wrangle_act

December 20, 2018

1 Gathering

```
In [62]: WeRateDogs_archive = pd.read_csv('twitter-archive-enhanced.csv')
         WeRateDogs_archive.head(50)
Out[62]:
                       tweet_id in_reply_to_status_id in_reply_to_user_id \
         0
                                                        NaN
             892420643555336193 NaN
             892177421306343426 NaN
                                                        NaN
         1
         2
             891815181378084864 NaN
                                                        NaN
             891689557279858688 NaN
                                                        NaN
             891327558926688256 NaN
                                                        NaN
         5
                                                        NaN
             891087950875897856 NaN
         6
             890971913173991426 NaN
                                                        NaN
         7
             890729181411237888 NaN
                                                        NaN
         8
             890609185150312448 NaN
                                                        NaN
         9
             890240255349198849 NaN
                                                        NaN
         10 890006608113172480 NaN
                                                        NaN
             889880896479866881 NaN
                                                        NaN
             889665388333682689 NaN
                                                        NaN
             889638837579907072 NaN
         13
                                                        NaN
         14 889531135344209921 NaN
                                                        NaN
         15 889278841981685760 NaN
                                                        NaN
         16
             888917238123831296 NaN
                                                        NaN
         17
             888804989199671297 NaN
                                                        NaN
         18 888554962724278272 NaN
                                                        NaN
         19 888202515573088257 NaN
                                                        NaN
         20 888078434458587136 NaN
                                                        NaN
         21 887705289381826560 NaN
                                                        NaN
         22 887517139158093824 NaN
                                                        NaN
```

```
887473957103951883 NaN
                                              NaN
24 887343217045368832 NaN
                                              NaN
25
   887101392804085760 NaN
                                              NaN
26 886983233522544640 NaN
                                              NaN
27
   886736880519319552 NaN
                                              NaN
28 886680336477933568 NaN
                                              NaN
29
   886366144734445568 NaN
                                              NaN
30 886267009285017600 8.862664e+17
                                               2.281182e+09
31 886258384151887873 NaN
                                              NaN
32 886054160059072513 NaN
                                              NaN
33 885984800019947520 NaN
                                              NaN
34 885528943205470208 NaN
                                              NaN
35 885518971528720385 NaN
                                              NaN
   885311592912609280 NaN
36
                                              NaN
37
   885167619883638784 NaN
                                              NaN
38 884925521741709313 NaN
                                              NaN
39
   884876753390489601 NaN
                                              NaN
40 884562892145688576 NaN
                                              NaN
41
   884441805382717440 NaN
                                              NaN
42 884247878851493888 NaN
                                              NaN
   884162670584377345 NaN
43
                                              NaN
44
   883838122936631299 NaN
                                              NaN
   883482846933004288 NaN
                                              NaN
   883360690899218434 NaN
                                              NaN
47
   883117836046086144 NaN
                                              NaN
48
   882992080364220416 NaN
                                              NaN
49 882762694511734784 NaN
                                              NaN
                    timestamp
0
   2017-08-01 16:23:56 +0000
    2017-08-01 00:17:27 +0000
1
   2017-07-31 00:18:03 +0000
2
3
   2017-07-30 15:58:51 +0000
   2017-07-29 16:00:24 +0000
4
5
   2017-07-29 00:08:17 +0000
6
   2017-07-28 16:27:12 +0000
7
   2017-07-28 00:22:40 +0000
8
    2017-07-27 16:25:51 +0000
9
    2017-07-26 15:59:51 +0000
10 2017-07-26 00:31:25 +0000
11 2017-07-25 16:11:53 +0000
   2017-07-25 01:55:32 +0000
12
13
   2017-07-25 00:10:02 +0000
   2017-07-24 17:02:04 +0000
14
15
   2017-07-24 00:19:32 +0000
16 2017-07-23 00:22:39 +0000
17
   2017-07-22 16:56:37 +0000
18 2017-07-22 00:23:06 +0000
```

```
2017-07-21 01:02:36 +0000
   2017-07-20 16:49:33 +0000
    2017-07-19 16:06:48 +0000
22 2017-07-19 03:39:09 +0000
    2017-07-19 00:47:34 +0000
23
24
   2017-07-18 16:08:03 +0000
25
   2017-07-18 00:07:08 +0000
   2017-07-17 16:17:36 +0000
    2017-07-16 23:58:41 +0000
   2017-07-16 20:14:00 +0000
29 2017-07-15 23:25:31 +0000
   2017-07-15 16:51:35 +0000
30
31 2017-07-15 16:17:19 +0000
   2017-07-15 02:45:48 +0000
32
   2017-07-14 22:10:11 +0000
33
   2017-07-13 15:58:47 +0000
   2017-07-13 15:19:09 +0000
   2017-07-13 01:35:06 +0000
37
    2017-07-12 16:03:00 +0000
   2017-07-12 00:01:00 +0000
38
    2017-07-11 20:47:12 +0000
39
40
   2017-07-11 00:00:02 +0000
    2017-07-10 15:58:53 +0000
   2017-07-10 03:08:17 +0000
   2017-07-09 21:29:42 +0000
    2017-07-09 00:00:04 +0000
   2017-07-08 00:28:19 +0000
   2017-07-07 16:22:55 +0000
46
    2017-07-07 00:17:54 +0000
47
   2017-07-06 15:58:11 +0000
   2017-07-06 00:46:41 +0000
```

source

```
0
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
1
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
2
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
3
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
4
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
5
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
6
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
7
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
8
9
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
10
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
```

```
15 <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
16 <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
17
   <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
18
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
19
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
   <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
   <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
   <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
26
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
27
   <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
   <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
   <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
41
   <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
   <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
43
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
   <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
   <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
    <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
```

This is Phineas. He's a mystical boy. Only ever appears in the hole of a donut. 13/1 This is Tilly. She's just checking pup on you. Hopes you're doing ok. If not, she's This is Archie. He is a rare Norwegian Pouncing Corgo. Lives in the tall grass. You This is Darla. She commenced a snooze mid meal. 13/10 happens to the best of us htt This is Franklin. He would like you to stop calling him "cute." He is a very fierce Here we have a majestic great white breaching off South Africa's coast. Absolutely Meet Jax. He enjoys ice cream so much he gets nervous around it. 13/10 help Jax enj When you watch your owner call another dog a good boy but then they turn back to you

This is Cassie. She is a college pup. Studying international doggo communication ar This is Koda. He is a South Australian deckshark. Deceptively deadly. Frighteningly

This is Zoey. She doesn't want to be one of the scary sharks. Just wants to be a sm

8

```
11 This is Bruno. He is a service shark. Only gets out of the water to assist you. 13/
12 Here's a puppo that seems to be on the fence about something haha no but seriously
      This is Ted. He does his best. Sometimes that's not enough. But it's ok. 12/10 woul
     This is Stuart. He's sporting his favorite fanny pack. Secretly filled with bones of
15 This is Oliver. You're witnessing one of his many brutal attacks. Seems to be playi
      This is Jim. He found a fren. Taught him how to sit like the good boys. 12/10 for b
      This is Zeke. He has a new stick. Very proud of it. Would like you to throw it for
18 This is Ralphus. He's powering up. Attempting maximum borkdrive. 13/10 inspirations
19 RT @dog_rates: This is Canela. She attempted some fancy porch pics. They were unsuc
20 This is Gerald. He was just told he didn't get the job he interviewed for. A h*ckin
      This is Jeffrey. He has a monopoly on the pool noodles. Currently running a 'boop f
21
22 I've yet to rate a Venezuelan Hover Wiener. This is such an honor. 14/10 paw-inspir
23 This is Canela. She attempted some fancy porch pics. They were unsuccessful. 13/10
24 You may not have known you needed to see this today. 13/10 please enjoy (IG: emmylog
      This... is a Jubilant Antarctic House Bear. We only rate dogs. Please only send dog
26 This is Maya. She's very shy. Rarely leaves her cup. 13/10 would find her an environment of the contract of
27
      This is Mingus. He's a wonderful father to his smol pup. Confirmed 13/10, but he ne
      This is Derek. He's late for a dog meeting. 13/10 pet...al to the metal https://t.o
29 This is Roscoe. Another pupper fallen victim to spontaneous tongue ejections. Get t
30 @NonWhiteHat @MayhewMayhem omg hello tanner you are a scary good boy 12/10 would pe
      This is Waffles. His doggles are pupside down. Unsure how to fix. 13/10 someone ass
32 RT @Athletics: 12/10 #BATP https://t.co/WxwJmvjfxo
33 Viewer discretion advised. This is Jimbo. He will rip ur finger right h*ckin off. (
34 This is Maisey. She fell asleep mid-excavation. Happens to the best of us. 13/10 wo
35 I have a new hero and his name is Howard. 14/10 https://t.co/gzLHboL7Sk
36 RT @dog_rates: This is Lilly. She just parallel barked. Kindly requests a reward no
37 Here we have a corgi undercover as a malamute. Pawbably doing important investigati
38 This is Earl. He found a hat. Nervous about what you think of it. 12/10 it's deligh
39
      This is Lola. It's her first time outside. Must test the earth and taste the atmosp
     This is Kevin. He's just so happy. 13/10 what is your secret Kevin https://t.co/1r4
41 I present to you, Pup in Hat. Pup in Hat is great for all occasions. Extremely vers
42 OMG HE DIDN'T MEAN TO HE WAS JUST TRYING A LITTLE BARKOUR HE'S SUPER SORRY 13/10 WC
43 Meet Yogi. He doesn't have any important dog meetings today he just enjoys looking
      This is Noah. He can't believe someone made this mess. Got the vacuum out for you t
45 This is Bella. She hopes her smile made you smile. If not, she is also offering you
46 Meet Grizzwald. He may be the floofiest floofer I ever did see. Lost eyes saving a
```

retweeted_status_id retweeted_status_user_id retweeted_status_timestamp \

47 Please only send dogs. We don't rate mechanics, no matter how h*ckin good. Thank you was the second the first pic. Clearly puppared for the second.
49 This is Gus. He's quite the cheeky pupper. Already perfected the disinterested wink

0	NaN	NaN	NaN
1	NaN	NaN	NaN
2	NaN	NaN	NaN
3	NaN	NaN	NaN
4	NaN	NaN	NaN
5	NaN	NaN	NaN
6	NaN	NaN	NaN

```
7 NaN
                           NaN
                                                         NaN
  {\tt NaN}
                           NaN
8
                                                         NaN
9
  NaN
                           NaN
                                                         NaN
10 NaN
                           NaN
                                                         NaN
11 NaN
                           NaN
                                                         NaN
12 NaN
                                                         NaN
                           NaN
13 NaN
                           NaN
                                                         NaN
14 NaN
                           NaN
                                                         NaN
15 NaN
                           NaN
                                                         NaN
16 NaN
                           NaN
                                                         NaN
17 NaN
                           NaN
                                                         NaN
18 NaN
                           NaN
                                                         NaN
                                                         2017-07-19 00:47:34 +0000
   8.874740e+17
                            4.196984e+09
20 NaN
                           NaN
                                                         NaN
21 NaN
                           NaN
                                                         NaN
22 NaN
                           NaN
                                                         NaN
23 NaN
                           NaN
                                                         NaN
24 NaN
                           NaN
                                                         NaN
25 NaN
                           NaN
                                                         NaN
26 NaN
                           NaN
                                                         NaN
27 NaN
                           NaN
                                                         NaN
28 NaN
                           NaN
                                                         NaN
29 NaN
                           NaN
                                                         NaN
30 NaN
                           NaN
                                                         NaN
31 NaN
                           NaN
                                                         NaN
32 8.860537e+17
                            1.960740e+07
                                                         2017-07-15 02:44:07 +0000
33 NaN
                           NaN
                                                         NaN
34 NaN
                           NaN
                                                         NaN
35 NaN
                           NaN
                                                         NaN
36 8.305833e+17
                            4.196984e+09
                                                         2017-02-12 01:04:29 +0000
37 NaN
                           NaN
                                                         NaN
38 NaN
                           NaN
                                                         NaN
39 NaN
                           NaN
                                                         NaN
40 NaN
                           NaN
                                                         NaN
41 NaN
                           NaN
                                                         NaN
42 NaN
                           NaN
                                                         NaN
43 NaN
                           NaN
                                                         {\tt NaN}
44 NaN
                           NaN
                                                         NaN
45 NaN
                           NaN
                                                         NaN
46 NaN
                           NaN
                                                         NaN
47 NaN
                           NaN
                                                         NaN
48 NaN
                           NaN
                                                         NaN
49 NaN
                           NaN
                                                         NaN
```

⁰ https://twitter.com/dog_rates/status/892420643555336193/photo/1

¹ https://twitter.com/dog_rates/status/892177421306343426/photo/1

² https://twitter.com/dog_rates/status/891815181378084864/photo/1

```
3
   https://twitter.com/dog_rates/status/891689557279858688/photo/1
   https://twitter.com/dog_rates/status/891327558926688256/photo/1,https://twitter.com
4
   https://twitter.com/dog_rates/status/891087950875897856/photo/1
5
6
   https://gofundme.com/ydvmve-surgery-for-jax,https://twitter.com/dog_rates/status/89
   https://twitter.com/dog_rates/status/890729181411237888/photo/1,https://twitter.com
7
    https://twitter.com/dog_rates/status/890609185150312448/photo/1
8
9
   https://twitter.com/dog_rates/status/890240255349198849/photo/1
   https://twitter.com/dog_rates/status/890006608113172480/photo/1,https://twitter.com
10
11 \quad \texttt{https://twitter.com/dog\_rates/status/889880896479866881/photo/1}
   https://twitter.com/dog_rates/status/889665388333682689/photo/1
12
13 https://twitter.com/dog_rates/status/889638837579907072/photo/1,https://twitter.com
14 https://twitter.com/dog_rates/status/889531135344209921/photo/1
15 \quad \texttt{https://twitter.com/dog\_rates/status/889278841981685760/video/1}
   \tt https://twitter.com/dog\_rates/status/888917238123831296/photo/1
   https://twitter.com/dog_rates/status/888804989199671297/photo/1,https://twitter.com
17
18 https://twitter.com/dog_rates/status/888554962724278272/photo/1,https://twitter.com
19
   https://twitter.com/dog_rates/status/887473957103951883/photo/1,https://twitter.com
20 https://twitter.com/dog_rates/status/888078434458587136/photo/1,https://twitter.com
21 https://twitter.com/dog_rates/status/887705289381826560/photo/1
22 https://twitter.com/dog_rates/status/887517139158093824/video/1
23 https://twitter.com/dog_rates/status/887473957103951883/photo/1,https://twitter.com
24 https://twitter.com/dog_rates/status/887343217045368832/video/1
25 https://twitter.com/dog_rates/status/887101392804085760/photo/1
26 https://twitter.com/dog_rates/status/886983233522544640/photo/1,https://twitter.com
27
   https://www.gofundme.com/mingusneedsus,https://twitter.com/dog_rates/status/8867368
28 https://twitter.com/dog_rates/status/886680336477933568/photo/1
29 https://twitter.com/dog_rates/status/886366144734445568/photo/1,https://twitter.com
30 NaN
31 https://twitter.com/dog_rates/status/886258384151887873/photo/1
32 https://twitter.com/dog_rates/status/886053434075471873,https://twitter.com/dog_rat
33 https://twitter.com/dog_rates/status/885984800019947520/photo/1
34 https://twitter.com/dog_rates/status/885528943205470208/photo/1
35 https://twitter.com/4bonds2carbon/status/885517367337512960
36 https://twitter.com/dog_rates/status/830583320585068544/photo/1,https://twitter.com
   https://twitter.com/dog_rates/status/885167619883638784/photo/1,https://twitter.com
37
38 https://twitter.com/dog_rates/status/884925521741709313/photo/1
39 https://twitter.com/dog_rates/status/884876753390489601/photo/1,https://twitter.com
40 https://twitter.com/dog_rates/status/884562892145688576/photo/1
   https://twitter.com/dog_rates/status/884441805382717440/photo/1
41
   https://twitter.com/kaijohnson_19/status/883965650754039809
42
   https://twitter.com/dog_rates/status/884162670584377345/photo/1
43
   \verb|https://twitter.com/dog_rates/status/883838122936631299/photo/1|
44
45 https://twitter.com/dog_rates/status/883482846933004288/photo/1,https://twitter.com
46 https://twitter.com/dog_rates/status/883360690899218434/photo/1
   https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com
47
48 https://twitter.com/dog_rates/status/882992080364220416/photo/1,https://twitter.com
```

https://twitter.com/dog_rates/status/882762694511734784/photo/1

	rating_numerator	rating_denominator	name	doggo	floofer	pupper	\
0	13	10	Phineas	None	None	None	
1	13	10	Tilly	None	None	None	
2	12	10	Archie	None	None	None	
3	13	10	Darla	None	None	None	
4	12	10	Franklin	None	None	None	
5	13	10	None	None	None	None	
6	13	10	Jax	None	None	None	
7	13	10	None	None	None	None	
8	13	10	Zoey	None	None	None	
9	14	10	Cassie	doggo	None	None	
10	13	10	Koda	None	None	None	
11	13	10	Bruno	None	None	None	
12	13	10	None	None	None	None	
13	12	10	Ted	None	None	None	
14	13	10	Stuart	None	None	None	
15	13	10	Oliver	None	None	None	
16	12	10	Jim	None	None	None	
17	13	10	Zeke	None	None	None	
18	13	10	Ralphus	None	None	None	
19	13	10	Canela	None	None	None	
20	12	10	Gerald	None	None	None	
21	13	10	Jeffrey	None	None	None	
22	14	10	such	None	None	None	
23	13	10	Canela	None	None	None	
24	13	10	None	None	None	None	
25	12	10	None	None	None	None	
26	13	10	Maya	None	None	None	
27	13	10	Mingus	None	None	None	
28	13	10	Derek	None	None	None	
29	12	10	Roscoe	None	None	pupper	
30	12	10	None	None	None	None	
31	13	10	Waffles	None	None	None	
32	12	10	None	None	None	None	
33	12	10	Jimbo	None	None	None	
34	13	10	Maisey	None	None	None	
35	14	10	None	None	None	None	
36	13	10	Lilly	None	None	None	
37	13	10	None	None	None	None	
38	12	10	Earl	None	None	None	
39	13	10	Lola	None	None	None	
40	13	10	Kevin	None	None	None	
41	14	10	None	None	None	None	
42	13	10	None	None	None	None	
43	12	10	Yogi	doggo	None	None	
44	12	10	Noah	None	None	None	
45	5	10	Bella	None	None	None	
46	13	10	Grizzwald	None	floofer	None	

47	13	10	None	None	None	${\tt None}$
48	13	10	Rusty	None	None	None
49	12	10	Gus	None	None	pupper

puppo

- 0 None
- 1 None
- 2 None
- 3 None
- 4 None
- 5 None
- 6 None
- 7 None
- 8 None
- 9 None
- 10 None
- _ _ ____
- 11 None
- 12 puppo
- 13 None
- 14 puppo
- 15 None
- 16 None
- 17 None
- 18 None
- 19 None
- 20 None
- 21 None
- 22 None
- 23 None
- 24 None
- 25 None
- 26 None
- 27 None
- 28 None
- 29 None
- 30 None
- 31 None
- 32 None
- 33 None
- 34 None
- 35 None
- 36 None
- 37 None
- 38 None
- 39 None
- 40 None
- 41 None
- 42 None

```
43 None
44 None
45 None
46 None
47 None
48 None
49 None
```

We have 2356 entries in WeRateDogs Archive. 17 columns are provided as part of the dataset.

```
In [63]: WeRateDogs_archive.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2356 entries, 0 to 2355
Data columns (total 17 columns):
                                                                              2356 non-null int64
tweet_id
in_reply_to_status_id
                                                                              78 non-null float64
in_reply_to_user_id
                                                                              78 non-null float64
                                                                              2356 non-null object
timestamp
                                                                              2356 non-null object
source
                                                                              2356 non-null object
text
retweeted_status_id
                                                                              181 non-null float64
retweeted_status_user_id
                                                                              181 non-null float64
retweeted_status_timestamp
                                                                              181 non-null object
expanded_urls
                                                                              2297 non-null object
                                                                              2356 non-null int64
rating_numerator
rating_denominator
                                                                              2356 non-null int64
name
                                                                              2356 non-null object
                                                                              2356 non-null object
doggo
floofer
                                                                              2356 non-null object
                                                                              2356 non-null object
pupper
                                                                              2356 non-null object
puppo
dtypes: float64(4), int64(3), object(10)
memory usage: 313.0+ KB
In [64]: url=" https://d17h27t6h515a5.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/2017/August/599fd2ad_image-predictions.cloudfront.net/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/topher/toph
                       response = requests.get(url)
                       with open('image_predictions.tsv', 'wb') as file:
                                  file.write(response.content)
                       image_predictions = pd.read_csv('image_predictions.tsv', sep='\t')
                       image_predictions.head()
Out [64]:
                                                         tweet_id
                                                                                                                                                                                            jpg_url \
                       O 666020888022790149 https://pbs.twimg.com/media/CT4udnOWwAAOaMy.jpg
                       1 666029285002620928 https://pbs.twimg.com/media/CT42GRgUYAA5iDo.jpg
```

```
2 666033412701032449 https://pbs.twimg.com/media/CT4521TWwAEvMyu.jpg
         3 666044226329800704 https://pbs.twimg.com/media/CT5Dr8HUEAA-1Eu.jpg
         4 666049248165822465 https://pbs.twimg.com/media/CT5IQmsXIAAKY4A.jpg
            img_num
                                              p1_conf p1_dog
                                                                               p2 \
         0 1
                     Welsh_springer_spaniel 0.465074 True
                                                               collie
         1 1
                     redbone
                                             0.506826 True
                                                               miniature_pinscher
                     German_shepherd
                                             0.596461 True
                                                               malinois
         3 1
                     Rhodesian_ridgeback
                                             0.408143 True
                                                               redbone
         4 1
                     miniature_pinscher
                                             0.560311 True
                                                               Rottweiler
             p2_conf p2_dog
                                                    p3_conf p3_dog
                                               рЗ
         0 0.156665
                     True
                              Shetland_sheepdog
                                                   0.061428 True
         1 0.074192 True
                              Rhodesian_ridgeback
                                                  0.072010 True
         2 0.138584
                      True
                              bloodhound
                                                   0.116197
                                                             True
         3 0.360687 True
                              miniature_pinscher
                                                   0.222752 True
         4 0.243682 True
                              Doberman
                                                   0.154629 True
  Gather data from twitter API using Python's Tweepy library and store data
In [117]: consumer_key = ''
          consumer_secret = ''
          access_token = ''
          access_secret = ''
          api = tweepy.API(auth, wait_on_rate_limit=True , wait_on_rate_limit_notify=True)
          auth = tweepy.OAuthHandler(consumer_key, consumer_secret)
          auth.set_access_token(access_token, access_secret)
          111
          txt_file=open('tweet-json.txt','w')
          #txt_file.write('tweet_id retweet_count favorite_count''\n')
          for tweet_id in df1.tweet_id:
              try:
                  tweet_info=api.get_status(str(tweet_id), tweet_mode='extended')
                  retweet_count=tweet_info.retweet_count
                  print(tweet_id)
                  favorite\_count = tweet\_info.favorite\_count
                  txt\_file.write(tweet\_id+' '+str(retweet\_count)+' '+str(favorite\_count)+' \n')
              except Exception as e:
                  print('error')
          txt_file.close()
Out[117]: "\ntxt_file=open('tweet-json.txt','w')\n#txt_file.write('tweet_id retweet_count favori
In [65]: # Reading tweet-json.txt file, line by line and append it to "status" list
         with open('tweet-json.txt') as file:
             status = []
             for line in file:
```

```
status.append(json.loads(line))
         #using json_normalize to convert json keys to columns
         from pandas.io.json import json_normalize
         df_json = pd.DataFrame.from_dict(json_normalize(status), orient='columns')
         # Refining the the json dataframe to the columns we need for analysis
         columns_needed = ['id' , 'retweet_count' , 'favorite_count']
         df_json_cleaned = df_json[columns_needed]
         df_json_cleaned.rename(columns = {'id':'tweet_id'}, inplace=True)
         df_json_cleaned.head()
/opt/conda/lib/python3.6/site-packages/pandas/core/frame.py:2746: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html#
  **kwargs)
Out[65]:
                      tweet_id retweet_count favorite_count
        0 892420643555336193 8853
                                               39467
         1 892177421306343426 6514
                                               33819
         2 891815181378084864 4328
                                               25461
         3 891689557279858688 8964
                                               42908
         4 891327558926688256 9774
                                               41048
   Assessing
In [66]: WeRateDogs_archive.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2356 entries, 0 to 2355
Data columns (total 17 columns):
```

```
78 non-null float64
in_reply_to_user_id
timestamp
                              2356 non-null object
                              2356 non-null object
source
                              2356 non-null object
text
                              181 non-null float64
retweeted_status_id
retweeted_status_user_id
                              181 non-null float64
retweeted_status_timestamp
                              181 non-null object
expanded_urls
                              2297 non-null object
                              2356 non-null int64
rating_numerator
```

tweet id

in_reply_to_status_id

2356 non-null int64

78 non-null float64

```
rating_denominator
                              2356 non-null int64
                              2356 non-null object
name
                              2356 non-null object
doggo
                              2356 non-null object
floofer
                              2356 non-null object
pupper
                              2356 non-null object
puppo
dtypes: float64(4), int64(3), object(10)
memory usage: 313.0+ KB
In [67]: WeRateDogs_archive.tweet_id.nunique()
         print("All IDs are unique")
All IDs are unique
In [68]: print (WeRateDogs_archive.source.value_counts())
         print("\n No twiiter for Android ?!! Weird Hah :) ")
<a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
                                                                                        2221
<a href="http://vine.co" rel="nofollow">Vine - Make a Scene</a>
                                                                                        91
<a href="http://twitter.com" rel="nofollow">Twitter Web Client</a>
                                                                                        33
<a href="https://about.twitter.com/products/tweetdeck" rel="nofollow">TweetDeck</a>
                                                                                        11
Name: source, dtype: int64
No twiiter for Android ?!! Weird Hah :)
In [69]: #This is to see full text and assessing the data deeply;)
         pd.set_option('display.max_colwidth', -1)
         #Here we want to see if there is another way of calling a dog name other than "This is'
         WeRateDogs_archive[~WeRateDogs_archive['text'].str.contains("This is" , case=False)]
Out[69]:
                         tweet_id in_reply_to_status_id in_reply_to_user_id \
         5
               891087950875897856 NaN
                                                          NaN
               890971913173991426 NaN
                                                          NaN
         7
               890729181411237888 NaN
                                                          NaN
               889665388333682689 NaN
                                                          NaN
         24
               887343217045368832 NaN
                                                          NaN
         25
               887101392804085760 NaN
                                                          NaN
         30
               886267009285017600 8.862664e+17
                                                          2.281182e+09
         32
               886054160059072513 NaN
                                                         NaN
         35
               885518971528720385 NaN
                                                          NaN
         37
               885167619883638784 NaN
                                                          NaN
               884441805382717440 NaN
                                                          NaN
         42
               884247878851493888 NaN
                                                         NaN
         43
               884162670584377345 NaN
                                                         NaN
         46
               883360690899218434 NaN
                                                          NaN
```

```
47
      883117836046086144 NaN
                                                 NaN
55
      881633300179243008 8.816070e+17
                                                 4.738443e+07
56
      881536004380872706 NaN
                                                 NaN
57
      881268444196462592 NaN
                                                 NaN
      880872448815771648 NaN
59
                                                 NaN
61
      880221127280381952 NaN
                                                 NaN
62
      880095782870896641 NaN
                                                 {\tt NaN}
64
      879674319642796034 8.795538e+17
                                                 3.105441e+09
72
      878604707211726852 NaN
                                                 NaN
73
      878404777348136964 NaN
                                                 NaN
74
      878316110768087041 NaN
                                                 NaN
75
      878281511006478336 NaN
                                                 NaN
78
      877611172832227328 NaN
                                                 NaN
80
      877316821321428993 NaN
                                                 NaN
83
      876537666061221889 NaN
                                                 NaN
85
      876120275196170240 NaN
                                                 NaN
                                                 . .
. . .
2301 667044094246576128 NaN
                                                 NaN
2305 666837028449972224 NaN
                                                 NaN
2306 666835007768551424 NaN
                                                 NaN
2307
      666826780179869698 NaN
                                                 NaN
2310 666786068205871104 NaN
                                                 NaN
2316 666649482315059201 NaN
                                                 NaN
2320 666437273139982337 NaN
                                                 NaN
2321 666435652385423360 NaN
                                                 NaN
2322 666430724426358785 NaN
                                                 NaN
2323 666428276349472768 NaN
                                                 NaN
2324
     666421158376562688 NaN
                                                 NaN
2328
      666396247373291520 NaN
                                                 NaN
2329
     666373753744588802 NaN
                                                 NaN
2330
     666362758909284353 NaN
                                                 NaN
2331
      666353288456101888 NaN
                                                 NaN
2332 666345417576210432 NaN
                                                 NaN
2336 666273097616637952 NaN
                                                 NaN
2337
      666268910803644416 NaN
                                                 NaN
2338
      666104133288665088 NaN
                                                 NaN
2339
      666102155909144576 NaN
                                                 NaN
2340
      666099513787052032 NaN
                                                 NaN
2341
      666094000022159362 NaN
                                                 NaN
2342 666082916733198337 NaN
                                                 NaN
2343 666073100786774016 NaN
                                                 NaN
2344
      666071193221509120 NaN
                                                 NaN
2346
      666058600524156928 NaN
                                                 NaN
2348
     666055525042405380 NaN
                                                 NaN
2351
      666049248165822465 NaN
                                                 NaN
2353
      666033412701032449 NaN
                                                 NaN
2355 666020888022790149 NaN
                                                 NaN
```

```
timestamp
5
      2017-07-29 00:08:17 +0000
6
      2017-07-28 16:27:12 +0000
7
      2017-07-28 00:22:40 +0000
12
      2017-07-25 01:55:32 +0000
      2017-07-18 16:08:03 +0000
24
25
      2017-07-18 00:07:08 +0000
30
      2017-07-15 16:51:35 +0000
32
      2017-07-15 02:45:48 +0000
35
      2017-07-13 15:19:09 +0000
      2017-07-12 16:03:00 +0000
37
      2017-07-10 15:58:53 +0000
41
42
      2017-07-10 03:08:17 +0000
43
      2017-07-09 21:29:42 +0000
46
      2017-07-07 16:22:55 +0000
47
      2017-07-07 00:17:54 +0000
55
      2017-07-02 21:58:53 +0000
56
      2017-07-02 15:32:16 +0000
      2017-07-01 21:49:04 +0000
57
59
      2017-06-30 19:35:32 +0000
61
      2017-06-29 00:27:25 +0000
62
      2017-06-28 16:09:20 +0000
64
      2017-06-27 12:14:36 +0000
72
      2017-06-24 13:24:20 +0000
73
      2017-06-24 00:09:53 +0000
74
      2017-06-23 18:17:33 +0000
75
      2017-06-23 16:00:04 +0000
78
      2017-06-21 19:36:23 +0000
80
      2017-06-21 00:06:44 +0000
83
      2017-06-18 20:30:39 +0000
85
      2017-06-17 16:52:05 +0000
2301
     2015-11-18 18:17:59 +0000
2305
     2015-11-18 04:35:11 +0000
     2015-11-18 04:27:09 +0000
2306
2307
      2015-11-18 03:54:28 +0000
2310
     2015-11-18 01:12:41 +0000
2316
     2015-11-17 16:09:56 +0000
2320 2015-11-17 02:06:42 +0000
2321
      2015-11-17 02:00:15 +0000
2322 2015-11-17 01:40:41 +0000
2323
     2015-11-17 01:30:57 +0000
2324
      2015-11-17 01:02:40 +0000
2328
     2015-11-16 23:23:41 +0000
2329
     2015-11-16 21:54:18 +0000
2330
     2015-11-16 21:10:36 +0000
2331
      2015-11-16 20:32:58 +0000
2332 2015-11-16 20:01:42 +0000
```

```
2339 2015-11-16 03:55:04 +0000
2340 2015-11-16 03:44:34 +0000
2341 2015-11-16 03:22:39 +0000
2342 2015-11-16 02:38:37 +0000
2343 2015-11-16 01:59:36 +0000
2344 2015-11-16 01:52:02 +0000
2346 2015-11-16 01:01:59 +0000
2348 2015-11-16 00:49:46 +0000
2351 2015-11-16 00:24:50 +0000
2353 2015-11-15 23:21:54 +0000
2355 2015-11-15 22:32:08 +0000
                                                                                    sourc
5
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
6
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
7
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
12
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
24
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
25
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
30
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
32
35
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
37
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
41
42
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
43
46
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a</pre>
47
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
55
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
56
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
57
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
59
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
61
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
62
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
64
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
72
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
73
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
74
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a</pre>
75
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
78
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
80
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
83
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a</pre>
85
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2301
```

2336 2015-11-16 15:14:19 +0000 2337 2015-11-16 14:57:41 +0000 2338 2015-11-16 04:02:55 +0000

```
<a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2305
2306
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone/a
2307
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2310
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2316
2320
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2322
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2323
2324
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2328
2329
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone/a
2330
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2331
2332
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
2336
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
2337
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2338
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2339
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2340
2341
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2342
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2343
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2344
2346
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2348
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2351
2353
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone/a
2355
```

5 Here we have a majestic great white breaching off South Africa's coast. Absolutel 6 Meet Jax. He enjoys ice cream so much he gets nervous around it. 13/10 help Jax e 7 When you watch your owner call another dog a good boy but then they turn back to 12 Here's a puppo that seems to be on the fence about something haha no but serious 24 You may not have known you needed to see this today. 13/10 please enjoy (IG: emmy 25 This... is a Jubilant Antarctic House Bear. We only rate dogs. Please only send of 30 @NonWhiteHat @MayhewMayhem omg hello tanner you are a scary good boy 12/10 would 32 RT @Athletics: 12/10 #BATP https://t.co/WxwJmvjfxo 35

I have a new hero and his name is Howard. 14/10 https://t.co/gzLHboL7Sk

37 Here we have a corgi undercover as a malamute. Pawbably doing important investiga 41 I present to you, Pup in Hat. Pup in Hat is great for all occasions. Extremely ve 42 OMG HE DIDN'T MEAN TO HE WAS JUST TRYING A LITTLE BARKOUR HE'S SUPER SORRY 13/10

43 Meet Yogi. He doesn't have any important dog meetings today he just enjoys lookin 46 Meet Grizzwald. He may be the floofiest floofer I ever did see. Lost eyes saving

47 Please only send dogs. We don't rate mechanics, no matter how h*ckin good. Thank 55 @roushfenway These are good dogs but 17/10 is an emotional impulse rating. More 1

56 Here is a pupper approaching maximum borkdrive. Zooming at never before seen spee

```
74
     RT @dog_rates: Meet Terrance. He's being yelled at because he stapled the wrong s
75
     Meet Shadow. In an attempt to reach maximum zooming borkdrive, he tore his ACL. S
78
     RT @rachel2195: @dog_rates the boyfriend and his soaking wet pupper h*cking love
80
     Meet Dante. At first he wasn't a fan of his new raincoat, then he saw his reflect
     I can say with the pupmost confidence that the doggos who assisted with this sear
83
85
     Meet Venti, a seemingly caffeinated puppoccino. She was just informed the weekend
2301
     12/10 gimme now https://t.co/QZAnwgnOMB
2305
     My goodness. Very rare dog here. Large. Tail dangerous. Kinda fat. Only eats leav
2306
     These are Peruvian Feldspars. Their names are Cupit and Prencer. Both resemble Ra
2307
     12/10 simply brilliant pup https://t.co/V6ZzG45zzG
2310 Unfamiliar with this breed. Ears pointy af. Won't let go of seashell. Won't eat k
2316
     Cool dog. Enjoys couch. Low monotone bark. Very nice kicks. Pisses milk (must be
2320
     Here we see a lone northeastern Cumberbatch. Half ladybug. Only builds with brick
2321
     "Can you behave? You're ruining my wedding day"\nDOG: idgaf this flashlight taste
2322 Oh boy what a pup! Sunglasses take this one to the next level. Weirdly folds from
2323
     Here we have an Austrian Pulitzer. Collectors edition. Levitates (?). 7/10 would
2324
     *internally screaming* 12/10 https://t.co/YMcrXC2Y6R
2328
     Oh goodness. A super rare northeast Qdoba kangaroo mix. Massive feet. No pouch (d
     Those are sunglasses and a jean jacket. 11/10 dog cool af https://t.co/uHXrPkUEyl
2329
2330
     Unique dog here. Very small. Lives in container of Frosted Flakes (?). Short legs
2331
     Here we have a mixed Asiago from the Galápagos Islands. Only one ear working. Big
2332 Look at this jokester thinking seat belt laws don't apply to him. Great tongue th
2336
     Can take selfies 11/10 https://t.co/ws2AMaNwPW
2337
     Very concerned about fellow dog trapped in computer. 10/10 https://t.co/0yxApIikp
2338
     Not familiar with this breed. No tail (weird). Only 2 legs. Doesn't bark. Surpris
2339
     Oh my. Here you are seeing an Adobe Setter giving birth to twins!!! The world is
2340
     Can stand on stump for what seems like a while. Built that birdhouse? Impressive.
2341
     This appears to be a Mongolian Presbyterian mix. Very tired. Tongue slip confirme
2342 Here we have a well-established sunblockerspaniel. Lost his other flip-flop. 6/10
2343 Let's hope this flight isn't Malaysian (lol). What a dog! Almost completely camou
2344 Here we have a northern speckled Rhododendron. Much sass. Gives O fucks. Good tor
2346 Here is the Rand Paul of retrievers folks! He's probably good at poker. Can drink
2348 Here is a Siberian heavily armored polar bear mix. Strong owner. 10/10 I would do
2351
     Here we have a 1949 1st generation vulpix. Enjoys sweat tea and Fox News. Cannot
2353
     Here is a very happy pup. Big fan of well-maintained decks. Just look at that tor
2355
     Here we have a Japanese Irish Setter. Lost eye in Vietnam (?). Big fan of relaxir
     retweeted_status_id retweeted_status_user_id \
5
    NaN
                          NaN
6
                          NaN
    NaN
```

Meet Elliot. He's a Canadian Forrest Pup. Unusual number of antlers for a dog. Sr.

Ugh not again. We only rate dogs. Please don't send in well-dressed floppy-tongu

Meet Jesse. He's a Fetty Woof. His tongue ejects without warning. A true bleptoma Please don't send in photos without dogs in them. We're not @porch_rates. Insubor

RT @dog_rates: Meet Shadow. In an attempt to reach maximum zooming borkdrive, he

Martha is stunning how h*ckin dare you. 13/10 https://t.co/9uABQXgjwa

57

59

61

62 64

72

73

@RealKentMurphy 14/10 confirmed

7	NaN	NaN
12	NaN	NaN
24		NaN
25	NaN	NaN
30	NaN	NaN
32	8.860537e+17	1.960740e+07
35		NaN
37	NaN	NaN
	NaN	NaN
42		NaN
43		NaN
46	NaN	NaN
	NaN	NaN
55		NaN
56		NaN
	NaN	NaN
	NaN	NaN
61 62		NaN
		NaN
64	NaN	NaN N-N
72 72		NaN
	8.782815e+17	4.196984e+09
	6.690004e+17	4.196984e+09
	NaN	NaN
78	8.768508e+17	5.128045e+08
00	AT AT	NT NT
80		NaN
83	NaN	NaN
83		
83 85 	NaN NaN 	NaN NaN
83 85 2301	NaN NaN NaN	NaN NaN NaN
83 85 2301 2305	NaN NaN NaN NaN	NaN NaN NaN NaN
83 85 2301 2305 2306	NaN NaN NaN NaN NaN	NaN NaN NaN NaN NaN
83 85 2301 2305 2306 2307	NaN NaN NaN NaN NaN NaN NaN	NaN NaN NaN NaN NaN NaN NaN
83 85 2301 2305 2306 2307 2310	NaN NaN NaN NaN NaN NaN NaN NaN	NaN NaN NaN NaN NaN NaN NaN NaN
83 85 2301 2305 2306 2307 2310 2316	NaN NaN NaN NaN NaN NaN NaN NaN NaN	NaN NaN NaN NaN NaN NaN NaN NaN NaN
83 85 2301 2305 2306 2307 2310 2316 2320	NaN NaN NaN NaN NaN NaN NaN NaN NaN N	NaN
83 85 2301 2305 2306 2307 2310 2316 2320 2321	NaN NaN NaN NaN NaN NaN NaN NaN NaN	NaN NaN NaN NaN NaN NaN NaN NaN NaN N
83 85 2301 2305 2306 2307 2310 2316 2320 2321 2322	NaN	NaN
83 85 2301 2305 2306 2307 2310 2316 2320 2321 2322 2323	NaN NaN NaN NaN NaN NaN NaN NaN NaN	NaN NaN NaN NaN NaN NaN NaN NaN NaN N
83 85 2301 2305 2306 2307 2310 2316 2320 2321 2322 2323 2324	NaN NaN NaN NaN NaN NaN NaN NaN NaN	NaN NaN NaN NaN NaN NaN NaN NaN NaN N
83 85 2301 2305 2306 2307 2310 2316 2320 2321 2322 2323 2324 2328	NaN NaN NaN NaN NaN NaN NaN NaN NaN	NaN NaN NaN NaN NaN NaN NaN NaN NaN N
83 85 2301 2305 2306 2307 2310 2316 2320 2321 2322 2323 2324 2328 2329	NaN NaN NaN NaN NaN NaN NaN NaN NaN	NaN
83 85 2301 2305 2306 2307 2310 2316 2320 2321 2322 2323 2324 2328 2329 2330	NaN NaN NaN NaN NaN NaN NaN NaN NaN	NaN NaN NaN NaN NaN NaN NaN NaN NaN
83 85 2301 2305 2306 2307 2310 2316 2320 2321 2322 2323 2324 2328 2329 2330 2331	NaN NaN NaN NaN NaN NaN NaN NaN NaN	NaN NaN NaN NaN NaN NaN NaN NaN NaN
83 85 2301 2305 2306 2307 2310 2316 2320 2321 2322 2323 2324 2328 2329 2330 2331 2332	NaN	NaN NaN NaN NaN NaN NaN NaN NaN NaN
83 85 2301 2305 2306 2307 2310 2316 2320 2321 2322 2323 2324 2328 2329 2330 2331 2332 2336	NaN NaN NaN NaN NaN NaN NaN NaN NaN	NaN NaN NaN NaN NaN NaN NaN NaN NaN
83 85 2301 2305 2306 2307 2310 2316 2320 2321 2322 2323 2324 2328 2329 2330 2331 2332	NaN	NaN NaN NaN NaN NaN NaN NaN NaN NaN

```
2339 NaN
                               NaN
2340 NaN
                               NaN
2341 NaN
                               {\tt NaN}
2342 NaN
                               NaN
2343 NaN
                               NaN
2344 NaN
                               {\tt NaN}
2346 NaN
                               NaN
2348 NaN
                               NaN
2351 NaN
                               NaN
2353 NaN
                               NaN
2355 NaN
                               NaN
     retweeted_status_timestamp \
5
       NaN
6
       NaN
7
       NaN
12
       NaN
24
       NaN
25
       {\tt NaN}
30
       NaN
32
       2017-07-15 02:44:07 +0000
35
       NaN
37
       {\tt NaN}
41
       NaN
42
       NaN
43
       {\tt NaN}
46
       {\tt NaN}
47
       NaN
55
       NaN
56
       NaN
57
       NaN
59
       {\tt NaN}
61
       NaN
62
       NaN
64
       NaN
72
       NaN
73
       2017-06-23 16:00:04 +0000
74
       2015-11-24 03:51:38 +0000
75
       NaN
78
       2017-06-19 17:14:49 +0000
80
       NaN
83
       NaN
85
       NaN
. . .
       . . .
2301
      {\tt NaN}
2305
       {\tt NaN}
2306
      {\tt NaN}
2307
      {\tt NaN}
```

```
2316 NaN
2320 NaN
2321 NaN
2322 NaN
2323 NaN
2324 NaN
2328 NaN
2329 NaN
2330 NaN
2331 NaN
2332 NaN
2336 NaN
2337 NaN
2338 NaN
2339 NaN
2340 NaN
2341 NaN
2342 NaN
2343 NaN
2344 NaN
2346 NaN
2348 NaN
2351 NaN
2353 NaN
2355 NaN
5
             https://twitter.com/dog_rates/status/891087950875897856/photo/1
6
             https://gofundme.com/ydvmve-surgery-for-jax,https://twitter.com/dog_rates/status/
7
             https://twitter.com/dog_rates/status/890729181411237888/photo/1,https://twitter.c
12
             https://twitter.com/dog_rates/status/889665388333682689/photo/1
24
             https://twitter.com/dog_rates/status/887343217045368832/video/1
25
             https://twitter.com/dog_rates/status/887101392804085760/photo/1
30
32
             https://twitter.com/dog_rates/status/886053434075471873,https://twitter.com/dog_r
             https://twitter.com/4bonds2carbon/status/885517367337512960
35
37
             https://twitter.com/dog_rates/status/885167619883638784/photo/1,https://twitter.c
41
             https://twitter.com/dog_rates/status/884441805382717440/photo/1
             https://twitter.com/kaijohnson_19/status/883965650754039809
42
43
             https://twitter.com/dog_rates/status/884162670584377345/photo/1
             https://twitter.com/dog_rates/status/883360690899218434/photo/1
46
47
             https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046086144/photo/1,https://twitter.com/dog_rates/status/883117836046096144/photo/1,https://twitter.com/dog_rates/status/883117836046096144/photo/1,https://twitter.com/dog_rates/status/883117836046096144/photo/1,https://twitter.com/dog_rates/status/883117836046096144/photo/1,https://twitter.com/dog_rates/status/883117836046096144/photo/1,https://twitter.com/dog_rates/status/8831178360460961444/photo/1,https://twitter.com/dog_rates/status/883117880460961444/photo/1,https://twitter.com/dog_rates/status/883117880460961444/photo/888804096144096144099614409961440996144099614400996144009961440
55
56
             https://twitter.com/dog_rates/status/881536004380872706/video/1
57
             https://twitter.com/dog_rates/status/881268444196462592/photo/1
59
             https://twitter.com/dog_rates/status/880872448815771648/photo/1
61
             https://twitter.com/dog_rates/status/880221127280381952/photo/1,https://twitter.c
```

2310 NaN

```
62
      https://twitter.com/dog_rates/status/880095782870896641/photo/1
64
      NaN
72
      https://twitter.com/bbcworld/status/878599868507402241
73
      https://www.gofundme.com/3yd6y1c,https://twitter.com/dog_rates/status/87828151100
74
      https://twitter.com/dog_rates/status/669000397445533696/photo/1
75
      https://www.gofundme.com/3yd6y1c,https://twitter.com/dog_rates/status/87828151100
78
      https://twitter.com/rachel2195/status/876850772322988033/photo/1,https://twitter.
80
      https://twitter.com/dog_rates/status/877316821321428993/photo/1,https://twitter.c
83
      https://twitter.com/mpstowerham/status/876162994446753793
85
      https://twitter.com/dog_rates/status/876120275196170240/photo/1
. . .
      https://twitter.com/dog_rates/status/667044094246576128/photo/1
2301
      https://twitter.com/dog_rates/status/666837028449972224/photo/1
2305
      https://twitter.com/dog_rates/status/666835007768551424/photo/1
2306
2307
      https://twitter.com/dog_rates/status/666826780179869698/photo/1
      https://twitter.com/dog_rates/status/666786068205871104/photo/1
2310
2316
      https://twitter.com/dog_rates/status/666649482315059201/photo/1
2320
      https://twitter.com/dog_rates/status/666437273139982337/photo/1
2321
      https://twitter.com/dog_rates/status/666435652385423360/photo/1
      https://twitter.com/dog_rates/status/666430724426358785/photo/1
2322
2323
      https://twitter.com/dog_rates/status/666428276349472768/photo/1
      https://twitter.com/dog_rates/status/666421158376562688/photo/1
2324
2328
      https://twitter.com/dog_rates/status/666396247373291520/photo/1
2329
      https://twitter.com/dog_rates/status/666373753744588802/photo/1
2330
      https://twitter.com/dog_rates/status/666362758909284353/photo/1
      https://twitter.com/dog_rates/status/666353288456101888/photo/1
2331
2332
      https://twitter.com/dog_rates/status/666345417576210432/photo/1
      https://twitter.com/dog_rates/status/666273097616637952/photo/1
2336
      https://twitter.com/dog_rates/status/666268910803644416/photo/1
2337
2338
      https://twitter.com/dog_rates/status/666104133288665088/photo/1
2339
      https://twitter.com/dog_rates/status/666102155909144576/photo/1
2340
      https://twitter.com/dog_rates/status/666099513787052032/photo/1
2341
      https://twitter.com/dog_rates/status/666094000022159362/photo/1
      https://twitter.com/dog_rates/status/666082916733198337/photo/1
2342
2343
      https://twitter.com/dog_rates/status/666073100786774016/photo/1
2344
      https://twitter.com/dog_rates/status/666071193221509120/photo/1
      https://twitter.com/dog_rates/status/666058600524156928/photo/1
2348
      https://twitter.com/dog_rates/status/666055525042405380/photo/1
      https://twitter.com/dog_rates/status/666049248165822465/photo/1
2351
      https://twitter.com/dog_rates/status/666033412701032449/photo/1
2353
2355
      https://twitter.com/dog_rates/status/666020888022790149/photo/1
      rating_numerator
                        rating_denominator
                                                  name
                                                        doggo
                                                               floofer
                                                                        pupper
5
      13
                        10
                                             None
                                                        None
                                                               None
                                                                        None
6
      13
                        10
                                             Jax
                                                        None
                                                               None
                                                                        None
7
      13
                        10
                                             None
                                                        None
                                                               None
                                                                        None
12
      13
                        10
                                             None
                                                        None
                                                               None
                                                                        None
24
      13
                        10
                                             None
                                                        None
                                                               None
                                                                        None
```

25	12	10	None	None	None	None
30	12	10	None	None	None	None
32	12	10	None	None	None	None
35	14	10	None	None	None	None
37	13	10	None	None	None	None
41	14	10	None	None	None	None
42	13	10	None	None	None	None
43	12	10	Yogi	doggo	None	None
46	13	10	Grizzwald		floofer	
47	13	10	None	None	None	None
55	17	10	None	None	None	None
56	14	10	a	None	None	pupper
57	12	10	Elliot	None	None	None
59	12	10	None	None	None	None
61	12	10	Jesse	None	None	None
62	11	10	None	None	None	None
64	14	10	None	None	None None	None None
72	13	10	None	None	None None	
			Shadow			None
73	13	10		None	None	None
74 75	11	10	Terrance	None	None	None
75 70	13	10	Shadow	None	None	None
78	14	10	None	None	None	pupper
80	13	10	Dante	None	None	None
83	14	10	None	None	None	None
85	13	10	Venti	None	None	None
2301	12	10	None	None	None	None
2305	3	10	None	None	None	None
2306	10	10	None	None	None	None
2307	12	10	None	None	None	None
2310	2	10	None	None	None	None
2316	4	10	None	None	None	None
2320	7	10	None	None	None	None
2321	10	10	None	None	None	None
2322	6	10	None	None	None	None
2323	7	10	None	None	None	None
2324	12	10	None	None	None	None
2328	9	10	None	None	None	None
2329	11	10	None	None	None	None
2330	6	10	None	None	None	None
2331	8	10	None	None	None	None
2332	10	10	None	None	None	None
0000	4.4	10	None	None	None	None
2336	11					
2337	10	10	None	None	None	None
2337 2338	10 1	10 10	None None	None None		None None
2337 2338 2339	10	10 10 10	None None None	None None None	None	
2337 2338 2339 2340	10 1 11 8	10 10 10 10	None None None None	None None	None None None	None None None
2337 2338 2339	10 1 11	10 10 10	None None None	None None None	None None None	None None

2342 2343 2344 2346 2348 2351 2353 2355	6 10 9 8 10 5 9	10 10 10 10 10 10 10	None None the a None a	None None None None None None	None None None None None None	None None None None None None
2355	8	10	None	None	None	None

puppo 5 None 6 None 7 None 12 puppo 24 None25 None 30 None 32 None 35 None 37 None 41 None 42 None 43 None 46 None 47 None 55 None 56 None 57 None 59 None 61 None 62 None 64 None 72 None 73 None 74 None 75 None 78 None 80 None 83 None 85 None 2301 None 2305 None 2306 None 2307 None 2310 None 2316 None 2320 None

```
2321 None
2322 None
2323 None
2324 None
2328 None
2329 None
2330 None
2331 None
2332 None
2336 None
2337 None
2338 None
2339 None
2340 None
2341 None
2342 None
2343 None
2344 None
2346 None
2348 None
2351 None
2353 None
2355 None
[1069 rows x 17 columns]
```

2.1 People usualy (from tweets) call their dogs on the following ways:

- This is
- Meet
- Here is
- Here's
- Named
- His name is

Let's see if the previous calls exist in a tweet text and no name is stated for that

```
Out[71]: 1611
In [72]: print("Number of tweets with name less than 2 characters long, not real name ")
         (WeRateDogs_archive[WeRateDogs_archive['name'].str.len() < 2]).count()[0]</pre>
Number of tweets with name less than 2 characters long, not real name
Out[72]: 56
In [73]: print("Sort data by names\n we can see more unmeanningful names ( Not real, propably :\
         WeRateDogs_archive.name.sort_values()
Sort data by names
we can see more unmeanningful names ( Not real, propably :\ )
Out[73]: 1035
                 Abby
         1021
                 Abby
         938
                 Ace
         1933
                 Acro
         1327
                 Adele
         1934
                 Aiden
         77
                 Aja
         480
                 Akumi
         820
                 Al
         875
                 Albert
         1954
                 Albert
         144
                 Albus
         412
                 Albus
         1115
                 Aldrick
         2046
                 Alejandro
         374
                 Alexander
         1189
                 Alexanderson
         486
                 Alf
         2238
                 Alfie
         661
                 Alfie
         367
                 Alfie
         1616
                 Alfie
         858
                 Alfie
         51
                 Alfy
         201
                 Alice
         1701
                 Alice
         1495
                 Amber
         1334
                 Ambrose
         2078
                 Amy
         2195
                 Amélie
```

. . .

```
852
                 my
         988
                 not
         335
                 not
         1747
                 officially
         1206
                 old
         993
                 one
         1936
                 one
         924
                 one
         369
                 one
         2326
                 quite
         169
                 quite
         118
                 quite
         193
                 quite
         2030
                 space
         22
                 such
         2345
                 the
         2346
                 the
         1603
                 the
         2037
                 the
         2212
                 the
         1815
                 the
         1797
                 the
         1527
                 the
         1120
                 this
         1121
                 unacceptable
         1031
                 very
         773
                 very
         1097
                 very
         819
                 very
         1385
                 very
         Name: name, Length: 2356, dtype: object
In [74]: print("Names with lower case, not real name as well")
         (WeRateDogs_archive.loc[(WeRateDogs_archive['name'].str.islower())]).count()[0]
Names with lower case, not real name as well
Out[74]: 109
In [75]: print("Showing text with (Name call) phrases and has lower case name")
         WeRateDogs_archive.loc[(WeRateDogs_archive['name'].str.islower()) & (WeRateDogs_archive
Showing text with (Name call) phrases and has lower case name
Out [75]:
                         tweet_id in_reply_to_status_id in_reply_to_user_id \
         22
               887517139158093824 NaN
                                                           NaN
         56
               881536004380872706 NaN
                                                           NaN
```

440	0.00000700074770000	NT NT	NT NT
118	869988702071779329		NaN
169		NaN	NaN
193	855459453768019968	NaN	NaN
335	832645525019123713	NaN	NaN
369	828650029636317184	NaN	NaN
542	806219024703037440	NaN	NaN
649	792913359805018113	NaN	NaN
759	778396591732486144	NaN	NaN
773		NaN	NaN
801		NaN	NaN
819	770655142660169732	NaN	NaN
822	770093767776997377	NaN	NaN
852	765395769549590528	NaN	NaN
924	755206590534418437	NaN	NaN
988	748977405889503236	NaN	NaN
992	748692773788876800	NaN	NaN
993		NaN	NaN
1002	747885874273214464	NaN	${\tt NaN}$
1004	747816857231626240	NaN	NaN
1017	746872823977771008	NaN	NaN
1025	746369468511756288	NaN	NaN
1031	745422732645535745	NaN	NaN
1040	744223424764059648	NaN	${\tt NaN}$
1049	743222593470234624	NaN	${\tt NaN}$
1063	741067306818797568	NaN	${\tt NaN}$
1071	740214038584557568	NaN	${\tt NaN}$
1097	736225175608430592	NaN	${\tt NaN}$
1121	730924654643314689	NaN	${\tt NaN}$
2191	668955713004314625	NaN	${\tt NaN}$
2198	668815180734689280	NaN	${\tt NaN}$
2204	668636665813057536	NaN	${\tt NaN}$
2211	668614819948453888	NaN	${\tt NaN}$
2212	668587383441514497	NaN	${\tt NaN}$
2218	668507509523615744	NaN	${\tt NaN}$
2222	668466899341221888	NaN	${\tt NaN}$
2235	668171859951755264	NaN	${\tt NaN}$
2249	667861340749471744	NaN	${\tt NaN}$
2255	667773195014021121	NaN	${\tt NaN}$
2264	667538891197542400	NaN	${\tt NaN}$
2273	667470559035432960	NaN	${\tt NaN}$
2287	667177989038297088	NaN	${\tt NaN}$
2304	666983947667116034	NaN	NaN
2311	666781792255496192	NaN	NaN
2314	666701168228331520	NaN	NaN
2326	666411507551481857	NaN	NaN
2327	666407126856765440	NaN	NaN
2333	666337882303524864	NaN	NaN

```
2334
      666293911632134144 NaN
                                                 NaN
2335
     666287406224695296 NaN
                                                 NaN
2345
      666063827256086533 NaN
                                                 NaN
2346
      666058600524156928 NaN
                                                 NaN
2347
      666057090499244032 NaN
                                                 NaN
2348
      666055525042405380 NaN
                                                 NaN
2349
      666051853826850816 NaN
                                                 NaN
2350
      666050758794694657 NaN
                                                 NaN
2352
     666044226329800704 NaN
                                                 NaN
2353
      666033412701032449 NaN
                                                 NaN
2354
     666029285002620928 NaN
                                                 {\tt NaN}
                      timestamp \
22
      2017-07-19 03:39:09 +0000
56
      2017-07-02 15:32:16 +0000
      2017-05-31 18:47:24 +0000
118
169
      2017-05-02 00:04:57 +0000
193
      2017-04-21 16:33:22 +0000
      2017-02-17 17:38:57 +0000
335
369
      2017-02-06 17:02:17 +0000
542
      2016-12-06 19:29:28 +0000
649
      2016-10-31 02:17:31 +0000
759
      2016-09-21 00:53:04 +0000
773
      2016-09-15 02:42:54 +0000
801
      2016-09-04 23:46:12 +0000
819
      2016-08-30 16:11:18 +0000
822
      2016-08-29 03:00:36 +0000
852
      2016-08-16 03:52:26 +0000
      2016-07-19 01:04:16 +0000
924
988
      2016-07-01 20:31:43 +0000
992
      2016-07-01 01:40:41 +0000
993
      2016-06-30 17:54:50 +0000
1002 2016-06-28 20:14:22 +0000
1004 2016-06-28 15:40:07 +0000
      2016-06-26 01:08:52 +0000
1017
1025
     2016-06-24 15:48:42 +0000
1031
     2016-06-22 01:06:43 +0000
1040
     2016-06-18 17:41:06 +0000
     2016-06-15 23:24:09 +0000
1049
1063 2016-06-10 00:39:48 +0000
1071
     2016-06-07 16:09:13 +0000
1097
     2016-05-27 15:58:54 +0000
1121
      2016-05-13 00:56:32 +0000
. . .
2191
     2015-11-24 00:54:05 +0000
2198 2015-11-23 15:35:39 +0000
2204 2015-11-23 03:46:18 +0000
2211 2015-11-23 02:19:29 +0000
```

```
2249 2015-11-21 00:25:26 +0000
2255 2015-11-20 18:35:10 +0000
2264 2015-11-20 03:04:08 +0000
2273 2015-11-19 22:32:36 +0000
2287 2015-11-19 03:10:02 +0000
2304 2015-11-18 14:18:59 +0000
2311 2015-11-18 00:55:42 +0000
2314 2015-11-17 19:35:19 +0000
2326 2015-11-17 00:24:19 +0000
2327 2015-11-17 00:06:54 +0000
2333 2015-11-16 19:31:45 +0000
2334 2015-11-16 16:37:02 +0000
2335 2015-11-16 16:11:11 +0000
2345 2015-11-16 01:22:45 +0000
2346 2015-11-16 01:01:59 +0000
2347 2015-11-16 00:55:59 +0000
2348 2015-11-16 00:49:46 +0000
2349 2015-11-16 00:35:11 +0000
2350 2015-11-16 00:30:50 +0000
2352 2015-11-16 00:04:52 +0000
2353 2015-11-15 23:21:54 +0000
2354
     2015-11-15 23:05:30 +0000
                                                                                   sourc
22
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
56
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
118
169
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
193
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com" rel="nofollow">Twitter Web Client</a>
335
369
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
542
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
649
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
759
773
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
801
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a</pre>
819
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
822
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
852
924
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
988
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
992
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
993
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
1002 <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
```

2212 2015-11-23 00:30:28 +0000 2218 2015-11-22 19:13:05 +0000 2222 2015-11-22 16:31:42 +0000 2235 2015-11-21 20:59:20 +0000

```
<a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
1004
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone/a
1017
1025
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
1031
1040
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
1049
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
1071
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
1097
1121
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2191
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
2198
2204
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
2211
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2212
     <a href="http://vine.co" rel="nofollow">Vine - Make a Scene</a>
2218
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2222
2235
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2249
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2255
      <a href="http://twitter.com" rel="nofollow">Twitter Web Client</a>
2264
     <a href="http://twitter.com" rel="nofollow">Twitter Web Client</a>
2273
     <a href="http://twitter.com" rel="nofollow">Twitter Web Client</a>
2287
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2304
2311
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2314
2326
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2327
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2333
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2334
2335
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2345
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2346
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2347
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2348
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
     <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a</pre>
2350
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2352
2353
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
      <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a
2354
```

I've yet to rate a Venezuelan Hover Wiener. This is such an honor. 14/10 paw-insp Here is a pupper approaching maximum borkdrive. Zooming at never before seen spec RT @dog rates: We only rate dogs. This is quite clearly a smol broken polar bear.

RT @dog_rates: We only rate dogs. This is quite clearly a smol broken polar bear.

We only rate dogs. This is quite clearly a smol broken polar bear. We'd appreciat

We only rate dogs. This is quite clearly a smol broken polar bear. We'd appreciat Guys, we only rate dogs. This is quite clearly a bulbasaur. Please only send dogs

335 There's going to be a dog terminal at JFK Airport. This is not a drill. 10/10 \r 369 Occasionally, we're sent fantastic stories. This is one of them. 14/10 for Grace 542 We only rate dogs. Please stop sending in non-canines like this Freudian Poof Lic 649 Here is a perfect example of someone who has their priorities in order. 13/10 for 759 RT @dog_rates: This is an East African Chalupa Seal. We only rate dogs. Please or 773 RT @dog_rates: We only rate dogs. Pls stop sending in non-canines like this Mongo 801 Guys this is getting so out of hand. We only rate dogs. This is a Galapagos Speed 819 We only rate dogs. Pls stop sending in non-canines like this Arctic Floof Kangard 822 RT @dog_rates: This is just downright precious af. 12/10 for both pupper and dogg This is my dog. Her name is Zoey. She knows I've been rating other dogs. She's no 852 924 This is one of the most inspirational stories I've ever come across. I have no wo What jokester sent in a pic without a dog in it? This is not @rock_rates. This is 988 992 That is Quizno. This is his beach. He does not tolerate human shenanigans on his 993 This is one of the most reckless puppers I've ever seen. How she got a license in 1002 This is a mighty rare blue-tailed hammer sherk. Human almost lost a limb trying t 1004 Viewer discretion is advised. This is a terrible attack in progress. Not even in 1017 This is a carrot. We only rate dogs. Please only send in dogs. You all really sho This is an Iraqi Speed Kangaroo. It is not a dog. Please only send in dogs. I'm v 1025 1031 We only rate dogs. Pls stop sending in non-canines like this Jamaican Flop Seal. 1040 This is actually a pupper and I'd pet it so well. 12/10\nhttps://t.co/RNqS7C4Y4N This is a very rare Great Alaskan Bush Pupper. Hard to stumble upon without spook 1063 This is just downright precious af. 12/10 for both pupper and doggo https://t.co/ This is getting incredibly frustrating. This is a Mexican Golden Beaver. We only 1097 We only rate dogs. Please stop sending in non-canines like this Alaskan Flop Turt We only rate dogs. Pls stop sending non-canines like this Bulgarian Eyeless Porch 1121 2191 This is a Slovakian Helter Skelter Feta named Leroi. Likes to skip on roofs. Good 2198 This is a wild Toblerone from Papua New Guinea. Mouth always open. Addicted to ha 2204 This is an Irish Rigatoni terrier named Berta. Completely made of rope. No eyes. 2211 Here is a horned dog. Much grace. Can jump over moons (dam!). Paws not soft. Bad 2212 Never forget this vine. You will not stop watching for at least 15 minutes. This 2218 This is a Birmingham Quagmire named Chuk. Loves to relax and watch the game while 2222 Here is a mother dog caring for her pups. Snazzy red mohawk. Doesn't wag tail. Pu 2235 This is a Trans Siberian Kellogg named Alfonso. Huge ass eyeballs. Actually Dobby 2249 This is a Shotokon Macadamia mix named Cheryl. Sophisticated af. Looks like a dis 2255 This is a rare Hungarian Pinot named Jessiga. She is either mid-stroke or got stu This is a southwest Coriander named Klint. Hat looks expensive. Still on house ar 2273 This is a northern Wahoo named Kohl. He runs this town. Chases tumbleweeds. Draws

This is a Dasani Kingfisher from Maine. His name is Daryl. Daryl doesn't like bei 2304 This is a curly Ticonderoga named Pepe. No feet. Loves to jet ski. 11/10 would hu 2311 This is a purebred Bacardi named Octaviath. Can shoot spaghetti out of mouth. 10/2014 This is a purebred Bacardi named Octaviath.

This is a golden Buckminsterfullerene named Johm. Drives trucks. Lumberjack (?). 2326 This is quite the dog. Gets really excited when not in water. Not very soft tho.

2326 This is quite the dog. Gets really excited when not in water. Not very soft tho. 2327 This is a southern Vesuvius bumblegruff. Can drive a truck (wow). Made friends wi

2333 This is an extremely rare horned Parthenon. Not amused. Wears shoes. Overall very

2334 This is a funny dog. Weird toes. Won't come down. Loves branch. Refuses to eat hi 2335 This is an Albanian 3 1/2 legged Episcopalian. Loves well-polished hardwood floor

2335 This is an Albanian 3 1/2 legged Episcopalian. Loves well-polished hardwood floo 2345 This is the happiest dog you will ever see. Very committed owner. Nice couch. 10/

```
Here is the Rand Paul of retrievers folks! He's probably good at poker. Can drink My oh my. This is a rare blond Canadian terrier on wheels. Only $8.98. Rather doc 2348 Here is a Siberian heavily armored polar bear mix. Strong owner. 10/10 I would do 2349 This is an odd dog. Hard on the outside but loving on the inside. Petting still for 2350 This is a truly beautiful English Wilson Staff retriever. Has a nice phone. Privice 2352 This is a purebred Piers Morgan. Loves to Netflix and chill. Always looks like he 2353 Here is a very happy pup. Big fan of well-maintained decks. Just look at that tor 2354 This is a western brown Mitsubishi terrier. Upset about leaf. Actually 2 dogs here
```

retweeted_status_id retweeted_status_user_id \ 22 NaN NaN56 NaN NaN8.591970e+17 4.196984e+09 118 169 ${\tt NaN}$ NaN 193 ${\tt NaN}$ NaN 335 NaN NaN 369 NaN NaN 542 NaN NaN NaN649 NaN 759 4.196984e+09 7.030419e+17 773 7.007478e+17 4.196984e+09 801 NaN NaN819 NaN 7.410673e+17 4.196984e+09 822 852 NaN NaN924 NaN NaN 988 NaN NaN992 NaN NaN993 NaN NaN1002 NaN NaN 1004 NaN NaN1017 NaN NaN 1025 NaN NaN1031 NaN NaN1040 NaN ${\tt NaN}$ 1049 NaN NaN 1063 NaN ${\tt NaN}$ 1071 NaN NaN 1097 NaN NaN1121 NaN NaN2191 NaN NaN2198 NaN NaN2204 NaN NaN2211 NaN NaN 2212 NaN NaN 2218 NaN NaN

NaN

2222 NaN

```
2235 NaN
                             NaN
2249 NaN
                             NaN
2255 NaN
                             NaN
2264 NaN
                             NaN
2273 NaN
                             NaN
2287 NaN
                             NaN
2304 NaN
                             NaN
2311 NaN
                             NaN
2314 NaN
                             NaN
2326 NaN
                             NaN
2327 NaN
                             {\tt NaN}
2333 NaN
                             NaN
2334 NaN
                             {\tt NaN}
2335 NaN
                             NaN
2345 NaN
                             NaN
2346 NaN
                             NaN
2347 NaN
                             NaN
2348 NaN
                             NaN
2349 NaN
                             NaN
2350 NaN
                             NaN
2352 NaN
                             {\tt NaN}
2353 NaN
                             NaN
2354 NaN
                             NaN
     retweeted_status_timestamp \
22
      {\tt NaN}
56
      NaN
      2017-05-02 00:04:57 +0000
118
169
      {\tt NaN}
193
      NaN
335
      NaN
369
      NaN
542
      NaN
649
      NaN
759
      2016-02-26 02:20:37 +0000
773
      2016-02-19 18:24:26 +0000
801
      NaN
819
      {\tt NaN}
822
      2016-06-10 00:39:48 +0000
852
      NaN
924
      NaN
988
      NaN
992
      NaN
993
      NaN
1002 NaN
1004
      {\tt NaN}
1017
      {\tt NaN}
1025 NaN
```

```
1031 NaN
1040 NaN
    {\tt NaN}
1049
1063
    {\tt NaN}
1071 NaN
1097
     {\tt NaN}
1121 NaN
     . . .
2191 NaN
2198 NaN
2204 NaN
2211 NaN
2212 NaN
2218 NaN
2222 NaN
2235 NaN
2249
    {\tt NaN}
2255 NaN
2264 NaN
2273 NaN
2287
     {\tt NaN}
2304 NaN
2311 NaN
2314 NaN
2326 NaN
2327
    {\tt NaN}
2333
    {\tt NaN}
2334
     {\tt NaN}
2335
     {\tt NaN}
2345
    {\tt NaN}
2346
     {\tt NaN}
2347
     {\tt NaN}
2348 NaN
2349
    {\tt NaN}
2350
    {\tt NaN}
2352
    {\tt NaN}
2353 NaN
2354
     {\tt NaN}
22
     https://twitter.com/dog_rates/status/887517139158093824/video/1
     https://twitter.com/dog_rates/status/881536004380872706/video/1
56
118
     https://twitter.com/dog_rates/status/859196978902773760/video/1
169
     https://twitter.com/dog_rates/status/859196978902773760/video/1
     193
335
     http://us.blastingnews.com/news/2017/02/jfk-announces-its-first-ever-ark-oasis-ar
369
     542
     https://twitter.com/dog_rates/status/806219024703037440/photo/1
```

```
https://twitter.com/dog_rates/status/792913359805018113/photo/1,https://twitter.c
649
759
                    https://twitter.com/dog_rates/status/703041949650034688/photo/1,https://twitter.com/dog_rates/status/703041949650034688/photo/1,https://twitter.com/dog_rates/status/703041949650034688/photo/1,https://twitter.com/dog_rates/status/703041949650034688/photo/1,https://twitter.com/dog_rates/status/703041949650034688/photo/1,https://twitter.com/dog_rates/status/703041949650034688/photo/1,https://twitter.com/dog_rates/status/703041949650034688/photo/1,https://twitter.com/dog_rates/status/703041949650034688/photo/1,https://twitter.com/dog_rates/status/703041949650034688/photo/1,https://twitter.com/dog_rates/status/703041949650034688/photo/1,https://twitter.com/dog_rates/status/703041949650034688/photo/1,https://twitter.com/dog_rates/status/703041949650034688/photo/1,https://twitter.com/dog_rates/status/703041949650034688/photo/1,https://twitter.com/dog_rates/status/703041949650034688/photo/1,https://twitter.com/dog_rates/status/703041949650034688/photo/1,https://twitter.com/dog_rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/sta
773
                    https://twitter.com/dog_rates/status/700747788515020802/photo/1
                    https://twitter.com/dog_rates/status/772581559778025472/photo/1,https://twitter.com/dog_rates/status/772581559778025472/photo/1,https://twitter.com/dog_rates/status/772581559778025472/photo/1,https://twitter.com/dog_rates/status/772581559778025472/photo/1,https://twitter.com/dog_rates/status/772581559778025472/photo/1,https://twitter.com/dog_rates/status/772581559778025472/photo/1,https://twitter.com/dog_rates/status/772581559778025472/photo/1,https://twitter.com/dog_rates/status/772581559778025472/photo/1,https://twitter.com/dog_rates/status/772581559778025472/photo/1,https://twitter.com/dog_rates/status/772581559778025472/photo/1,https://twitter.com/dog_rates/status/772581559778025472/photo/1,https://twitter.com/dog_rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates
801
                    https://twitter.com/dog_rates/status/770655142660169732/photo/1
819
                    https://twitter.com/dog_rates/status/741067306818797568/photo/1,https://twitter.c
822
852
                    https://twitter.com/dog_rates/status/765395769549590528/photo/1
924
                    https://twitter.com/dog_rates/status/755206590534418437/photo/1,https://twitter.c
                    https://twitter.com/dog_rates/status/748977405889503236/photo/1
988
992
                    https://twitter.com/dog_rates/status/748692773788876800/photo/1
993
                    https://twitter.com/dog_rates/status/748575535303884801/photo/1
                    https://twitter.com/dog_rates/status/747885874273214464/photo/1,https://twitter.com/dog_rates/status/747885874273214464/photo/1,https://twitter.com/dog_rates/status/747885874273214464/photo/1,https://twitter.com/dog_rates/status/747885874273214464/photo/1,https://twitter.com/dog_rates/status/747885874273214464/photo/1,https://twitter.com/dog_rates/status/747885874273214464/photo/1,https://twitter.com/dog_rates/status/747885874273214464/photo/1,https://twitter.com/dog_rates/status/747885874273214464/photo/1,https://twitter.com/dog_rates/status/747885874273214464/photo/1,https://twitter.com/dog_rates/status/747885874273214464/photo/1,https://twitter.com/dog_rates/status/747885874273214464/photo/1,https://twitter.com/dog_rates/status/747885874273214464/photo/1,https://twitter.com/dog_rates/status/747885874273214464/photo/1,https://twitter.com/dog_rates/status/747885874273214464/photo/1,https://twitter.com/dog_rates/status/747885874273214464/photo/1,https://twitter.com/dog_rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/sta
1002
1004
                    https://twitter.com/dog_rates/status/747816857231626240/photo/1
                    https://twitter.com/dog_rates/status/746872823977771008/photo/1,https://twitter.com/dog_rates/status/746872823977771008/photo/1,https://twitter.com/dog_rates/status/746872823977771008/photo/1,https://twitter.com/dog_rates/status/746872823977771008/photo/1,https://twitter.com/dog_rates/status/746872823977771008/photo/1,https://twitter.com/dog_rates/status/746872823977771008/photo/1,https://twitter.com/dog_rates/status/746872823977771008/photo/1,https://twitter.com/dog_rates/status/746872823977771008/photo/1,https://twitter.com/dog_rates/status/746872823977771008/photo/1,https://twitter.com/dog_rates/status/746872823977771008/photo/1,https://twitter.com/dog_rates/status/746872823977771008/photo/1,https://twitter.com/dog_rates/status/746872823977771008/photo/1,https://twitter.com/dog_rates/status/746872823977771008/photo/1,https://twitter.com/dog_rates/status/746872823977771008/photo/1,https://twitter.com/dog_rates/status/746872823977771008/photo/1,https://twitter.com/dog_rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/status/rates/sta
1025
                    https://twitter.com/dog_rates/status/746369468511756288/photo/1
                    https://twitter.com/dog_rates/status/745422732645535745/photo/1
1031
1040
                    https://twitter.com/strange_animals/status/672108316018024452
                    https://twitter.com/dog_rates/status/743222593470234624/photo/1
1049
1063
                    https://twitter.com/dog_rates/status/741067306818797568/photo/1
                    https://twitter.com/dog_rates/status/740214038584557568/photo/1
1071
1097
                    https://twitter.com/dog_rates/status/736225175608430592/photo/1
                    https://twitter.com/dog_rates/status/730924654643314689/photo/1
1121
                    https://twitter.com/dog_rates/status/668955713004314625/photo/1
2191
2198
                    https://twitter.com/dog_rates/status/668815180734689280/photo/1
                    https://twitter.com/dog_rates/status/668636665813057536/photo/1
2204
2211
                    https://twitter.com/dog_rates/status/668614819948453888/photo/1
2212
                    https://vine.co/v/ea00wvPTx91
                    \tt https://twitter.com/dog\_rates/status/668507509523615744/photo/1
2218
2222
                    https://twitter.com/dog_rates/status/668466899341221888/photo/1
2235
                    https://twitter.com/dog_rates/status/668171859951755264/photo/1
2249
                    https://twitter.com/dog_rates/status/667861340749471744/photo/1
2255
                    https://twitter.com/dog_rates/status/667773195014021121/photo/1
2264
                    https://twitter.com/dog_rates/status/667538891197542400/photo/1
                    https://twitter.com/dog_rates/status/667470559035432960/photo/1
2273
2287
                    https://twitter.com/dog_rates/status/667177989038297088/photo/1
2304
                    https://twitter.com/dog_rates/status/666983947667116034/photo/1
2311
                    https://twitter.com/dog_rates/status/666781792255496192/photo/1
                    https://twitter.com/dog_rates/status/666701168228331520/photo/1
2314
2326
                    https://twitter.com/dog_rates/status/666411507551481857/photo/1
2327
                    https://twitter.com/dog_rates/status/666407126856765440/photo/1
2333
                    https://twitter.com/dog_rates/status/666337882303524864/photo/1
2334
                    https://twitter.com/dog_rates/status/666293911632134144/photo/1
                    https://twitter.com/dog_rates/status/666287406224695296/photo/1
2335
2345
                    https://twitter.com/dog_rates/status/666063827256086533/photo/1
2346
                    https://twitter.com/dog_rates/status/666058600524156928/photo/1
2347
                    https://twitter.com/dog_rates/status/666057090499244032/photo/1
2348
                    https://twitter.com/dog_rates/status/666055525042405380/photo/1
```

```
2349
      https://twitter.com/dog_rates/status/666051853826850816/photo/1
2350
      https://twitter.com/dog_rates/status/666050758794694657/photo/1
2352
      https://twitter.com/dog_rates/status/666044226329800704/photo/1
2353
      https://twitter.com/dog_rates/status/666033412701032449/photo/1
2354
      https://twitter.com/dog_rates/status/666029285002620928/photo/1
      rating_numerator rating_denominator
                                                          name
                                                                 doggo floofer \
22
      14
                           10
                                                 such
                                                                 None
                                                                         None
56
                           10
                                                                 None
                                                                         None
      14
                                                 a
118
      12
                           10
                                                 quite
                                                                 None
                                                                         None
169
      12
                           10
                                                                 None
                                                                         None
                                                 quite
193
       12
                           10
                                                 quite
                                                                 None
                                                                         None
335
       10
                           10
                                                                 None
                                                                         None
                                                 not
369
      14
                           10
                                                 one
                                                                 None
                                                                         None
542
      11
                           10
                                                 incredibly
                                                                 None
                                                                         None
649
      13
                           10
                                                                 None
                                                                         None
759
       10
                           10
                                                                 None
                                                                         None
                                                 an
773
                           10
                                                                 None
                                                                         None
      11
                                                 very
       10
                           10
                                                                 None
801
                                                 a
                                                                         None
819
                           10
                                                                 None
                                                                         None
       11
                                                 very
822
      12
                           10
                                                 just
                                                                 doggo
                                                                         None
852
      13
                           10
                                                                 None
                                                                         None
                                                 my
924
      14
                           10
                                                 one
                                                                 doggo
                                                                         None
988
                           10
                                                                 None
      10
                                                 not
                                                                         None
992
      10
                           10
                                                 his
                                                                 doggo
                                                                         None
993
      6
                           10
                                                                 None
                                                                         None
                                                 one
1002
                           10
      8
                                                                 None
                                                                         None
1004
      4
                           10
                                                 a
                                                                 None
                                                                         None
1017
       11
                           10
                                                 а
                                                                 None
                                                                         None
1025
                           10
                                                                 None
                                                                         None
                                                 an
1031
       9
                           10
                                                                 None
                                                                         None
                                                 very
1040
      12
                           10
                                                 actually
                                                                 None
                                                                         None
1049
      12
                           10
                                                                 None
                                                                         None
                                                 а
1063
      12
                           10
                                                                 doggo
                                                                         None
                                                 just
1071
      10
                           10
                                                                 None
                                                                         None
                                                 getting
1097
       10
                           10
                                                 very
                                                                 None
                                                                         None
1121
      9
                           10
                                                 unacceptable
                                                                 None
                                                                         None
                                                                  . . .
                                                                          . . .
. . .
                           . .
2191
      10
                           10
                                                                 None
                                                                         None
                                                 a
2198
      7
                           10
                                                                 None
                                                                         None
                                                 а
2204
      10
                           10
                                                                 None
                                                 an
                                                                         None
2211
      7
                           10
                                                                 None
                                                                         None
                                                 а
2212
      13
                           10
                                                                 None
                                                                         None
                                                 the
2218
      10
                           10
                                                 а
                                                                 None
                                                                         None
2222
      4
                           10
                                                                 None
                                                                         None
                                                 а
2235
      7
                           10
                                                 а
                                                                 None
                                                                         None
2249
      9
                           10
                                                                 None
                                                                         None
                                                 a
2255
      8
                           10
                                                                 None
                                                                         None
                                                 а
```

2264	1 9	10	a	None	None
2273	3 11	10	a	None	None
2287	7 8	10	a	None	None
2304	1 11	10	a	None	None
231	1 10	10	a	None	None
2314	4 8	10	a	None	None
2320	6 2	10	quite	None	None
232	7 7	10	a	None	None
2333	3 9	10	an	None	None
2334	4 3	10	a	None	None
233	5 1	2	an	None	None
234	5 10	10	the	None	None
2346	6 8	10	the	None	None
2347	7 9	10	a	None	None
2348	3 10	10	a	None	None
2349	9 2	10	an	None	None
2350	0 10	10	a	None	None
2352	2 6	10	a	None	None
2353	3 9	10	a	None	None
2354	1 7	10	a	None	None

	pupper	puppo
22	None	None
56	pupper	${\tt None}$
118	${\tt None}$	${\tt None}$
169	None	None
193	None	None
335	None	None
369	None	None
542	None	None
649	None	None
759	None	None
773	None	None
801	None	None
819	None	None
822	pupper	${\tt None}$
852	None	None
924	None	None
988	None	None
992	None	None
993	None	None
1002	None	None
1004	None	None
1017	None	None
1025	None	None
1031	None	None
1040	pupper	None
1049	pupper	None

```
1063 pupper
              None
1071 None
              None
1097 None
              None
1121 None
              None
              . . .
2191 None
              None
2198 None
              None
2204 None
              None
2211 None
              None
2212 None
              None
2218 None
              None
2222 None
              None
2235 None
              None
2249 None
              None
2255 None
              None
2264 None
              None
2273 None
              None
2287 None
              None
2304 None
              None
2311 None
              None
2314 None
              None
2326 None
              None
2327 None
              None
2333 None
              None
2334 None
              None
2335 None
              None
2345 None
              None
2346 None
              None
2347 None
              None
2348 None
              None
2349 None
              None
2350 None
              None
2352 None
              None
2353 None
              None
2354 None
              None
```

[106 rows x 17 columns]

In [76]: print("To show tweets with rating in decimals, we can see nominator is not matching the
 rating_columns = ['text' , 'rating_numerator' , 'rating_denominator']
 WeRateDogs_archive[WeRateDogs_archive.text.str.contains(r"(\d+\.\d*\/\d+)")][rating_columns]

To show tweets with rating in decimals, we can see nominator is not matching the actual text rat

/opt/conda/lib/python3.6/site-packages/ipykernel_launcher.py:3: UserWarning: This pattern has mathematical transfer in the ipykernel package so we can avoid doing imports until

Out [76]:

45

```
This is Bella. She hopes her smile made you smile. If not, she is also offering y
      RT @dog_rates: This is Logan, the Chow who lived. He solemnly swears he's up to l
340
695
      This is Logan, the Chow who lived. He solemnly swears he's up to lots of good. H*
```

763 This is Sophie. She's a Jubilant Bush Pupper. Super h*ckin rare. Appears at rando

I've been told there's a slight possibility he's checking his mirror. We'll bump

1712 Here we have uncovered an entire battalion of holiday puppers. Average of 11.26/1

	rating_numerator	${\tt rating_denominator}$
45	5	10
340	75	10
695	75	10
763	27	10
1689	5	10
1712	26	10

In [77]: print("From the below results, 10 is not the only scale we have in the data. We have bi

From the below results, 10 is not the only scale we have in the data. We have big numbers which

/opt/conda/lib/python3.6/site-packages/ipykernel_launcher.py:2: UserWarning: This pattern has ma

Out [77]:

- 342 Odocmisterio account started on 11/15/15
- 433 The floofs have been released I repeat the floofs have been released. 84/70 https
- RT @dog_rates: After so many requests, this is Bretagne. She was the last survivi 784
- 902 Why does this never happen at my front door... 165/150 https://t.co/HmwrdfEfUE
- 1068 After so many requests, this is Bretagne. She was the last surviving 9/11 search
- 1120 Say hello to this unbelievably well behaved squad of doggos. 204/170 would try to
- 1165 Happy 4/20 from the squad! 13/10 for all https://t.co/eV1diwds8a
- 1202 This is Bluebert. He just saw that both #FinalFur match ups are split 50/50. Amaz
- 1228 Happy Saturday here's 9 puppers on a bench. 99/90 good work everybody https://t.c
- 1254 Here's a brigade of puppers. All look very prepared for whatever happens next. 80
- 1274 From left to right:\nCletus, Jerome, Alejandro, Burp, & Titson\nNone know whe
- 1351 Here is a whole flock of puppers. 60/50 I'll take the lot https://t.co/9dpcw6MdW
- 1433 Happy Wednesday here's a bucket of pups. 44/40 would pet all at once https://t.co
- 1598 Yes I do realize a rating of 4/20 would've been fitting. However, it would be unj
- 1634 Two sneaky puppers were not initially seen, moving the rating to 143/130. Please
- 1635 Someone help the girl is being mugged. Several are distracting her while two stea
- 1662 This is Darrel. He just robbed a 7/11 and is in a high speed police chase. Was ju
- 1663 I'm aware that I could've said 20/16, but here at WeRateDogs we are very professi
- 1779 IT'S PUPPERGEDDON. Total of 144/120 ...I think https://t.co/ZanVtAtvIq
- 1843 Here we have an entire platoon of puppers. Total score: 88/80 would pet all at or

rating_numerator rating_denominator

```
342
                          15
      11
433
      84
                          70
784
      9
                          11
902
      165
                          150
1068
      9
                          11
1120
      204
                          170
1165
                          20
1202
      50
                          50
1228
      99
                          90
1254
      80
                          80
1274
                          50
      45
1351
      60
                          50
1433
      44
                          40
1598
                          20
      4
1634
      143
                          130
1635
     121
                          110
1662
      7
                          11
1663
      20
                          16
1779
      144
                          120
1843
      88
                          80
```

2.2 Now let's check image prediction dataframe

```
In [78]: image_predictions.head()
```

```
Out [78]:
                      tweet_id
                                                                        jpg_url \
           666020888022790149
                                https://pbs.twimg.com/media/CT4udnOWwAAOaMy.jpg
         1 666029285002620928
                               https://pbs.twimg.com/media/CT42GRgUYAA5iDo.jpg
                                https://pbs.twimg.com/media/CT4521TWwAEvMyu.jpg
         2 666033412701032449
         3 666044226329800704
                                https://pbs.twimg.com/media/CT5Dr8HUEAA-1Eu.jpg
         4 666049248165822465
                                https://pbs.twimg.com/media/CT5IQmsXIAAKY4A.jpg
            img_num
                                         р1
                                              p1_conf
                                                       p1_dog
                                                                               p2
         0
                     Welsh_springer_spaniel
                                             0.465074
                                                       True
                                                               collie
         1
           1
                     redbone
                                             0.506826
                                                      True
                                                               miniature_pinscher
         2
                     German_shepherd
           1
                                             0.596461
                                                      True
                                                               malinois
                     Rhodesian_ridgeback
         3
                                             0.408143
                                                       True
                                                               redbone
           1
                     miniature_pinscher
                                                      True
           1
                                             0.560311
                                                               Rottweiler
             p2_conf
                     p2_dog
                                                    p3_conf
                                                             p3_dog
         0 0.156665
                      True
                              Shetland_sheepdog
                                                   0.061428
                                                             True
         1 0.074192
                      True
                              Rhodesian_ridgeback
                                                   0.072010
                                                             True
         2 0.138584
                      True
                              bloodhound
                                                   0.116197
                                                             True
        3 0.360687
                      True
                              miniature_pinscher
                                                   0.222752
                                                             True
         4 0.243682
                              Doberman
                                                   0.154629
                     True
                                                             True
```

In [79]: image_predictions.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2075 entries, 0 to 2074
Data columns (total 12 columns):
tweet_id
            2075 non-null int64
jpg_url
            2075 non-null object
img_num
            2075 non-null int64
            2075 non-null object
р1
p1_conf
            2075 non-null float64
            2075 non-null bool
p1_dog
p2
            2075 non-null object
            2075 non-null float64
p2_conf
p2_dog
            2075 non-null bool
            2075 non-null object
рЗ
p3_conf
            2075 non-null float64
p3_dog
            2075 non-null bool
dtypes: bool(3), float64(3), int64(2), object(4)
memory usage: 152.1+ KB
In [80]: print("Number of tweets in WeRateDogs that doesn't have an image in image_predictions of
         WeRateDogs_archive.count()[0] - pd.merge(WeRateDogs_archive, image_predictions, on=['two
Number of tweets in WeRateDogs that doesn't have an image in image_predictions dataframe is:
Out[80]: 281
In [81]: print("No image URL is null")
         image_predictions[image_predictions.jpg_url.isnull()]
No image URL is null
Out[81]: Empty DataFrame
         Columns: [tweet_id, jpg_url, img_num, p1, p1_conf, p1_dog, p2, p2_conf, p2_dog, p3, p3_
         Index: []
In [82]: print("Expanded URLs means tweet image. The number of tweets with no expanded URLs prov
         WeRateDogs_archive.expanded_urls.isnull().sum()
Expanded URLs means tweet image. The number of tweets with no expanded URLs provided is:
Out[82]: 59
```

2.3 Quality issues:

- Tweets with wrong rating numerator because of decimal number in text.
- Dog names with less than 2 letter.

- Dog names with lower-case (Not real or wrong).
- Dog names with inappliacable names (e.g. "The", "a").
- Missing dog stage values (All None).
- inconsistent denominator rating (150, 120, 130).
- inadequate datatypes (timestamp)
- Tweets with no expanded URLs.
- There are retweets records.

2.4 Tidiness issues:

- Dogs stages in different columns, better to be unified in one columns called Dog_Stage.
- Merge all 3 dataframes into one.

3 Cleaning

3.1 Tidiness issue 1 - One column for Dog_stage:

3.2 Tidiness issue 2 - Merge needed columns from the 3 dataframes into copy_WeRateDogs_archive:

```
In [85]: copy_image_predictions.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2075 entries, 0 to 2074
Data columns (total 12 columns):
            2075 non-null int64
tweet_id
            2075 non-null object
jpg_url
            2075 non-null int64
img_num
            2075 non-null object
p1
            2075 non-null float64
p1_conf
            2075 non-null bool
p1_dog
            2075 non-null object
р2
            2075 non-null float64
p2_conf
            2075 non-null bool
p2_dog
```

```
рЗ
            2075 non-null object
p3_conf
            2075 non-null float64
            2075 non-null bool
p3_dog
dtypes: bool(3), float64(3), int64(2), object(4)
memory usage: 152.1+ KB
In []:
In [86]: copy_WeRateDogs_archive = pd.merge(copy_WeRateDogs_archive, copy_image_predictions, on=
         copy_WeRateDogs_archive = pd.merge(copy_WeRateDogs_archive, copy_retweet_like, on='twee')
         copy_WeRateDogs_archive.info()
<class 'pandas.core.frame.DataFrame'>
Int64Index: 2073 entries, 0 to 2072
Data columns (total 31 columns):
                               2073 non-null int64
tweet_id
in_reply_to_status_id
                               23 non-null float64
in_reply_to_user_id
                               23 non-null float64
timestamp
                               2073 non-null object
                               2073 non-null object
source
                               2073 non-null object
text
                               79 non-null float64
retweeted_status_id
retweeted_status_user_id
                               79 non-null float64
{\tt retweeted\_status\_timestamp}
                               79 non-null object
expanded_urls
                               2073 non-null object
                               2073 non-null int64
rating_numerator
                               2073 non-null int64
rating_denominator
                               2073 non-null object
name
                               2073 non-null object
doggo
floofer
                               2073 non-null object
                               2073 non-null object
pupper
                               2073 non-null object
puppo
                               349 non-null object
Dog_stage
                               2073 non-null object
jpg_url
                               2073 non-null int64
img_num
                               2073 non-null object
р1
p1_conf
                               2073 non-null float64
                               2073 non-null bool
p1_dog
                               2073 non-null object
р2
p2_conf
                               2073 non-null float64
                               2073 non-null bool
p2_dog
рЗ
                               2073 non-null object
                               2073 non-null float64
p3_conf
                               2073 non-null bool
p3_dog
                               2073 non-null int64
retweet_count
```

```
favorite_count
                             2073 non-null int64
dtypes: bool(3), float64(7), int64(6), object(15)
memory usage: 475.7+ KB
In [87]: columns_of_interest = ['tweet_id' , 'timestamp' , 'source' , 'text' , 'expanded_urls' ,
         copy_WeRateDogs_archive[columns_of_interest].head()
Out[87]:
                      tweet_id
                                               timestamp \
        0 892420643555336193 2017-08-01 16:23:56 +0000
         1 892177421306343426 2017-08-01 00:17:27 +0000
         2 891815181378084864 2017-07-31 00:18:03 +0000
         3 891689557279858688 2017-07-30 15:58:51 +0000
         4 891327558926688256 2017-07-29 16:00:24 +0000
                                                                                       source
         O <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
         1 <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
         2 <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
         3 <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
         4 <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
         O This is Phineas. He's a mystical boy. Only ever appears in the hole of a donut. 13/1
         1 This is Tilly. She's just checking pup on you. Hopes you're doing ok. If not, she's
         2 This is Archie. He is a rare Norwegian Pouncing Corgo. Lives in the tall grass. You
         3 This is Darla. She commenced a snooze mid meal. 13/10 happens to the best of us http
         4 This is Franklin. He would like you to stop calling him "cute." He is a very fierce
         0 https://twitter.com/dog_rates/status/892420643555336193/photo/1
         1 https://twitter.com/dog_rates/status/892177421306343426/photo/1
         2 https://twitter.com/dog_rates/status/891815181378084864/photo/1
         3 https://twitter.com/dog_rates/status/891689557279858688/photo/1
         4 https://twitter.com/dog_rates/status/891327558926688256/photo/1,https://twitter.com/
           rating_numerator rating_denominator
                                                     name Dog_stage retweet_count \
         0 13
                              10
                                                 Phineas
                                                           NaN
                                                                     8853
         1 13
                                                 Tilly
                                                                     6514
                              10
                                                           NaN
         2 12
                              10
                                                 Archie
                                                           {\tt NaN}
                                                                     4328
         3 13
                                                 Darla
                                                                     8964
                              10
                                                           NaN
                                                                     9774
         4 12
                              10
                                                 Franklin NaN
           favorite_count
         0 39467
         1 33819
         2 25461
         3 42908
         4 41048
```

```
Define Missing tweets images
        Code
In [88]: print("Drop empty expanded URLs")
                         copy_WeRateDogs_archive.dropna(subset=['expanded_urls'] , inplace=True)
Drop empty expanded URLs
        Test
In [89]: copy_WeRateDogs_archive.expanded_urls.isnull().sum()
Out[89]: 0
        Define check and clean rating outliers
        Code
In [90]: print("check and clean rating outliers")
                         wrong_deno_indexes = copy_WeRateDogs_archive[copy_WeRateDogs_archive.rating_denominator
                         wrong_deno_indexes
check and clean rating outliers
Out[90]: Int64Index([ 345, 415, 734, 876, 924, 967, 1001, 1022, 1047, 1065, 1131,
                                                            1207, 1379, 1380, 1405, 1512, 1571, 2052],
                                                         dtype='int64')
        Test
In [91]: print(copy_WeRateDogs_archive.tweet_id.count())
                         copy_WeRateDogs_archive.drop(wrong_deno_indexes , inplace=True)
                         print(copy_WeRateDogs_archive.tweet_id.count())
2073
2055
        Define removing retweets Code
In [92]: print("removing retweets tweets")
                         print("We have {} retweets in the dataframe".format ( (copy_WeRateDogs_archive[~copy_WeRateDogs_archive[~copy_WeRateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_WerateDogs_archive[~copy_WerateDogs_archive]~copy_Werate
                         copy_WeRateDogs_archive = copy_WeRateDogs_archive[copy_WeRateDogs_archive.retweeted_state
removing retweets tweets
```

We have 79 retweets in the dataframe

Test

```
In [93]: print("Now, we have {} retweets in the dataframe".format ( (copy_WeRateDogs_archive[~c
```

Define removing lower-case names Code

There are 95 tweets with lower-case dog name Now, there are 0 tweets with lower-case dog name

In [95]: copy_WeRateDogs_archive.name.sort_values()

Test

1441

1259

Alice

Amber

```
Out [95]: 836
                  Abby
         847
                  Abby
         768
                  Ace
         1656
                  Acro
         1109
                  Adele
         1657
                  Aiden
         66
                  Aja
         383
                  Akumi
         663
                  Al
         711
                  Albert
         1676
                  Albert
         328
                  Albus
         120
                  Albus
         919
                  Aldrick
         1767
                  Alejandro
         298
                  Alexander
         991
                  Alexanderson
         388
                  Alf
         1956
                  Alfie
         291
                  Alfie
         695
                  Alfie
         1364
                  Alfie
         46
                  Alfy
         161
                  Alice
```

```
1116
                 Ambrose
         1799
                 Amy
         1914
                 Amélie
         629
                  Anakin
                   . . .
         636
                 Winnie
         212
                 Winnie
         1558
                 Winston
         808
                 Winston
         324
                 Winston
         1854
                 Winston
         1036
                 Winston
         660
                 Winston
         225
                 Winston
         452
                 Winston
         713
                 Wishes
         1221
                 Wyatt
         145
                 Wyatt
         326
                 Wyatt
         1155
                 Yoda
         38
                 Yogi
         497
                 Yogi
         1114
                 Zara
         1925
                 Zeek
         442
                 Zeke
         17
                 Zeke
         150
                 Zeke
         1007
                 Zeus
         928
                 Ziva
         790
                 Zoe
         1862
                 Zoey
         8
                 Zoey
         96
                 Zoey
         125
                 Zooey
         1602
                 Zuzu
         Name: name, Length: 1881, dtype: object
In [96]: print("There are/is {} name(s) with less than 2 characters ".format(
                                                                                    (copy_WeRateDogs
         copy_WeRateDogs_archive.drop( (copy_WeRateDogs_archive[copy_WeRateDogs_archive['name']
         print("Now, there are/is {} name(s) with less than 2 characters ".format(
                                                                                         (copy_WeRat
There are/is 1 name(s) with less than 2 characters
Now, there are/is 0 name(s) with less than 2 characters
In [97]: decimal_texts = (copy_WeRateDogs_archive[copy_WeRateDogs_archive.text.str.contains(r"(\
         decimal_texts
```

"""Entry point for launching an IPython kernel.

/opt/conda/lib/python3.6/site-packages/ipykernel_launcher.py:1: UserWarning: This pattern has ma

```
558
                                               9.75/10
                         614
                                              11.27/10
                                              11.26/10
                         1451
                        Name: text, dtype: object
        Define Correct decimal rating issue Code
In [98]: print("Let's correct decimal rating values.")
                         for key,value in decimal_texts.items():
                                    #print("value {} {}".format( key, value.split("/")[0] ))
                                    print("Rating numerator before {}\n".format(copy_WeRateDogs_archive.loc[key]['rati
                                    copy_WeRateDogs_archive.loc[key , 'rating_numerator'] = value.split("/")[0]
                                    print("Rating numerator After {}\n".format( copy_WeRateDogs_archive.loc[key]['rating numerator After {}\n".format( copy_WeRateDogs_archive.loc(key)['rating numerator After {}\n".format( copy_WeRa
Let's correct decimal rating values.
Rating numerator before 5
Rating numerator After 13.5
Rating numerator before 75
Rating numerator After 9.75
Rating numerator before 27
Rating numerator After 11.27
Rating numerator before 26
Rating numerator After 11.26
        Define Change timestamp column type Code
In [99]: print("Change timestamp column type")
                        copy_WeRateDogs_archive['timestamp'] = pd.to_datetime(copy_WeRateDogs_archive['timestam
Change timestamp column type
In [100]: copy_WeRateDogs_archive['rating_numerator'] = copy_WeRateDogs_archive['rating_numerator']
                           copy_WeRateDogs_archive['rating_denominator'] = copy_WeRateDogs_archive['rating_denomi
```

/opt/conda/lib/python3.6/site-packages/ipykernel_launcher.py:1: FutureWarning: currently extract

"""Entry point for launching an IPython kernel.

13.5/10

Out[97]: 40

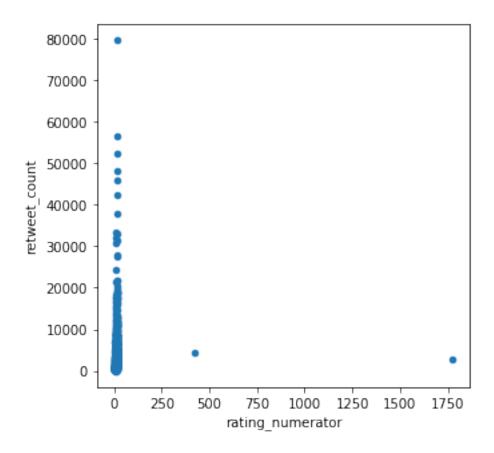
4 Analysing

```
copy_WeRateDogs_archive[columns_of_interest].info()
<class 'pandas.core.frame.DataFrame'>
Int64Index: 1880 entries, 0 to 2072
Data columns (total 8 columns):
timestamp
                     1880 non-null datetime64[ns]
source
                      1880 non-null object
                      1880 non-null float64
rating_numerator
                      1880 non-null float64
rating_denominator
                      1880 non-null object
Dog_stage
                      314 non-null object
                      1880 non-null int64
retweet_count
favorite_count
                      1880 non-null int64
dtypes: datetime64[ns](1), float64(2), int64(2), object(3)
memory usage: 212.2+ KB
```

In [102]: columns_of_interest = ['timestamp' , 'source', 'rating_numerator' , 'rating_denominator'

Plotting a scatter plot with rating and retweet_count

```
In [103]: copy_WeRateDogs_archive.plot(title='', x='rating_numerator', y='retweet_count' , kind=
```

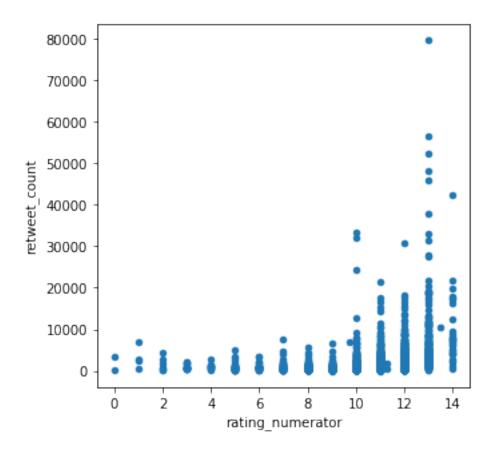


It looks like that we found couple of rating_numerators outliers .. thanks to the scatter plot. Let's check and clean that to avoid missing our analysis.

```
In [104]: copy_WeRateDogs_archive.rating_numerator.sort_values(ascending=False).head()
Out[104]: 802
                  1776.0
          1795
                  420.0
                  14.0
          173
          65
                  14.0
          431
                  14.0
          Name: rating_numerator, dtype: float64
In [105]: copy_WeRateDogs_archive[(copy_WeRateDogs_archive.index == 802) | (copy_WeRateDogs_archive)
Out[105]:
                          tweet_id in_reply_to_status_id in_reply_to_user_id \
          802
                749981277374128128 NaN
                                                           NaN
          1795
                670842764863651840 NaN
                                                           NaN
                         timestamp
          802 2016-07-04 15:00:45
```

1795 2015-11-29 05:52:33

```
<a href="https://about.twitter.com/products/tweetdeck" rel="nofollow">TweetDeck
          802
                <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone/
          1795
                This is Atticus. He's quite simply America af. 1776/10 https://t.co/GRXwMxLBkh
          802
                After so many requests... here you go.\n\nGood dogg. 420/10 https://t.co/yfAAo1g
                retweeted_status_id retweeted_status_user_id \
          802 NaN
                                    NaN
          1795 NaN
                                    NaN
               retweeted_status_timestamp \
          802
          1795 NaN
                                                                   expanded_urls \
                https://twitter.com/dog_rates/status/749981277374128128/photo/1
          802
                https://twitter.com/dog_rates/status/670842764863651840/photo/1
          1795
                                                           p2
                                 p1_conf p1_dog
                                                                p2_conf p2_dog \
          802
                                0.533941 False
                                                   sunglasses
                                                               0.080822 False
                     . . .
          1795
                                0.096063 False
                                                   accordion
                                                               0.094075 False
                     . . .
                            p3_conf p3_dog retweet_count favorite_count
          802
                           0.050776 False 2772
                                                           5569
                sunglass
          1795
                drumstick 0.061113 False 4324
                                                           7989
          [2 rows x 31 columns]
  We should drop the two tweets with the unreasonable rating values.
In [106]: copy_WeRateDogs_archive.drop([802,1795], inplace=True)
In [107]: copy_WeRateDogs_archive.rating_numerator.sort_values(ascending=False).head()
Out[107]: 702
                 14.0
                 14.0
          117
          153
                 14.0
          152
                 14.0
          103
                 14.0
          Name: rating_numerator, dtype: float64
  Now, the scatter plot points distributions is clearer.
In [108]: copy_WeRateDogs_archive.plot(title='', x='rating_numerator', y='retweet_count', kind=
```



Showing counts of tweets per day of week. Useful in observing the activities volumn per day. Overall, the highest activities take place on Monday.

In [109]: copy_WeRateDogs_archive_filtered_columns = copy_WeRateDogs_archive[columns_of_interest copy_WeRateDogs_archive_filtered_columns.groupby(copy_WeRateDogs_archive_filtered_columns.groupby(copy_WeRateDogs_archive_filtered_columns.groupby)

Out[109]:		timestamp	source	rating_r	numerator	rating_denomi	inator	name	,
		count	count		count		count	count	
	timestamp								
	Friday	260	260	260		260		260	
	Monday	305	305	305		305		305	
	Saturday	245	245	245		245		245	
	Sunday	242	242	242		242		242	
	Thursday	272	272	272		272		272	
	Tuesday	275	275	275		275		275	
	Wednesday	279	279	279		279		279	
		Dog_stage	retweet	t_count i	favorite_0	count			
		count		count	(count			
	timestamp								
	Friday	37	260		260				
	Monday	55	305		305				

Saturday	44	245	245
Sunday	32	242	242
Thursday	48	272	272
Tuesday	52	275	275
Wednesdav	46	279	279

The highest retweet and favorite counts are 79,515.00 and 132,810.00 respectivly.

```
In [110]: copy_WeRateDogs_archive.loc[:,['retweet_count','favorite_count']].max()
Out[110]: retweet_count
                            79515
                             132810
          favorite_count
          dtype: int64
In [111]: copy_WeRateDogs_archive.info()
<class 'pandas.core.frame.DataFrame'>
Int64Index: 1878 entries, 0 to 2072
Data columns (total 31 columns):
tweet_id
                               1878 non-null int64
in_reply_to_status_id
                               22 non-null float64
                               22 non-null float64
in_reply_to_user_id
                               1878 non-null datetime64[ns]
timestamp
source
                               1878 non-null object
                               1878 non-null object
text
retweeted_status_id
                               0 non-null float64
retweeted_status_user_id
                               0 non-null float64
retweeted_status_timestamp
                               O non-null object
expanded_urls
                               1878 non-null object
                               1878 non-null float64
rating_numerator
rating_denominator
                               1878 non-null float64
                               1878 non-null object
name
                               1878 non-null object
doggo
floofer
                               1878 non-null object
                               1878 non-null object
pupper
                               1878 non-null object
puppo
Dog_stage
                               314 non-null object
                               1878 non-null object
jpg_url
                               1878 non-null int64
img_num
                               1878 non-null object
р1
                               1878 non-null float64
p1_conf
                               1878 non-null bool
p1_dog
                               1878 non-null object
p2
p2_conf
                               1878 non-null float64
                               1878 non-null bool
p2_dog
                               1878 non-null object
рЗ
p3_conf
                               1878 non-null float64
                               1878 non-null bool
p3_dog
                               1878 non-null int64
retweet_count
```

```
favorite_count 1878 non-null int64
```

dtypes: bool(3), datetime64[ns](1), float64(9), int64(4), object(14)

memory usage: 511.0+ KB

We want to analyze the dog stage rating, retweet and favorite totals. As a result, we will see which dog stage is most popular and high rating across the data.

Unfortunately, we found another issue that needs to be cleaned. Upper and lower case duplicate records of Dog_Stage column. Let's correct that and unify that to lower-case.

Out[112]: rating_numerator rating_denominator retweet_count favorite_count sum Sum sum Sum Dog_stage 40.0 Doggo 51.00 68380 156749 PUPPER 23.00 20.0 3789 9260 60.27 50.0 14674 46949 Pupper 10.0 4319 Puppo 13.00 19763 doggo 789.00 680.0 415014 1162562 2176.26 2060.0 476367 1464767 pupper 340.00 280.0 189760 637250 puppo

In [114]: copy_WeRateDogs_archive.loc[:,('Dog_stage')] = lower_dog_stages

Let's do the analysis again after fixing lower/upper dog stages issue.

Out[115]: rating_numerator rating_denominator retweet_count favorite_count sum sum sum Sum Dog_stage doggo 840.00 720.0 483394 1319311 2259.53 2130.0 494830 1520976 pupper 290.0 puppo 353.00 194079 657013

The most popular dog stage is **Pupper**

In []: