 19:13:12',
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(19, 14): DatetimeIndex(['2019-04-19 19:14:33', '2019-02-03 19:14:39',
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        '2017-12-06 19:14:41', '2017-11-22 19:14:41',
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(19, 15): DatetimeIndex(['2018-05-31 19:15:36', '2017-11-06 19:15:32',
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(19, 16): DatetimeIndex(['2019-03-15 19:16:15', '2018-08-01 19:16:11',
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        '2017-05-12 19:16:56'],
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(19, 17): DatetimeIndex(['2018-10-02 19:17:08', '2017-10-27 19:17:31',
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(19, 18): DatetimeIndex(['2018-12-23 19:18:49', '2018-09-10 19:18:22',
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                        '2017-10-11 19:18:49', '2017-09-22 19:18:37',
                        '2017-04-05 19:18:08', '2017-03-30 19:18:57'],
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(19, 19): DatetimeIndex(['2018-07-03 19:19:04', '2018-05-31 19:19:34',
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                        '2017-03-06 19:19:04'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 20): DatetimeIndex(['2018-11-13 19:20:48', '2018-10-02 19:20:05',
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                        '2018-03-14 19:20:42', '2017-12-14 19:20:51',
                        '2017-03-30 19:20:44'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 21): DatetimeIndex(['2018-12-13 19:21:33', '2017-10-21 19:21:08',
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(19, 22): DatetimeIndex(['2019-03-17 19:22:40', '2019-03-16 19:22:25',
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                        '2018-05-28 19:22:15', '2017-10-03 19:22:19',
                        '2017-03-06 19:22:15'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 23): DatetimeIndex(['2019-04-19 19:23:10', '2019-04-11 19:23:33',
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                        '2019-02-09 19:23:44', '2018-08-29 19:23:10',
                        '2018-08-29 19:23:10', '2018-08-29 19:23:09',
                        '2018-08-29 19:23:08', '2018-06-12 19:23:18',
                        '2018-06-02 19:23:15', '2017-06-24 19:23:52'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19,
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(19, 25): DatetimeIndex(['2019-03-20 19:25:57', '2019-03-17 19:25:35',
                        '2018-08-17 19:25:20', '2018-03-14 19:25:58',
                        '2017-11-22 19:25:11', '2017-06-05 19:25:16'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 26): DatetimeIndex(['2019-05-05 19:26:47', '2019-05-05 19:26:47',
                        '2019-03-08 19:26:51', '2018-12-27 19:26:10',
                        '2018-11-22 19:26:12', '2018-11-05 19:26:24',
                        '2018-07-03 19:26:01', '2017-06-28 19:26:27'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 27): DatetimeIndex(['2018-07-08 19:27:17', '2018-06-11 19:27:21',
                        '2018-05-19 19:27:48', '2018-05-17 19:27:52',
                        '2017-10-14 19:27:22'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 28): DatetimeIndex(['2019-03-19 19:28:55', '2019-03-08 19:28:49',
                        '2019-02-09 19:28:12', '2018-09-16 19:28:46',
                        '2018-06-25 19:28:06', '2017-11-06 19:28:20',
                        '2017-10-14 19:28:34', '2017-06-18 19:28:25'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 29): DatetimeIndex(['2018-10-05 19:29:54', '2018-10-05 19:29:49',
                        '2018-07-18 19:29:06', '2018-03-10 19:29:37',
                        '2017-11-26 19:29:46', '2017-10-26 19:29:52',
                        '2017-10-14 19:29:38'],
                        dtype='datetime64[ns]', name='Time', freq=None),

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```

(19, 30): DatetimeIndex(['2019-04-22 19:30:57', '2019-04-19 19:30:39',
                        '2019-03-27 19:30:32', '2019-03-08 19:30:25',
                        '2018-10-12 19:30:27', '2018-08-10 19:30:43',
                        '2018-07-18 19:30:19', '2017-10-31 19:30:04'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 31): DatetimeIndex(['2019-04-18 19:31:51', '2019-03-26 19:31:16',
                        '2019-03-17 19:31:42', '2019-03-17 19:31:06',
                        '2018-11-21 19:31:24', '2018-03-28 19:31:54',
                        '2018-03-28 19:31:08', '2018-03-01 19:31:32',
                        '2018-01-10 19:31:30', '2017-03-31 19:31:44'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 32): DatetimeIndex(['2019-02-17 19:32:33', '2018-08-21 19:32:31',
                        '2018-04-18 19:32:53', '2017-11-22 19:32:18',
                        '2017-10-11 19:32:07', '2017-06-23 19:32:29',
                        '2017-02-17 19:32:29'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 33): DatetimeIndex(['2019-05-02 19:33:57', '2018-09-24 19:33:33',
                        '2017-07-24 19:33:25'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 34): DatetimeIndex(['2019-04-29 19:34:37', '2019-03-17 19:34:16',
                        '2019-03-17 19:34:13', '2019-03-16 19:34:52',
                        '2019-03-16 19:34:21', '2019-03-16 19:34:18',
                        '2019-03-16 19:34:15', '2019-03-16 19:34:04',
                        '2019-02-09 19:34:15', '2018-10-09 19:34:50',
                        '2018-09-14 19:34:15', '2018-07-18 19:34:12',
                        '2018-04-17 19:34:23', '2018-04-17 19:34:23',
                        '2018-02-28 19:34:16', '2017-09-26 19:34:20',
                        '2017-02-15 19:34:05'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 35): DatetimeIndex(['2019-04-22 19:35:18', '2019-04-12 19:35:31',
                        '2019-03-18 19:35:35', '2018-11-13 19:35:42',
                        '2018-10-22 19:35:03', '2018-07-03 19:35:38',
                        '2018-07-03 19:35:11', '2018-05-05 19:35:50',
                        '2017-08-16 19:35:16', '2017-04-20 19:35:05'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 36): DatetimeIndex(['2019-03-17 19:36:53', '2019-03-17 19:36:33',
                        '2019-03-17 19:36:00', '2017-08-09 19:36:44',
                        '2017-07-27 19:36:51'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 37): DatetimeIndex(['2019-04-10 19:37:40', '2019-01-26 19:37:07',
                        '2017-06-29 19:37:02'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 38): DatetimeIndex(['2019-03-17 19:38:26', '2017-08-04 19:38:39',
                        '2017-07-01 19:38:32', '2017-05-09 19:38:51'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 39): DatetimeIndex(['2019-02-09 19:39:09', '2018-10-09 19:39:22',
                        '2018-09-07 19:39:37', '2017-03-29 19:39:01'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 40): DatetimeIndex(['2019-01-31 19:40:02', '2019-01-31 19:40:01',
                        '2018-11-05 19:40:04', '2018-09-16 19:40:19',
                        '2018-09-14 19:40:28', '2018-06-01 19:40:50'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 41): DatetimeIndex(['2019-04-27 19:41:05', '2019-04-19 19:41:10',
                        '2019-04-10 19:41:06', '2019-03-29 19:41:20',
                        '2019-02-05 19:41:35', '2018-10-27 19:41:35',
                        '2018-10-27 19:41:35', '2018-08-06 19:41:20',
                        '2018-06-06 19:41:09', '2017-10-07 19:41:01'],

```

```

dtype='datetime64[ns]', name='Time', freq=None),
(19, 42): DatetimeIndex(['2019-04-19 19:42:51', '2018-11-21 19:42:30',
                        '2018-09-14 19:42:32', '2017-04-27 19:42:47'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 43): DatetimeIndex(['2018-09-14 19:43:43', '2018-07-26 19:43:13',
                        '2017-08-11 19:43:10', '2017-06-15 19:43:14',
                        '2017-03-16 19:43:07'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 44): DatetimeIndex(['2019-04-19 19:44:40', '2019-03-17 19:44:57',
                        '2019-03-17 19:44:17', '2019-02-09 19:44:42',
                        '2018-09-21 19:44:11', '2018-08-06 19:44:00',
                        '2017-12-20 19:44:50', '2017-09-09 19:44:16',
                        '2017-02-04 19:44:49'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 45): DatetimeIndex(['2019-03-17 19:45:18', '2019-01-04 19:45:27',
                        '2018-09-05 19:45:54', '2017-01-29 19:45:58'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 46): DatetimeIndex(['2019-04-20 19:46:09', '2019-02-10 19:46:19',
                        '2018-09-24 19:46:22', '2018-08-06 19:46:47',
                        '2017-04-14 19:46:20', '2017-02-08 19:46:14'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19,
 47): DatetimeIndex(['2018-11-16 19:47:55', '2018-10-26 19:47:16'], dt
ype='datetime64[ns]', name='Time', freq=None),
(19, 48): DatetimeIndex(['2019-05-03 19:48:37', '2019-04-20 19:48:05',
                        '2018-12-20 19:48:15', '2018-07-02 19:48:02',
                        '2017-11-25 19:48:16', '2017-04-12 19:48:48',
                        '2017-03-28 19:48:40', '2017-02-27 19:48:21',
                        '2017-02-17 19:48:22', '2017-02-14 19:48:10'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 49): DatetimeIndex(['2018-12-07 19:49:01', '2018-04-10 19:49:56',
                        '2018-04-03 19:49:14', '2017-12-01 19:49:27',
                        '2017-08-12 19:49:47', '2017-06-22 19:49:07',
                        '2017-04-22 19:49:10', '2017-01-29 19:49:32'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 50): DatetimeIndex(['2019-03-09 19:50:23', '2018-07-20 19:50:30',
                        '2017-11-30 19:50:33', '2017-11-07 19:50:07'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 51): DatetimeIndex(['2019-03-17 19:51:27', '2018-10-23 19:51:51',
                        '2018-08-18 19:51:11', '2018-07-20 19:51:11',
                        '2018-06-21 19:51:07', '2017-10-17 19:51:34',
                        '2017-06-18 19:51:39', '2017-05-21 19:51:53'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 52): DatetimeIndex(['2018-09-10 19:52:11', '2018-08-05 19:52:57',
                        '2018-06-11 19:52:36', '2017-06-18 19:52:26',
                        '2017-05-31 19:52:54'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 53): DatetimeIndex(['2019-01-06 19:53:57', '2018-09-17 19:53:11',
                        '2018-08-06 19:53:42', '2018-08-05 19:53:11',
                        '2018-07-11 19:53:26', '2018-05-28 19:53:56',
                        '2018-05-17 19:53:51', '2017-06-19 19:53:56',
                        '2017-02-25 19:53:21'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 54): DatetimeIndex(['2019-02-10 19:54:00', '2019-01-30 19:54:12',
                        '2018-11-02 19:54:06', '2018-09-20 19:54:39',
                        '2018-06-20 19:54:38', '2017-05-11 19:54:24',
                        '2017-03-16 19:54:02'],

```

```

dtype='datetime64[ns]', name='Time', freq=None),
(19, 55): DatetimeIndex(['2019-04-20 19:55:17', '2019-03-17 19:55:11',
                        '2018-04-17 19:55:25', '2018-04-17 19:55:04'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19,
 56): DatetimeIndex(['2017-10-17 19:56:08', '2017-07-07 19:56:53'], dt
ype='datetime64[ns]', name='Time', freq=None),
(19, 57): DatetimeIndex(['2019-04-15 19:57:02', '2019-01-21 19:57:59',
                        '2018-10-06 19:57:09', '2017-02-19 19:57:01'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 58): DatetimeIndex(['2019-04-15 19:58:34', '2019-01-30 19:58:38',
                        '2019-01-30 19:58:38', '2018-07-08 19:58:52',
                        '2018-05-04 19:58:44', '2017-12-15 19:58:12'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(19, 59): DatetimeIndex(['2019-02-03 19:59:03', '2018-12-30 19:59:44',
                        '2018-10-09 19:59:52', '2018-10-09 19:59:51',
                        '2018-05-04 19:59:28', '2017-10-03 19:59:58',
                        '2017-09-23 19:59:04', '2017-04-10 19:59:10'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(20, 0): DatetimeIndex(['2019-04-27 20:00:23', '2018-08-03 20:00:39',
                        '2018-05-18 20:00:58', '2017-12-31 20:00:21',
                        '2017-11-25 20:00:11', '2017-08-13 20:00:47',
                        '2017-01-27 20:00:47'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(20, 1): DatetimeIndex(['2019-01-13 20:01:21', '2018-08-26 20:01:33',
                        '2017-12-09 20:01:44', '2017-10-13 20:01:57',
                        '2017-08-13 20:01:17', '2017-05-03 20:01:42'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(20, 2): DatetimeIndex(['2019-04-07 20:02:04', '2019-04-07 20:02:03',
                        '2019-02-09 20:02:33', '2018-10-12 20:02:19',
                        '2018-05-12 20:02:55', '2017-07-01 20:02:27',
                        '2017-07-01 20:02:12', '2017-02-25 20:02:22'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(20, 3): DatetimeIndex(['2019-02-11 20:03:25', '2019-02-03 20:03:11',
                        '2018-11-29 20:03:52', '2018-10-17 20:03:52',
                        '2018-10-15 20:03:23', '2018-06-15 20:03:07',
                        '2017-11-01 20:03:27', '2017-11-01 20:03:19',
                        '2017-08-13 20:03:32'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(20, 4): DatetimeIndex(['2019-03-09 20:04:22', '2019-03-06 20:04:13',
                        '2019-02-10 20:04:48', '2018-08-18 20:04:48',
                        '2018-06-11 20:04:01', '2018-06-07 20:04:04',
                        '2017-09-19 20:04:11'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(20,
 5): DatetimeIndex(['2017-01-25 20:05:59'], dtype='datetime64[ns]', na
me='Time', freq=None),
(20, 6): DatetimeIndex(['2018-09-25 20:06:33', '2018-08-05 20:06:42',
                        '2018-06-23 20:06:58'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(20, 7): DatetimeIndex(['2018-09-17 20:07:35', '2018-08-31 20:07:25',
                        '2018-08-27 20:07:50', '2018-08-27 20:07:45',
                        '2017-02-08 20:07:18'],
                        dtype='datetime64[ns]', name='Time', freq=None),
(20, 8): DatetimeIndex(['2019-01-21 20:08:55', '2018-09-15 20:08:30',
                        '2018-01-13 20:08:34', '2017-10-28 20:08:30',
                        '2017-07-01 20:08:37'],

```

```
dtype='datetime64[ns]', name='Time', freq=None),  
(20, 9): DatetimeIndex(['2019-04-20 20:09:33', '2018-12-11 20:09:04',  
                        '2017-08-14 20:09:09'],  
                        dtype='datetime64[ns]', name='Time', freq=None),  
...}
```

```
In [260]: len(minute_group.groups)
```

```
Out[260]: 1229
```

As there are 1,440 minutes in a day (24 hours * 60 minutes/hour), President Trump has not tweeted during 211 minutes of the 24-hour day (1,440 - 1,229).

Also, I have grouped the time intervals to my satisfaction in terms of granularity (i.e. I have no need to group by the second).

Now to count the number of tweets President Trump has created per day...

Daily Tweet Count

```
In [454]: day_tweet_count = twitter_log.groupby([twitter_log.index.year, twitter_log.index.month, twitter_log.index.day]).count()
```

```
In [455]: day_tweet_count
```

Out[455]:

			Retweet_Count	Favorite_Count	Is_Retweet	ID_Str
Time	Time	Time				
2017	1	20	11	11	11	11
		21	3	3	3	3
		22	4	4	4	4
		23	1	1	1	1
		24	5	5	5	5
		25	8	8	8	8
		26	10	10	10	10
		27	7	7	7	7
		28	5	5	5	5
		29	7	7	7	7
		30	8	8	8	8
		31	4	4	4	4
	2	1	2	2	2	2
		2	8	8	8	8
		3	7	7	7	7
		4	11	11	11	11
		5	4	4	4	4
		6	6	6	6	6
		7	6	6	6	6
		8	11	11	11	11
		9	7	7	7	7
		10	3	3	3	3
		11	9	9	9	9
		12	9	9	9	9
		13	3	3	3	3
		14	6	6	6	6
		15	11	11	11	11
		16	6	6	6	6
		17	9	9	9	9
		18	3	3	3	3
...
2019	4	7	8	8	8	8
		8	8	8	8	8

		Retweet_Count	Favorite_Count	Is_Retweet	ID_Str
Time	Time	Time			
		9	19	19	19
		10	11	11	11
		11	15	15	15
		12	9	9	9
		13	21	21	21
		14	10	10	10
		15	16	16	16
		16	10	10	10
		17	8	8	8
		18	21	21	21
		19	14	14	14
		20	19	19	19
		21	11	11	11
		22	42	42	42
		23	20	20	20
		24	16	16	16
		25	22	22	22
		26	11	11	11
		27	11	11	11
		28	7	7	7
		29	13	13	13
		30	9	9	9
5	1	81	81	81	81
	2	13	13	13	13
	3	20	20	20	20
	4	27	27	27	27
	5	28	28	28	28
	6	9	9	9	9

831 rows × 4 columns

Each column is displaying the tweet count for the day. When plotting the count, I will call the "ID_Str" column so as to not confuse with the other, more meaningful columns.


```
In [456]: def multi_to_single(df):

df["year"] = df.index.get_level_values(0)

df["month"] = df.index.get_level_values(1)

df["day"] = df.index.get_level_values(2)

df["date"] = pd.to_datetime(df[["year", "month", "day"]])
```

The above function converts the multi-index datetime index for a dataframe to a single column that can be called on easily for row searches (with '.loc' function) or to plot using time as the independent variable.

```
In [457]: multi_to_single(day_tweet_count)
```

```
In [458]: day_tweet_count.head()
```

Out[458]:

			Retweet_Count	Favorite_Count	Is_Retweet	ID_Str	year	month	day	date
Time	Time	Time								
2017	1	20	11	11	11	11	2017	1	20	2017-01-20
		21	3	3	3	3	2017	1	21	2017-01-21
		22	4	4	4	4	2017	1	22	2017-01-22
		23	1	1	1	1	2017	1	23	2017-01-23
		24	5	5	5	5	2017	1	24	2017-01-24

Graphing Mean Tweet Count per Week

Grouping by week provides the clearest picture with granularity.

```

In [539]: info = day_tweet_count.groupby([pd.Grouper(key="date", freq="W")]).mean()

fig, ax = plt.subplots(figsize = (28,14))

width = 5.8

ax.bar(info.index, info.ID_Str, width, color = 'mediumblue')
ax.bar(info.ID_Str.loc["2018-11"].index[0],
        info.ID_Str.loc["2018-11"][0], width, color = 'firebrick')
ax.bar(info.ID_Str.loc["2019-5"].index[0],
        info.ID_Str.loc["2019-5"][0], width, color = 'firebrick')

plt.axhline(y = info.ID_Str.mean(), label = 'Average of Mean No. of Tweets per Week', linewidth = 5, color = 'gold')

ax.set_title("Mean Number of Tweets per Week versus Time", fontsize = 35, fontweight = 'bold')
ax.set_xlabel("Date (Year-Month)", fontweight = 'bold', fontsize = 25)
ax.set_ylabel("Mean No. of Tweets per Week", fontweight = 'bold', fontsize = 25)
ax.tick_params(length = 20, labelsiz = 20)

ax.annotate('Average of Mean No. of Tweets per week',
            xy=(275,325),
            xycoords="figure points",
            xytext=(275,400),
            horizontalalignment="center",
            arrowprops={
                "arrowstyle": "-|>",
                "connectionstyle": "angle3,angleA=5,angleB=90",
                "color": "black"}, fontsize = 25,)

ax.annotate('Mean No. of Tweets per week reaches at-the-time high during week of 2018 Midterm Elections',
            xy=(1255,530),
            xycoords="figure points",
            xytext=(800,525),
            horizontalalignment="center",
            arrowprops={
                "arrowstyle": "-|>",
                "connectionstyle": "angle3,angleA=5,angleB=140",
                "color": "black"}, fontsize = 25,)

ax.annotate('Mean No. of Tweets per week reaches record high during first week of May 2019',
            xy=(1550,725),
            xycoords="figure points",
            xytext=(1200,700),
            horizontalalignment="center",
            arrowprops={
                "arrowstyle": "-|>",
                "connectionstyle": "angle3,angleA=5,angleB=180",

```

```

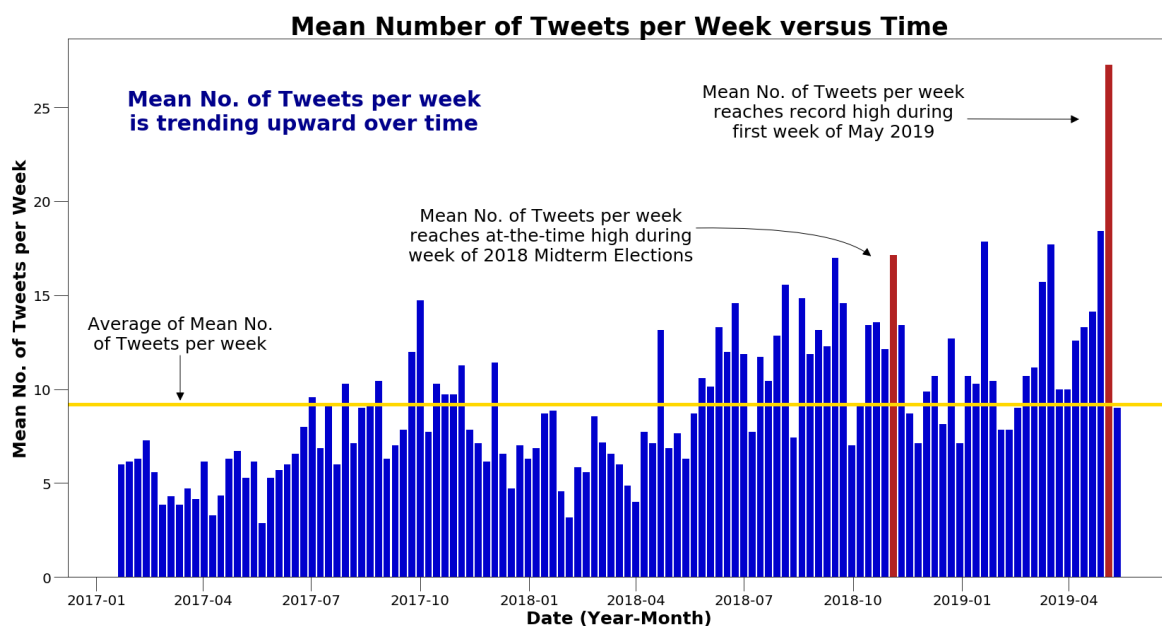
        "color": "black"}, fontsize = 25,)

ax.annotate('''Mean No. of Tweets per week
is trending upward over time''',
            xy=(370,540),
            xycoords="figure points",
            xytext=(450,710),
            horizontalalignment="center",
            fontsize = 30, color = 'darkblue', fontweight = 'bold')

plt.savefig('Mean Number of Tweets per Week versus Time.png', bbox_inches = "tight", dpi = 1200)

plt.show()

```



Graphing Tweet Count by Hour

```
In [472]: hour_count = hour_group.count()
```

In [473]: hour_count

Out[473]:

	Retweet_Count	Favorite_Count	Is_Retweet	ID_Str
Time				
0	290	290	290	290
1	256	256	256	256
2	131	131	131	131
3	27	27	27	27
4	17	17	17	17
5	19	19	19	19
6	10	10	10	10
7	85	85	85	85
8	434	434	434	434
9	681	681	681	681
10	821	821	821	821
11	739	739	739	739
12	458	458	458	458
13	326	326	326	326
14	316	316	316	316
15	280	280	280	280
16	264	264	264	264
17	320	320	320	320
18	411	411	411	411
19	370	370	370	370
20	390	390	390	390
21	354	354	354	354
22	332	332	332	332
23	328	328	328	328

```

In [540]: fig, ax = plt.subplots(figsize = (28,14))

width = 0.8

ax.bar(hour_count.index, hour_count.ID_Str, width, color = 'mediumblue')

plt.hlines(y = hour_count.loc[12:23].ID_Str.mean(),
           label = '12:00 - 23:00', linewidth = 5, color = 'gold', xmin
           = 11.75, xmax = 23.25)

plt.hlines(y = 40,
           label = 'Bed Time', linewidth = 5, color = 'black', xmin =
           2.75, xmax = 6.25)

ax.set_title("Total Number of Tweets per Hour", fontsize = 35, fontweigh
t = 'bold')
ax.set_xlabel("Hour (Military Time)", fontweight = 'bold', fontsize = 25
)
ax.set_ylabel("Total Number of Tweets", fontweight = 'bold', fontsize =
25)
ax.tick_params(length = 20, labelsiz = 20)

ax.annotate('President Trump Tweets
most frequently from
10:00 to 11:00',
            xy=(9,775),
            xycoords="data",
            xytext=(3,600),
            horizontalalignment="center",
            arrowprops={
                "arrowstyle": "-|>",
                "connectionstyle": "angle3,angleA=5,angleB=20",
                "color": "black"}, fontsize = 25,)

ax.annotate('No. of Tweets
per hour levels off
in afternoon/evening',
            xy=(15.5,375),
            xycoords="data",
            xytext=(18,650),
            horizontalalignment="center",
            arrowprops={
                "arrowstyle": "-|>",
                "connectionstyle": "angle3,angleA=5,angleB=90",
                "color": "black"}, fontsize = 25,)

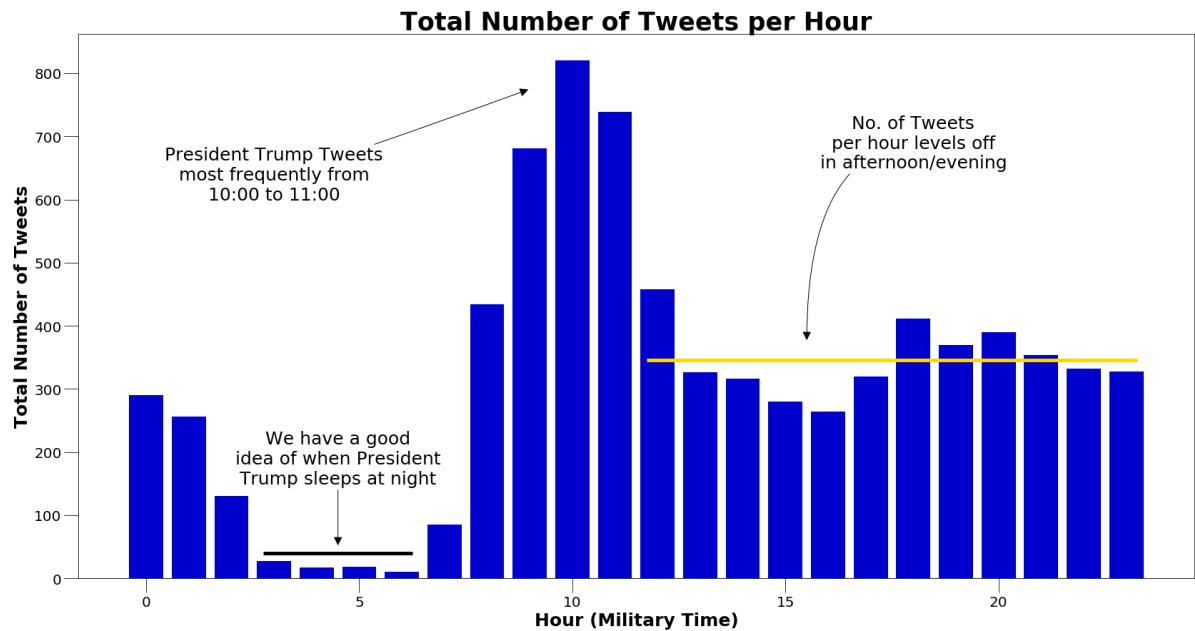
ax.annotate('We have a good
idea of when President
Trump sleeps at night',
            xy=(4.5,50),
            xycoords="data",
            xytext=(4.5,150),
            horizontalalignment="center",
            arrowprops={
                "arrowstyle": "-|>",

```

```
"connectionstyle": "angle3,angleA=5,angleB=90",
"color": "black"}, fontsize = 25,)
```

```
plt.savefig('Total Number of Tweets per Hour.png', bbox_inches = "tight"
, dip = 1200)
```

```
plt.show()
```



Graphing Retweet Percentage by Hour

```
In [477]: hour_rt_id_mean = hour_group.agg({"Is_Retweet": "mean"})
```

The mean value of the (grouped by hour) "Is_Retweet" column-which is populated by 'True' or 'False' values for whether a post is a retweet or not- will consist of the the percentage of President Trump's tweets that are retweets as a function of the hour of day.

```
In [480]: hour_rt_id_mean
```

```
Out[480]:
```

	Is_Retweet
Time	
0	0.989655
1	0.988281
2	0.969466
3	1.000000
4	1.000000
5	1.000000
6	1.000000
7	1.000000
8	1.000000
9	0.989721
10	0.991474
11	0.994587
12	0.982533
13	0.987730
14	1.000000
15	0.996429
16	0.996212
17	0.996875
18	0.992701
19	1.000000
20	0.984615
21	0.994350
22	0.993976
23	0.993902

```

In [541]: fig, ax = plt.subplots(figsize = (22,8))

width = 0.8

ax.bar(hour_rt_id_mean.index, hour_rt_id_mean.Is_Retweet, width, color =
'mediumblue')

plt.xticks(np.arange(0, 24, 1.0))
plt.yticks(np.arange(0.95, 1.00, 0.01))
ax.tick_params(length = 20, labelsz = 20)

ax.set_title("Retweet Percentage versus Hour of Day", fontsize = 35, fontweight = 'bold')
ax.set_xlabel("Hour (Military Time)", fontweight = 'bold', fontsize = 25)
ax.set_ylabel("Retweet Percentage", fontweight = 'bold', fontsize = 25)

ax.set_ylim(0.95, 1.015)

plt.axhline(y = hour_rt_id_mean.Is_Retweet.mean(),
            label = 'Mean Retweet Percentage', linewidth = 5, color = 'gold')

plt.hlines(y = 1.001,
            label = '3:00 - 9:00', linewidth = 2, color = 'black', xmin
            = 2.5, xmax = 8.5)

ax.annotate('Mean Retweet Percentage',
            xy=(24,0.995),
            xycoords="data",
            xytext=(19,1.0075),
            horizontalalignment="left",
            arrowprops={
                "arrowstyle": "-|>",
                "connectionstyle": "angle3,angleA=5,angleB=100",
                "color": "black"}, fontsize = 18,)

ax.annotate('President Trump tweets
original content at highest
rate from 2:00 to 3:00',
            xy=(2,.97),
            xycoords="data",
            xytext=(1.4,1.0025),
            horizontalalignment="center",
            arrowprops={
                "arrowstyle": "-|>",
                "connectionstyle": "angle3,angleA=5,angleB=90",
                "color": "black"}, fontsize = 18,)

ax.annotate('From 3:00 to 9:00
President Trump almost
exclusively retweets',
            xy=(6,1.002),
            xycoords="data",
            xytext=(11, 1.0025),
            horizontalalignment="center",

```



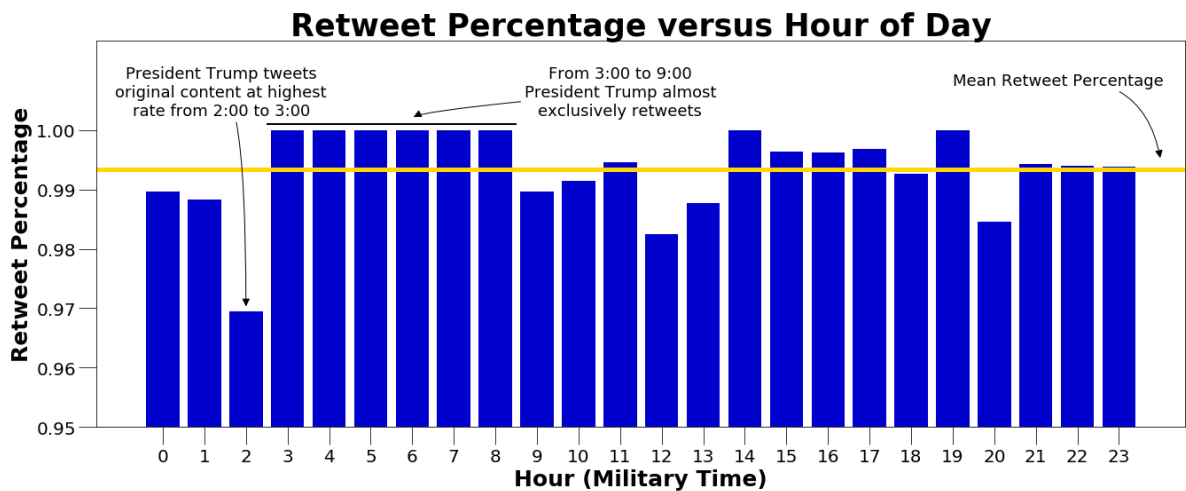
```

arrowprops={
    "arrowstyle": "-|>",
    "connectionstyle": "angle3,angleA=5,angleB=75",
    "color": "black"}, fontsize = 18,)

plt.savefig('Retweet Percentage versus Hour of Day.png', bbox_inches =
"tight", dip = 1200)

plt.show()

```



Creating Minute of Day Value

```

In [341]: time_group = twitter_log.groupby([twitter_log.index.hour, twitter_log.index.minute])

```

```
In [343]: time_group.dtypes.head
```

```

Out[343]: <bound method NDFrame.head of
           _Retweet  ID_Str
Time Time
0      0      float64      float64      bool      float64
      1      float64      float64      bool      float64
      2      float64      float64      bool      float64
      3      float64      float64      bool      float64
      4      float64      float64      bool      float64
      5      float64      float64      bool      float64
      6      float64      float64      bool      float64
      7      float64      float64      bool      float64
      8      float64      float64      bool      float64
      9      float64      float64      bool      float64
     10      float64      float64      bool      float64
     11      float64      float64      bool      float64
     12      float64      float64      bool      float64
     13      float64      float64      bool      float64
     14      float64      float64      bool      float64
     15      float64      float64      bool      float64
     16      float64      float64      bool      float64
     17      float64      float64      bool      float64
     18      float64      float64      bool      float64
     19      float64      float64      bool      float64
     20      float64      float64      bool      float64
     21      float64      float64      bool      float64
     22      float64      float64      bool      float64
     23      float64      float64      bool      float64
     24      float64      float64      bool      float64
     25      float64      float64      bool      float64
     26      float64      float64      bool      float64
     27      float64      float64      bool      float64
     28      float64      float64      bool      float64
     29      float64      float64      bool      float64
    ...      ...      ...      ...      ...
23    30      float64      float64      bool      float64
      31      float64      float64      bool      float64
      32      float64      float64      bool      float64
      33      float64      float64      bool      float64
      34      float64      float64      bool      float64
      35      float64      float64      bool      float64
      36      float64      float64      bool      float64
      37      float64      float64      bool      float64
      38      float64      float64      bool      float64
      39      float64      float64      bool      float64
      40      float64      float64      bool      float64
      41      float64      float64      bool      float64
      42      float64      float64      bool      float64
      43      float64      float64      bool      float64
      44      float64      float64      bool      float64
      45      float64      float64      bool      float64
      46      float64      float64      bool      float64
      47      float64      float64      bool      float64
      48      float64      float64      bool      float64
      49      float64      float64      bool      float64
      50      float64      float64      bool      float64
      51      float64      float64      bool      float64
      52      float64      float64      bool      float64

```

53	float64	float64	bool	float64
54	float64	float64	bool	float64
55	float64	float64	bool	float64
56	float64	float64	bool	float64
57	float64	float64	bool	float64
58	float64	float64	bool	float64
59	float64	float64	bool	float64

[1229 rows x 4 columns]>

```
In [344]: time_df_mean = time_group.agg({"Retweet_Count": "mean"})
```

```
In [345]: time_df_mean['Favorite_Count'] = time_group.agg({"Favorite_Count": "mean"})
```

```
In [346]: time_df_mean["hour"] = time_df_mean.index.get_level_values(0)

time_df_mean["minute"] = time_df_mean.index.get_level_values(1)
```

```
In [347]: time_df_mean['time'] = (time_df_mean.hour * 60) + (time_df_mean.minute + 1)
```

```
In [348]: time_df_mean
```

Out[348]:

		Retweet_Count	Favorite_Count	hour	minute	time
Time	Time					
0	0	22588.000000	79890.428571	0	0	1
	1	24156.666667	36718.333333	0	1	2
	2	21762.000000	93917.500000	0	2	3
	3	14100.000000	64658.500000	0	3	4
	4	27499.600000	116434.200000	0	4	5
	5	16657.500000	63661.166667	0	5	6
	6	16203.142857	62698.142857	0	6	7
	7	19488.125000	80392.875000	0	7	8
	8	17592.000000	75979.666667	0	8	9
	9	12372.000000	34959.000000	0	9	10
	10	18008.000000	73496.000000	0	10	11
	11	21019.000000	91199.000000	0	11	12
	12	30242.500000	39359.250000	0	12	13
	13	24466.285714	91377.714286	0	13	14
	14	22102.571429	68292.428571	0	14	15
	15	28610.200000	80127.600000	0	15	16
	16	28292.000000	110500.500000	0	16	17
	17	24728.400000	104248.600000	0	17	18
	18	13138.000000	48408.875000	0	18	19
	19	32015.600000	127730.600000	0	19	20
	20	16902.500000	57906.500000	0	20	21
	21	14833.000000	75989.166667	0	21	22
	22	21180.000000	85864.166667	0	22	23
	23	19402.111111	75705.222222	0	23	24
	24	19248.250000	65815.500000	0	24	25
	25	38219.000000	147053.500000	0	25	26
	26	16910.000000	72260.000000	0	26	27
	27	19306.000000	76878.666667	0	27	28
	28	28396.714286	85850.000000	0	28	29
	29	25306.000000	120633.000000	0	29	30
...
23	30	11851.714286	40743.000000	23	30	1411
	31	17473.800000	59828.400000	23	31	1412

	Retweet_Count	Favorite_Count	hour	minute	time
Time	Time				
32	15214.000000	37185.500000	23	32	1413
33	14534.500000	54001.000000	23	33	1414
34	16992.666667	78527.333333	23	34	1415
35	16620.285714	69913.142857	23	35	1416
36	22653.500000	94632.000000	23	36	1417
37	15588.000000	54671.500000	23	37	1418
38	20098.000000	65231.250000	23	38	1419
39	21595.000000	84919.000000	23	39	1420
40	21530.000000	93871.500000	23	40	1421
41	18521.000000	92993.500000	23	41	1422
42	21358.200000	65494.400000	23	42	1423
43	15706.555556	57270.222222	23	43	1424
44	16141.285714	37469.857143	23	44	1425
45	19571.833333	63797.333333	23	45	1426
46	19472.833333	74850.000000	23	46	1427
47	21849.875000	90641.500000	23	47	1428
48	9649.666667	28867.000000	23	48	1429
49	15570.250000	51922.750000	23	49	1430
50	25255.125000	85389.750000	23	50	1431
51	22750.000000	90861.714286	23	51	1432
52	12427.250000	36095.500000	23	52	1433
53	16065.714286	21979.142857	23	53	1434
54	18405.833333	51754.000000	23	54	1435
55	26509.600000	80749.200000	23	55	1436
56	1969.000000	7149.000000	23	56	1437
57	16968.000000	74771.000000	23	57	1438
58	20542.000000	62881.750000	23	58	1439
59	27702.666667	106700.666667	23	59	1440

1229 rows × 5 columns

```
In [268]: time_df_mean.minute = time_df_mean.minute.astype(float)
```

Retweet Count by Minute

```
In [505]: fig, ax = plt.subplots(figsize = (26,10))

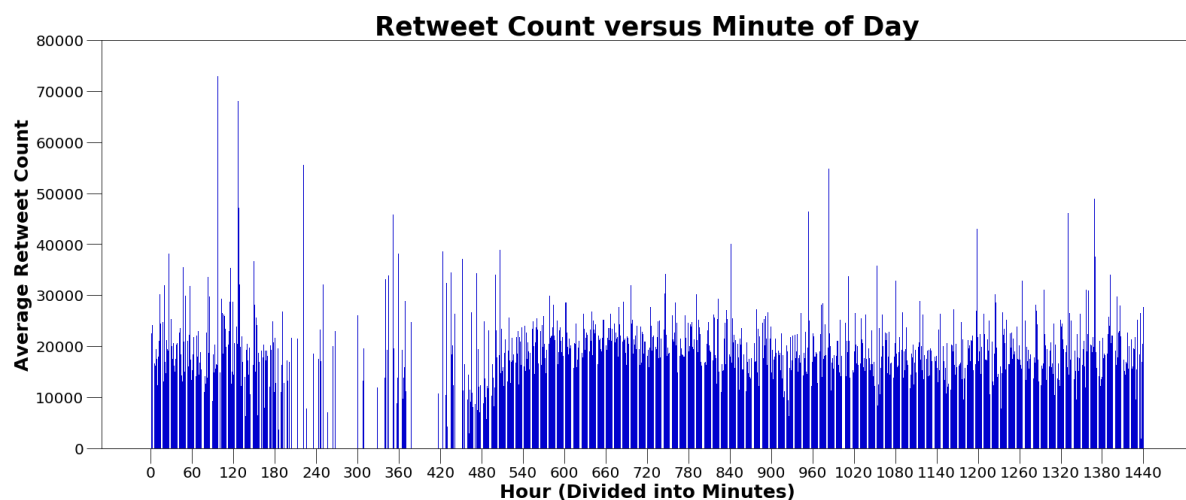
width = 0.8

ax.bar(time_df_mean.time , time_df_mean.Retweet_Count, width, color = 'mediumblue')

plt.xticks(np.arange(0, 1441, 60))
plt.yticks(np.arange(0, 90000, 10000))
ax.tick_params(length = 20, labelsiz = 20)

ax.set_title("Retweet Count versus Minute of Day", fontsize = 35, fontweight = 'bold')
ax.set_xlabel("Hour (Divided into Minutes)", fontweight = 'bold', fontsize = 25)
ax.set_ylabel("Average Retweet Count", fontweight = 'bold', fontsize = 25)

plt.show()
```



Favorite Count by Minute


```
In [506]: fig, ax = plt.subplots(figsize = (24,8))

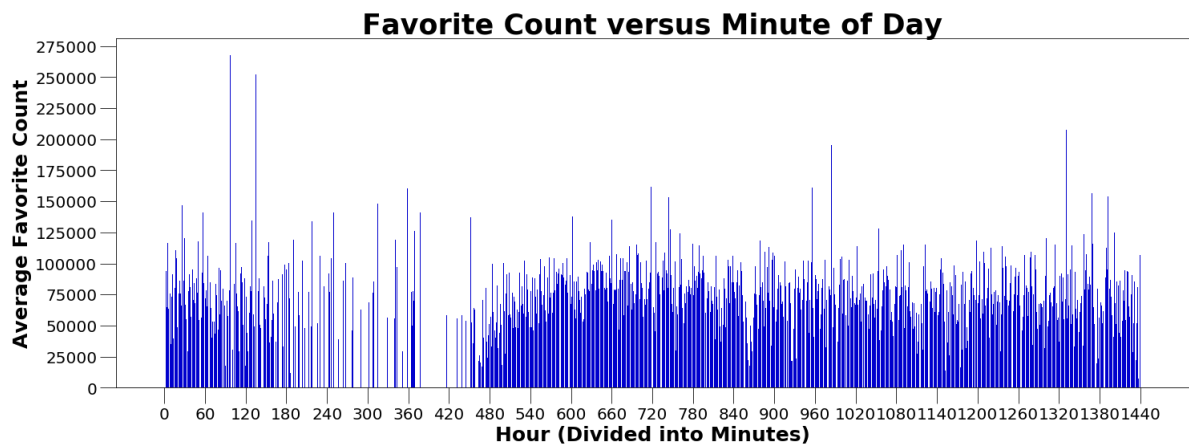
width = 0.8

ax.bar(time_df_mean.time , time_df_mean.Favorite_Count, width, color =
'mediumblue')

plt.xticks(np.arange(0, 1441, 60))
plt.yticks(np.arange(0, 300000, 25000))
ax.tick_params(length = 20, labelsiz = 20)

ax.set_title("Favorite Count versus Minute of Day", fontsize = 35, fontw
eight = 'bold')
ax.set_xlabel("Hour (Divided into Minutes)", fontweight = 'bold', fontsi
ze = 25)
ax.set_ylabel("Average Favorite Count", fontweight = 'bold', fontsize =
25)

plt.show()
```



However intriguing the above graphs grouped by the minute of day may seem, they are too detailed to draw any insight from them. Thus, I will now group by one level higher than minute, the hour.

Engagements by Hour

```
In [368]: hour_rt_mean = hour_group.agg({"Retweet_Count": "mean"})
```

```
In [393]: hour_rt_mean
```

```
Out[393]:
```

	Retweet_Count
Time	
0	20430.234483
1	20166.394531
2	20158.587786
3	17678.666667
4	18855.058824
5	24523.000000
6	20064.900000
7	13636.294118
8	17220.423963
9	20532.975037
10	21567.580999
11	22055.096076
12	21373.336245
13	20331.693252
14	19531.737342
15	18786.414286
16	19382.261364
17	18241.271875
18	18488.961071
19	18158.427027
20	19388.161538
21	19133.737288
22	20727.009036
23	19805.996951

```

In [543]: fig, ax = plt.subplots(figsize = (22,8))

width = 0.8

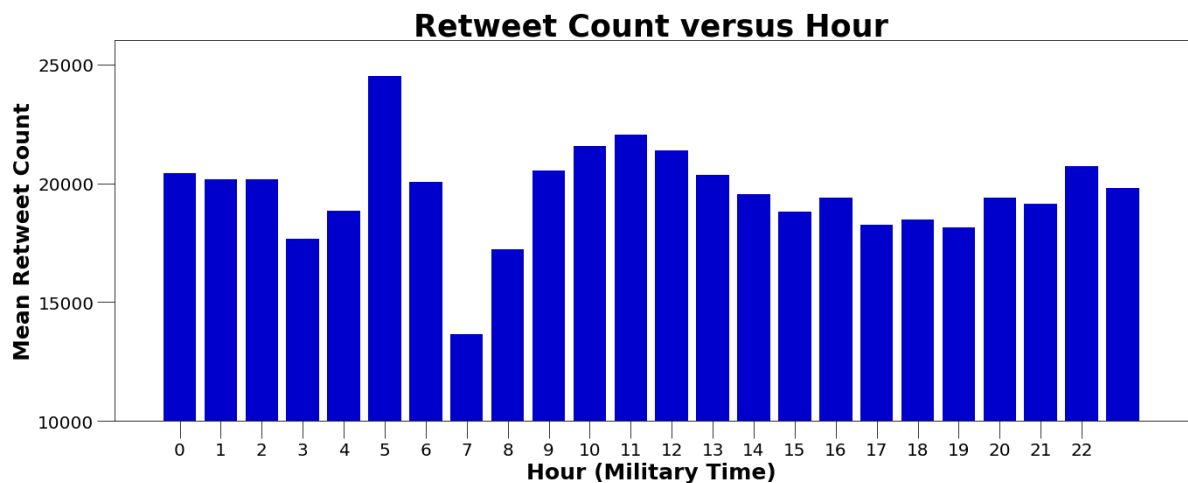
ax.bar(hour_rt_mean.index, hour_rt_mean.Retweet_Count, width, color = 'mediumblue')

plt.xticks(np.arange(0, 23, 1))
plt.yticks(np.arange(10000, 26000, 5000))
ax.tick_params(length = 20, labels = 20)
ax.set_ylim(10000, 26000)

ax.set_title("Retweet Count versus Hour", fontsize = 35, fontweight = 'bold')
ax.set_xlabel("Hour (Military Time)", fontweight = 'bold', fontsize = 25)
ax.set_ylabel("Mean Retweet Count", fontweight = 'bold', fontsize = 25)

plt.show()

```



There is a precipitous decrease in retweets from 7:00 to 8:00.

```

In [510]: hour_fav_mean = hour_group.agg({"Favorite_Count": "mean"})

```

```
In [511]: hour_fav_mean
```

```
Out[511]:
```

	Favorite_Count
Time	
0	75450.100000
1	66895.437500
2	65892.946565
3	65617.259259
4	81043.470588
5	74836.842105
6	91224.700000
7	37295.917647
8	63847.831797
9	79312.718062
10	84413.013398
11	83679.867388
12	84128.508734
13	77002.211656
14	73232.132911
15	73566.592857
16	78811.481061
17	72813.671875
18	71398.746959
19	66210.283784
20	77443.166667
21	71142.629944
22	77466.849398
23	69979.155488

```

In [545]: fig, ax = plt.subplots(figsize = (22,8))

width = 0.8

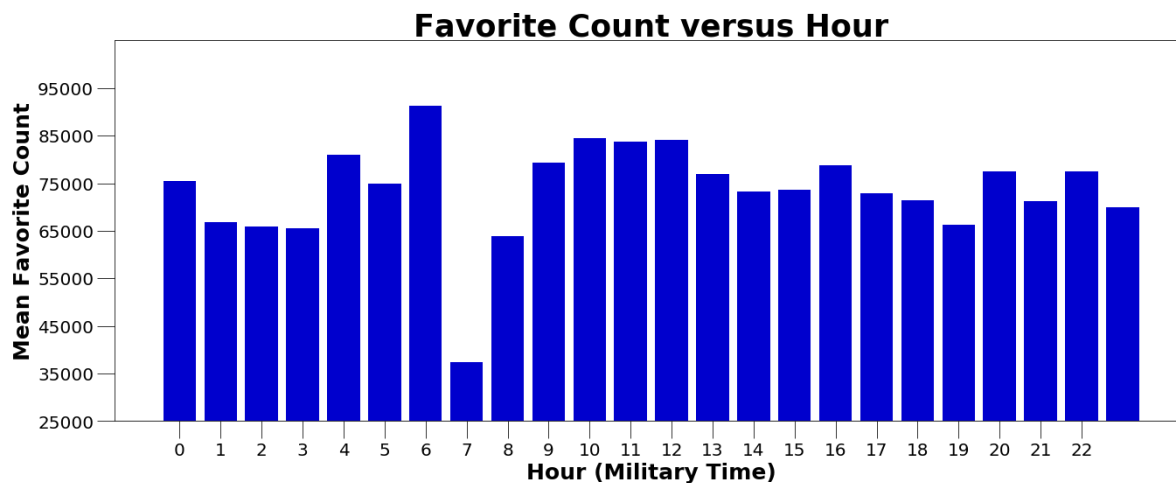
ax.bar(hour_fav_mean.index, hour_fav_mean.Favorite_Count, width, color =
'mediumblue')

plt.xticks(np.arange(0, 23, 1))
plt.yticks(np.arange(25000, 105000, 10000))
ax.tick_params(length = 20, labels = 20)
ax.set_ylim(25000, 105000)

ax.set_title("Favorite Count versus Hour", fontsize = 35, fontweight =
'bold')
ax.set_xlabel("Hour (Military Time)", fontweight = 'bold', fontsize = 25
)
ax.set_ylabel("Mean Favorite Count", fontweight = 'bold', fontsize = 25)

plt.show()

```



There is also a precipitous drop in favorites from 7:00 to 8:00.

```

In [513]: rt_fav_hour_mean_df = hm_rt_mean.join(hm_fav_mean, how = 'outer')

```

```
In [514]: rt_fav_hour_mean_df
```

```
Out[514]:
```

	Retweet_Count	Favorite_Count
Time		
0	20430.234483	75450.100000
1	20166.394531	66895.437500
2	20158.587786	65892.946565
3	17678.666667	65617.259259
4	18855.058824	81043.470588
5	24523.000000	74836.842105
6	20064.900000	91224.700000
7	13636.294118	37295.917647
8	17220.423963	63847.831797
9	20532.975037	79312.718062
10	21567.580999	84413.013398
11	22055.096076	83679.867388
12	21373.336245	84128.508734
13	20331.693252	77002.211656
14	19531.737342	73232.132911
15	18786.414286	73566.592857
16	19382.261364	78811.481061
17	18241.271875	72813.671875
18	18488.961071	71398.746959
19	18158.427027	66210.283784
20	19388.161538	77443.166667
21	19133.737288	71142.629944
22	20727.009036	77466.849398
23	19805.996951	69979.155488

Number of Engagements versus Hour

```

In [547]: fig, ax = plt.subplots(figsize = (24,12))

width = 0.84

ax.bar(rt_fav_hour_mean_df.index, rt_fav_hour_mean_df.Favorite_Count, wi
dth, color = 'black', label = 'No. of Favorites')
ax.bar(rt_fav_hour_mean_df.index, rt_fav_hour_mean_df.Retweet_Count, wid
th, color = 'mediumblue', label = 'No. of Retweets')

ax.set_title("Number of Engagements versus Hour of Day", fontsize = 35,
fontweight = 'bold')
ax.set_xlabel("Hour (Military Time)", fontweight = 'bold', fontsize = 25
)
ax.set_ylabel("Number of Engagements", fontweight = 'bold', fontsize = 2
5)

plt.xticks(np.arange(0, 24, 1.0))
plt.yticks(np.arange(0, 110000, 10000))
ax.tick_params(length = 20, labelsiz = 20)

ax.legend(frameon = True, loc = 1, prop={'size': 25})

plt.axhline(y = rt_fav_hour_mean_df.Favorite_Count.mean(), label = 'Aver
age No. of Favorites per Hour', linewidth = 5, color = 'firebrick')
plt.axhline(y = rt_fav_hour_mean_df.Retweet_Count.mean(), label = 'Avera
ge No. of Retweets per Hour', linewidth = 5, color = 'gold')

ax.annotate('No. of Engagements Drops from 7:00 to 8:00',
            xy=(7,38000),
            xycoords="data",
            xytext=(9,92000),
            horizontalalignment="left",
            arrowprops={
                "arrowstyle": "-|>",
                "connectionstyle": "angle3,angleA=5,angleB=100",
                "color": "black"}, fontsize = 18,)

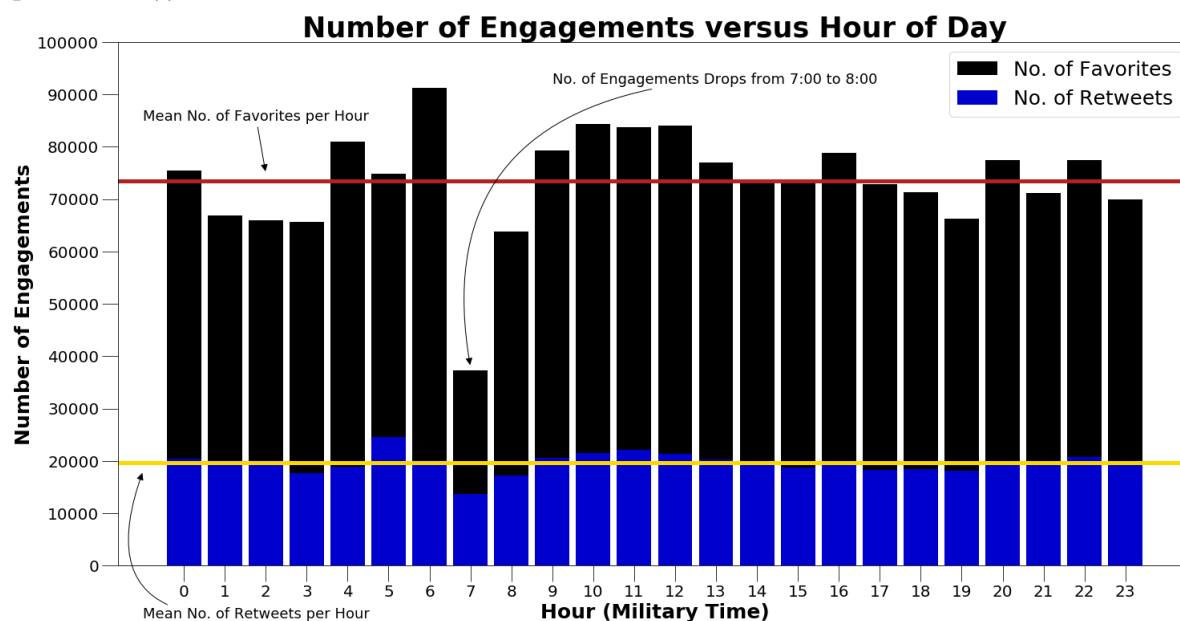
ax.annotate('Mean No. of Favorites per Hour',
            xy=(2,75000),
            xycoords="data",
            xytext=(-1,85000),
            horizontalalignment="left",
            arrowprops={
                "arrowstyle": "-|>",
                "connectionstyle": "angle3,angleA=5,angleB=100",
                "color": "black"}, fontsize = 18,)

ax.annotate('Mean No. of Retweets per Hour',
            xy=(-1,18000),
            xycoords="data",
            xytext=(-1,-10000),
            horizontalalignment="left",
            arrowprops={
                "arrowstyle": "-|>",
                "connectionstyle": "angle3,angleA=5,angleB=70",
                "color": "black"}, fontsize = 18,)

```

```
plt.savefig('Number of Engagements versus Hour of Day.png', bbox_inches
= "tight", dpi = 1200)

plt.show()
```



Creating the date

```
In [517]: day_rt_mean_df = year_month_day_group.agg({"Retweet_Count": "mean"})
```

```
In [518]: day_rt_mean_df.head()
```

Out[518]:

Retweet_Count			
Time	Time	Time	
2017	1	20	32963.0
		21	34606.0
		22	46059.0
		23	26750.0
		24	21080.8

```
In [519]: day_fav_mean_df = year_month_day_group.agg({"Favorite_Count": "mean"})
```



```
In [520]: day_fav_mean_df.head()
```

```
Out[520]:
```

Favorite_Count			
Time	Time	Time	
2017	1	20	144429.909091
		21	155840.333333
		22	237352.000000
		23	177839.000000
		24	119365.000000

```
In [521]: day_df = day_rt_mean_df.join(day_fav_mean_df)
```

```
In [522]: multi_to_single(day_df)
```

```
In [523]: day_df.head()
```

```
Out[523]:
```

			Retweet_Count	Favorite_Count	year	month	day	date
Time	Time	Time						
2017	1	20	32963.0	144429.909091	2017	1	20	2017-01-20
		21	34606.0	155840.333333	2017	1	21	2017-01-21
		22	46059.0	237352.000000	2017	1	22	2017-01-22
		23	26750.0	177839.000000	2017	1	23	2017-01-23
		24	21080.8	119365.000000	2017	1	24	2017-01-24

Let's see how the ratio of favorites to retweets is changing over time...

```
In [524]: day_df['fav_rt_ratio'] = day_df.Favorite_Count / day_df.Retweet_Count
```

```
In [525]: day_df.head()
```

```
Out[525]:
```

			Retweet_Count	Favorite_Count	year	month	day	date	fav_rt_ratio
Time	Time	Time							
2017	1	20	32963.0	144429.909091	2017	1	20	2017-01-20	4.381577
		21	34606.0	155840.333333	2017	1	21	2017-01-21	4.503275
		22	46059.0	237352.000000	2017	1	22	2017-01-22	5.153217
		23	26750.0	177839.000000	2017	1	23	2017-01-23	6.648187
		24	21080.8	119365.000000	2017	1	24	2017-01-24	5.662261

Favorite-to-Retweet Ratio

```

In [548]: info = day_df.groupby([pd.Grouper(key="date", freq="M")]).mean()

fig, ax = plt.subplots(figsize = (24,12))

width = 25

ax.bar(info.index, info.fav_rt_ratio, width, color = 'mediumblue')

plt.axhline(y = info.fav_rt_ratio.mean(), label = 'Average of Mean Favorite-to-Retweet Ratio', linewidth = 5, color = 'gold')

ax.set_title("Mean Favorite-to-Retweet Ratio per Month versus Time", fontsize = 35, fontweight = 'bold')
ax.set_xlabel("Date (Year-Month)", fontweight = 'bold', fontsize = 25)
ax.set_ylabel("Mean Favorite-to-Retweet Ratio per Month", fontweight = 'bold', fontsize = 25)
ax.tick_params(length = 20, labelsiz = 20)

ax.set_ylim(2,5.5)

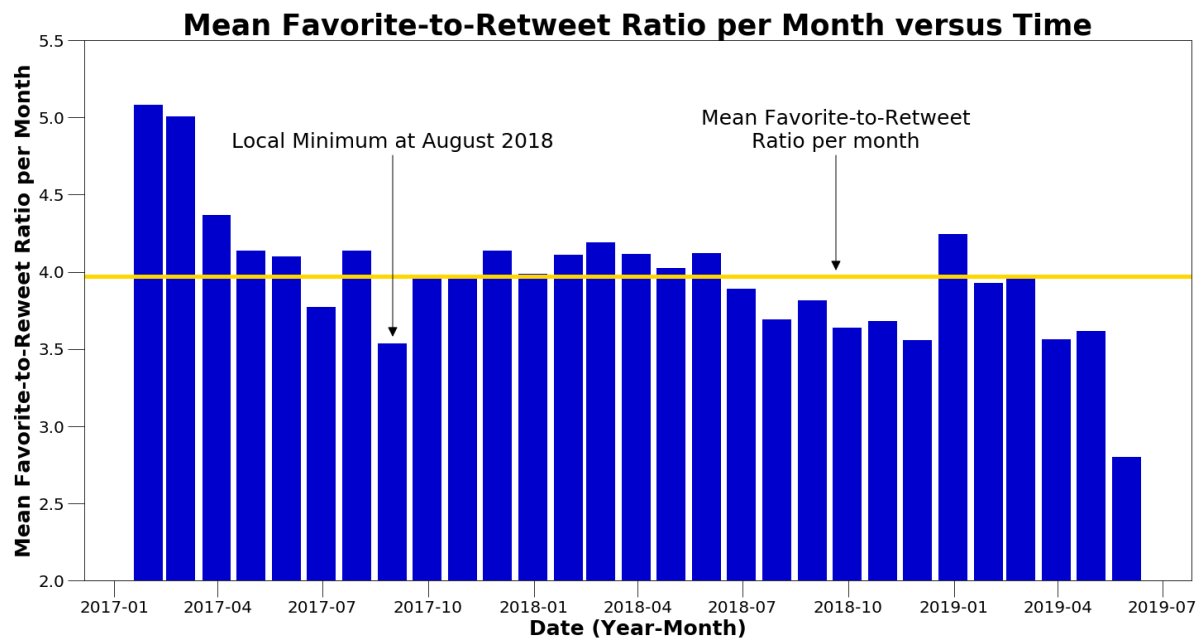
ax.annotate('Mean Favorite-to-Retweet Ratio per month',
            xy=(1000,450),
            xycoords="figure points",
            xytext=(1000,600),
            horizontalalignment="center",
            arrowprops={
                "arrowstyle": "-|>", # This is stuff about the arrow
                "connectionstyle": "angle3,angleA=5,angleB=90",
                "color": "black"},
            fontsize = 25, color = 'black')

ax.annotate('Local Minimum at August 2018',
            xy=(464,370),
            xycoords="figure points",
            xytext=(464,600),
            horizontalalignment="center",
            arrowprops={
                "arrowstyle": "-|>", # This is stuff about the arrow
                "connectionstyle": "angle3,angleA=5,angleB=90",
                "color": "black"},
            fontsize = 25, color = 'black')

plt.savefig('Mean Favorite-to-Retweet Ratio per Month versus Time.png',
            bbox_inches = "tight", dpi = 1200)

plt.show()

```



To explore: Does the mean favorite-to-retweet-ratio correlate with President Trump's approval rating at all? Another element could be President Trump's number of followers over time. Perhaps taking a ratio of the number of his favorites to the number of his followers would track better with Trump's approval rating. However, there may be an inherent bias there too as it is probable people who support Trump are most likely to follow him on social media in larger numbers than those who do not.

Acknowledgements

This project could not be completed without the help of [Michael Waugh, Ph.D.](http://www.waugheconomics.com/) (<http://www.waugheconomics.com/>), the William R. Berkley Term Professor of Economics and Business at New York University's Stern School of Business and my professor for the course, Data Bootcamp.