# wrangle\_act

December 12, 2019

### 0.1 Gathering and Extracting Data:

in this section we will collect data of WeRateDogs from Twitter using Tweepy API and tweets ids provided in twitter-archive-enhanced.csv file

```
In [1]: #imporing all needed libraries

import tweepy
import requests as req
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import json
from io import BytesIO
import seaborn as sns

%matplotlib inline
```

#### Tweepy API authorization

## 1 testing Api connection and extracting one tweet

```
tweet = api.get_status('1198860382976106496', tweet_mode='extended')
print(tweet.retweet_count) print(tweet.favorite_count) print(tweet.full_text)
```

In [4]: twitter\_archive\_df

- 5.3				
Out[4]:		in_reply_to_status_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	
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2336	666273097616637952	NaN	NaN	

666268910803644416	NaN	NaN
666104133288665088	NaN	NaN
666102155909144576	NaN	NaN
666099513787052032	NaN	NaN
666094000022159362	NaN	NaN
666082916733198337	NaN	NaN
666073100786774016	NaN	NaN
666071193221509120	NaN	NaN
666063827256086533	NaN	NaN
666058600524156928	NaN	NaN
666057090499244032	NaN	NaN
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666051853826850816	NaN	NaN
666050758794694657	NaN	NaN
666049248165822465	NaN	NaN
666044226329800704	NaN	NaN
666033412701032449	NaN	NaN
666029285002620928	NaN	NaN
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      2017-07-24 00:19:32 +0000
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      2017-07-23 00:22:39 +0000
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	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 https://t.co/ws2AMaNwPW	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...
2341
     This appears to be a Mongolian Presbyterian mi...
2342
     Here we have a well-established sunblockerspan...
2343
     Let's hope this flight isn't Malaysian (lol). ...
     Here we have a northern speckled Rhododendron...
2344
2345
      This is the happiest dog you will ever see. Ve...
2346
      Here is the Rand Paul of retrievers folks! He'...
2347
      My oh my. This is a rare blond Canadian terrie...
    Here is a Siberian heavily armored polar bear ...
2348
2349
      This is an odd dog. Hard on the outside but lo...
2350
      This is a truly beautiful English Wilson Staff...
     Here we have a 1949 1st generation vulpix. Enj...
2351
2352
     This is a purebred Piers Morgan. Loves to Netf...
2353
     Here is a very happy pup. Big fan of well-main...
2354
      This is a western brown Mitsubishi terrier. Up...
2355
     Here we have a Japanese Irish Setter. Lost eye...
      retweeted_status_user_id retweeted_status_timestamp
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3	https://twitter.com/dog_rates/status/891	689557	13	
4	https://twitter.com/dog_rates/status/891	327558	12	
5	https://twitter.com/dog_rates/status/891	087950	13	
6	https://gofundme.com/ydvmve-surgery-for-	jax,ht	13	
7	https://twitter.com/dog_rates/status/890	729181	13	
8	https://twitter.com/dog_rates/status/890		13	
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0	10	Phineas	${\tt None}$	None	None	None
1	10	Tilly	${\tt None}$	${\tt None}$	None	${\tt None}$
2	10	Archie	${\tt None}$	${\tt None}$	None	${\tt None}$
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
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
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		None
23					pupper	
2326	10	 quite	None	 None	 None	 None
	10	-			None	
2327		a None	None	None		None
2328 2329	10 10	None	None	None None	None None	None None
2329	10		None			
2330	10	None	None	None	None	None
		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