

# wrangle\_act

July 24, 2019

Gather

```
In [1]: import requests      # import request
import os      # import os

In [2]: folder_name= 'image_prediction' # assign image_prediction to folder_name
if not os.path.exists(folder_name): # makedirectory if it doesnot exist
    os.makedirs(folder_name)

url = 'https://d17h27t6h515a5.cloudfront.net/topher/2017/August/599fd2ad_image-predictio
response=requests.get(url)      # pass the url to the request

In [1]: # response.content      # show content of response

In [ ]:

In [4]: import glob      # import glob
import pandas as pd      # import pandas

In [5]: df_image = pd.read_csv('image-predictions.tsv',sep='\t') # image-predictions.tsv
# df_image['tweet_id']      # show 'tweet_id' column
df_image.head()
```

Out[5]:

		tweet_id		jpg_url	\
0	666020888022790149			https://pbs.twimg.com/media/CT4udnOWwAA0aMy.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-lEu.jpg	
4	666049248165822465			https://pbs.twimg.com/media/CT5IQmsXIAAKY4A.jpg	

	img_num		p1	p1_conf	p1_dog		p2	\
0	1	Welsh_springer_spaniel	0.465074	True			collie	
1	1	redbone	0.506826	True		miniature_pinscher		
2	1	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	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	True	Doberman	0.154629	True	

```
In [6]: tweet_archive = pd.read_csv("twitter-archive-enhanced.csv") # read twitter-archive-enhanced
tweet_archive
```

```
Out[6]:
```

	tweet_id	in_reply_to_status_id	in_reply_to_user_id	\
0	892420643555336193	NaN	NaN	
1	892177421306343426	NaN	NaN	
2	891815181378084864	NaN	NaN	
3	891689557279858688	NaN	NaN	
4	891327558926688256	NaN	NaN	
5	891087950875897856	NaN	NaN	
6	890971913173991426	NaN	NaN	
7	890729181411237888	NaN	NaN	
8	890609185150312448	NaN	NaN	
9	890240255349198849	NaN	NaN	
10	890006608113172480	NaN	NaN	
11	889880896479866881	NaN	NaN	
12	889665388333682689	NaN	NaN	
13	889638837579907072	NaN	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	
23	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	
...	...	...	...	
2326	666411507551481857	NaN	NaN	
2327	666407126856765440	NaN	NaN	
2328	666396247373291520	NaN	NaN	
2329	666373753744588802	NaN	NaN	
2330	666362758909284353	NaN	NaN	
2331	666353288456101888	NaN	NaN	

2332	666345417576210432	NaN	NaN
2333	666337882303524864	NaN	NaN
2334	666293911632134144	NaN	NaN
2335	666287406224695296	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
2345	666063827256086533	NaN	NaN
2346	666058600524156928	NaN	NaN
2347	666057090499244032	NaN	NaN
2348	666055525042405380	NaN	NaN
2349	666051853826850816	NaN	NaN
2350	666050758794694657	NaN	NaN
2351	666049248165822465	NaN	NaN
2352	666044226329800704	NaN	NaN
2353	666033412701032449	NaN	NaN
2354	666029285002620928	NaN	NaN
2355	666020888022790149	NaN	NaN

	timestamp \
0	2017-08-01 16:23:56 +0000
1	2017-08-01 00:17:27 +0000
2	2017-07-31 00:18:03 +0000
3	2017-07-30 15:58:51 +0000
4	2017-07-29 16:00:24 +0000
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
12	2017-07-25 01:55:32 +0000
13	2017-07-25 00:10:02 +0000
14	2017-07-24 17:02:04 +0000
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
19	2017-07-21 01:02:36 +0000
20	2017-07-20 16:49:33 +0000
21	2017-07-19 16:06:48 +0000

```

22    2017-07-19 03:39:09 +0000
23    2017-07-19 00:47:34 +0000
24    2017-07-18 16:08:03 +0000
25    2017-07-18 00:07:08 +0000
26    2017-07-17 16:17:36 +0000
27    2017-07-16 23:58:41 +0000
28    2017-07-16 20:14:00 +0000
29    2017-07-15 23:25:31 +0000
...
2326  2015-11-17 00:24:19 +0000
2327  2015-11-17 00:06:54 +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
2333  2015-11-16 19:31:45 +0000
2334  2015-11-16 16:37:02 +0000
2335  2015-11-16 16:11:11 +0000
2336  2015-11-16 15:14:19 +0000
2337  2015-11-16 14:57:41 +0000
2338  2015-11-16 04:02:55 +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
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
2351  2015-11-16 00:24:50 +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
2355  2015-11-15 22:32:08 +0000

```

```

source \
0    <a href="http://twitter.com/download/iphone" r...
1    <a href="http://twitter.com/download/iphone" r...
2    <a href="http://twitter.com/download/iphone" r...
3    <a href="http://twitter.com/download/iphone" r...
4    <a href="http://twitter.com/download/iphone" r...
5    <a href="http://twitter.com/download/iphone" r...
6    <a href="http://twitter.com/download/iphone" r...

```

[illegible]

2350 <a href="http://twitter.com/download/iphone" r...  
 2351 <a href="http://twitter.com/download/iphone" r...  
 2352 <a href="http://twitter.com/download/iphone" r...  
 2353 <a href="http://twitter.com/download/iphone" r...  
 2354 <a href="http://twitter.com/download/iphone" r...  
 2355 <a href="http://twitter.com/download/iphone" r...

	text	retweeted_status_id \
0	This is Phineas. He's a mystical boy. Only eve...	NaN
1	This is Tilly. She's just checking pup on you...	NaN
2	This is Archie. He is a rare Norwegian Pouncin...	NaN
3	This is Darla. She commenced a snooze mid meal...	NaN
4	This is Franklin. He would like you to stop ca...	NaN
5	Here we have a majestic great white breaching ...	NaN
6	Meet Jax. He enjoys ice cream so much he gets ...	NaN
7	When you watch your owner call another dog a g...	NaN
8	This is Zoey. She doesn't want to be one of th...	NaN
9	This is Cassie. She is a college pup. Studying...	NaN
10	This is Koda. He is a South Australian decksha...	NaN
11	This is Bruno. He is a service shark. Only get...	NaN
12	Here's a puppo that seems to be on the fence a...	NaN
13	This is Ted. He does his best. Sometimes that'...	NaN
14	This is Stuart. He's sporting his favorite fan...	NaN
15	This is Oliver. You're witnessing one of his m...	NaN
16	This is Jim. He found a fren. Taught him how t...	NaN
17	This is Zeke. He has a new stick. Very proud o...	NaN
18	This is Ralphus. He's powering up. Attempting ...	NaN
19	RT @dog_rates: This is Canela. She attempted s...	8.874740e+17
20	This is Gerald. He was just told he didn't get...	NaN
21	This is Jeffrey. He has a monopoly on the pool...	NaN
22	I've yet to rate a Venezuelan Hover Wiener. Th...	NaN
23	This is Canela. She attempted some fancy porch...	NaN
24	You may not have known you needed to see this ...	NaN
25	This... is a Jubilant Antarctic House Bear. We...	NaN
26	This is Maya. She's very shy. Rarely leaves he...	NaN
27	This is Mingus. He's a wonderful father to his...	NaN
28	This is Derek. He's late for a dog meeting. 13...	NaN
29	This is Roscoe. Another pupper fallen victim t...	NaN
...	...	...
2326	This is quite the dog. Gets really excited whe...	NaN
2327	This is a southern Vesuvius bumblegruff. Can d...	NaN
2328	Oh goodness. A super rare northeast Qdoba kang...	NaN
2329	Those are sunglasses and a jean jacket. 11/10 ...	NaN
2330	Unique dog here. Very small. Lives in containe...	NaN
2331	Here we have a mixed Asiago from the Galápagos...	NaN
2332	Look at this jokester thinking seat belt laws ...	NaN
2333	This is an extremely rare horned Parthenon. No...	NaN
2334	This is a funny dog. Weird toes. Won't come do...	NaN

2335	This is an Albanian 3 1/2 legged Episcopalian...	NaN
2336	Can take selfies 11/10 <a href="https://t.co/ws2AMaWpPW">https://t.co/ws2AMaWpPW</a>	NaN
2337	Very concerned about fellow dog trapped in com...	NaN
2338	Not familiar with this breed. No tail (weird)...	NaN
2339	Oh my. Here you are seeing an Adobe Setter giv...	NaN
2340	Can stand on stump for what seems like a while...	NaN
2341	This appears to be a Mongolian Presbyterian mi...	NaN
2342	Here we have a well-established sunblockerspan...	NaN
2343	Let's hope this flight isn't Malaysian (lol). ...	NaN
2344	Here we have a northern speckled Rhododendron...	NaN
2345	This is the happiest dog you will ever see. Ve...	NaN
2346	Here is the Rand Paul of retrievers folks! He'...	NaN
2347	My oh my. This is a rare blond Canadian terrie...	NaN
2348	Here is a Siberian heavily armored polar bear ...	NaN
2349	This is an odd dog. Hard on the outside but lo...	NaN
2350	This is a truly beautiful English Wilson Staff...	NaN
2351	Here we have a 1949 1st generation vulpix. Enj...	NaN
2352	This is a purebred Piers Morgan. Loves to Netf...	NaN
2353	Here is a very happy pup. Big fan of well-main...	NaN
2354	This is a western brown Mitsubishi terrier. Up...	NaN
2355	Here we have a Japanese Irish Setter. Lost eye...	NaN

	retweeted_status_user_id	retweeted_status_timestamp	\
0	NaN	NaN	
1	NaN	NaN	
2	NaN	NaN	
3	NaN	NaN	
4	NaN	NaN	
5	NaN	NaN	
6	NaN	NaN	
7	NaN	NaN	
8	NaN	NaN	
9	NaN	NaN	
10	NaN	NaN	
11	NaN	NaN	
12	NaN	NaN	
13	NaN	NaN	
14	NaN	NaN	
15	NaN	NaN	
16	NaN	NaN	
17	NaN	NaN	
18	NaN	NaN	
19	4.196984e+09	2017-07-19 00:47:34 +0000	
20	NaN	NaN	
21	NaN	NaN	
22	NaN	NaN	
23	NaN	NaN	
24	NaN	NaN	

25	NaN	NaN
26	NaN	NaN
27	NaN	NaN
28	NaN	NaN
29	NaN	NaN
...	...	...
2326	NaN	NaN
2327	NaN	NaN
2328	NaN	NaN
2329	NaN	NaN
2330	NaN	NaN
2331	NaN	NaN
2332	NaN	NaN
2333	NaN	NaN
2334	NaN	NaN
2335	NaN	NaN
2336	NaN	NaN
2337	NaN	NaN
2338	NaN	NaN
2339	NaN	NaN
2340	NaN	NaN
2341	NaN	NaN
2342	NaN	NaN
2343	NaN	NaN
2344	NaN	NaN
2345	NaN	NaN
2346	NaN	NaN
2347	NaN	NaN
2348	NaN	NaN
2349	NaN	NaN
2350	NaN	NaN
2351	NaN	NaN
2352	NaN	NaN
2353	NaN	NaN
2354	NaN	NaN
2355	NaN	NaN

	expanded_urls	rating_numerator \
0	<a href="https://twitter.com/dog_rates/status/892420643...">https://twitter.com/dog_rates/status/892420643...</a>	13
1	<a href="https://twitter.com/dog_rates/status/892177421...">https://twitter.com/dog_rates/status/892177421...</a>	13
2	<a href="https://twitter.com/dog_rates/status/891815181...">https://twitter.com/dog_rates/status/891815181...</a>	12
3	<a href="https://twitter.com/dog_rates/status/891689557...">https://twitter.com/dog_rates/status/891689557...</a>	13
4	<a href="https://twitter.com/dog_rates/status/891327558...">https://twitter.com/dog_rates/status/891327558...</a>	12
5	<a href="https://twitter.com/dog_rates/status/891087950...">https://twitter.com/dog_rates/status/891087950...</a>	13
6	<a href="https://gofundme.com/ydvmve-surgery-for-jax,ht...">https://gofundme.com/ydvmve-surgery-for-jax,ht...</a>	13
7	<a href="https://twitter.com/dog_rates/status/890729181...">https://twitter.com/dog_rates/status/890729181...</a>	13
8	<a href="https://twitter.com/dog_rates/status/890609185...">https://twitter.com/dog_rates/status/890609185...</a>	13
9	<a href="https://twitter.com/dog_rates/status/890240255...">https://twitter.com/dog_rates/status/890240255...</a>	14



10	<a href="https://twitter.com/dog_rates/status/890006608...">https://twitter.com/dog_rates/status/890006608...</a>	13
11	<a href="https://twitter.com/dog_rates/status/889880896...">https://twitter.com/dog_rates/status/889880896...</a>	13
12	<a href="https://twitter.com/dog_rates/status/889665388...">https://twitter.com/dog_rates/status/889665388...</a>	13
13	<a href="https://twitter.com/dog_rates/status/889638837...">https://twitter.com/dog_rates/status/889638837...</a>	12
14	<a href="https://twitter.com/dog_rates/status/889531135...">https://twitter.com/dog_rates/status/889531135...</a>	13
15	<a href="https://twitter.com/dog_rates/status/889278841...">https://twitter.com/dog_rates/status/889278841...</a>	13
16	<a href="https://twitter.com/dog_rates/status/888917238...">https://twitter.com/dog_rates/status/888917238...</a>	12
17	<a href="https://twitter.com/dog_rates/status/888804989...">https://twitter.com/dog_rates/status/888804989...</a>	13
18	<a href="https://twitter.com/dog_rates/status/888554962...">https://twitter.com/dog_rates/status/888554962...</a>	13
19	<a href="https://twitter.com/dog_rates/status/887473957...">https://twitter.com/dog_rates/status/887473957...</a>	13
20	<a href="https://twitter.com/dog_rates/status/888078434...">https://twitter.com/dog_rates/status/888078434...</a>	12
21	<a href="https://twitter.com/dog_rates/status/887705289...">https://twitter.com/dog_rates/status/887705289...</a>	13
22	<a href="https://twitter.com/dog_rates/status/887517139...">https://twitter.com/dog_rates/status/887517139...</a>	14
23	<a href="https://twitter.com/dog_rates/status/887473957...">https://twitter.com/dog_rates/status/887473957...</a>	13
24	<a href="https://twitter.com/dog_rates/status/887343217...">https://twitter.com/dog_rates/status/887343217...</a>	13
25	<a href="https://twitter.com/dog_rates/status/887101392...">https://twitter.com/dog_rates/status/887101392...</a>	12
26	<a href="https://twitter.com/dog_rates/status/886983233...">https://twitter.com/dog_rates/status/886983233...</a>	13
27	<a href="https://www.gofundme.com/mingusneedsus">https://www.gofundme.com/mingusneedsus</a> , <a href="https://...">https://...</a>	13
28	<a href="https://twitter.com/dog_rates/status/886680336...">https://twitter.com/dog_rates/status/886680336...</a>	13
29	<a href="https://twitter.com/dog_rates/status/886366144...">https://twitter.com/dog_rates/status/886366144...</a>	12
...	...	...
2326	<a href="https://twitter.com/dog_rates/status/666411507...">https://twitter.com/dog_rates/status/666411507...</a>	2
2327	<a href="https://twitter.com/dog_rates/status/666407126...">https://twitter.com/dog_rates/status/666407126...</a>	7
2328	<a href="https://twitter.com/dog_rates/status/666396247...">https://twitter.com/dog_rates/status/666396247...</a>	9
2329	<a href="https://twitter.com/dog_rates/status/666373753...">https://twitter.com/dog_rates/status/666373753...</a>	11
2330	<a href="https://twitter.com/dog_rates/status/666362758...">https://twitter.com/dog_rates/status/666362758...</a>	6
2331	<a href="https://twitter.com/dog_rates/status/666353288...">https://twitter.com/dog_rates/status/666353288...</a>	8
2332	<a href="https://twitter.com/dog_rates/status/666345417...">https://twitter.com/dog_rates/status/666345417...</a>	10
2333	<a href="https://twitter.com/dog_rates/status/666337882...">https://twitter.com/dog_rates/status/666337882...</a>	9
2334	<a href="https://twitter.com/dog_rates/status/666293911...">https://twitter.com/dog_rates/status/666293911...</a>	3
2335	<a href="https://twitter.com/dog_rates/status/666287406...">https://twitter.com/dog_rates/status/666287406...</a>	1
2336	<a href="https://twitter.com/dog_rates/status/666273097...">https://twitter.com/dog_rates/status/666273097...</a>	11
2337	<a href="https://twitter.com/dog_rates/status/666268910...">https://twitter.com/dog_rates/status/666268910...</a>	10
2338	<a href="https://twitter.com/dog_rates/status/666104133...">https://twitter.com/dog_rates/status/666104133...</a>	1
2339	<a href="https://twitter.com/dog_rates/status/666102155...">https://twitter.com/dog_rates/status/666102155...</a>	11
2340	<a href="https://twitter.com/dog_rates/status/666099513...">https://twitter.com/dog_rates/status/666099513...</a>	8
2341	<a href="https://twitter.com/dog_rates/status/666094000...">https://twitter.com/dog_rates/status/666094000...</a>	9
2342	<a href="https://twitter.com/dog_rates/status/666082916...">https://twitter.com/dog_rates/status/666082916...</a>	6
2343	<a href="https://twitter.com/dog_rates/status/666073100...">https://twitter.com/dog_rates/status/666073100...</a>	10
2344	<a href="https://twitter.com/dog_rates/status/666071193...">https://twitter.com/dog_rates/status/666071193...</a>	9
2345	<a href="https://twitter.com/dog_rates/status/666063827...">https://twitter.com/dog_rates/status/666063827...</a>	10
2346	<a href="https://twitter.com/dog_rates/status/666058600...">https://twitter.com/dog_rates/status/666058600...</a>	8
2347	<a href="https://twitter.com/dog_rates/status/666057090...">https://twitter.com/dog_rates/status/666057090...</a>	9
2348	<a href="https://twitter.com/dog_rates/status/666055525...">https://twitter.com/dog_rates/status/666055525...</a>	10
2349	<a href="https://twitter.com/dog_rates/status/666051853...">https://twitter.com/dog_rates/status/666051853...</a>	2
2350	<a href="https://twitter.com/dog_rates/status/666050758...">https://twitter.com/dog_rates/status/666050758...</a>	10
2351	<a href="https://twitter.com/dog_rates/status/666049248...">https://twitter.com/dog_rates/status/666049248...</a>	5
2352	<a href="https://twitter.com/dog_rates/status/666044226...">https://twitter.com/dog_rates/status/666044226...</a>	6

2353	<a href="https://twitter.com/dog_rates/status/666033412...">https://twitter.com/dog_rates/status/666033412...</a>	9
2354	<a href="https://twitter.com/dog_rates/status/666029285...">https://twitter.com/dog_rates/status/666029285...</a>	7
2355	<a href="https://twitter.com/dog_rates/status/666020888...">https://twitter.com/dog_rates/status/666020888...</a>	8

	rating_denominator	name	doggo	floofer	pupper	puppo
0	10	Phineas	None	None	None	None
1	10	Tilly	None	None	None	None
2	10	Archie	None	None	None	None
3	10	Darla	None	None	None	None
4	10	Franklin	None	None	None	None
5	10	None	None	None	None	None
6	10	Jax	None	None	None	None
7	10	None	None	None	None	None
8	10	Zoey	None	None	None	None
9	10	Cassie	doggo	None	None	None
10	10	Koda	None	None	None	None
11	10	Bruno	None	None	None	None
12	10	None	None	None	None	puppo
13	10	Ted	None	None	None	None
14	10	Stuart	None	None	None	puppo
15	10	Oliver	None	None	None	None
16	10	Jim	None	None	None	None
17	10	Zeke	None	None	None	None
18	10	Ralphus	None	None	None	None
19	10	Canela	None	None	None	None
20	10	Gerald	None	None	None	None
21	10	Jeffrey	None	None	None	None
22	10	such	None	None	None	None
23	10	Canela	None	None	None	None
24	10	None	None	None	None	None
25	10	None	None	None	None	None
26	10	Maya	None	None	None	None
27	10	Mingus	None	None	None	None
28	10	Derek	None	None	None	None
29	10	Roscoe	None	None	pupper	None
...	...	...	...	...	...	...
2326	10	quite	None	None	None	None
2327	10	a	None	None	None	None
2328	10	None	None	None	None	None
2329	10	None	None	None	None	None
2330	10	None	None	None	None	None
2331	10	None	None	None	None	None
2332	10	None	None	None	None	None
2333	10	an	None	None	None	None
2334	10	a	None	None	None	None
2335	2	an	None	None	None	None
2336	10	None	None	None	None	None
2337	10	None	None	None	None	None

2338	10	None	None	None	None	None
2339	10	None	None	None	None	None
2340	10	None	None	None	None	None
2341	10	None	None	None	None	None
2342	10	None	None	None	None	None
2343	10	None	None	None	None	None
2344	10	None	None	None	None	None
2345	10	the	None	None	None	None
2346	10	the	None	None	None	None
2347	10	a	None	None	None	None
2348	10	a	None	None	None	None
2349	10	an	None	None	None	None
2350	10	a	None	None	None	None
2351	10	None	None	None	None	None
2352	10	a	None	None	None	None
2353	10	a	None	None	None	None
2354	10	a	None	None	None	None
2355	10	None	None	None	None	None

[2356 rows x 17 columns]

```
In [7]: tweet_archive.set_index("tweet_id", inplace = True) # make tweet_id column as index
tweet_archive
```

```
Out[7]:
```

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tweet_id		
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timestamp \

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891327558926688256	2017-07-29 16:00:24 +0000
891087950875897856	2017-07-29 00:08:17 +0000

890971913173991426	2017-07-28 16:27:12 +0000
890729181411237888	2017-07-28 00:22:40 +0000
890609185150312448	2017-07-27 16:25:51 +0000
890240255349198849	2017-07-26 15:59:51 +0000
890006608113172480	2017-07-26 00:31:25 +0000
889880896479866881	2017-07-25 16:11:53 +0000
889665388333682689	2017-07-25 01:55:32 +0000
889638837579907072	2017-07-25 00:10:02 +0000
889531135344209921	2017-07-24 17:02:04 +0000
889278841981685760	2017-07-24 00:19:32 +0000
888917238123831296	2017-07-23 00:22:39 +0000
888804989199671297	2017-07-22 16:56:37 +0000
888554962724278272	2017-07-22 00:23:06 +0000
888202515573088257	2017-07-21 01:02:36 +0000
888078434458587136	2017-07-20 16:49:33 +0000
887705289381826560	2017-07-19 16:06:48 +0000
887517139158093824	2017-07-19 03:39:09 +0000
887473957103951883	2017-07-19 00:47:34 +0000
887343217045368832	2017-07-18 16:08:03 +0000
887101392804085760	2017-07-18 00:07:08 +0000
886983233522544640	2017-07-17 16:17:36 +0000
886736880519319552	2017-07-16 23:58:41 +0000
886680336477933568	2017-07-16 20:14:00 +0000
886366144734445568	2017-07-15 23:25:31 +0000
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666033412701032449	2015-11-15 23:21:54 +0000
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source \

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666020888022790149 <a href="http://twitter.com/download/iphone" r...

text \

tweet_id	
892420643555336193	This is Phineas. He's a mystical boy. Only eve...
892177421306343426	This is Tilly. She's just checking pup on you...
891815181378084864	This is Archie. He is a rare Norwegian Pouncin...
891689557279858688	This is Darla. She commenced a snooze mid meal...
891327558926688256	This is Franklin. He would like you to stop ca...
891087950875897856	Here we have a majestic great white breaching ...
890971913173991426	Meet Jax. He enjoys ice cream so much he gets ...
890729181411237888	When you watch your owner call another dog a g...
890609185150312448	This is Zoey. She doesn't want to be one of th...
890240255349198849	This is Cassie. She is a college pup. Studying...
890006608113172480	This is Koda. He is a South Australian decksha...
889880896479866881	This is Bruno. He is a service shark. Only get...
889665388333682689	Here's a puppo that seems to be on the fence a...
889638837579907072	This is Ted. He does his best. Sometimes that'...
889531135344209921	This is Stuart. He's sporting his favorite fan...
889278841981685760	This is Oliver. You're witnessing one of his m...
888917238123831296	This is Jim. He found a fren. Taught him how t...
888804989199671297	This is Zeke. He has a new stick. Very proud o...
888554962724278272	This is Ralphus. He's powering up. Attempting ...
888202515573088257	RT @dog_rates: This is Canela. She attempted s...
888078434458587136	This is Gerald. He was just told he didn't get...
887705289381826560	This is Jeffrey. He has a monopoly on the pool...

887517139158093824 I've yet to rate a Venezuelan Hover Wiener. Th...  
 887473957103951883 This is Canela. She attempted some fancy porch...  
 887343217045368832 You may not have known you needed to see this ...  
 887101392804085760 This... is a Jubilant Antarctic House Bear. We...  
 886983233522544640 This is Maya. She's very shy. Rarely leaves he...  
 886736880519319552 This is Mingus. He's a wonderful father to his...  
 886680336477933568 This is Derek. He's late for a dog meeting. 13...  
 886366144734445568 This is Roscoe. Another pupper fallen victim t...  
 ...  
 666411507551481857 This is quite the dog. Gets really excited whe...  
 666407126856765440 This is a southern Vesuvius bumblegruff. Can d...  
 666396247373291520 Oh goodness. A super rare northeast Qdoba kang...  
 666373753744588802 Those are sunglasses and a jean jacket. 11/10 ...  
 666362758909284353 Unique dog here. Very small. Lives in containe...  
 666353288456101888 Here we have a mixed Asiago from the Galápagos...  
 666345417576210432 Look at this jokester thinking seat belt laws ...  
 666337882303524864 This is an extremely rare horned Parthenon. No...  
 666293911632134144 This is a funny dog. Weird toes. Won't come do...  
 666287406224695296 This is an Albanian 3 1/2 legged Episcopalian...  
 666273097616637952 Can take selfies 11/10 <https://t.co/ws2AMaWpW>  
 666268910803644416 Very concerned about fellow dog trapped in com...  
 666104133288665088 Not familiar with this breed. No tail (weird)...  
 666102155909144576 Oh my. Here you are seeing an Adobe Setter giv...  
 666099513787052032 Can stand on stump for what seems like a while...  
 666094000022159362 This appears to be a Mongolian Presbyterian mi...  
 666082916733198337 Here we have a well-established sunblockerspan...  
 666073100786774016 Let's hope this flight isn't Malaysian (lol). ...  
 666071193221509120 Here we have a northern speckled Rhododendron...  
 666063827256086533 This is the happiest dog you will ever see. Ve...  
 666058600524156928 Here is the Rand Paul of retrievers folks! He'...  
 666057090499244032 My oh my. This is a rare blond Canadian terrie...  
 666055525042405380 Here is a Siberian heavily armored polar bear ...  
 666051853826850816 This is an odd dog. Hard on the outside but lo...  
 666050758794694657 This is a truly beautiful English Wilson Staff...  
 666049248165822465 Here we have a 1949 1st generation vulpix. Enj...  
 666044226329800704 This is a purebred Piers Morgan. Loves to Netf...  
 666033412701032449 Here is a very happy pup. Big fan of well-main...  
 666029285002620928 This is a western brown Mitsubishi terrier. Up...  
 666020888022790149 Here we have a Japanese Irish Setter. Lost eye...

tweet_id	retweeted_status_id	retweeted_status_user_id
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tweet_id	expanded_urls \
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892177421306343426	https://twitter.com/dog_rates/status/892177421...
891815181378084864	https://twitter.com/dog_rates/status/891815181...
891689557279858688	https://twitter.com/dog_rates/status/891689557...
891327558926688256	https://twitter.com/dog_rates/status/891327558...
891087950875897856	https://twitter.com/dog_rates/status/891087950...
890971913173991426	https://gofundme.com/ydvmve-surgery-for-jax,ht...
890729181411237888	https://twitter.com/dog_rates/status/890729181...
890609185150312448	https://twitter.com/dog_rates/status/890609185...
890240255349198849	https://twitter.com/dog_rates/status/890240255...
890006608113172480	https://twitter.com/dog_rates/status/890006608...
889880896479866881	https://twitter.com/dog_rates/status/889880896...
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889638837579907072	https://twitter.com/dog_rates/status/889638837...
889531135344209921	https://twitter.com/dog_rates/status/889531135...
889278841981685760	https://twitter.com/dog_rates/status/889278841...
888917238123831296	https://twitter.com/dog_rates/status/888917238...
888804989199671297	https://twitter.com/dog_rates/status/888804989...
888554962724278272	https://twitter.com/dog_rates/status/888554962...
888202515573088257	https://twitter.com/dog_rates/status/887473957...
888078434458587136	https://twitter.com/dog_rates/status/888078434...
887705289381826560	https://twitter.com/dog_rates/status/887705289...

```

887517139158093824 https://twitter.com/dog_rates/status/887517139...
887473957103951883 https://twitter.com/dog_rates/status/887473957...
887343217045368832 https://twitter.com/dog_rates/status/887343217...
887101392804085760 https://twitter.com/dog_rates/status/887101392...
886983233522544640 https://twitter.com/dog_rates/status/886983233...
886736880519319552 https://www.gofundme.com/mingusneedsus,https:/...
886680336477933568 https://twitter.com/dog_rates/status/886680336...
886366144734445568 https://twitter.com/dog_rates/status/886366144...
...
666411507551481857 https://twitter.com/dog_rates/status/666411507...
666407126856765440 https://twitter.com/dog_rates/status/666407126...
666396247373291520 https://twitter.com/dog_rates/status/666396247...
666373753744588802 https://twitter.com/dog_rates/status/666373753...
666362758909284353 https://twitter.com/dog_rates/status/666362758...
666353288456101888 https://twitter.com/dog_rates/status/666353288...
666345417576210432 https://twitter.com/dog_rates/status/666345417...
666337882303524864 https://twitter.com/dog_rates/status/666337882...
666293911632134144 https://twitter.com/dog_rates/status/666293911...
666287406224695296 https://twitter.com/dog_rates/status/666287406...
666273097616637952 https://twitter.com/dog_rates/status/666273097...
666268910803644416 https://twitter.com/dog_rates/status/666268910...
666104133288665088 https://twitter.com/dog_rates/status/666104133...
666102155909144576 https://twitter.com/dog_rates/status/666102155...
666099513787052032 https://twitter.com/dog_rates/status/666099513...
666094000022159362 https://twitter.com/dog_rates/status/666094000...
666082916733198337 https://twitter.com/dog_rates/status/666082916...
666073100786774016 https://twitter.com/dog_rates/status/666073100...
666071193221509120 https://twitter.com/dog_rates/status/666071193...
666063827256086533 https://twitter.com/dog_rates/status/666063827...
666058600524156928 https://twitter.com/dog_rates/status/666058600...
666057090499244032 https://twitter.com/dog_rates/status/666057090...
666055525042405380 https://twitter.com/dog_rates/status/666055525...
666051853826850816 https://twitter.com/dog_rates/status/666051853...
666050758794694657 https://twitter.com/dog_rates/status/666050758...
666049248165822465 https://twitter.com/dog_rates/status/666049248...
666044226329800704 https://twitter.com/dog_rates/status/666044226...
666033412701032449 https://twitter.com/dog_rates/status/666033412...
666029285002620928 https://twitter.com/dog_rates/status/666029285...
666020888022790149 https://twitter.com/dog_rates/status/666020888...

```

tweet_id	rating_numerator	rating_denominator	name	doggo \
892420643555336193	13	10	Phineas	None
892177421306343426	13	10	Tilly	None
891815181378084864	12	10	Archie	None
891689557279858688	13	10	Darla	None
891327558926688256	12	10	Franklin	None
891087950875897856	13	10	None	None

890971913173991426	13	10	Jax	None
890729181411237888	13	10	None	None
890609185150312448	13	10	Zoey	None
890240255349198849	14	10	Cassie	doggo
890006608113172480	13	10	Koda	None
889880896479866881	13	10	Bruno	None
889665388333682689	13	10	None	None
889638837579907072	12	10	Ted	None
889531135344209921	13	10	Stuart	None
889278841981685760	13	10	Oliver	None
888917238123831296	12	10	Jim	None
888804989199671297	13	10	Zeke	None
888554962724278272	13	10	Ralphus	None
888202515573088257	13	10	Canela	None
888078434458587136	12	10	Gerald	None
887705289381826560	13	10	Jeffrey	None
887517139158093824	14	10	such	None
887473957103951883	13	10	Canela	None
887343217045368832	13	10	None	None
887101392804085760	12	10	None	None
886983233522544640	13	10	Maya	None
886736880519319552	13	10	Mingus	None
886680336477933568	13	10	Derek	None
886366144734445568	12	10	Roscoe	None
...	...	...	...	...
666411507551481857	2	10	quite	None
666407126856765440	7	10	a	None
666396247373291520	9	10	None	None
666373753744588802	11	10	None	None
666362758909284353	6	10	None	None
666353288456101888	8	10	None	None
666345417576210432	10	10	None	None
666337882303524864	9	10	an	None
666293911632134144	3	10	a	None
666287406224695296	1	2	an	None
666273097616637952	11	10	None	None
666268910803644416	10	10	None	None
666104133288665088	1	10	None	None
666102155909144576	11	10	None	None
666099513787052032	8	10	None	None
666094000022159362	9	10	None	None
666082916733198337	6	10	None	None
666073100786774016	10	10	None	None
666071193221509120	9	10	None	None
666063827256086533	10	10	the	None
666058600524156928	8	10	the	None
666057090499244032	9	10	a	None
666055525042405380	10	10	a	None

666051853826850816	2	10	an	None
666050758794694657	10	10	a	None
666049248165822465	5	10	None	None
666044226329800704	6	10	a	None
666033412701032449	9	10	a	None
666029285002620928	7	10	a	None
666020888022790149	8	10	None	None

	floofer	pupper	puppo
tweet_id			
892420643555336193	None	None	None
892177421306343426	None	None	None
891815181378084864	None	None	None
891689557279858688	None	None	None
891327558926688256	None	None	None
891087950875897856	None	None	None
890971913173991426	None	None	None
890729181411237888	None	None	None
890609185150312448	None	None	None
890240255349198849	None	None	None
890006608113172480	None	None	None
889880896479866881	None	None	None
889665388333682689	None	None	puppo
889638837579907072	None	None	None
889531135344209921	None	None	puppo
889278841981685760	None	None	None
888917238123831296	None	None	None
888804989199671297	None	None	None
888554962724278272	None	None	None
888202515573088257	None	None	None
888078434458587136	None	None	None
887705289381826560	None	None	None
887517139158093824	None	None	None
887473957103951883	None	None	None
887343217045368832	None	None	None
887101392804085760	None	None	None
886983233522544640	None	None	None
886736880519319552	None	None	None
886680336477933568	None	None	None
886366144734445568	None	pupper	None
...	...	...	...
666411507551481857	None	None	None
666407126856765440	None	None	None
666396247373291520	None	None	None
666373753744588802	None	None	None
666362758909284353	None	None	None
666353288456101888	None	None	None
666345417576210432	None	None	None

666337882303524864	None	None	None
666293911632134144	None	None	None
666287406224695296	None	None	None
666273097616637952	None	None	None
666268910803644416	None	None	None
666104133288665088	None	None	None
666102155909144576	None	None	None
666099513787052032	None	None	None
666094000022159362	None	None	None
666082916733198337	None	None	None
666073100786774016	None	None	None
666071193221509120	None	None	None
666063827256086533	None	None	None
666058600524156928	None	None	None
666057090499244032	None	None	None
666055525042405380	None	None	None
666051853826850816	None	None	None
666050758794694657	None	None	None
666049248165822465	None	None	None
666044226329800704	None	None	None
666033412701032449	None	None	None
666029285002620928	None	None	None
666020888022790149	None	None	None

[2356 rows x 16 columns]

```
In [8]: import pandas as pd          # import pandas
import numpy as np                  # import numpy
import matplotlib.pyplot as plt     # import matplotlib
import requests                     # import requests
import tweepy                       # import tweepy
import os                           # import os
import json                         # import json
from timeit import default_timer as timer    # import timer
from tweepy import OAuthHandler      # import OAuthHandler
import json

from timeit import default_timer as timer

In [9]: consumer_key = 'xxxxxxxxxxxxxxxx'
consumer_secret = '
access_token = '
access_token_secret = 'z

auth = tweepy.OAuthHandler(consumer_key, consumer_secret) #
auth.set_access_token(access_token, access_token_secret)

# api = tweepy.API(auth, parser=tweepy.parsers.JSONParser(), wait_on_rate_limit=True)
api = tweepy.API(auth, wait_on_rate_limit=True)
```

```

In [10]: #df_image = pd.read_table('image-predictions.tsv')
         # df3 = pd.read_csv('example.csv')
         list = []      # create empty list
         exceptions = [] # create empty list
         #To test it I only ran the first 10 tweets
         for id in df_image['tweet_id']:
             #for id in df_image['tweet_id']:
                 #print(id)
                 #break
             try:

                 api_val_pre = api.get_status(id, wait_on_rate_limit=True, wait_on_rate_limit_notify=True)
                 #Added ".json" to make it readable
                 api_val = api_val_pre.json

                 favorites = api_val['favorite_count']
                 retweets = api_val['retweet_count']
                 time = pd.to_datetime(api_val['created_at'])

                 #append the corresponding favorites,retweets in the list for each tweet_id
                 list.append({'tweet_id': int(id),
                             'favorites': int(favorites),
                             'retweets': int(retweets)})

             except Exception as e:
                 exceptions.append(id)

         df3 = pd.DataFrame(list) # load the list in the dataframe
         # df3.to_csv(r'jsondata.csv')
         df3.head()

```

Rate limit reached. Sleeping for: 704  
Rate limit reached. Sleeping for: 710

```

Out[10]:
   favorites  retweets  tweet_id
0        2492        488  666020888022790149
1         124         46  666029285002620928
2         121         43  666033412701032449
3         286        135  666044226329800704
4         103         41  666049248165822465

```

In [ ]:

```

In [37]: df3.to_csv('jsondata.csv') #save the data frame to json data
         # df3 = pd.read_csv('example.csv')
         df3.info() # show info of df3

```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2356 entries, 0 to 2355

```



Data columns (total 32 columns):

tweet_id	2356 non-null int64
in_reply_to_status_id	78 non-null float64
in_reply_to_user_id	78 non-null float64
timestamp	2356 non-null object
source	2356 non-null object
text	2356 non-null object
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
rating_numerator	2356 non-null int64
rating_denominator	2356 non-null int64
name	2356 non-null object
doggo	2356 non-null object
floofer	2356 non-null object
pupper	2356 non-null object
puppo	2356 non-null object
jpg_url	2075 non-null object
img_num	2075 non-null float64
p1	2075 non-null object
p1_conf	2075 non-null float64
p1_dog	2075 non-null object
p2	2075 non-null object
p2_conf	2075 non-null float64
p2_dog	2075 non-null object
p3	2075 non-null object
p3_conf	2075 non-null float64
p3_dog	2075 non-null object
Unnamed: 0	2062 non-null float64
favorites	2062 non-null float64
retweets	2062 non-null float64
dogs_kind	2356 non-null object

dtypes: float64(11), int64(3), object(18)  
memory usage: 589.1+ KB

In [38]: exceptions

Out[38]: [676897532954456065,  
678740035362037760,  
680055455951884288,  
754011816964026368,  
802247111496568832,  
829374341691346946,  
837012587749474308,  
837366284874571778,  
842892208864923648,

```
844704788403113984,  
851953902622658560,  
861769973181624320,  
872261713294495745,  
873697596434513921,  
888202515573088257]
```

```
In [39]: newexceptions = []      # create empty list  
        for e in exceptions:    # for each id in exceptions  
            try:  
                page = api.get_status(e)  
                favorites = page['favorite_count']  
                retweets = page['retweet_count']  
                time = pd.to_datetime(page['created_at'])  
                df3.append({'tweet_id': int(e),  
                           'favorites': int(favorites),  
                           'retweets': int(retweets)})  
            except Exception:  
                newexceptions.append(id)
```

```
In [40]: list
```

```
Out[40]: [{'tweet_id': 666020888022790149, 'favorites': 2492, 'retweets': 488},  
          {'tweet_id': 666029285002620928, 'favorites': 124, 'retweets': 46},  
          {'tweet_id': 666033412701032449, 'favorites': 121, 'retweets': 43},  
          {'tweet_id': 666044226329800704, 'favorites': 286, 'retweets': 135},  
          {'tweet_id': 666049248165822465, 'favorites': 103, 'retweets': 41},  
          {'tweet_id': 666050758794694657, 'favorites': 129, 'retweets': 56},  
          {'tweet_id': 666051853826850816, 'favorites': 1178, 'retweets': 815},  
          {'tweet_id': 666055525042405380, 'favorites': 419, 'retweets': 229},  
          {'tweet_id': 666057090499244032, 'favorites': 281, 'retweets': 134},  
          {'tweet_id': 666058600524156928, 'favorites': 107, 'retweets': 56},  
          {'tweet_id': 666063827256086533, 'favorites': 456, 'retweets': 205},  
          {'tweet_id': 666071193221509120, 'favorites': 140, 'retweets': 55},  
          {'tweet_id': 666073100786774016, 'favorites': 310, 'retweets': 153},  
          {'tweet_id': 666082916733198337, 'favorites': 109, 'retweets': 42},  
          {'tweet_id': 666094000022159362, 'favorites': 158, 'retweets': 69},  
          {'tweet_id': 666099513787052032, 'favorites': 147, 'retweets': 63},  
          {'tweet_id': 666102155909144576, 'favorites': 75, 'retweets': 11},  
          {'tweet_id': 666104133288665088, 'favorites': 13858, 'retweets': 6241},  
          {'tweet_id': 666268910803644416, 'favorites': 99, 'retweets': 32},  
          {'tweet_id': 666273097616637952, 'favorites': 166, 'retweets': 75},  
          {'tweet_id': 666287406224695296, 'favorites': 141, 'retweets': 63},  
          {'tweet_id': 666293911632134144, 'favorites': 481, 'retweets': 338},  
          {'tweet_id': 666337882303524864, 'favorites': 189, 'retweets': 88},  
          {'tweet_id': 666345417576210432, 'favorites': 281, 'retweets': 130},  
          {'tweet_id': 666353288456101888, 'favorites': 211, 'retweets': 71},
```

```

{'tweet_id': 666362758909284353, 'favorites': 752, 'retweets': 544},
{'tweet_id': 666373753744588802, 'favorites': 179, 'retweets': 86},
{'tweet_id': 666396247373291520, 'favorites': 161, 'retweets': 81},
{'tweet_id': 666407126856765440, 'favorites': 103, 'retweets': 37},
{'tweet_id': 666411507551481857, 'favorites': 426, 'retweets': 317},
{'tweet_id': 666418789513326592, 'favorites': 118, 'retweets': 44},
{'tweet_id': 666421158376562688, 'favorites': 309, 'retweets': 111},
{'tweet_id': 666428276349472768, 'favorites': 159, 'retweets': 81},
{'tweet_id': 666430724426358785, 'favorites': 306, 'retweets': 189},
{'tweet_id': 666435652385423360, 'favorites': 160, 'retweets': 52},
{'tweet_id': 666437273139982337, 'favorites': 119, 'retweets': 46},
{'tweet_id': 666447344410484738, 'favorites': 99, 'retweets': 19},
{'tweet_id': 666454714377183233, 'favorites': 504, 'retweets': 205},
{'tweet_id': 66644823164719104, 'favorites': 227, 'retweets': 77},
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{'tweet_id': 666691418707132416, 'favorites': 185, 'retweets': 46},
{'tweet_id': 666701168228331520, 'favorites': 423, 'retweets': 213},
{'tweet_id': 666739327293083650, 'favorites': 229, 'retweets': 64},
{'tweet_id': 666776908487630848, 'favorites': 340, 'retweets': 171},
{'tweet_id': 666781792255496192, 'favorites': 377, 'retweets': 186},
{'tweet_id': 666786068205871104, 'favorites': 742, 'retweets': 478},
{'tweet_id': 666804364988780544, 'favorites': 231, 'retweets': 91},
{'tweet_id': 666817836334096384, 'favorites': 503, 'retweets': 246},
{'tweet_id': 666826780179869698, 'favorites': 247, 'retweets': 93},
{'tweet_id': 666835007768551424, 'favorites': 209, 'retweets': 79},
{'tweet_id': 666837028449972224, 'favorites': 802, 'retweets': 545},
{'tweet_id': 666983947667116034, 'favorites': 2510, 'retweets': 966},
{'tweet_id': 666996132027977728, 'favorites': 240, 'retweets': 91},
{'tweet_id': 667012601033924608, 'favorites': 439, 'retweets': 218},
{'tweet_id': 667044094246576128, 'favorites': 182, 'retweets': 50},
{'tweet_id': 667062181243039745, 'favorites': 213, 'retweets': 52},
{'tweet_id': 667065535570550784, 'favorites': 163, 'retweets': 46},
{'tweet_id': 667073648344346624, 'favorites': 394, 'retweets': 122},
{'tweet_id': 667090893657276420, 'favorites': 329, 'retweets': 124},
{'tweet_id': 667119796878725120, 'favorites': 324, 'retweets': 127},
{'tweet_id': 667138269671505920, 'favorites': 4537, 'retweets': 2169},
{'tweet_id': 667152164079423490, 'favorites': 47013, 'retweets': 16752},
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{'tweet_id': 667171260800061440, 'favorites': 218, 'retweets': 85},
{'tweet_id': 667174963120574464, 'favorites': 237, 'retweets': 80},
{'tweet_id': 667176164155375616, 'favorites': 604, 'retweets': 457},
{'tweet_id': 667177989038297088, 'favorites': 188, 'retweets': 55},
{'tweet_id': 667182792070062081, 'favorites': 14155, 'retweets': 6096},
{'tweet_id': 667188689915760640, 'favorites': 734, 'retweets': 409},
{'tweet_id': 667192066997374976, 'favorites': 380, 'retweets': 103},
{'tweet_id': 667200525029539841, 'favorites': 603, 'retweets': 258},
{'tweet_id': 667211855547486208, 'favorites': 484, 'retweets': 241},

```

```

{'tweet_id': 667369227918143488, 'favorites': 359, 'retweets': 162},
{'tweet_id': 667393430834667520, 'favorites': 190, 'retweets': 53},
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{'tweet_id': 667435689202614272, 'favorites': 302, 'retweets': 83},
{'tweet_id': 667437278097252352, 'favorites': 444, 'retweets': 233},
{'tweet_id': 667443425659232256, 'favorites': 770, 'retweets': 567},
{'tweet_id': 667453023279554560, 'favorites': 306, 'retweets': 88},
{'tweet_id': 667455448082227200, 'favorites': 188, 'retweets': 59},
{'tweet_id': 667470559035432960, 'favorites': 252, 'retweets': 97},
{'tweet_id': 667491009379606528, 'favorites': 526, 'retweets': 223},
{'tweet_id': 667495797102141441, 'favorites': 511, 'retweets': 264},
{'tweet_id': 667502640335572993, 'favorites': 528, 'retweets': 216},
{'tweet_id': 667509364010450944, 'favorites': 6707, 'retweets': 2099},
{'tweet_id': 667517642048163840, 'favorites': 366, 'retweets': 190},
{'tweet_id': 667524857454854144, 'favorites': 1674, 'retweets': 1096},
{'tweet_id': 667530908589760512, 'favorites': 460, 'retweets': 234},
{'tweet_id': 667534815156183040, 'favorites': 810, 'retweets': 526},
{'tweet_id': 667538891197542400, 'favorites': 202, 'retweets': 65},
{'tweet_id': 667544320556335104, 'favorites': 852, 'retweets': 522},
{'tweet_id': 667546741521195010, 'favorites': 334, 'retweets': 123},
{'tweet_id': 667549055577362432, 'favorites': 5724, 'retweets': 2258},
{'tweet_id': 667550882905632768, 'favorites': 0, 'retweets': 33},
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{'tweet_id': 695794761660297217, 'favorites': 3256, 'retweets': 807},
{'tweet_id': 695816827381944320, 'favorites': 3094, 'retweets': 1211},
{'tweet_id': 696405997980676096, 'favorites': 3290, 'retweets': 1188},
{'tweet_id': 696488710901260288, 'favorites': 2610, 'retweets': 1066},
{'tweet_id': 696713835009417216, 'favorites': 2442, 'retweets': 671},
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{'tweet_id': 696877980375769088, 'favorites': 2509, 'retweets': 731},
{'tweet_id': 696886256886657024, 'favorites': 5004, 'retweets': 1871},
{'tweet_id': 696894894812565505, 'favorites': 2405, 'retweets': 697},
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{'tweet_id': 697242256848379904, 'favorites': 2581, 'retweets': 691},
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{'tweet_id': 699079609774645248, 'favorites': 2516, 'retweets': 679},
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{'tweet_id': 699323444782047232, 'favorites': 3256, 'retweets': 897},
{'tweet_id': 699370870310113280, 'favorites': 1939, 'retweets': 452},

```

```

{'tweet_id': 699413908797464576, 'favorites': 2134, 'retweets': 638},
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{'tweet_id': 699434518667751424, 'favorites': 2222, 'retweets': 526},
{'tweet_id': 699446877801091073, 'favorites': 6106, 'retweets': 2708},
{'tweet_id': 699691744225525762, 'favorites': 10544, 'retweets': 4782},
{'tweet_id': 699775878809702401, 'favorites': 2011, 'retweets': 625},
{'tweet_id': 699779630832685056, 'favorites': 2835, 'retweets': 1289},
{'tweet_id': 699788877217865730, 'favorites': 2303, 'retweets': 519},
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{'tweet_id': 700029284593901568, 'favorites': 2132, 'retweets': 603},
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{'tweet_id': 700143752053182464, 'favorites': 7739, 'retweets': 2831},
{'tweet_id': 700151421916807169, 'favorites': 2299, 'retweets': 694},
{'tweet_id': 700167517596164096, 'favorites': 2716, 'retweets': 771},
{'tweet_id': 700462010979500032, 'favorites': 4245, 'retweets': 1855},
{'tweet_id': 700505138482569216, 'favorites': 2347, 'retweets': 593},
{'tweet_id': 700518061187723268, 'favorites': 2700, 'retweets': 825},
{'tweet_id': 700747788515020802, 'favorites': 23521, 'retweets': 9674},
{'tweet_id': 700796979434098688, 'favorites': 2508, 'retweets': 987},
{'tweet_id': 700847567345688576, 'favorites': 2513, 'retweets': 518},
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{'tweet_id': 702217446468493312, 'favorites': 4933, 'retweets': 1385},
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{'tweet_id': 703356393781329922, 'favorites': 1961, 'retweets': 399},
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{'tweet_id': 703611486317502464, 'favorites': 3961, 'retweets': 1572},
{'tweet_id': 703631701117943808, 'favorites': 2663, 'retweets': 707},
{'tweet_id': 703769065844768768, 'favorites': 3374, 'retweets': 1178},

```

```

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{'tweet_id': 704054845121142784, 'favorites': 3006, 'retweets': 945},
{'tweet_id': 704113298707505153, 'favorites': 1898, 'retweets': 583},
{'tweet_id': 704347321748819968, 'favorites': 1628, 'retweets': 359},
{'tweet_id': 704364645503647744, 'favorites': 8227, 'retweets': 3681},
{'tweet_id': 704480331685040129, 'favorites': 3482, 'retweets': 1097},
{'tweet_id': 704499785726889984, 'favorites': 3005, 'retweets': 1038},
{'tweet_id': 704761120771465216, 'favorites': 6808, 'retweets': 2996},
{'tweet_id': 704819833553219584, 'favorites': 2713, 'retweets': 1022},
{'tweet_id': 704847917308362754, 'favorites': 5238, 'retweets': 1587},
{'tweet_id': 704859558691414016, 'favorites': 2314, 'retweets': 562},
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{'tweet_id': 705066031337840642, 'favorites': 2233, 'retweets': 632},
{'tweet_id': 705102439679201280, 'favorites': 2209, 'retweets': 527},
{'tweet_id': 705223444686888960, 'favorites': 2642, 'retweets': 824},
{'tweet_id': 705239209544720384, 'favorites': 3080, 'retweets': 772},
{'tweet_id': 705428427625635840, 'favorites': 3910, 'retweets': 1745},
{'tweet_id': 705442520700944385, 'favorites': 4559, 'retweets': 1684},
{'tweet_id': 705475953783398401, 'favorites': 3030, 'retweets': 951},
{'tweet_id': 705591895322394625, 'favorites': 3255, 'retweets': 1189},
{'tweet_id': 705786532653883392, 'favorites': 2002, 'retweets': 538},
{'tweet_id': 705898680587526145, 'favorites': 2424, 'retweets': 573},
{'tweet_id': 705970349788291072, 'favorites': 3232, 'retweets': 919},
{'tweet_id': 705975130514706432, 'favorites': 3192, 'retweets': 758},
{'tweet_id': 706166467411222528, 'favorites': 5295, 'retweets': 1658},
{'tweet_id': 706265994973601792, 'favorites': 2808, 'retweets': 959},
{'tweet_id': 706291001778950144, 'favorites': 1746, 'retweets': 484},
{'tweet_id': 706310011488698368, 'favorites': 21946, 'retweets': 8237},
{'tweet_id': 706346369204748288, 'favorites': 3541, 'retweets': 955},
{'tweet_id': 706516534877929472, 'favorites': 3184, 'retweets': 1063},
{'tweet_id': 706538006853918722, 'favorites': 3554, 'retweets': 1467},
{'tweet_id': 706593038911545345, 'favorites': 2217, 'retweets': 649},
{'tweet_id': 706644897839910912, 'favorites': 2648, 'retweets': 1132},
{'tweet_id': 706681918348251136, 'favorites': 3412, 'retweets': 1002},
{'tweet_id': 706901761596989440, 'favorites': 2122, 'retweets': 616},
{'tweet_id': 707014260413456384, 'favorites': 2365, 'retweets': 610},
{'tweet_id': 707021089608753152, 'favorites': 4193, 'retweets': 1419},
{'tweet_id': 707038192327901184, 'favorites': 2247, 'retweets': 813},
{'tweet_id': 707059547140169728, 'favorites': 2653, 'retweets': 698},
{'tweet_id': 707297311098011648, 'favorites': 2852, 'retweets': 819},
{'tweet_id': 707315916783140866, 'favorites': 2539, 'retweets': 663},
{'tweet_id': 707377100785885184, 'favorites': 3370, 'retweets': 1117},
{'tweet_id': 707387676719185920, 'favorites': 3595, 'retweets': 1340},
{'tweet_id': 707411934438625280, 'favorites': 2345, 'retweets': 613},
{'tweet_id': 707420581654872064, 'favorites': 2337, 'retweets': 715},
{'tweet_id': 707610948723478529, 'favorites': 17416, 'retweets': 6585},
{'tweet_id': 707693576495472641, 'favorites': 3517, 'retweets': 1033},
{'tweet_id': 707741517457260545, 'favorites': 2557, 'retweets': 633},

```

```
{'tweet_id': 707776935007539200, 'favorites': 3372, 'retweets': 983},
{'tweet_id': 707969809498152960, 'favorites': 2773, 'retweets': 998},
{'tweet_id': 707995814724026368, 'favorites': 3221, 'retweets': 1162},
{'tweet_id': 708026248782585858, 'favorites': 4489, 'retweets': 1984},
{'tweet_id': 708109389455101952, 'favorites': 1986, 'retweets': 561},
{'tweet_id': 708119489313951744, 'favorites': 2756, 'retweets': 1014},
{'tweet_id': 708130923141795840, 'favorites': 3483, 'retweets': 873},
{'tweet_id': 708149363256774660, 'favorites': 4389, 'retweets': 1597},
{'tweet_id': 708349470027751425, 'favorites': 2413, 'retweets': 760},
{'tweet_id': 708356463048204288, 'favorites': 3691, 'retweets': 1370},
{'tweet_id': 708469915515297792, 'favorites': 3169, 'retweets': 842},
{'tweet_id': 708479650088034305, 'favorites': 2619, 'retweets': 696},
{'tweet_id': 708711088997666817, 'favorites': 2612, 'retweets': 745},
{'tweet_id': 708738143638450176, 'favorites': 2817, 'retweets': 844},
{'tweet_id': 708810915978854401, 'favorites': 16932, 'retweets': 7162},
...]
```

```
In [41]: df3 = pd.DataFrame(df3, columns = ['tweet_id', 'favorites', 'retweets'])
df3.to_csv('tweet_json.txt', encoding = 'utf-8') #convert the dataframe to csv
```

```
In [42]: df3 = pd.read_csv('tweet_json.txt', encoding = 'utf-8')
df3.set_index('tweet_id', inplace = True)
df3.tail()
```

```
Out[42]:
```

	Unnamed: 0	favorites	retweets
tweet_id			
666049248165822465	2351	103.0	41.0
666044226329800704	2352	286.0	135.0
666033412701032449	2353	121.0	43.0
666029285002620928	2354	125.0	46.0
666020888022790149	2355	2494.0	488.0

## ASSESS

```
In [43]: tweet_archive.head() # show head of tweet_archive
```

```
Out[43]:
```

	in_reply_to_status_id	in_reply_to_user_id	\
tweet_id			
892420643555336193	NaN	NaN	
892177421306343426	NaN	NaN	
891815181378084864	NaN	NaN	
891689557279858688	NaN	NaN	
891327558926688256	NaN	NaN	

	timestamp	\
tweet_id		
892420643555336193	2017-08-01 16:23:56 +0000	
892177421306343426	2017-08-01 00:17:27 +0000	
891815181378084864	2017-07-31 00:18:03 +0000	

891689557279858688	2017-07-30 15:58:51 +0000
891327558926688256	2017-07-29 16:00:24 +0000

	source \
tweet_id	
892420643555336193	<a href="http://twitter.com/download/iphone" r...
892177421306343426	<a href="http://twitter.com/download/iphone" r...
891815181378084864	<a href="http://twitter.com/download/iphone" r...
891689557279858688	<a href="http://twitter.com/download/iphone" r...
891327558926688256	<a href="http://twitter.com/download/iphone" r...

	text \
tweet_id	
892420643555336193	This is Phineas. He's a mystical boy. Only eve...
892177421306343426	This is Tilly. She's just checking pup on you...
891815181378084864	This is Archie. He is a rare Norwegian Pouncin...
891689557279858688	This is Darla. She commenced a snooze mid meal...
891327558926688256	This is Franklin. He would like you to stop ca...

	retweeted_status_id	retweeted_status_user_id \
tweet_id		
892420643555336193	NaN	NaN
892177421306343426	NaN	NaN
891815181378084864	NaN	NaN
891689557279858688	NaN	NaN
891327558926688256	NaN	NaN

	retweeted_status_timestamp \
tweet_id	
892420643555336193	NaN
892177421306343426	NaN
891815181378084864	NaN
891689557279858688	NaN
891327558926688256	NaN

	expanded_urls \
tweet_id	
892420643555336193	https://twitter.com/dog_rates/status/892420643...
892177421306343426	https://twitter.com/dog_rates/status/892177421...
891815181378084864	https://twitter.com/dog_rates/status/891815181...
891689557279858688	https://twitter.com/dog_rates/status/891689557...
891327558926688256	https://twitter.com/dog_rates/status/891327558...

	rating_numerator	rating_denominator	name	doggo \
tweet_id				
892420643555336193	13	10	Phineas	None
892177421306343426	13	10	Tilly	None
891815181378084864	12	10	Archie	None



891689557279858688	13	10	Darla	None
891327558926688256	12	10	Franklin	None

	floofer	pupper	puppo
tweet_id			
892420643555336193	None	None	None
892177421306343426	None	None	None
891815181378084864	None	None	None
891689557279858688	None	None	None
891327558926688256	None	None	None

In [44]: `tweet_archive.info()` *# show the info of tweet\_archive*

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 2356 entries, 892420643555336193 to 666020888022790149
Data columns (total 16 columns):
in_reply_to_status_id      78 non-null float64
in_reply_to_user_id       78 non-null float64
timestamp                  2356 non-null object
source                     2356 non-null object
text                       2356 non-null object
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
rating_numerator           2356 non-null int64
rating_denominator         2356 non-null int64
name                       2356 non-null object
doggo                      2356 non-null object
floofer                    2356 non-null object
pupper                     2356 non-null object
puppo                      2356 non-null object
dtypes: float64(4), int64(2), object(10)
memory usage: 312.9+ KB
```

In [45]: `tweet_archive.name.value_counts()` *# show the name counts of tweet\_archive*

```
Out[45]: None      745
a                55
Charlie          12
Oliver           11
Lucy             11
Cooper           11
Lola             10
Tucker           10
Penny            10
Winston          9
Bo               9
```

Sadie	8
the	8
Bailey	7
Daisy	7
Toby	7
an	7
Buddy	7
Koda	6
Scout	6
Leo	6
Dave	6
Rusty	6
Bella	6
Jax	6
Jack	6
Oscar	6
Stanley	6
Milo	6
Finn	5

...

Leonard	1
Flurpson	1
Beebop	1
Reptar	1
Longfellow	1
Kayla	1
Bowie	1
Lassie	1
Tess	1
Rinna	1
Lipton	1
Spencer	1
Georgie	1
Rey	1
Lizzie	1
Liam	1
Chadrick	1
Raphael	1
Robin	1
Flash	1
Travis	1
Suki	1
Fabio	1
Goliath	1
Ralphus	1
Daniel	1
Dwight	1
Farfle	1

```
Napolean      1
Bert           1
Name: name, Length: 957, dtype: int64
```

```
In [46]: tweet_archive.rating_denominator.value_counts() # show count of the rating_denominator
```

```
Out[46]: 10      2333
         11        3
         50        3
         80        2
         20        2
          2         1
         16         1
         40         1
         70         1
         15         1
         90         1
        110         1
        120         1
        130         1
        150         1
        170         1
          7         1
          0         1
Name: rating_denominator, dtype: int64
```

```
In [47]: tweet_archive.rating_numerator.value_counts() # show count of the rating_numerator
```

```
Out[47]: 12      558
         11     464
         10     461
         13     351
          9     158
          8     102
          7      55
         14      54
          5      37
          6      32
          3      19
          4      17
          1       9
          2       9
        420       2
          0       2
         15       2
         75       2
         80       1
         20       1
         24       1
```

26	1
44	1
50	1
60	1
165	1
84	1
88	1
144	1
182	1
143	1
666	1
960	1
1776	1
17	1
27	1
45	1
99	1
121	1
204	1

Name: rating\_numerator, dtype: int64

```
In [48]: df_image.info() # show info of df_image
```

```
<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
p1            2075 non-null object
p1_conf       2075 non-null float64
p1_dog        2075 non-null bool
p2            2075 non-null object
p2_conf       2075 non-null float64
p2_dog        2075 non-null bool
p3            2075 non-null object
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 [49]: tweetjson = pd.read_csv("tweet_json.txt", encoding = 'utf-8') # read tweet_json.txt using
tweetjson.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2356 entries, 0 to 2355
Data columns (total 4 columns):
Unnamed: 0    2356 non-null int64
```

```

tweet_id      2356 non-null int64
favorites     2062 non-null float64
retweets      2062 non-null float64
dtypes: float64(2), int64(2)
memory usage: 73.7 KB

```

Quality and Tidiness Quality Columns 'in\_rely\_to\_status', 'in\_reply\_to\_user\_id', 'retweeted\_status\_id', 'retweeted\_status\_user\_id', 'retweeted\_status\_timestamp' have empty values. The name column has many entries which do not look like names. The most frequent entry in name column is "a", which is not a name. The timestamp column is an object. It has to be a datetime object. The number of rows in images df is 2075 while it is 2356 rows in the archive dataframe. Several columns have null values. 'Unnamed: 0' column in the tweet dataframe is not clean. Tidiness columns are assigned for the dog stages, instead of usinf a single one. The dog breed predictions column can be condensed

```

In [50]: df3 = pd.read_csv("df5copy.csv") # read df5copy.csv using pandas
         df3.columns

```

```

Out[50]: Index(['tweet_id', 'in_reply_to_status_id', 'in_reply_to_user_id', 'timestamp',
               'source', 'text', 'retweeted_status_id', 'retweeted_status_user_id',
               'retweeted_status_timestamp', 'expanded_urls', 'rating_numerator',
               'rating_denominator', 'name', 'doggo', 'floofer', 'pupper', 'puppo',
               'jpg_url', 'img_num', 'p1', 'p1_conf', 'p1_dog', 'p2', 'p2_conf',
               'p2_dog', 'p3', 'p3_conf', 'p3_dog', 'Unnamed: 0', 'favorites',
               'retweets'],
              dtype='object')

```

Clean

```

In [51]: df3_clean = df3.copy()
         df3_clean.columns

```

```

Out[51]: Index(['tweet_id', 'in_reply_to_status_id', 'in_reply_to_user_id', 'timestamp',
               'source', 'text', 'retweeted_status_id', 'retweeted_status_user_id',
               'retweeted_status_timestamp', 'expanded_urls', 'rating_numerator',
               'rating_denominator', 'name', 'doggo', 'floofer', 'pupper', 'puppo',
               'jpg_url', 'img_num', 'p1', 'p1_conf', 'p1_dog', 'p2', 'p2_conf',
               'p2_dog', 'p3', 'p3_conf', 'p3_dog', 'Unnamed: 0', 'favorites',
               'retweets'],
              dtype='object')

```

```

In [52]: del df3_clean['Unnamed: 0'] # delete 'Unnamed: 0' column

```

```

In [53]: df3_clean.columns # check the columns

```

```

Out[53]: Index(['tweet_id', 'in_reply_to_status_id', 'in_reply_to_user_id', 'timestamp',
               'source', 'text', 'retweeted_status_id', 'retweeted_status_user_id',
               'retweeted_status_timestamp', 'expanded_urls', 'rating_numerator',

```

```

        'rating_denominator', 'name', 'doggo', 'floofer', 'pupper', 'puppo',
        'jpg_url', 'img_num', 'p1', 'p1_conf', 'p1_dog', 'p2', 'p2_conf',
        'p2_dog', 'p3', 'p3_conf', 'p3_dog', 'favorites', 'retweets'],
        dtype='object')

```

```
In [54]: df3_clean['timestamp'] = pd.to_datetime(df3_clean['timestamp']) # convert the timestamp
```

```
In [55]: df3_clean.info() # show df3 info
```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2356 entries, 0 to 2355
Data columns (total 30 columns):
tweet_id                2356 non-null int64
in_reply_to_status_id   78 non-null float64
in_reply_to_user_id     78 non-null float64
timestamp               2356 non-null datetime64[ns]
source                  2356 non-null object
text                    2356 non-null object
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
rating_numerator        2356 non-null int64
rating_denominator      2356 non-null int64
name                    2356 non-null object
doggo                   2356 non-null object
floofer                 2356 non-null object
pupper                  2356 non-null object
puppo                   2356 non-null object
jpg_url                 2075 non-null object
img_num                 2075 non-null float64
p1                       2075 non-null object
p1_conf                 2075 non-null float64
p1_dog                  2075 non-null object
p2                       2075 non-null object
p2_conf                 2075 non-null float64
p2_dog                  2075 non-null object
p3                       2075 non-null object
p3_conf                 2075 non-null float64
p3_dog                  2075 non-null object
favorites                2062 non-null float64
retweets                2062 non-null float64
dtypes: datetime64[ns](1), float64(10), int64(3), object(16)
memory usage: 552.3+ KB

```

```
In [56]: df3_clean = df3_clean[pd.notnull(df3['jpg_url'])] # exclude tweets without images
```

```

In [57]: # exclude retweets
df3_clean = df3_clean[pd.isnull(df3_clean['retweeted_status_id'])]

```

```

In [58]: df3_clean.drop(['retweeted_status_id', 'retweeted_status_user_id', 'retweeted_status_ti

In [59]: df3_clean.columns #show columns

Out[59]: Index(['tweet_id', 'in_reply_to_status_id', 'in_reply_to_user_id', 'timestamp',
               'source', 'text', 'expanded_urls', 'rating_numerator',
               'rating_denominator', 'name', 'doggo', 'floofer', 'pupper', 'puppo',
               'jpg_url', 'img_num', 'p1', 'p1_conf', 'p1_dog', 'p2', 'p2_conf',
               'p2_dog', 'p3', 'p3_conf', 'p3_dog', 'favorites', 'retweets'],
              dtype='object')

In [60]: # Condensing columnsnfor dog type
dogs_kind = []

x = ['pupper', 'puppo', 'doggo', 'floof']
y = ['pupper', 'puppo', 'doggo', 'floof']

for row in df3['text']:
    row = row.lower()
    for word in x:
        if word in str(row):
            dogs_kind.append(y[x.index(word)])
            break
    else:
        dogs_kind.append('None')

df3['dogs_kind'] = dogs_kind

In [61]: # removing the columns not used
df3_clean.drop(['doggo', 'floofer', 'pupper', 'puppo'], axis=1, inplace=True)

In [62]: #df3_clean['dogs_kind']
df3['dogs_kind'].value_counts()

Out[62]: None      1905
pupper      283
doggo       93
puppo       38
floof       37
Name: dogs_kind, dtype: int64

In [88]: twitter_archive.groupby(["doggo", "floofer", "pupper", "puppo"]).
size().reset_index().rename(columns={0: "count"})

File "<ipython-input-88-93ea9f4acc4a>", line 1
twitter_archive.groupby(["doggo", "floofer", "pupper", "puppo"]).
^
SyntaxError: invalid syntax

```

```

In [ ]:

In [ ]:

In [65]: dog_type = []
         conf = []

         def type_conf(row):
             if row['p1_dog']:
                 dog_type.append(row['p1'])
                 conf.append(row['p1_conf'])
             elif row['p2_dog']:
                 dog_type.append(row['p2'])
                 conf.append(row['p2_conf'])
             elif row['p3_dog']:
                 dog_type.append(row['p3'])
                 conf.append(row['p3_conf'])
             else:
                 dog_type.append('Unidentifiable')
                 conf.append(0)

         df3_clean.apply(type_conf, axis = 1)

         df3_clean['dog_type'] = dog_type
         df3_clean['confidence'] = conf

In [66]: df3_clean.drop(['p1', 'p1_conf', 'p1_dog', 'p2', 'p2_conf', 'p2_dog', 'p3', 'p3_conf',

In [67]: df3_clean.head() # show df3

Out[67]:
          tweet_id  in_reply_to_status_id  in_reply_to_user_id \
0  892420643555336193                NaN                NaN
1  892177421306343426                NaN                NaN
2  891815181378084864                NaN                NaN
3  891689557279858688                NaN                NaN
4  891327558926688256                NaN                NaN

          timestamp                source \
0  2017-08-01 16:23:56  <a href="http://twitter.com/download/iphone" r...
1  2017-08-01 00:17:27  <a href="http://twitter.com/download/iphone" r...
2  2017-07-31 00:18:03  <a href="http://twitter.com/download/iphone" r...
3  2017-07-30 15:58:51  <a href="http://twitter.com/download/iphone" r...
4  2017-07-29 16:00:24  <a href="http://twitter.com/download/iphone" r...

          text \
0  This is Phineas. He's a mystical boy. Only eve...
1  This is Tilly. She's just checking pup on you...
2  This is Archie. He is a rare Norwegian Pouncin...
3  This is Darla. She commenced a snooze mid meal...

```



```
4 This is Franklin. He would like you to stop ca...
```

	expanded_urls	rating_numerator	\
0	https://twitter.com/dog_rates/status/892420643...	13	
1	https://twitter.com/dog_rates/status/892177421...	13	
2	https://twitter.com/dog_rates/status/891815181...	12	
3	https://twitter.com/dog_rates/status/891689557...	13	
4	https://twitter.com/dog_rates/status/891327558...	12	

	rating_denominator	name	\
0	10	Phineas	
1	10	Tilly	
2	10	Archie	
3	10	Darla	
4	10	Franklin	

	jpg_url	img_num	favorites	\
0	https://pbs.twimg.com/media/DGKD1-bXoAAIAUK.jpg	1.0	37386.0	
1	https://pbs.twimg.com/media/DGGmoV4XsAAUL6n.jpg	1.0	32141.0	
2	https://pbs.twimg.com/media/DGBdLU1WsAANxJ9.jpg	1.0	24225.0	
3	https://pbs.twimg.com/media/DF_q7IAWsAEuuN8.jpg	1.0	40697.0	
4	https://pbs.twimg.com/media/DF6hr6BUMAAzZgT.jpg	2.0	38915.0	

	retweets	dog_type	confidence
0	8074.0	Unidentifiable	0.000000
1	5993.0	Chihuahua	0.323581
2	3967.0	Chihuahua	0.716012
3	8246.0	Labrador_retriever	0.168086
4	8923.0	basset	0.555712

```
In [68]: df3_clean['in_reply_to_status_id'].value_counts() #show count for ['in_reply_to_status_id']
```

```
Out[68]: 6.671522e+17    2
          8.558181e+17    1
          6.753494e+17    1
          6.747934e+17    1
          6.747522e+17    1
          7.468859e+17    1
          6.706684e+17    1
          6.844811e+17    1
          6.749998e+17    1
          6.842229e+17    1
          7.291135e+17    1
          6.754971e+17    1
          6.717299e+17    1
          6.715610e+17    1
          7.030419e+17    1
          6.757073e+17    1
```

```

7.590995e+17    1
6.914169e+17    1
7.032559e+17    1
6.678065e+17    1
6.920419e+17    1
7.331095e+17    1
Name: in_reply_to_status_id, dtype: int64

```

```
In [69]: df3_clean['in_reply_to_user_id'].value_counts() #show count for ['in_reply_to_user_id']
```

```

Out[69]: 4.196984e+09    23
        Name: in_reply_to_user_id, dtype: int64

```

```
In [70]: df3_clean.drop(['in_reply_to_status_id', 'in_reply_to_user_id'], axis=1, inplace=True)
```

```
In [71]: df3_clean.columns # show columns
```

```

Out[71]: Index(['tweet_id', 'timestamp', 'source', 'text', 'expanded_urls',
               'rating_numerator', 'rating_denominator', 'name', 'jpg_url', 'img_num',
               'favorites', 'retweets', 'dog_type', 'confidence'],
              dtype='object')

```

```
In [76]: rates = []
```

```

#raw_rates = lambda x: rates.append(re.findall(r'(\d+(\.\d+)/(\d+))\s*/(\d+0)', x, flags=
# df3['text'].apply(lambda x: rates.append(re.findall(r'(\d+(\.\d+)/(\d+))\s*/(\d+0)', x,
df3.text.str.extract('((?:\d+\.)?\d+)\s*/(\d+)', expand=True)
rating = []
dog_count = []

for item in rates:

    # for tweets with no rating, but a picture, so a dog_count of 1
    if len(item) == 0:
        rating.append('NaN')
        dog_count.append(1)

    # for tweets with single rating and dog_count of 1
    elif len(item) == 1 and item[0][-1] == '10':
        rating.append(float(item[0][0]))
        dog_count.append(1)

    # for multiple ratings
    elif len(item) == 1:
        a = float(item[0][0]) / (float(item[0][-1]) / 10)
        rating.append(a)
        dog_count.append(float(item[0][-1]) / 10)

```

```

# for tweets with more than one rating
elif len(item) > 1:
    total = 0
    r = []
    for i in range(len(item)):
        if item[i][-1] == '10': #one tweet has the phrase '50/50' so I'm coding to
            r.append(item[i])
    for rate in r:
        total = total + float(rate[0])
    a = total / len(item)
    rating.append(a)
    dog_count.append(len(item))

# if any error has occurred
else:
    rating.append('Not parsed')
    dog_count.append('Not parsed')

# df3['rating'] = rating # not need to also add denominator since they are all 10!
# df3['dog_count'] = dog_count
# df3['rating'].value_counts()

```

**0.0.1 df.drop(['rating\_numerator', 'rating\_denominator'], axis=1, inplace=True)**

Store

In [77]: df3

```

Out[77]:
   tweet_id  in_reply_to_status_id  in_reply_to_user_id  \
0    892420643555336193           NaN                NaN
1    892177421306343426           NaN                NaN
2    891815181378084864           NaN                NaN
3    891689557279858688           NaN                NaN
4    891327558926688256           NaN                NaN
5    891087950875897856           NaN                NaN
6    890971913173991426           NaN                NaN
7    890729181411237888           NaN                NaN
8    890609185150312448           NaN                NaN
9    890240255349198849           NaN                NaN
10   890006608113172480           NaN                NaN
11   889880896479866881           NaN                NaN
12   889665388333682689           NaN                NaN
13   889638837579907072           NaN                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
23	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
...	...	...	...
2326	666411507551481857	NaN	NaN
2327	666407126856765440	NaN	NaN
2328	666396247373291520	NaN	NaN
2329	666373753744588802	NaN	NaN
2330	666362758909284353	NaN	NaN
2331	666353288456101888	NaN	NaN
2332	666345417576210432	NaN	NaN
2333	666337882303524864	NaN	NaN
2334	666293911632134144	NaN	NaN
2335	666287406224695296	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
2345	666063827256086533	NaN	NaN
2346	666058600524156928	NaN	NaN
2347	666057090499244032	NaN	NaN
2348	666055525042405380	NaN	NaN
2349	666051853826850816	NaN	NaN
2350	666050758794694657	NaN	NaN
2351	666049248165822465	NaN	NaN
2352	666044226329800704	NaN	NaN
2353	666033412701032449	NaN	NaN
2354	666029285002620928	NaN	NaN
2355	666020888022790149	NaN	NaN

	timestamp \
0	2017-08-01 16:23:56 +0000
1	2017-08-01 00:17:27 +0000
2	2017-07-31 00:18:03 +0000
3	2017-07-30 15:58:51 +0000

4	2017-07-29	16:00:24	+0000
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
12	2017-07-25	01:55:32	+0000
13	2017-07-25	00:10:02	+0000
14	2017-07-24	17:02:04	+0000
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
19	2017-07-21	01:02:36	+0000
20	2017-07-20	16:49:33	+0000
21	2017-07-19	16:06:48	+0000
22	2017-07-19	03:39:09	+0000
23	2017-07-19	00:47:34	+0000
24	2017-07-18	16:08:03	+0000
25	2017-07-18	00:07:08	+0000
26	2017-07-17	16:17:36	+0000
27	2017-07-16	23:58:41	+0000
28	2017-07-16	20:14:00	+0000
29	2017-07-15	23:25:31	+0000
...			...
2326	2015-11-17	00:24:19	+0000
2327	2015-11-17	00:06:54	+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
2333	2015-11-16	19:31:45	+0000
2334	2015-11-16	16:37:02	+0000
2335	2015-11-16	16:11:11	+0000
2336	2015-11-16	15:14:19	+0000
2337	2015-11-16	14:57:41	+0000
2338	2015-11-16	04:02:55	+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
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  
 2351 2015-11-16 00:24:50 +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  
 2355 2015-11-15 22:32:08 +0000

```

                                source \
0    <a href="http://twitter.com/download/iphone" r...
1    <a href="http://twitter.com/download/iphone" r...
2    <a href="http://twitter.com/download/iphone" r...
3    <a href="http://twitter.com/download/iphone" r...
4    <a href="http://twitter.com/download/iphone" r...
5    <a href="http://twitter.com/download/iphone" r...
6    <a href="http://twitter.com/download/iphone" r...
7    <a href="http://twitter.com/download/iphone" r...
8    <a href="http://twitter.com/download/iphone" r...
9    <a href="http://twitter.com/download/iphone" r...
10   <a href="http://twitter.com/download/iphone" r...
11   <a href="http://twitter.com/download/iphone" r...
12   <a href="http://twitter.com/download/iphone" r...
13   <a href="http://twitter.com/download/iphone" r...
14   <a href="http://twitter.com/download/iphone" r...
15   <a href="http://twitter.com/download/iphone" r...
16   <a href="http://twitter.com/download/iphone" r...
17   <a href="http://twitter.com/download/iphone" r...
18   <a href="http://twitter.com/download/iphone" r...
19   <a href="http://twitter.com/download/iphone" r...
20   <a href="http://twitter.com/download/iphone" r...
21   <a href="http://twitter.com/download/iphone" r...
22   <a href="http://twitter.com/download/iphone" r...
23   <a href="http://twitter.com/download/iphone" r...
24   <a href="http://twitter.com/download/iphone" r...
25   <a href="http://twitter.com/download/iphone" r...
26   <a href="http://twitter.com/download/iphone" r...
27   <a href="http://twitter.com/download/iphone" r...
28   <a href="http://twitter.com/download/iphone" r...
29   <a href="http://twitter.com/download/iphone" r...
...
2326 <a href="http://twitter.com/download/iphone" r...
2327 <a href="http://twitter.com/download/iphone" r...
2328 <a href="http://twitter.com/download/iphone" r...
2329 <a href="http://twitter.com/download/iphone" r...
2330 <a href="http://twitter.com/download/iphone" r...
2331 <a href="http://twitter.com/download/iphone" r...
  
```

2332 <a href="http://twitter.com/download/iphone" r...  
 2333 <a href="http://twitter.com/download/iphone" r...  
 2334 <a href="http://twitter.com/download/iphone" r...  
 2335 <a href="http://twitter.com/download/iphone" r...  
 2336 <a href="http://twitter.com/download/iphone" r...  
 2337 <a href="http://twitter.com/download/iphone" r...  
 2338 <a href="http://twitter.com/download/iphone" r...  
 2339 <a href="http://twitter.com/download/iphone" r...  
 2340 <a href="http://twitter.com/download/iphone" r...  
 2341 <a href="http://twitter.com/download/iphone" r...  
 2342 <a href="http://twitter.com/download/iphone" r...  
 2343 <a href="http://twitter.com/download/iphone" r...  
 2344 <a href="http://twitter.com/download/iphone" r...  
 2345 <a href="http://twitter.com/download/iphone" r...  
 2346 <a href="http://twitter.com/download/iphone" r...  
 2347 <a href="http://twitter.com/download/iphone" r...  
 2348 <a href="http://twitter.com/download/iphone" r...  
 2349 <a href="http://twitter.com/download/iphone" r...  
 2350 <a href="http://twitter.com/download/iphone" r...  
 2351 <a href="http://twitter.com/download/iphone" r...  
 2352 <a href="http://twitter.com/download/iphone" r...  
 2353 <a href="http://twitter.com/download/iphone" r...  
 2354 <a href="http://twitter.com/download/iphone" r...  
 2355 <a href="http://twitter.com/download/iphone" r...

	text	retweeted_status_id \
0	This is Phineas. He's a mystical boy. Only eve...	NaN
1	This is Tilly. She's just checking pup on you...	NaN
2	This is Archie. He is a rare Norwegian Pouncin...	NaN
3	This is Darla. She commenced a snooze mid meal...	NaN
4	This is Franklin. He would like you to stop ca...	NaN
5	Here we have a majestic great white breaching ...	NaN
6	Meet Jax. He enjoys ice cream so much he gets ...	NaN
7	When you watch your owner call another dog a g...	NaN
8	This is Zoey. She doesn't want to be one of th...	NaN
9	This is Cassie. She is a college pup. Studying...	NaN
10	This is Koda. He is a South Australian decksha...	NaN
11	This is Bruno. He is a service shark. Only get...	NaN
12	Here's a puppo that seems to be on the fence a...	NaN
13	This is Ted. He does his best. Sometimes that'...	NaN
14	This is Stuart. He's sporting his favorite fan...	NaN
15	This is Oliver. You're witnessing one of his m...	NaN
16	This is Jim. He found a fren. Taught him how t...	NaN
17	This is Zeke. He has a new stick. Very proud o...	NaN
18	This is Ralphus. He's powering up. Attempting ...	NaN
19	RT @dog_rates: This is Canela. She attempted s...	8.874740e+17
20	This is Gerald. He was just told he didn't get...	NaN
21	This is Jeffrey. He has a monopoly on the pool...	NaN

22	I've yet to rate a Venezuelan Hover Wiener. Th...	NaN
23	This is Canela. She attempted some fancy porch...	NaN
24	You may not have known you needed to see this ...	NaN
25	This... is a Jubilant Antarctic House Bear. We...	NaN
26	This is Maya. She's very shy. Rarely leaves he...	NaN
27	This is Mingus. He's a wonderful father to his...	NaN
28	This is Derek. He's late for a dog meeting. 13...	NaN
29	This is Roscoe. Another pupper fallen victim t...	NaN
...	...	...
2326	This is quite the dog. Gets really excited whe...	NaN
2327	This is a southern Vesuvius bumblegruff. Can d...	NaN
2328	Oh goodness. A super rare northeast Qdoba kang...	NaN
2329	Those are sunglasses and a jean jacket. 11/10 ...	NaN
2330	Unique dog here. Very small. Lives in containe...	NaN
2331	Here we have a mixed Asiago from the Galápagos...	NaN
2332	Look at this jokester thinking seat belt laws ...	NaN
2333	This is an extremely rare horned Parthenon. No...	NaN
2334	This is a funny dog. Weird toes. Won't come do...	NaN
2335	This is an Albanian 3 1/2 legged Episcopalian...	NaN
2336	Can take selfies 11/10 <a href="https://t.co/ws2AMaWpPW">https://t.co/ws2AMaWpPW</a>	NaN
2337	Very concerned about fellow dog trapped in com...	NaN
2338	Not familiar with this breed. No tail (weird)...	NaN
2339	Oh my. Here you are seeing an Adobe Setter giv...	NaN
2340	Can stand on stump for what seems like a while...	NaN
2341	This appears to be a Mongolian Presbyterian mi...	NaN
2342	Here we have a well-established sunblockerspan...	NaN
2343	Let's hope this flight isn't Malaysian (lol). ...	NaN
2344	Here we have a northern speckled Rhododendron...	NaN
2345	This is the happiest dog you will ever see. Ve...	NaN
2346	Here is the Rand Paul of retrievers folks! He'...	NaN
2347	My oh my. This is a rare blond Canadian terrie...	NaN
2348	Here is a Siberian heavily armored polar bear ...	NaN
2349	This is an odd dog. Hard on the outside but lo...	NaN
2350	This is a truly beautiful English Wilson Staff...	NaN
2351	Here we have a 1949 1st generation vulpix. Enj...	NaN
2352	This is a purebred Piers Morgan. Loves to Netf...	NaN
2353	Here is a very happy pup. Big fan of well-main...	NaN
2354	This is a western brown Mitsubishi terrier. Up...	NaN
2355	Here we have a Japanese Irish Setter. Lost eye...	NaN

	retweeted_status_user_id	retweeted_status_timestamp \
0	NaN	NaN
1	NaN	NaN
2	NaN	NaN
3	NaN	NaN
4	NaN	NaN
5	NaN	NaN
6	NaN	NaN



7	NaN	NaN
8	NaN	NaN
9	NaN	NaN
10	NaN	NaN
11	NaN	NaN
12	NaN	NaN
13	NaN	NaN
14	NaN	NaN
15	NaN	NaN
16	NaN	NaN
17	NaN	NaN
18	NaN	NaN
19	4.196984e+09	2017-07-19 00:47:34 +0000
20	NaN	NaN
21	NaN	NaN
22	NaN	NaN
23	NaN	NaN
24	NaN	NaN
25	NaN	NaN
26	NaN	NaN
27	NaN	NaN
28	NaN	NaN
29	NaN	NaN
...	...	...
2326	NaN	NaN
2327	NaN	NaN
2328	NaN	NaN
2329	NaN	NaN
2330	NaN	NaN
2331	NaN	NaN
2332	NaN	NaN
2333	NaN	NaN
2334	NaN	NaN
2335	NaN	NaN
2336	NaN	NaN
2337	NaN	NaN
2338	NaN	NaN
2339	NaN	NaN
2340	NaN	NaN
2341	NaN	NaN
2342	NaN	NaN
2343	NaN	NaN
2344	NaN	NaN
2345	NaN	NaN
2346	NaN	NaN
2347	NaN	NaN
2348	NaN	NaN
2349	NaN	NaN

2350	NaN	NaN
2351	NaN	NaN
2352	NaN	NaN
2353	NaN	NaN
2354	NaN	NaN
2355	NaN	NaN

	expanded_urls	...	\
0	https://twitter.com/dog_rates/status/892420643...	...	
1	https://twitter.com/dog_rates/status/892177421...	...	
2	https://twitter.com/dog_rates/status/891815181...	...	
3	https://twitter.com/dog_rates/status/891689557...	...	
4	https://twitter.com/dog_rates/status/891327558...	...	
5	https://twitter.com/dog_rates/status/891087950...	...	
6	https://gofundme.com/ydvmve-surgery-for-jax,ht...	...	
7	https://twitter.com/dog_rates/status/890729181...	...	
8	https://twitter.com/dog_rates/status/890609185...	...	
9	https://twitter.com/dog_rates/status/890240255...	...	
10	https://twitter.com/dog_rates/status/890006608...	...	
11	https://twitter.com/dog_rates/status/889880896...	...	
12	https://twitter.com/dog_rates/status/889665388...	...	
13	https://twitter.com/dog_rates/status/889638837...	...	
14	https://twitter.com/dog_rates/status/889531135...	...	
15	https://twitter.com/dog_rates/status/889278841...	...	
16	https://twitter.com/dog_rates/status/888917238...	...	
17	https://twitter.com/dog_rates/status/888804989...	...	
18	https://twitter.com/dog_rates/status/888554962...	...	
19	https://twitter.com/dog_rates/status/887473957...	...	
20	https://twitter.com/dog_rates/status/888078434...	...	
21	https://twitter.com/dog_rates/status/887705289...	...	
22	https://twitter.com/dog_rates/status/887517139...	...	
23	https://twitter.com/dog_rates/status/887473957...	...	
24	https://twitter.com/dog_rates/status/887343217...	...	
25	https://twitter.com/dog_rates/status/887101392...	...	
26	https://twitter.com/dog_rates/status/886983233...	...	
27	https://www.gofundme.com/mingusneedsus,https:/...	...	
28	https://twitter.com/dog_rates/status/886680336...	...	
29	https://twitter.com/dog_rates/status/886366144...	...	
...	...	...	
2326	https://twitter.com/dog_rates/status/666411507...	...	
2327	https://twitter.com/dog_rates/status/666407126...	...	
2328	https://twitter.com/dog_rates/status/666396247...	...	
2329	https://twitter.com/dog_rates/status/666373753...	...	
2330	https://twitter.com/dog_rates/status/666362758...	...	
2331	https://twitter.com/dog_rates/status/666353288...	...	
2332	https://twitter.com/dog_rates/status/666345417...	...	
2333	https://twitter.com/dog_rates/status/666337882...	...	
2334	https://twitter.com/dog_rates/status/666293911...	...	

2335 https://twitter.com/dog\_rates/status/666287406... ...  
 2336 https://twitter.com/dog\_rates/status/666273097... ...  
 2337 https://twitter.com/dog\_rates/status/666268910... ...  
 2338 https://twitter.com/dog\_rates/status/666104133... ...  
 2339 https://twitter.com/dog\_rates/status/666102155... ...  
 2340 https://twitter.com/dog\_rates/status/666099513... ...  
 2341 https://twitter.com/dog\_rates/status/666094000... ...  
 2342 https://twitter.com/dog\_rates/status/666082916... ...  
 2343 https://twitter.com/dog\_rates/status/666073100... ...  
 2344 https://twitter.com/dog\_rates/status/666071193... ...  
 2345 https://twitter.com/dog\_rates/status/666063827... ...  
 2346 https://twitter.com/dog\_rates/status/666058600... ...  
 2347 https://twitter.com/dog\_rates/status/666057090... ...  
 2348 https://twitter.com/dog\_rates/status/666055525... ...  
 2349 https://twitter.com/dog\_rates/status/666051853... ...  
 2350 https://twitter.com/dog\_rates/status/666050758... ...  
 2351 https://twitter.com/dog\_rates/status/666049248... ...  
 2352 https://twitter.com/dog\_rates/status/666044226... ...  
 2353 https://twitter.com/dog\_rates/status/666033412... ...  
 2354 https://twitter.com/dog\_rates/status/666029285... ...  
 2355 https://twitter.com/dog\_rates/status/666020888... ...

	p2	p2_conf	p2_dog	p3 \
0	bagel	0.085851	False	banana
1	Pekinese	0.090647	True	papillon
2	malamute	0.078253	True	kelpie
3	Labrador_retriever	0.168086	True	spatula
4	English_springer	0.225770	True	German_short-haired_pointer
5	Irish_terrier	0.116317	True	Indian_elephant
6	Border_collie	0.199287	True	ice_lolly
7	Eskimo_dog	0.178406	True	Pembroke
8	Irish_setter	0.193054	True	Chesapeake_Bay_retriever
9	Cardigan	0.451038	True	Chihuahua
10	Pomeranian	0.013884	True	chow
11	Labrador_retriever	0.151317	True	muzzle
12	Cardigan	0.027356	True	basenji
13	boxer	0.002129	True	Staffordshire_bullterrier
14	Labrador_retriever	0.013834	True	redbone
15	borzoi	0.194742	True	Saluki
16	Tibetan_mastiff	0.120184	True	Labrador_retriever
17	Labrador_retriever	0.184172	True	English_setter
18	Eskimo_dog	0.166511	True	malamute
19	Rhodesian_ridgeback	0.054950	True	beagle
20	pug	0.000932	True	bull_mastiff
21	redbone	0.087582	True	Weimaraner
22	tow_truck	0.029175	False	shopping_cart
23	Rhodesian_ridgeback	0.054950	True	beagle
24	sea_lion	0.275645	False	Weimaraner

25	Eskimo_dog	0.035029	True	Staffordshire_bullterrier
26	toy_terrier	0.143528	True	can_opener
27	Great_Pyrenees	0.186136	True	Dandie_Dinmont
28	sports_car	0.139952	False	car_wheel
29	Chihuahua	0.000361	True	Boston_bull
...	...	...	...	...
2326	barracouta	0.271485	False	gar
2327	bloodhound	0.244220	True	flat-coated_retriever
2328	toy_terrier	0.009397	True	papillon
2329	Afghan_hound	0.259551	True	briard
2330	skunk	0.002402	False	hamster
2331	Siberian_husky	0.147655	True	Eskimo_dog
2332	Chesapeake_Bay_retriever	0.054787	True	Labrador_retriever
2333	Newfoundland	0.278407	True	groenendael
2334	otter	0.015250	False	great_grey_owl
2335	toy_poodle	0.063064	True	miniature_poodle
2336	toy_terrier	0.111884	True	basenji
2337	desk	0.085547	False	bookcase
2338	cock	0.033919	False	partridge
2339	Newfoundland	0.149842	True	borzoi
2340	Shih-Tzu	0.166192	True	Dandie_Dinmont
2341	German_shepherd	0.078260	True	malinois
2342	bull_mastiff	0.404722	True	French_bulldog
2343	English_foxhound	0.175382	True	Ibizan_hound
2344	Yorkshire_terrier	0.174201	True	Pekinese
2345	Tibetan_mastiff	0.093718	True	Labrador_retriever
2346	komondor	0.192305	True	soft-coated_wheaten_terrier
2347	shopping_basket	0.014594	False	golden_retriever
2348	Tibetan_mastiff	0.058279	True	fur_coat
2349	mud_turtle	0.045885	False	terrapin
2350	English_springer	0.263788	True	Greater_Swiss_Mountain_dog
2351	Rottweiler	0.243682	True	Doberman
2352	redbone	0.360687	True	miniature_pinscher
2353	malinois	0.138584	True	bloodhound
2354	miniature_pinscher	0.074192	True	Rhodesian_ridgeback
2355	collie	0.156665	True	Shetland_sheepdog

	p3_conf	p3_dog	Unnamed: 0	favorites	retweets	dogs_kind
0	0.076110	False	2061.0	37386.0	8074.0	None
1	0.068957	True	2060.0	32141.0	5993.0	None
2	0.031379	True	2059.0	24225.0	3967.0	None
3	0.040836	False	2058.0	40697.0	8246.0	None
4	0.175219	True	2057.0	38915.0	8923.0	None
5	0.076902	False	2056.0	19559.0	2971.0	None
6	0.193548	False	2055.0	11429.0	1960.0	None
7	0.076507	True	2054.0	63033.0	17993.0	None
8	0.118184	True	2053.0	26905.0	4067.0	None
9	0.029248	True	2052.0	30842.0	7023.0	doggo

10	0.008167	True	2051.0	29665.0	6980.0	None
11	0.082981	False	2050.0	26906.0	4752.0	None
12	0.004633	True	2049.0	46471.0	9560.0	puppo
13	0.001498	True	2048.0	26182.0	4302.0	None
14	0.007958	True	2047.0	14618.0	2144.0	puppo
15	0.027351	True	2046.0	24396.0	5121.0	None
16	0.105506	True	2045.0	28146.0	4298.0	None
17	0.073482	True	2044.0	24716.0	4069.0	None
18	0.111411	True	2043.0	19151.0	3357.0	None
19	0.038915	True	NaN	NaN	NaN	None
20	0.000903	True	2042.0	21031.0	3313.0	None
21	0.026236	True	2041.0	29179.0	5133.0	None
22	0.026321	False	2040.0	44755.0	11176.0	None
23	0.038915	True	2039.0	66567.0	17266.0	None
24	0.134203	True	2038.0	32534.0	9956.0	None
25	0.029705	True	2037.0	29553.0	5690.0	floof
26	0.032253	False	2036.0	33913.0	7368.0	None
27	0.086346	True	2035.0	11614.0	3096.0	None
28	0.044173	False	2034.0	21683.0	4255.0	None
29	0.000076	True	2033.0	20451.0	3041.0	pupper
...	...	...	...	...	...	...
2326	0.189945	False	29.0	426.0	318.0	None
2327	0.173810	True	28.0	103.0	37.0	None
2328	0.004577	True	27.0	161.0	81.0	None
2329	0.206803	True	26.0	179.0	87.0	None
2330	0.000461	False	25.0	752.0	546.0	None
2331	0.093412	True	24.0	211.0	71.0	None
2332	0.014241	True	23.0	282.0	130.0	None
2333	0.102643	True	22.0	189.0	88.0	None
2334	0.013207	False	21.0	483.0	339.0	None
2335	0.025581	True	20.0	141.0	63.0	None
2336	0.111152	True	19.0	166.0	75.0	None
2337	0.079480	False	18.0	99.0	34.0	None
2338	0.000052	False	17.0	13871.0	6253.0	None
2339	0.133649	True	16.0	75.0	11.0	None
2340	0.089688	True	15.0	147.0	64.0	None
2341	0.075628	True	14.0	158.0	69.0	None
2342	0.048960	True	13.0	109.0	43.0	None
2343	0.097471	True	12.0	311.0	154.0	None
2344	0.109454	True	11.0	140.0	55.0	None
2345	0.072427	True	10.0	457.0	206.0	None
2346	0.082086	True	9.0	108.0	56.0	None
2347	0.007959	True	8.0	282.0	134.0	None
2348	0.054449	False	7.0	421.0	229.0	None
2349	0.017885	False	6.0	1180.0	817.0	None
2350	0.016199	True	5.0	129.0	56.0	None
2351	0.154629	True	4.0	103.0	41.0	None
2352	0.222752	True	3.0	286.0	135.0	None

2353	0.116197	True	2.0	121.0	43.0	None
2354	0.072010	True	1.0	125.0	46.0	None
2355	0.061428	True	0.0	2494.0	488.0	None

[2356 rows x 32 columns]

In [78]: df3.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2356 entries, 0 to 2355
Data columns (total 32 columns):
tweet_id                2356 non-null int64
in_reply_to_status_id   78 non-null float64
in_reply_to_user_id     78 non-null float64
timestamp               2356 non-null object
source                  2356 non-null object
text                    2356 non-null object
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
rating_numerator        2356 non-null int64
rating_denominator      2356 non-null int64
name                    2356 non-null object
doggo                   2356 non-null object
floofer                 2356 non-null object
pupper                 2356 non-null object
puppo                   2356 non-null object
jpg_url                 2075 non-null object
img_num                 2075 non-null float64
p1                      2075 non-null object
p1_conf                 2075 non-null float64
p1_dog                  2075 non-null object
p2                      2075 non-null object
p2_conf                 2075 non-null float64
p2_dog                  2075 non-null object
p3                      2075 non-null object
p3_conf                 2075 non-null float64
p3_dog                  2075 non-null object
Unnamed: 0              2062 non-null float64
favorites               2062 non-null float64
retweets                2062 non-null float64
dogs_kind               2356 non-null object
dtypes: float64(11), int64(3), object(18)
memory usage: 589.1+ KB
```

In [79]: df3

```

Out[79]:
      tweet_id  in_reply_to_status_id  in_reply_to_user_id  \
0      892420643555336193           NaN                NaN
1      892177421306343426           NaN                NaN
2      891815181378084864           NaN                NaN
3      891689557279858688           NaN                NaN
4      891327558926688256           NaN                NaN
5      891087950875897856           NaN                NaN
6      890971913173991426           NaN                NaN
7      890729181411237888           NaN                NaN
8      890609185150312448           NaN                NaN
9      890240255349198849           NaN                NaN
10     890006608113172480           NaN                NaN
11     889880896479866881           NaN                NaN
12     889665388333682689           NaN                NaN
13     889638837579907072           NaN                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
23     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
...
2326   666411507551481857           NaN                NaN
2327   666407126856765440           NaN                NaN
2328   666396247373291520           NaN                NaN
2329   666373753744588802           NaN                NaN
2330   666362758909284353           NaN                NaN
2331   666353288456101888           NaN                NaN
2332   666345417576210432           NaN                NaN
2333   666337882303524864           NaN                NaN
2334   666293911632134144           NaN                NaN
2335   666287406224695296           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
2345	666063827256086533	NaN	NaN
2346	666058600524156928	NaN	NaN
2347	666057090499244032	NaN	NaN
2348	666055525042405380	NaN	NaN
2349	666051853826850816	NaN	NaN
2350	666050758794694657	NaN	NaN
2351	666049248165822465	NaN	NaN
2352	666044226329800704	NaN	NaN
2353	666033412701032449	NaN	NaN
2354	666029285002620928	NaN	NaN
2355	666020888022790149	NaN	NaN

	timestamp \
0	2017-08-01 16:23:56 +0000
1	2017-08-01 00:17:27 +0000
2	2017-07-31 00:18:03 +0000
3	2017-07-30 15:58:51 +0000
4	2017-07-29 16:00:24 +0000
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
12	2017-07-25 01:55:32 +0000
13	2017-07-25 00:10:02 +0000
14	2017-07-24 17:02:04 +0000
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
19	2017-07-21 01:02:36 +0000
20	2017-07-20 16:49:33 +0000
21	2017-07-19 16:06:48 +0000
22	2017-07-19 03:39:09 +0000
23	2017-07-19 00:47:34 +0000
24	2017-07-18 16:08:03 +0000
25	2017-07-18 00:07:08 +0000
26	2017-07-17 16:17:36 +0000
27	2017-07-16 23:58:41 +0000
28	2017-07-16 20:14:00 +0000
29	2017-07-15 23:25:31 +0000
...	...
2326	2015-11-17 00:24:19 +0000



2327 2015-11-17 00:06:54 +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  
 2333 2015-11-16 19:31:45 +0000  
 2334 2015-11-16 16:37:02 +0000  
 2335 2015-11-16 16:11:11 +0000  
 2336 2015-11-16 15:14:19 +0000  
 2337 2015-11-16 14:57:41 +0000  
 2338 2015-11-16 04:02:55 +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  
 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  
 2351 2015-11-16 00:24:50 +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  
 2355 2015-11-15 22:32:08 +0000

source \
 0 <a href="http://twitter.com/download/iphone" r...
 1 <a href="http://twitter.com/download/iphone" r...
 2 <a href="http://twitter.com/download/iphone" r...
 3 <a href="http://twitter.com/download/iphone" r...
 4 <a href="http://twitter.com/download/iphone" r...
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 14 <a href="http://twitter.com/download/iphone" r...
 15 <a href="http://twitter.com/download/iphone" r...
 16 <a href="http://twitter.com/download/iphone" r...

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17 <a href="http://twitter.com/download/iphone" r...
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2353 <a href="http://twitter.com/download/iphone" r...
2354 <a href="http://twitter.com/download/iphone" r...
2355 <a href="http://twitter.com/download/iphone" r...

```

	text	retweeted_status_id \
0	This is Phineas. He's a mystical boy. Only eve...	NaN
1	This is Tilly. She's just checking pup on you...	NaN

2	This is Archie. He is a rare Norwegian Pouncin...	NaN
3	This is Darla. She commenced a snooze mid meal...	NaN
4	This is Franklin. He would like you to stop ca...	NaN
5	Here we have a majestic great white breaching ...	NaN
6	Meet Jax. He enjoys ice cream so much he gets ...	NaN
7	When you watch your owner call another dog a g...	NaN
8	This is Zoey. She doesn't want to be one of th...	NaN
9	This is Cassie. She is a college pup. Studying...	NaN
10	This is Koda. He is a South Australian decksha...	NaN
11	This is Bruno. He is a service shark. Only get...	NaN
12	Here's a puppo that seems to be on the fence a...	NaN
13	This is Ted. He does his best. Sometimes that'...	NaN
14	This is Stuart. He's sporting his favorite fan...	NaN
15	This is Oliver. You're witnessing one of his m...	NaN
16	This is Jim. He found a fren. Taught him how t...	NaN
17	This is Zeke. He has a new stick. Very proud o...	NaN
18	This is Ralphus. He's powering up. Attempting ...	NaN
19	RT @dog_rates: This is Canela. She attempted s...	8.874740e+17
20	This is Gerald. He was just told he didn't get...	NaN
21	This is Jeffrey. He has a monopoly on the pool...	NaN
22	I've yet to rate a Venezuelan Hover Wiener. Th...	NaN
23	This is Canela. She attempted some fancy porch...	NaN
24	You may not have known you needed to see this ...	NaN
25	This... is a Jubilant Antarctic House Bear. We...	NaN
26	This is Maya. She's very shy. Rarely leaves he...	NaN
27	This is Mingus. He's a wonderful father to his...	NaN
28	This is Derek. He's late for a dog meeting. 13...	NaN
29	This is Roscoe. Another pupper fallen victim t...	NaN
...	...	...
2326	This is quite the dog. Gets really excited whe...	NaN
2327	This is a southern Vesuvius bumblegruff. Can d...	NaN
2328	Oh goodness. A super rare northeast Qdoba kang...	NaN
2329	Those are sunglasses and a jean jacket. 11/10 ...	NaN
2330	Unique dog here. Very small. Lives in containe...	NaN
2331	Here we have a mixed Asiago from the Galápagos...	NaN
2332	Look at this jokester thinking seat belt laws ...	NaN
2333	This is an extremely rare horned Parthenon. No...	NaN
2334	This is a funny dog. Weird toes. Won't come do...	NaN
2335	This is an Albanian 3 1/2 legged Episcopalian...	NaN
2336	Can take selfies 11/10 <a href="https://t.co/ws2AMaWpPW">https://t.co/ws2AMaWpPW</a>	NaN
2337	Very concerned about fellow dog trapped in com...	NaN
2338	Not familiar with this breed. No tail (weird)...	NaN
2339	Oh my. Here you are seeing an Adobe Setter giv...	NaN
2340	Can stand on stump for what seems like a while...	NaN
2341	This appears to be a Mongolian Presbyterian mi...	NaN
2342	Here we have a well-established sunblockerspan...	NaN
2343	Let's hope this flight isn't Malaysian (lol). ...	NaN
2344	Here we have a northern speckled Rhododendron...	NaN

2345	This is the happiest dog you will ever see. Ve...	NaN
2346	Here is the Rand Paul of retrievers folks! He'...	NaN
2347	My oh my. This is a rare blond Canadian terrie...	NaN
2348	Here is a Siberian heavily armored polar bear ...	NaN
2349	This is an odd dog. Hard on the outside but lo...	NaN
2350	This is a truly beautiful English Wilson Staff...	NaN
2351	Here we have a 1949 1st generation vulpix. Enj...	NaN
2352	This is a purebred Piers Morgan. Loves to Netf...	NaN
2353	Here is a very happy pup. Big fan of well-main...	NaN
2354	This is a western brown Mitsubishi terrier. Up...	NaN
2355	Here we have a Japanese Irish Setter. Lost eye...	NaN

	retweeted_status_user_id	retweeted_status_timestamp	\
0	NaN	NaN	
1	NaN	NaN	
2	NaN	NaN	
3	NaN	NaN	
4	NaN	NaN	
5	NaN	NaN	
6	NaN	NaN	
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8	NaN	NaN	
9	NaN	NaN	
10	NaN	NaN	
11	NaN	NaN	
12	NaN	NaN	
13	NaN	NaN	
14	NaN	NaN	
15	NaN	NaN	
16	NaN	NaN	
17	NaN	NaN	
18	NaN	NaN	
19	4.196984e+09	2017-07-19 00:47:34	+0000
20	NaN	NaN	
21	NaN	NaN	
22	NaN	NaN	
23	NaN	NaN	
24	NaN	NaN	
25	NaN	NaN	
26	NaN	NaN	
27	NaN	NaN	
28	NaN	NaN	
29	NaN	NaN	
...	...	...	
2326	NaN	NaN	
2327	NaN	NaN	
2328	NaN	NaN	
2329	NaN	NaN	

2330	NaN	NaN
2331	NaN	NaN
2332	NaN	NaN
2333	NaN	NaN
2334	NaN	NaN
2335	NaN	NaN
2336	NaN	NaN
2337	NaN	NaN
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2344	NaN	NaN
2345	NaN	NaN
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2347	NaN	NaN
2348	NaN	NaN
2349	NaN	NaN
2350	NaN	NaN
2351	NaN	NaN
2352	NaN	NaN
2353	NaN	NaN
2354	NaN	NaN
2355	NaN	NaN

	expanded_urls	...	\
0	https://twitter.com/dog_rates/status/892420643...	...	
1	https://twitter.com/dog_rates/status/892177421...	...	
2	https://twitter.com/dog_rates/status/891815181...	...	
3	https://twitter.com/dog_rates/status/891689557...	...	
4	https://twitter.com/dog_rates/status/891327558...	...	
5	https://twitter.com/dog_rates/status/891087950...	...	
6	https://gofundme.com/ydvmve-surgery-for-jax,ht...	...	
7	https://twitter.com/dog_rates/status/890729181...	...	
8	https://twitter.com/dog_rates/status/890609185...	...	
9	https://twitter.com/dog_rates/status/890240255...	...	
10	https://twitter.com/dog_rates/status/890006608...	...	
11	https://twitter.com/dog_rates/status/889880896...	...	
12	https://twitter.com/dog_rates/status/889665388...	...	
13	https://twitter.com/dog_rates/status/889638837...	...	
14	https://twitter.com/dog_rates/status/889531135...	...	
15	https://twitter.com/dog_rates/status/889278841...	...	
16	https://twitter.com/dog_rates/status/888917238...	...	
17	https://twitter.com/dog_rates/status/888804989...	...	
18	https://twitter.com/dog_rates/status/888554962...	...	
19	https://twitter.com/dog_rates/status/887473957...	...	

20 https://twitter.com/dog\_rates/status/888078434...  
 21 https://twitter.com/dog\_rates/status/887705289...  
 22 https://twitter.com/dog\_rates/status/887517139...  
 23 https://twitter.com/dog\_rates/status/887473957...  
 24 https://twitter.com/dog\_rates/status/887343217...  
 25 https://twitter.com/dog\_rates/status/887101392...  
 26 https://twitter.com/dog\_rates/status/886983233...  
 27 https://www.gofundme.com/mingusneedsus,https://...  
 28 https://twitter.com/dog\_rates/status/886680336...  
 29 https://twitter.com/dog\_rates/status/886366144...  
 ...  
 2326 https://twitter.com/dog\_rates/status/666411507...  
 2327 https://twitter.com/dog\_rates/status/666407126...  
 2328 https://twitter.com/dog\_rates/status/666396247...  
 2329 https://twitter.com/dog\_rates/status/666373753...  
 2330 https://twitter.com/dog\_rates/status/666362758...  
 2331 https://twitter.com/dog\_rates/status/666353288...  
 2332 https://twitter.com/dog\_rates/status/666345417...  
 2333 https://twitter.com/dog\_rates/status/666337882...  
 2334 https://twitter.com/dog\_rates/status/666293911...  
 2335 https://twitter.com/dog\_rates/status/666287406...  
 2336 https://twitter.com/dog\_rates/status/666273097...  
 2337 https://twitter.com/dog\_rates/status/666268910...  
 2338 https://twitter.com/dog\_rates/status/666104133...  
 2339 https://twitter.com/dog\_rates/status/666102155...  
 2340 https://twitter.com/dog\_rates/status/666099513...  
 2341 https://twitter.com/dog\_rates/status/666094000...  
 2342 https://twitter.com/dog\_rates/status/666082916...  
 2343 https://twitter.com/dog\_rates/status/666073100...  
 2344 https://twitter.com/dog\_rates/status/666071193...  
 2345 https://twitter.com/dog\_rates/status/666063827...  
 2346 https://twitter.com/dog\_rates/status/666058600...  
 2347 https://twitter.com/dog\_rates/status/666057090...  
 2348 https://twitter.com/dog\_rates/status/666055525...  
 2349 https://twitter.com/dog\_rates/status/666051853...  
 2350 https://twitter.com/dog\_rates/status/666050758...  
 2351 https://twitter.com/dog\_rates/status/666049248...  
 2352 https://twitter.com/dog\_rates/status/666044226...  
 2353 https://twitter.com/dog\_rates/status/666033412...  
 2354 https://twitter.com/dog\_rates/status/666029285...  
 2355 https://twitter.com/dog\_rates/status/666020888...

	p2	p2_conf	p2_dog	p3 \
0	bagel	0.085851	False	banana
1	Pekinese	0.090647	True	papillon
2	malamute	0.078253	True	kelpie
3	Labrador_retriever	0.168086	True	spatula
4	English_springer	0.225770	True	German_short-haired_pointer

5	Irish_terrier	0.116317	True	Indian_elephant
6	Border_collie	0.199287	True	ice_lolly
7	Eskimo_dog	0.178406	True	Pembroke
8	Irish_setter	0.193054	True	Chesapeake_Bay_retriever
9	Cardigan	0.451038	True	Chihuahua
10	Pomeranian	0.013884	True	chow
11	Labrador_retriever	0.151317	True	muzzle
12	Cardigan	0.027356	True	basenji
13	boxer	0.002129	True	Staffordshire_bullterrier
14	Labrador_retriever	0.013834	True	redbone
15	borzoi	0.194742	True	Saluki
16	Tibetan_mastiff	0.120184	True	Labrador_retriever
17	Labrador_retriever	0.184172	True	English_setter
18	Eskimo_dog	0.166511	True	malamute
19	Rhodesian_ridgeback	0.054950	True	beagle
20	pug	0.000932	True	bull_mastiff
21	redbone	0.087582	True	Weimaraner
22	tow_truck	0.029175	False	shopping_cart
23	Rhodesian_ridgeback	0.054950	True	beagle
24	sea_lion	0.275645	False	Weimaraner
25	Eskimo_dog	0.035029	True	Staffordshire_bullterrier
26	toy_terrier	0.143528	True	can_opener
27	Great_Pyrenees	0.186136	True	Dandie_Dinmont
28	sports_car	0.139952	False	car_wheel
29	Chihuahua	0.000361	True	Boston_bull
...	...	...	...	...
2326	barracouta	0.271485	False	gar
2327	bloodhound	0.244220	True	flat-coated_retriever
2328	toy_terrier	0.009397	True	papillon
2329	Afghan_hound	0.259551	True	briard
2330	skunk	0.002402	False	hamster
2331	Siberian_husky	0.147655	True	Eskimo_dog
2332	Chesapeake_Bay_retriever	0.054787	True	Labrador_retriever
2333	Newfoundland	0.278407	True	groenendael
2334	otter	0.015250	False	great_grey_owl
2335	toy_poodle	0.063064	True	miniature_poodle
2336	toy_terrier	0.111884	True	basenji
2337	desk	0.085547	False	bookcase
2338	cock	0.033919	False	partridge
2339	Newfoundland	0.149842	True	borzoi
2340	Shih-Tzu	0.166192	True	Dandie_Dinmont
2341	German_shepherd	0.078260	True	malinois
2342	bull_mastiff	0.404722	True	French_bulldog
2343	English_foxhound	0.175382	True	Ibizan_hound
2344	Yorkshire_terrier	0.174201	True	Pekinese
2345	Tibetan_mastiff	0.093718	True	Labrador_retriever
2346	komondor	0.192305	True	soft-coated_wheaten_terrier
2347	shopping_basket	0.014594	False	golden_retriever

2348	Tibetan_mastiff	0.058279	True	fur_coat
2349	mud_turtle	0.045885	False	terrapin
2350	English_springer	0.263788	True	Greater_Swiss_Mountain_dog
2351	Rottweiler	0.243682	True	Doberman
2352	redbone	0.360687	True	miniature_pinscher
2353	malinois	0.138584	True	bloodhound
2354	miniature_pinscher	0.074192	True	Rhodesian_ridgeback
2355	collie	0.156665	True	Shetland_sheepdog

	p3_conf	p3_dog	Unnamed: 0	favorites	retweets	dogs_kind
0	0.076110	False	2061.0	37386.0	8074.0	None
1	0.068957	True	2060.0	32141.0	5993.0	None
2	0.031379	True	2059.0	24225.0	3967.0	None
3	0.040836	False	2058.0	40697.0	8246.0	None
4	0.175219	True	2057.0	38915.0	8923.0	None
5	0.076902	False	2056.0	19559.0	2971.0	None
6	0.193548	False	2055.0	11429.0	1960.0	None
7	0.076507	True	2054.0	63033.0	17993.0	None
8	0.118184	True	2053.0	26905.0	4067.0	None
9	0.029248	True	2052.0	30842.0	7023.0	doggo
10	0.008167	True	2051.0	29665.0	6980.0	None
11	0.082981	False	2050.0	26906.0	4752.0	None
12	0.004633	True	2049.0	46471.0	9560.0	puppo
13	0.001498	True	2048.0	26182.0	4302.0	None
14	0.007958	True	2047.0	14618.0	2144.0	puppo
15	0.027351	True	2046.0	24396.0	5121.0	None
16	0.105506	True	2045.0	28146.0	4298.0	None
17	0.073482	True	2044.0	24716.0	4069.0	None
18	0.111411	True	2043.0	19151.0	3357.0	None
19	0.038915	True	NaN	NaN	NaN	None
20	0.000903	True	2042.0	21031.0	3313.0	None
21	0.026236	True	2041.0	29179.0	5133.0	None
22	0.026321	False	2040.0	44755.0	11176.0	None
23	0.038915	True	2039.0	66567.0	17266.0	None
24	0.134203	True	2038.0	32534.0	9956.0	None
25	0.029705	True	2037.0	29553.0	5690.0	floof
26	0.032253	False	2036.0	33913.0	7368.0	None
27	0.086346	True	2035.0	11614.0	3096.0	None
28	0.044173	False	2034.0	21683.0	4255.0	None
29	0.000076	True	2033.0	20451.0	3041.0	pupper
...	...	...	...	...	...	...
2326	0.189945	False	29.0	426.0	318.0	None
2327	0.173810	True	28.0	103.0	37.0	None
2328	0.004577	True	27.0	161.0	81.0	None
2329	0.206803	True	26.0	179.0	87.0	None
2330	0.000461	False	25.0	752.0	546.0	None
2331	0.093412	True	24.0	211.0	71.0	None
2332	0.014241	True	23.0	282.0	130.0	None



2333	0.102643	True	22.0	189.0	88.0	None
2334	0.013207	False	21.0	483.0	339.0	None
2335	0.025581	True	20.0	141.0	63.0	None
2336	0.111152	True	19.0	166.0	75.0	None
2337	0.079480	False	18.0	99.0	34.0	None
2338	0.000052	False	17.0	13871.0	6253.0	None
2339	0.133649	True	16.0	75.0	11.0	None
2340	0.089688	True	15.0	147.0	64.0	None
2341	0.075628	True	14.0	158.0	69.0	None
2342	0.048960	True	13.0	109.0	43.0	None
2343	0.097471	True	12.0	311.0	154.0	None
2344	0.109454	True	11.0	140.0	55.0	None
2345	0.072427	True	10.0	457.0	206.0	None
2346	0.082086	True	9.0	108.0	56.0	None
2347	0.007959	True	8.0	282.0	134.0	None
2348	0.054449	False	7.0	421.0	229.0	None
2349	0.017885	False	6.0	1180.0	817.0	None
2350	0.016199	True	5.0	129.0	56.0	None
2351	0.154629	True	4.0	103.0	41.0	None
2352	0.222752	True	3.0	286.0	135.0	None
2353	0.116197	True	2.0	121.0	43.0	None
2354	0.072010	True	1.0	125.0	46.0	None
2355	0.061428	True	0.0	2494.0	488.0	None

[2356 rows x 32 columns]

In [80]: df3.info() *#show info for df3*

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2356 entries, 0 to 2355
Data columns (total 32 columns):
tweet_id                2356 non-null int64
in_reply_to_status_id   78 non-null float64
in_reply_to_user_id     78 non-null float64
timestamp               2356 non-null object
source                  2356 non-null object
text                    2356 non-null object
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
rating_numerator        2356 non-null int64
rating_denominator      2356 non-null int64
name                    2356 non-null object
doggo                   2356 non-null object
floofer                 2356 non-null object
pupper                  2356 non-null object
puppo                   2356 non-null object
```

```

jpg_url          2075 non-null object
img_num          2075 non-null float64
p1               2075 non-null object
p1_conf          2075 non-null float64
p1_dog           2075 non-null object
p2               2075 non-null object
p2_conf          2075 non-null float64
p2_dog           2075 non-null object
p3               2075 non-null object
p3_conf          2075 non-null float64
p3_dog           2075 non-null object
Unnamed: 0       2062 non-null float64
favorites        2062 non-null float64
retweets         2062 non-null float64
dogs_kind        2356 non-null object
dtypes: float64(11), int64(3), object(18)
memory usage: 589.1+ KB

```

```
In [81]: df3.to_csv('twitter_archive_master.csv', encoding = 'utf-8')
```

```
In [82]: #import matplotlib
import matplotlib.pyplot as plt
```

```
In [83]: df3 = pd.read_csv('twitter_archive_master.csv') # read from csv using pandas
df3['timestamp'] = pd.to_datetime(df3['timestamp'])# cchange the format to date and time
df3.set_index('timestamp', inplace=True) # make the index data and time
df3
```

```
Out[83]:
```

	Unnamed: 0	tweet_id	in_reply_to_status_id	\
timestamp				
2017-08-01 16:23:56	0	892420643555336193		NaN
2017-08-01 00:17:27	1	892177421306343426		NaN
2017-07-31 00:18:03	2	891815181378084864		NaN
2017-07-30 15:58:51	3	891689557279858688		NaN
2017-07-29 16:00:24	4	891327558926688256		NaN
2017-07-29 00:08:17	5	891087950875897856		NaN
2017-07-28 16:27:12	6	890971913173991426		NaN
2017-07-28 00:22:40	7	890729181411237888		NaN
2017-07-27 16:25:51	8	890609185150312448		NaN
2017-07-26 15:59:51	9	890240255349198849		NaN
2017-07-26 00:31:25	10	890006608113172480		NaN
2017-07-25 16:11:53	11	889880896479866881		NaN
2017-07-25 01:55:32	12	889665388333682689		NaN
2017-07-25 00:10:02	13	889638837579907072		NaN
2017-07-24 17:02:04	14	889531135344209921		NaN
2017-07-24 00:19:32	15	889278841981685760		NaN
2017-07-23 00:22:39	16	888917238123831296		NaN
2017-07-22 16:56:37	17	888804989199671297		NaN

2017-07-22 00:23:06	18	888554962724278272	NaN
2017-07-21 01:02:36	19	888202515573088257	NaN
2017-07-20 16:49:33	20	888078434458587136	NaN
2017-07-19 16:06:48	21	887705289381826560	NaN
2017-07-19 03:39:09	22	887517139158093824	NaN
2017-07-19 00:47:34	23	887473957103951883	NaN
2017-07-18 16:08:03	24	887343217045368832	NaN
2017-07-18 00:07:08	25	887101392804085760	NaN
2017-07-17 16:17:36	26	886983233522544640	NaN
2017-07-16 23:58:41	27	886736880519319552	NaN
2017-07-16 20:14:00	28	886680336477933568	NaN
2017-07-15 23:25:31	29	886366144734445568	NaN
...	...	...	...
2015-11-17 00:24:19	2326	666411507551481857	NaN
2015-11-17 00:06:54	2327	666407126856765440	NaN
2015-11-16 23:23:41	2328	666396247373291520	NaN
2015-11-16 21:54:18	2329	666373753744588802	NaN
2015-11-16 21:10:36	2330	666362758909284353	NaN
2015-11-16 20:32:58	2331	666353288456101888	NaN
2015-11-16 20:01:42	2332	666345417576210432	NaN
2015-11-16 19:31:45	2333	666337882303524864	NaN
2015-11-16 16:37:02	2334	666293911632134144	NaN
2015-11-16 16:11:11	2335	666287406224695296	NaN
2015-11-16 15:14:19	2336	666273097616637952	NaN
2015-11-16 14:57:41	2337	666268910803644416	NaN
2015-11-16 04:02:55	2338	666104133288665088	NaN
2015-11-16 03:55:04	2339	666102155909144576	NaN
2015-11-16 03:44:34	2340	666099513787052032	NaN
2015-11-16 03:22:39	2341	666094000022159362	NaN
2015-11-16 02:38:37	2342	666082916733198337	NaN
2015-11-16 01:59:36	2343	666073100786774016	NaN
2015-11-16 01:52:02	2344	666071193221509120	NaN
2015-11-16 01:22:45	2345	666063827256086533	NaN
2015-11-16 01:01:59	2346	666058600524156928	NaN
2015-11-16 00:55:59	2347	666057090499244032	NaN
2015-11-16 00:49:46	2348	666055525042405380	NaN
2015-11-16 00:35:11	2349	666051853826850816	NaN
2015-11-16 00:30:50	2350	666050758794694657	NaN
2015-11-16 00:24:50	2351	666049248165822465	NaN
2015-11-16 00:04:52	2352	666044226329800704	NaN
2015-11-15 23:21:54	2353	666033412701032449	NaN
2015-11-15 23:05:30	2354	666029285002620928	NaN
2015-11-15 22:32:08	2355	666020888022790149	NaN

in\_reply\_to\_user\_id \

timestamp	
2017-08-01 16:23:56	NaN
2017-08-01 00:17:27	NaN

2017-07-31 00:18:03	NaN
2017-07-30 15:58:51	NaN
2017-07-29 16:00:24	NaN
2017-07-29 00:08:17	NaN
2017-07-28 16:27:12	NaN
2017-07-28 00:22:40	NaN
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2017-07-24 17:02:04	NaN
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2017-07-19 03:39:09	NaN
2017-07-19 00:47:34	NaN
2017-07-18 16:08:03	NaN
2017-07-18 00:07:08	NaN
2017-07-17 16:17:36	NaN
2017-07-16 23:58:41	NaN
2017-07-16 20:14:00	NaN
2017-07-15 23:25:31	NaN
...	...
2015-11-17 00:24:19	NaN
2015-11-17 00:06:54	NaN
2015-11-16 23:23:41	NaN
2015-11-16 21:54:18	NaN
2015-11-16 21:10:36	NaN
2015-11-16 20:32:58	NaN
2015-11-16 20:01:42	NaN
2015-11-16 19:31:45	NaN
2015-11-16 16:37:02	NaN
2015-11-16 16:11:11	NaN
2015-11-16 15:14:19	NaN
2015-11-16 14:57:41	NaN
2015-11-16 04:02:55	NaN
2015-11-16 03:55:04	NaN
2015-11-16 03:44:34	NaN
2015-11-16 03:22:39	NaN
2015-11-16 02:38:37	NaN
2015-11-16 01:59:36	NaN
2015-11-16 01:52:02	NaN

2015-11-16 01:22:45	NaN
2015-11-16 01:01:59	NaN
2015-11-16 00:55:59	NaN
2015-11-16 00:49:46	NaN
2015-11-16 00:35:11	NaN
2015-11-16 00:30:50	NaN
2015-11-16 00:24:50	NaN
2015-11-16 00:04:52	NaN
2015-11-15 23:21:54	NaN
2015-11-15 23:05:30	NaN
2015-11-15 22:32:08	NaN

source \

timestamp	
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2017-08-01 00:17:27	<a href="http://twitter.com/download/iphone" r...
2017-07-31 00:18:03	<a href="http://twitter.com/download/iphone" r...
2017-07-30 15:58:51	<a href="http://twitter.com/download/iphone" r...
2017-07-29 16:00:24	<a href="http://twitter.com/download/iphone" r...
2017-07-29 00:08:17	<a href="http://twitter.com/download/iphone" r...
2017-07-28 16:27:12	<a href="http://twitter.com/download/iphone" r...
2017-07-28 00:22:40	<a href="http://twitter.com/download/iphone" r...
2017-07-27 16:25:51	<a href="http://twitter.com/download/iphone" r...
2017-07-26 15:59:51	<a href="http://twitter.com/download/iphone" r...
2017-07-26 00:31:25	<a href="http://twitter.com/download/iphone" r...
2017-07-25 16:11:53	<a href="http://twitter.com/download/iphone" r...
2017-07-25 01:55:32	<a href="http://twitter.com/download/iphone" r...
2017-07-25 00:10:02	<a href="http://twitter.com/download/iphone" r...
2017-07-24 17:02:04	<a href="http://twitter.com/download/iphone" r...
2017-07-24 00:19:32	<a href="http://twitter.com/download/iphone" r...
2017-07-23 00:22:39	<a href="http://twitter.com/download/iphone" r...
2017-07-22 16:56:37	<a href="http://twitter.com/download/iphone" r...
2017-07-22 00:23:06	<a href="http://twitter.com/download/iphone" r...
2017-07-21 01:02:36	<a href="http://twitter.com/download/iphone" r...
2017-07-20 16:49:33	<a href="http://twitter.com/download/iphone" r...
2017-07-19 16:06:48	<a href="http://twitter.com/download/iphone" r...
2017-07-19 03:39:09	<a href="http://twitter.com/download/iphone" r...
2017-07-19 00:47:34	<a href="http://twitter.com/download/iphone" r...
2017-07-18 16:08:03	<a href="http://twitter.com/download/iphone" r...
2017-07-18 00:07:08	<a href="http://twitter.com/download/iphone" r...
2017-07-17 16:17:36	<a href="http://twitter.com/download/iphone" r...
2017-07-16 23:58:41	<a href="http://twitter.com/download/iphone" r...
2017-07-16 20:14:00	<a href="http://twitter.com/download/iphone" r...
2017-07-15 23:25:31	<a href="http://twitter.com/download/iphone" r...
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2015-11-17 00:24:19	<a href="http://twitter.com/download/iphone" r...
2015-11-17 00:06:54	<a href="http://twitter.com/download/iphone" r...
2015-11-16 23:23:41	<a href="http://twitter.com/download/iphone" r...

2015-11-16 21:54:18 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 21:10:36 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 20:32:58 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 20:01:42 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 19:31:45 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 16:37:02 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 16:11:11 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 15:14:19 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 14:57:41 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 04:02:55 <a href="http://twitter.com/download/iphone" r...  
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 2015-11-16 03:44:34 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 03:22:39 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 02:38:37 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 01:59:36 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 01:52:02 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 01:22:45 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 01:01:59 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 00:55:59 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 00:49:46 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 00:35:11 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 00:30:50 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 00:24:50 <a href="http://twitter.com/download/iphone" r...  
 2015-11-16 00:04:52 <a href="http://twitter.com/download/iphone" r...  
 2015-11-15 23:21:54 <a href="http://twitter.com/download/iphone" r...  
 2015-11-15 23:05:30 <a href="http://twitter.com/download/iphone" r...  
 2015-11-15 22:32:08 <a href="http://twitter.com/download/iphone" r...

text \

timestamp

2017-08-01 16:23:56 This is Phineas. He's a mystical boy. Only eve...  
 2017-08-01 00:17:27 This is Tilly. She's just checking pup on you...  
 2017-07-31 00:18:03 This is Archie. He is a rare Norwegian Pouncin...  
 2017-07-30 15:58:51 This is Darla. She commenced a snooze mid meal...  
 2017-07-29 16:00:24 This is Franklin. He would like you to stop ca...  
 2017-07-29 00:08:17 Here we have a majestic great white breaching ...  
 2017-07-28 16:27:12 Meet Jax. He enjoys ice cream so much he gets ...  
 2017-07-28 00:22:40 When you watch your owner call another dog a g...  
 2017-07-27 16:25:51 This is Zoey. She doesn't want to be one of th...  
 2017-07-26 15:59:51 This is Cassie. She is a college pup. Studying...  
 2017-07-26 00:31:25 This is Koda. He is a South Australian decksha...  
 2017-07-25 16:11:53 This is Bruno. He is a service shark. Only get...  
 2017-07-25 01:55:32 Here's a puppo that seems to be on the fence a...  
 2017-07-25 00:10:02 This is Ted. He does his best. Sometimes that'...  
 2017-07-24 17:02:04 This is Stuart. He's sporting his favorite fan...  
 2017-07-24 00:19:32 This is Oliver. You're witnessing one of his m...  
 2017-07-23 00:22:39 This is Jim. He found a fren. Taught him how t...  
 2017-07-22 16:56:37 This is Zeke. He has a new stick. Very proud o...

2017-07-22 00:23:06 This is Ralphus. He's powering up. Attempting ...  
 2017-07-21 01:02:36 RT @dog\_rates: This is Canela. She attempted s...  
 2017-07-20 16:49:33 This is Gerald. He was just told he didn't get...  
 2017-07-19 16:06:48 This is Jeffrey. He has a monopoly on the pool...  
 2017-07-19 03:39:09 I've yet to rate a Venezuelan Hover Wiener. Th...  
 2017-07-19 00:47:34 This is Canela. She attempted some fancy porch...  
 2017-07-18 16:08:03 You may not have known you needed to see this ...  
 2017-07-18 00:07:08 This... is a Jubilant Antarctic House Bear. We...  
 2017-07-17 16:17:36 This is Maya. She's very shy. Rarely leaves he...  
 2017-07-16 23:58:41 This is Mingus. He's a wonderful father to his...  
 2017-07-16 20:14:00 This is Derek. He's late for a dog meeting. 13...  
 2017-07-15 23:25:31 This is Roscoe. Another pupper fallen victim t...  
 ...  
 2015-11-17 00:24:19 This is quite the dog. Gets really excited whe...  
 2015-11-17 00:06:54 This is a southern Vesuvius bumblegruff. Can d...  
 2015-11-16 23:23:41 Oh goodness. A super rare northeast Qdoba kang...  
 2015-11-16 21:54:18 Those are sunglasses and a jean jacket. 11/10 ...  
 2015-11-16 21:10:36 Unique dog here. Very small. Lives in containe...  
 2015-11-16 20:32:58 Here we have a mixed Asiago from the Galápagos...  
 2015-11-16 20:01:42 Look at this jokester thinking seat belt laws ...  
 2015-11-16 19:31:45 This is an extremely rare horned Parthenon. No...  
 2015-11-16 16:37:02 This is a funny dog. Weird toes. Won't come do...  
 2015-11-16 16:11:11 This is an Albanian 3 1/2 legged Episcopalian...  
 2015-11-16 15:14:19 Can take selfies 11/10 <https://t.co/ws2AMaWpPW>  
 2015-11-16 14:57:41 Very concerned about fellow dog trapped in com...  
 2015-11-16 04:02:55 Not familiar with this breed. No tail (weird)...  
 2015-11-16 03:55:04 Oh my. Here you are seeing an Adobe Setter giv...  
 2015-11-16 03:44:34 Can stand on stump for what seems like a while...  
 2015-11-16 03:22:39 This appears to be a Mongolian Presbyterian mi...  
 2015-11-16 02:38:37 Here we have a well-established sunblockerspan...  
 2015-11-16 01:59:36 Let's hope this flight isn't Malaysian (lol). ...  
 2015-11-16 01:52:02 Here we have a northern speckled Rhododendron...  
 2015-11-16 01:22:45 This is the happiest dog you will ever see. Ve...  
 2015-11-16 01:01:59 Here is the Rand Paul of retrievers folks! He'...  
 2015-11-16 00:55:59 My oh my. This is a rare blond Canadian terrie...  
 2015-11-16 00:49:46 Here is a Siberian heavily armored polar bear ...  
 2015-11-16 00:35:11 This is an odd dog. Hard on the outside but lo...  
 2015-11-16 00:30:50 This is a truly beautiful English Wilson Staff...  
 2015-11-16 00:24:50 Here we have a 1949 1st generation vulpix. Enj...  
 2015-11-16 00:04:52 This is a purebred Piers Morgan. Loves to Netf...  
 2015-11-15 23:21:54 Here is a very happy pup. Big fan of well-main...  
 2015-11-15 23:05:30 This is a western brown Mitsubishi terrier. Up...  
 2015-11-15 22:32:08 Here we have a Japanese Irish Setter. Lost eye...

retweeted\_status\_id retweeted\_status\_user\_id \

timestamp

2017-08-01 16:23:56  
 2017-08-01 00:17:27

NaN  
 NaN

NaN  
 NaN

2017-07-31 00:18:03	NaN	NaN
2017-07-30 15:58:51	NaN	NaN
2017-07-29 16:00:24	NaN	NaN
2017-07-29 00:08:17	NaN	NaN
2017-07-28 16:27:12	NaN	NaN
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2015-11-16 01:22:45	NaN	NaN
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2015-11-16 00:24:50	NaN	NaN
2015-11-16 00:04:52	NaN	NaN
2015-11-15 23:21:54	NaN	NaN
2015-11-15 23:05:30	NaN	NaN
2015-11-15 22:32:08	NaN	NaN

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2017-08-01 00:17:27	NaN
2017-07-31 00:18:03	NaN
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2017-07-24 17:02:04	NaN
2017-07-24 00:19:32	NaN
2017-07-23 00:22:39	NaN
2017-07-22 16:56:37	NaN
2017-07-22 00:23:06	NaN
2017-07-21 01:02:36	2017-07-19 00:47:34 +0000
2017-07-20 16:49:33	NaN
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2017-07-19 03:39:09	NaN
2017-07-19 00:47:34	NaN
2017-07-18 16:08:03	NaN
2017-07-18 00:07:08	NaN
2017-07-17 16:17:36	NaN
2017-07-16 23:58:41	NaN
2017-07-16 20:14:00	NaN
2017-07-15 23:25:31	NaN
...	...
2015-11-17 00:24:19	NaN
2015-11-17 00:06:54	NaN
2015-11-16 23:23:41	NaN

2015-11-16 21:54:18	NaN
2015-11-16 21:10:36	NaN
2015-11-16 20:32:58	NaN
2015-11-16 20:01:42	NaN
2015-11-16 19:31:45	NaN
2015-11-16 16:37:02	NaN
2015-11-16 16:11:11	NaN
2015-11-16 15:14:19	NaN
2015-11-16 14:57:41	NaN
2015-11-16 04:02:55	NaN
2015-11-16 03:55:04	NaN
2015-11-16 03:44:34	NaN
2015-11-16 03:22:39	NaN
2015-11-16 02:38:37	NaN
2015-11-16 01:59:36	NaN
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2015-11-16 01:22:45	NaN
2015-11-16 01:01:59	NaN
2015-11-16 00:55:59	NaN
2015-11-16 00:49:46	NaN
2015-11-16 00:35:11	NaN
2015-11-16 00:30:50	NaN
2015-11-16 00:24:50	NaN
2015-11-16 00:04:52	NaN
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2015-11-15 23:05:30	NaN
2015-11-15 22:32:08	NaN

expanded\_urls \

timestamp	
2017-08-01 16:23:56	<a href="https://twitter.com/dog_rates/status/892420643...">https://twitter.com/dog_rates/status/892420643...</a>
2017-08-01 00:17:27	<a href="https://twitter.com/dog_rates/status/892177421...">https://twitter.com/dog_rates/status/892177421...</a>
2017-07-31 00:18:03	<a href="https://twitter.com/dog_rates/status/891815181...">https://twitter.com/dog_rates/status/891815181...</a>
2017-07-30 15:58:51	<a href="https://twitter.com/dog_rates/status/891689557...">https://twitter.com/dog_rates/status/891689557...</a>
2017-07-29 16:00:24	<a href="https://twitter.com/dog_rates/status/891327558...">https://twitter.com/dog_rates/status/891327558...</a>
2017-07-29 00:08:17	<a href="https://twitter.com/dog_rates/status/891087950...">https://twitter.com/dog_rates/status/891087950...</a>
2017-07-28 16:27:12	<a href="https://gofundme.com/ydvmve-surgery-for-jax,ht...">https://gofundme.com/ydvmve-surgery-for-jax,ht...</a>
2017-07-28 00:22:40	<a href="https://twitter.com/dog_rates/status/890729181...">https://twitter.com/dog_rates/status/890729181...</a>
2017-07-27 16:25:51	<a href="https://twitter.com/dog_rates/status/890609185...">https://twitter.com/dog_rates/status/890609185...</a>
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2017-07-26 00:31:25	<a href="https://twitter.com/dog_rates/status/890006608...">https://twitter.com/dog_rates/status/890006608...</a>
2017-07-25 16:11:53	<a href="https://twitter.com/dog_rates/status/889880896...">https://twitter.com/dog_rates/status/889880896...</a>
2017-07-25 01:55:32	<a href="https://twitter.com/dog_rates/status/889665388...">https://twitter.com/dog_rates/status/889665388...</a>
2017-07-25 00:10:02	<a href="https://twitter.com/dog_rates/status/889638837...">https://twitter.com/dog_rates/status/889638837...</a>
2017-07-24 17:02:04	<a href="https://twitter.com/dog_rates/status/889531135...">https://twitter.com/dog_rates/status/889531135...</a>
2017-07-24 00:19:32	<a href="https://twitter.com/dog_rates/status/889278841...">https://twitter.com/dog_rates/status/889278841...</a>
2017-07-23 00:22:39	<a href="https://twitter.com/dog_rates/status/888917238...">https://twitter.com/dog_rates/status/888917238...</a>
2017-07-22 16:56:37	<a href="https://twitter.com/dog_rates/status/888804989...">https://twitter.com/dog_rates/status/888804989...</a>

2017-07-22 00:23:06	https://twitter.com/dog_rates/status/888554962...			
2017-07-21 01:02:36	https://twitter.com/dog_rates/status/887473957...			
2017-07-20 16:49:33	https://twitter.com/dog_rates/status/888078434...			
2017-07-19 16:06:48	https://twitter.com/dog_rates/status/887705289...			
2017-07-19 03:39:09	https://twitter.com/dog_rates/status/887517139...			
2017-07-19 00:47:34	https://twitter.com/dog_rates/status/887473957...			
2017-07-18 16:08:03	https://twitter.com/dog_rates/status/887343217...			
2017-07-18 00:07:08	https://twitter.com/dog_rates/status/887101392...			
2017-07-17 16:17:36	https://twitter.com/dog_rates/status/886983233...			
2017-07-16 23:58:41	https://www.gofundme.com/mingusneedsus,https://...			
2017-07-16 20:14:00	https://twitter.com/dog_rates/status/886680336...			
2017-07-15 23:25:31	https://twitter.com/dog_rates/status/886366144...			
...	...			
2015-11-17 00:24:19	https://twitter.com/dog_rates/status/666411507...			
2015-11-17 00:06:54	https://twitter.com/dog_rates/status/666407126...			
2015-11-16 23:23:41	https://twitter.com/dog_rates/status/666396247...			
2015-11-16 21:54:18	https://twitter.com/dog_rates/status/666373753...			
2015-11-16 21:10:36	https://twitter.com/dog_rates/status/666362758...			
2015-11-16 20:32:58	https://twitter.com/dog_rates/status/666353288...			
2015-11-16 20:01:42	https://twitter.com/dog_rates/status/666345417...			
2015-11-16 19:31:45	https://twitter.com/dog_rates/status/666337882...			
2015-11-16 16:37:02	https://twitter.com/dog_rates/status/666293911...			
2015-11-16 16:11:11	https://twitter.com/dog_rates/status/666287406...			
2015-11-16 15:14:19	https://twitter.com/dog_rates/status/666273097...			
2015-11-16 14:57:41	https://twitter.com/dog_rates/status/666268910...			
2015-11-16 04:02:55	https://twitter.com/dog_rates/status/666104133...			
2015-11-16 03:55:04	https://twitter.com/dog_rates/status/666102155...			
2015-11-16 03:44:34	https://twitter.com/dog_rates/status/666099513...			
2015-11-16 03:22:39	https://twitter.com/dog_rates/status/666094000...			
2015-11-16 02:38:37	https://twitter.com/dog_rates/status/666082916...			
2015-11-16 01:59:36	https://twitter.com/dog_rates/status/666073100...			
2015-11-16 01:52:02	https://twitter.com/dog_rates/status/666071193...			
2015-11-16 01:22:45	https://twitter.com/dog_rates/status/666063827...			
2015-11-16 01:01:59	https://twitter.com/dog_rates/status/666058600...			
2015-11-16 00:55:59	https://twitter.com/dog_rates/status/666057090...			
2015-11-16 00:49:46	https://twitter.com/dog_rates/status/666055525...			
2015-11-16 00:35:11	https://twitter.com/dog_rates/status/666051853...			
2015-11-16 00:30:50	https://twitter.com/dog_rates/status/666050758...			
2015-11-16 00:24:50	https://twitter.com/dog_rates/status/666049248...			
2015-11-16 00:04:52	https://twitter.com/dog_rates/status/666044226...			
2015-11-15 23:21:54	https://twitter.com/dog_rates/status/666033412...			
2015-11-15 23:05:30	https://twitter.com/dog_rates/status/666029285...			
2015-11-15 22:32:08	https://twitter.com/dog_rates/status/666020888...			
	...	p2	p2_conf	p2_dog \
timestamp	...			
2017-08-01 16:23:56	...	bagel	0.085851	False
2017-08-01 00:17:27	...	Pekinese	0.090647	True

2017-07-31 00:18:03	...	malamute	0.078253	True
2017-07-30 15:58:51	...	Labrador_retriever	0.168086	True
2017-07-29 16:00:24	...	English_springer	0.225770	True
2017-07-29 00:08:17	...	Irish_terrier	0.116317	True
2017-07-28 16:27:12	...	Border_collie	0.199287	True
2017-07-28 00:22:40	...	Eskimo_dog	0.178406	True
2017-07-27 16:25:51	...	Irish_setter	0.193054	True
2017-07-26 15:59:51	...	Cardigan	0.451038	True
2017-07-26 00:31:25	...	Pomeranian	0.013884	True
2017-07-25 16:11:53	...	Labrador_retriever	0.151317	True
2017-07-25 01:55:32	...	Cardigan	0.027356	True
2017-07-25 00:10:02	...	boxer	0.002129	True
2017-07-24 17:02:04	...	Labrador_retriever	0.013834	True
2017-07-24 00:19:32	...	borzoi	0.194742	True
2017-07-23 00:22:39	...	Tibetan_mastiff	0.120184	True
2017-07-22 16:56:37	...	Labrador_retriever	0.184172	True
2017-07-22 00:23:06	...	Eskimo_dog	0.166511	True
2017-07-21 01:02:36	...	Rhodesian_ridgeback	0.054950	True
2017-07-20 16:49:33	...	pug	0.000932	True
2017-07-19 16:06:48	...	redbone	0.087582	True
2017-07-19 03:39:09	...	tow_truck	0.029175	False
2017-07-19 00:47:34	...	Rhodesian_ridgeback	0.054950	True
2017-07-18 16:08:03	...	sea_lion	0.275645	False
2017-07-18 00:07:08	...	Eskimo_dog	0.035029	True
2017-07-17 16:17:36	...	toy_terrier	0.143528	True
2017-07-16 23:58:41	...	Great_Pyrenees	0.186136	True
2017-07-16 20:14:00	...	sports_car	0.139952	False
2017-07-15 23:25:31	...	Chihuahua	0.000361	True
...	...	...	...	...
2015-11-17 00:24:19	...	barracouta	0.271485	False
2015-11-17 00:06:54	...	bloodhound	0.244220	True
2015-11-16 23:23:41	...	toy_terrier	0.009397	True
2015-11-16 21:54:18	...	Afghan_hound	0.259551	True
2015-11-16 21:10:36	...	skunk	0.002402	False
2015-11-16 20:32:58	...	Siberian_husky	0.147655	True
2015-11-16 20:01:42	...	Chesapeake_Bay_retriever	0.054787	True
2015-11-16 19:31:45	...	Newfoundland	0.278407	True
2015-11-16 16:37:02	...	otter	0.015250	False
2015-11-16 16:11:11	...	toy_poodle	0.063064	True
2015-11-16 15:14:19	...	toy_terrier	0.111884	True
2015-11-16 14:57:41	...	desk	0.085547	False
2015-11-16 04:02:55	...	cock	0.033919	False
2015-11-16 03:55:04	...	Newfoundland	0.149842	True
2015-11-16 03:44:34	...	Shih-Tzu	0.166192	True
2015-11-16 03:22:39	...	German_shepherd	0.078260	True
2015-11-16 02:38:37	...	bull_mastiff	0.404722	True
2015-11-16 01:59:36	...	English_foxhound	0.175382	True
2015-11-16 01:52:02	...	Yorkshire_terrier	0.174201	True

2015-11-16 01:22:45	...	Tibetan_mastiff	0.093718	True
2015-11-16 01:01:59	...	komondor	0.192305	True
2015-11-16 00:55:59	...	shopping_basket	0.014594	False
2015-11-16 00:49:46	...	Tibetan_mastiff	0.058279	True
2015-11-16 00:35:11	...	mud_turtle	0.045885	False
2015-11-16 00:30:50	...	English_springer	0.263788	True
2015-11-16 00:24:50	...	Rottweiler	0.243682	True
2015-11-16 00:04:52	...	redbone	0.360687	True
2015-11-15 23:21:54	...	malinois	0.138584	True
2015-11-15 23:05:30	...	miniature_pinscher	0.074192	True
2015-11-15 22:32:08	...	collie	0.156665	True

		p3	p3_conf	p3_dog	\
timestamp					
2017-08-01 16:23:56		banana	0.076110	False	
2017-08-01 00:17:27		papillon	0.068957	True	
2017-07-31 00:18:03		kelpie	0.031379	True	
2017-07-30 15:58:51		spatula	0.040836	False	
2017-07-29 16:00:24	German_short-haired_pointer		0.175219	True	
2017-07-29 00:08:17	Indian_elephant		0.076902	False	
2017-07-28 16:27:12	ice_lolly		0.193548	False	
2017-07-28 00:22:40	Pembroke		0.076507	True	
2017-07-27 16:25:51	Chesapeake_Bay_retriever		0.118184	True	
2017-07-26 15:59:51	Chihuahua		0.029248	True	
2017-07-26 00:31:25	chow		0.008167	True	
2017-07-25 16:11:53	muzzle		0.082981	False	
2017-07-25 01:55:32	basenji		0.004633	True	
2017-07-25 00:10:02	Staffordshire_bullterrier		0.001498	True	
2017-07-24 17:02:04	redbone		0.007958	True	
2017-07-24 00:19:32	Saluki		0.027351	True	
2017-07-23 00:22:39	Labrador_retriever		0.105506	True	
2017-07-22 16:56:37	English_setter		0.073482	True	
2017-07-22 00:23:06	malamute		0.111411	True	
2017-07-21 01:02:36	beagle		0.038915	True	
2017-07-20 16:49:33	bull_mastiff		0.000903	True	
2017-07-19 16:06:48	Weimaraner		0.026236	True	
2017-07-19 03:39:09	shopping_cart		0.026321	False	
2017-07-19 00:47:34	beagle		0.038915	True	
2017-07-18 16:08:03	Weimaraner		0.134203	True	
2017-07-18 00:07:08	Staffordshire_bullterrier		0.029705	True	
2017-07-17 16:17:36	can_opener		0.032253	False	
2017-07-16 23:58:41	Dandie_Dinmont		0.086346	True	
2017-07-16 20:14:00	car_wheel		0.044173	False	
2017-07-15 23:25:31	Boston_bull		0.000076	True	
...	...		...	...	
2015-11-17 00:24:19	gar		0.189945	False	
2015-11-17 00:06:54	flat-coated_retriever		0.173810	True	
2015-11-16 23:23:41	papillon		0.004577	True	

2015-11-16 21:54:18	briard	0.206803	True
2015-11-16 21:10:36	hamster	0.000461	False
2015-11-16 20:32:58	Eskimo_dog	0.093412	True
2015-11-16 20:01:42	Labrador_retriever	0.014241	True
2015-11-16 19:31:45	groenendael	0.102643	True
2015-11-16 16:37:02	great_grey_owl	0.013207	False
2015-11-16 16:11:11	miniature_poodle	0.025581	True
2015-11-16 15:14:19	basenji	0.111152	True
2015-11-16 14:57:41	bookcase	0.079480	False
2015-11-16 04:02:55	partridge	0.000052	False
2015-11-16 03:55:04	borzoi	0.133649	True
2015-11-16 03:44:34	Dandie_Dinmont	0.089688	True
2015-11-16 03:22:39	malinois	0.075628	True
2015-11-16 02:38:37	French_bulldog	0.048960	True
2015-11-16 01:59:36	Ibizan_hound	0.097471	True
2015-11-16 01:52:02	Pekinese	0.109454	True
2015-11-16 01:22:45	Labrador_retriever	0.072427	True
2015-11-16 01:01:59	soft-coated_wheaten_terrier	0.082086	True
2015-11-16 00:55:59	golden_retriever	0.007959	True
2015-11-16 00:49:46	fur_coat	0.054449	False
2015-11-16 00:35:11	terrapin	0.017885	False
2015-11-16 00:30:50	Greater_Swiss_Mountain_dog	0.016199	True
2015-11-16 00:24:50	Doberman	0.154629	True
2015-11-16 00:04:52	miniature_pinscher	0.222752	True
2015-11-15 23:21:54	bloodhound	0.116197	True
2015-11-15 23:05:30	Rhodesian_ridgeback	0.072010	True
2015-11-15 22:32:08	Shetland_sheepdog	0.061428	True

Unnamed: 0.1 favorites retweets dogs\_kind

timestamp				
2017-08-01 16:23:56	2061.0	37386.0	8074.0	None
2017-08-01 00:17:27	2060.0	32141.0	5993.0	None
2017-07-31 00:18:03	2059.0	24225.0	3967.0	None
2017-07-30 15:58:51	2058.0	40697.0	8246.0	None
2017-07-29 16:00:24	2057.0	38915.0	8923.0	None
2017-07-29 00:08:17	2056.0	19559.0	2971.0	None
2017-07-28 16:27:12	2055.0	11429.0	1960.0	None
2017-07-28 00:22:40	2054.0	63033.0	17993.0	None
2017-07-27 16:25:51	2053.0	26905.0	4067.0	None
2017-07-26 15:59:51	2052.0	30842.0	7023.0	doggo
2017-07-26 00:31:25	2051.0	29665.0	6980.0	None
2017-07-25 16:11:53	2050.0	26906.0	4752.0	None
2017-07-25 01:55:32	2049.0	46471.0	9560.0	puppo
2017-07-25 00:10:02	2048.0	26182.0	4302.0	None
2017-07-24 17:02:04	2047.0	14618.0	2144.0	puppo
2017-07-24 00:19:32	2046.0	24396.0	5121.0	None
2017-07-23 00:22:39	2045.0	28146.0	4298.0	None
2017-07-22 16:56:37	2044.0	24716.0	4069.0	None

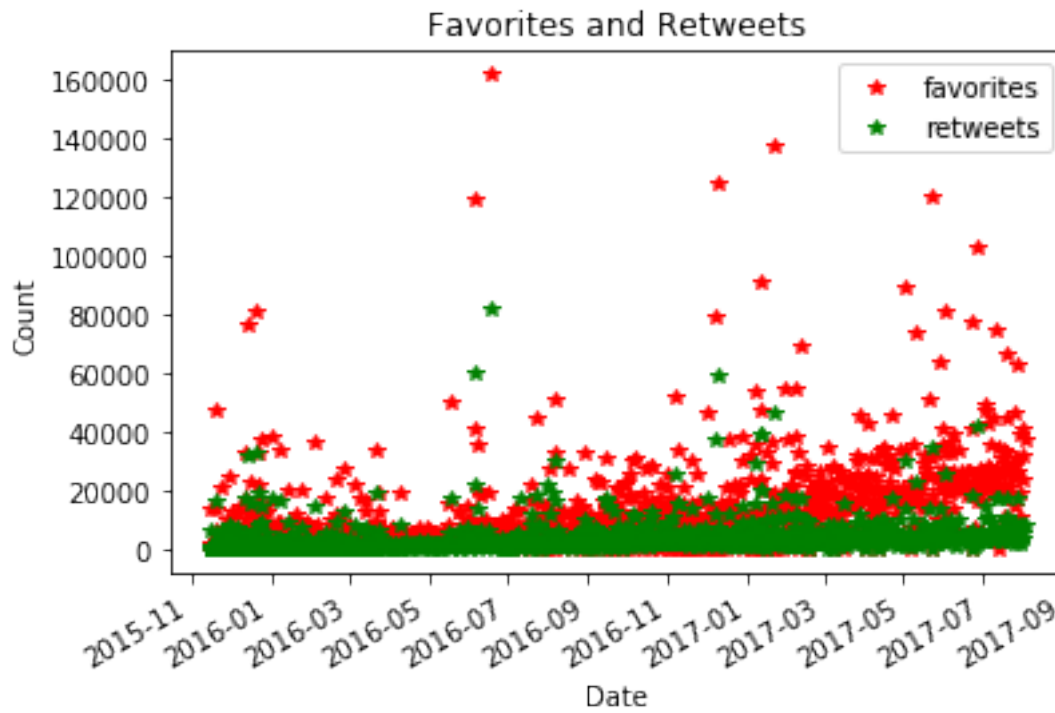
2017-07-22 00:23:06	2043.0	19151.0	3357.0	None
2017-07-21 01:02:36	NaN	NaN	NaN	None
2017-07-20 16:49:33	2042.0	21031.0	3313.0	None
2017-07-19 16:06:48	2041.0	29179.0	5133.0	None
2017-07-19 03:39:09	2040.0	44755.0	11176.0	None
2017-07-19 00:47:34	2039.0	66567.0	17266.0	None
2017-07-18 16:08:03	2038.0	32534.0	9956.0	None
2017-07-18 00:07:08	2037.0	29553.0	5690.0	floof
2017-07-17 16:17:36	2036.0	33913.0	7368.0	None
2017-07-16 23:58:41	2035.0	11614.0	3096.0	None
2017-07-16 20:14:00	2034.0	21683.0	4255.0	None
2017-07-15 23:25:31	2033.0	20451.0	3041.0	pupper
...	...	...	...	...
2015-11-17 00:24:19	29.0	426.0	318.0	None
2015-11-17 00:06:54	28.0	103.0	37.0	None
2015-11-16 23:23:41	27.0	161.0	81.0	None
2015-11-16 21:54:18	26.0	179.0	87.0	None
2015-11-16 21:10:36	25.0	752.0	546.0	None
2015-11-16 20:32:58	24.0	211.0	71.0	None
2015-11-16 20:01:42	23.0	282.0	130.0	None
2015-11-16 19:31:45	22.0	189.0	88.0	None
2015-11-16 16:37:02	21.0	483.0	339.0	None
2015-11-16 16:11:11	20.0	141.0	63.0	None
2015-11-16 15:14:19	19.0	166.0	75.0	None
2015-11-16 14:57:41	18.0	99.0	34.0	None
2015-11-16 04:02:55	17.0	13871.0	6253.0	None
2015-11-16 03:55:04	16.0	75.0	11.0	None
2015-11-16 03:44:34	15.0	147.0	64.0	None
2015-11-16 03:22:39	14.0	158.0	69.0	None
2015-11-16 02:38:37	13.0	109.0	43.0	None
2015-11-16 01:59:36	12.0	311.0	154.0	None
2015-11-16 01:52:02	11.0	140.0	55.0	None
2015-11-16 01:22:45	10.0	457.0	206.0	None
2015-11-16 01:01:59	9.0	108.0	56.0	None
2015-11-16 00:55:59	8.0	282.0	134.0	None
2015-11-16 00:49:46	7.0	421.0	229.0	None
2015-11-16 00:35:11	6.0	1180.0	817.0	None
2015-11-16 00:30:50	5.0	129.0	56.0	None
2015-11-16 00:24:50	4.0	103.0	41.0	None
2015-11-16 00:04:52	3.0	286.0	135.0	None
2015-11-15 23:21:54	2.0	121.0	43.0	None
2015-11-15 23:05:30	1.0	125.0	46.0	None
2015-11-15 22:32:08	0.0	2494.0	488.0	None

[2356 rows x 32 columns]

Analyze

```
In [84]: df3[['favorites', 'retweets']].plot(style = '*', color=['red','green'])
```

```
plt.title('Favorites and Retweets')    # set title
plt.xlabel('Date')    # set xlabel
plt.ylabel('Count');    # set ylabel
```



```
In [ ]:
```

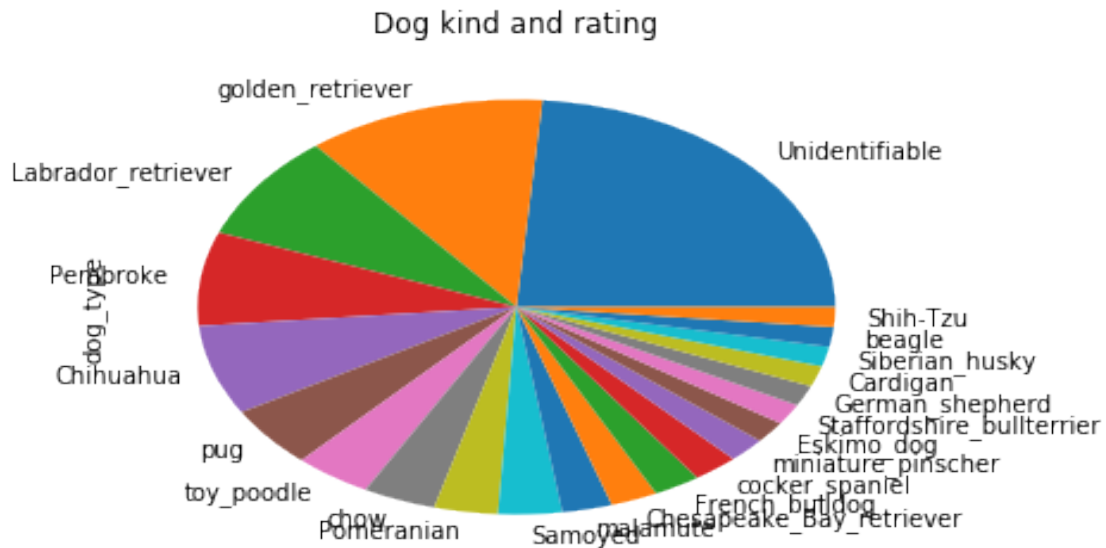
```
In [85]: df3[['favorites', 'retweets']].corr(method='pearson') # show
```

```
Out[85]:
```

	favorites	retweets
favorites	1.000000	0.857407
retweets	0.857407	1.000000

```
In [93]: highest_rate=df3_clean.groupby('dog_type').filter(lambda x: len(x) >= 20)
highest_rate['dog_type'].value_counts().plot(kind = 'pie')
plt.title('Dog type and rating');
```





The pie plot shows are some types of dogs have greater rating than the others.besides the scatter plots for favorites and retewwets with time shows the relation of both wth time. Favorites count seem to be more widely scattered than retweets.

In [ ]:

In [ ]: