

# wrangle\_act-Copy1

December 6, 2019

**Your goal:** wrangle WeRateDogs Twitter data to create interesting and trustworthy analyses and visualizations. The Twitter archive is great, but it only contains very basic tweet information. Additional gathering, then assessing and cleaning is required for “Wow!”-worthy analyses and visualizations.

1. The WeRateDogs Twitter archive. I am giving this file to you, so imagine it as a file on hand. Download this file manually by clicking the following link: `twitter_archive_enhanced.csv`
2. The tweet image predictions, i.e., what breed of dog (or other object, animal, etc.) is present in each tweet according to a neural network. This file (`image_predictions.tsv`) is hosted on Udacity’s servers and should be downloaded programmatically using the Requests library and the following URL: `https://d17h27t6h515a5.cloudfront.net/topher/2017/August/599fd2ad_image_predictions/image_predictions.tsv`
3. Each tweet’s retweet count and favorite (“like”) count at minimum, and any additional data you find interesting. Using the tweet IDs in the WeRateDogs Twitter archive, query the Twitter API for each tweet’s JSON data using Python’s Tweepy library and store each tweet’s entire set of JSON data in a file called `tweet_json.txt` file. Each tweet’s JSON data should be written to its own line. Then read this .txt file line by line into a pandas DataFrame with (at minimum) tweet ID, retweet count, and favorite count. Note: do not include your Twitter API keys, secrets, and tokens in your project submission.

Detect and document at least \* **Eight quality issues** \* **Two tidiness issues**

- **three insights**
- **one visualization**
- Create a 300-600 word written report called `wrangle_report.pdf` or `wrangle_report.html` that briefly describes your wrangling efforts. This is to be framed as an internal document.
- Create a 250-word-minimum written report called `act_report.pdf` or `act_report.html` that communicates the insights and displays the visualization(s) produced from your wrangled data. This is to be framed as an external document, like a blog post or magazine article, for example.

## 0.1 Basic wrangling strategy

1. Gather all data sets, document issues pertinent to every dataset in the process.
2. Merge all data sets.
3. Remove null, duplicate and redundant data.

4. Resolve quality issues.
5. Resolve tidiness issues.
6. Find three insights.
7. Create visualization.

```
[1]: import requests as rq
import pandas as pd
import numpy as np
import io
import json
from random import randrange, choice
import seaborn as sb
import matplotlib.pyplot as plt
%matplotlib inline
```

## 0.2 Dataset 1: Enhanced twitter archive

### 0.2.1 Read the enhanced twitter archive into a dataframe

```
[2]: twitter_archive = pd.read_csv('twitter-archive-enhanced.csv')
```

```
[3]: twitter_archive.head(15)
```

```
[3]:
```

	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	

	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

```

```

                                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...

```

```

                                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

```

```

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

	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	
5	https://twitter.com/dog_rates/status/891087950...	13	
6	https://gofundme.com/ydvmve-surgery-for-jax,ht...	13	
7	https://twitter.com/dog_rates/status/890729181...	13	
8	https://twitter.com/dog_rates/status/890609185...	13	
9	https://twitter.com/dog_rates/status/890240255...	14	
10	https://twitter.com/dog_rates/status/890006608...	13	
11	https://twitter.com/dog_rates/status/889880896...	13	
12	https://twitter.com/dog_rates/status/889665388...	13	
13	https://twitter.com/dog_rates/status/889638837...	12	
14	https://twitter.com/dog_rates/status/889531135...	13	

	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

```
[4]: twitter_archive.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2356 entries, 0 to 2355
Data columns (total 17 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
dtypes: float64(4), int64(3), object(10)
memory usage: 313.0+ KB
```

## 0.3 Dataset 2: Image predictions

### 0.3.1 Download the tweet image predictions

```
[5]: r = rq.get('https://d17h27t6h515a5.cloudfront.net/topher/2017/August/
↪599fd2ad_image-predictions/image-predictions.tsv')
r.status_code
```

```
[5]: 200
```

```
[6]: r.headers['content-type']
```

```
[6]: 'text/tab-separated-values; charset=utf-8'
```

```
[7]: r.encoding
```

```
[7]: 'utf-8'
```

#### Load the received .tsv file into a dataframe

```
[8]: # load image predictions dataset from a local file
image_predictions = pd.DataFrame.from_csv('image-predictions.tsv', sep='\t')
```

```
/Users/s8/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:2:
FutureWarning: from_csv is deprecated. Please use read_csv(...) instead. Note
that some of the default arguments are different, so please refer to the
documentation for from_csv when changing your function calls
```

```
[9]: # load image predictions dataset from the URL
image_predictions = pd.DataFrame.from_csv(io.StringIO(r.content.decode(r.
→encoding)), sep='\t')
```

```
/Users/s8/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:2:
FutureWarning: from_csv is deprecated. Please use read_csv(...) instead. Note
that some of the default arguments are different, so please refer to the
documentation for from_csv when changing your function calls
```

```
[10]: image_predictions.head()
```

```
[10]:
```

	tweet_id	jpg_url	img_num	\
	666020888022790149	https://pbs.twimg.com/media/CT4udn0WwAA0aMy.jpg	1	
	666029285002620928	https://pbs.twimg.com/media/CT42GRgUYAA5iDo.jpg	1	
	666033412701032449	https://pbs.twimg.com/media/CT4521TWwAEvMyu.jpg	1	
	666044226329800704	https://pbs.twimg.com/media/CT5Dr8HUEAA-lEu.jpg	1	
	666049248165822465	https://pbs.twimg.com/media/CT5IQmsXIAAKY4A.jpg	1	

	tweet_id	p1	p1_conf	p1_dog	\
	666020888022790149	Welsh_springer_spaniel	0.465074	True	
	666029285002620928	redbone	0.506826	True	
	666033412701032449	German_shepherd	0.596461	True	
	666044226329800704	Rhodesian_ridgeback	0.408143	True	
	666049248165822465	miniature_pinscher	0.560311	True	

	tweet_id	p2	p2_conf	p2_dog	p3	\
	666020888022790149	collie	0.156665	True	Shetland_sheepdog	
	666029285002620928	miniature_pinscher	0.074192	True	Rhodesian_ridgeback	
	666033412701032449	malinois	0.138584	True	bloodhound	
	666044226329800704	redbone	0.360687	True	miniature_pinscher	
	666049248165822465	Rottweiler	0.243682	True	Doberman	

	tweet_id	p3_conf	p3_dog
	666020888022790149	0.061428	True
	666029285002620928	0.072010	True
	666033412701032449	0.116197	True

```
666044226329800704  0.222752    True
666049248165822465  0.154629    True
```

```
[11]: image_predictions.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 2075 entries, 666020888022790149 to 892420643555336193
Data columns (total 11 columns):
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(1), object(4)
memory usage: 152.0+ KB
```

### 0.3.2 Merge twitter archive and image predictions

```
[12]: merged_df = pd.
      ↪merge(twitter_archive,image_predictions,how='inner',on='tweet_id')
```

```
[13]: merged_df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 2075 entries, 0 to 2074
Data columns (total 28 columns):
tweet_id          2075 non-null int64
in_reply_to_status_id  23 non-null float64
in_reply_to_user_id   23 non-null float64
timestamp         2075 non-null object
source            2075 non-null object
text              2075 non-null object
retweeted_status_id   81 non-null float64
retweeted_status_user_id 81 non-null float64
retweeted_status_timestamp 81 non-null object
expanded_urls       2075 non-null object
rating_numerator     2075 non-null int64
rating_denominator    2075 non-null int64
name               2075 non-null object
doggo              2075 non-null object
floofer            2075 non-null object
```

```

pupper                2075 non-null object
puppo                 2075 non-null object
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(7), int64(4), object(14)
memory usage: 427.6+ KB

```

```

[14]: print ('twitter archive size: ', len(twitter_archive))
      print ('image predictions size: ', len(image_predictions))
      print ('merged dataframe size: ', len(merged_df))

```

```

twitter archive size: 2356
image predictions size: 2075
merged dataframe size: 2075

```

The size of the new merged dataframe is the same as the image predictions dataframe, which means that all the records from image\_predictions were kept.

## 0.4 Dataset 3: Twitter via API

### 0.4.1 Set up Twitter API via tweepy

```

[ ]: import tweepy

TWITTER_CONSUMER_KEY = ''
TWITTER_CONSUMER_SECRET = ''
ACCESS_TOKEN = ''
ACCESS_SECRET = ''

auth = tweepy.OAuthHandler(TWITTER_CONSUMER_KEY, TWITTER_CONSUMER_SECRET)
auth.set_access_token(ACCESS_TOKEN, ACCESS_SECRET)

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

```



#### 0.4.2 Download WeRateDogs Twitter archive. Takes around 30 mins.

```
[ ]: # create an empty array to store dictionaries retrieved via API
tweets = []
missing_tweets = []

# use tweet_id's from our dataframe to retrieve original tweets
for i in merged_df.tweet_id:
    try:
        tweets.append (api.get_status(i, tweet_mode='extended'))
    except:
        missing_tweets.append(i)
        print ('tweet #', i, ' could not be located')

# write downloaded tweets to a json file and store it locally
with open('tweets.json', 'w') as outfile:
    json.dump(tweets, outfile)
```

#### 0.4.3 Read the downloaded and saved archive from a local .json file

```
[15]: tweets = pd.read_json ('tweets.json')
```

```
[16]: tweets.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2061 entries, 0 to 2060
Data columns (total 28 columns):
contributors          0 non-null float64
coordinates           0 non-null float64
created_at            2061 non-null datetime64[ns]
display_text_range    2061 non-null object
entities              2061 non-null object
extended_entities      2061 non-null object
favorite_count        2061 non-null int64
favorited             2061 non-null bool
full_text             2061 non-null object
geo                   0 non-null float64
id                    2061 non-null int64
id_str                2061 non-null int64
in_reply_to_screen_name 23 non-null object
in_reply_to_status_id  23 non-null float64
in_reply_to_status_id_str 23 non-null float64
in_reply_to_user_id     23 non-null float64
in_reply_to_user_id_str 23 non-null float64
is_quote_status        2061 non-null bool
lang                  2061 non-null object
place                 1 non-null object
```

```

possibly_sensitive          2061 non-null bool
possibly_sensitive_appealable 2061 non-null bool
retweet_count               2061 non-null int64
retweeted                   2061 non-null bool
retweeted_status            74 non-null object
source                      2061 non-null object
truncated                   2061 non-null bool
user                        2061 non-null object
dtypes: bool(6), datetime64[ns](1), float64(7), int64(4), object(10)
memory usage: 366.4+ KB

```

```
[17]: tweets.head()
```

```

[17]:   contributors  coordinates          created_at display_text_range \
0         NaN         NaN 2017-08-01 16:23:56          [0, 85]
1         NaN         NaN 2017-08-01 00:17:27          [0, 138]
2         NaN         NaN 2017-07-31 00:18:03          [0, 121]
3         NaN         NaN 2017-07-30 15:58:51          [0, 79]
4         NaN         NaN 2017-07-29 16:00:24          [0, 138]

                                     entities \
0  {'hashtags': [], 'symbols': [], 'user_mentions...
1  {'hashtags': [], 'symbols': [], 'user_mentions...
2  {'hashtags': [], 'symbols': [], 'user_mentions...
3  {'hashtags': [], 'symbols': [], 'user_mentions...
4  {'hashtags': [{'text': 'BarkWeek', 'indices': ...

                                     extended_entities  favorite_count \
0  {'media': [{'id': 892420639486877696, 'id_str'...      36940
1  {'media': [{'id': 892177413194625024, 'id_str'...      31781
2  {'media': [{'id': 891815175371796480, 'id_str'...      23952
3  {'media': [{'id': 891689552724799489, 'id_str'...      40263
4  {'media': [{'id': 891327551943041024, 'id_str'...      38458

    favorited          full_text  geo ... \
0      False  This is Phineas. He's a mystical boy. Only eve...  NaN  ...
1      False  This is Tilly. She's just checking pup on you...  NaN  ...
2      False  This is Archie. He is a rare Norwegian Pouncin...  NaN  ...
3      False  This is Darla. She commenced a snooze mid meal...  NaN  ...
4      False  This is Franklin. He would like you to stop ca...  NaN  ...

    lang  place  possibly_sensitive  possibly_sensitive_appealable \
0     en  None                    False                          False
1     en  None                    False                          False
2     en  None                    False                          False
3     en  None                    False                          False
4     en  None                    False                          False

```

	retweet_count	retweeted	retweeted_status	\
0	7873	False	NaN	
1	5844	False	NaN	
2	3859	False	NaN	
3	8042	False	NaN	
4	8701	False	NaN	

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

	user
0	{'id': 4196983835, 'id_str': '4196983835', 'na...
1	{'id': 4196983835, 'id_str': '4196983835', 'na...
2	{'id': 4196983835, 'id_str': '4196983835', 'na...
3	{'id': 4196983835, 'id_str': '4196983835', 'na...
4	{'id': 4196983835, 'id_str': '4196983835', 'na...

[5 rows x 28 columns]

#### 0.4.4 Merge tweets with two previous datasets

```
[18]: tweets.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2061 entries, 0 to 2060
Data columns (total 28 columns):
contributors      0 non-null float64
coordinates       0 non-null float64
created_at        2061 non-null datetime64[ns]
display_text_range 2061 non-null object
entities          2061 non-null object
extended_entities 2061 non-null object
favorite_count    2061 non-null int64
favorited         2061 non-null bool
full_text         2061 non-null object
geo              0 non-null float64
id               2061 non-null int64
id_str           2061 non-null int64
in_reply_to_screen_name 23 non-null object
in_reply_to_status_id 23 non-null float64
in_reply_to_status_id_str 23 non-null float64
in_reply_to_user_id 23 non-null float64
```

```

in_reply_to_user_id_str      23 non-null float64
is_quote_status              2061 non-null bool
lang                         2061 non-null object
place                        1 non-null object
possibly_sensitive           2061 non-null bool
possibly_sensitive_appealable 2061 non-null bool
retweet_count                2061 non-null int64
retweeted                    2061 non-null bool
retweeted_status             74 non-null object
source                       2061 non-null object
truncated                    2061 non-null bool
user                         2061 non-null object
dtypes: bool(6), datetime64[ns](1), float64(7), int64(4), object(10)
memory usage: 366.4+ KB

```

tweets JSON has two representations of ID - `int` and `str`. Twitter documentation recommends using the `str` representation as “some programming languages may have difficulty / silent defects in interpreting `[int id]`”.

Let's see whether there is any difference between the records.

```
[19]: # how many tweets have mismatching `id` and `id_str` record
len(tweets[(tweets['id'] - tweets['id_str'])!=0])
```

[19]: 718

That's quite a bit. More than 1/3 of mismatches.

After a bit of research it appeared that the `id_str` column gets corrupted at the import stage - it gets automatically converted into an `int64` and corrupted along the way. To prevent this from happening - it's important to prevent `read_json` from inferring datatypes.

Pandas GitHub issue on the subject is [#20608](#)

```
[20]: tweets = pd.read_json ('tweets.json', dtype=False)
```

```
[21]: len(tweets[(tweets['id'] - tweets['id_str'].astype(int))!=0])
```

[21]: 0

```
[22]: tweets.info()
```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2061 entries, 0 to 2060
Data columns (total 28 columns):
contributors      0 non-null object
coordinates        0 non-null object
created_at        2061 non-null datetime64[ns]
display_text_range 2061 non-null object
entities           2061 non-null object

```

```

extended_entities      2061 non-null object
favorite_count          2061 non-null int64
favorited               2061 non-null bool
full_text              2061 non-null object
geo                     0 non-null object
id                      2061 non-null int64
id_str                 2061 non-null object
in_reply_to_screen_name 23 non-null object
in_reply_to_status_id   23 non-null float64
in_reply_to_status_id_str 23 non-null object
in_reply_to_user_id     23 non-null float64
in_reply_to_user_id_str 23 non-null object
is_quote_status         2061 non-null bool
lang                   2061 non-null object
place                  1 non-null object
possibly_sensitive      2061 non-null bool
possibly_sensitive_appealable 2061 non-null bool
retweet_count           2061 non-null int64
retweeted               2061 non-null bool
retweeted_status        74 non-null object
source                 2061 non-null object
truncated               2061 non-null bool
user                   2061 non-null object
dtypes: bool(6), datetime64[ns](1), float64(2), int64(3), object(16)
memory usage: 366.4+ KB

```

Let's merge tweets dataframe with the other two.

```
[23]: tweets['tweet_id'] = tweets['id']
      we_rate_dogs = pd.merge(merged_df, tweets, how='inner')
```

Now let's see how much was merged

```
[24]: len(we_rate_dogs) - len(tweets)
```

```
[24]: 0
```

The two are the same length which means that all records were merged. Good.

Let's take a quick overview of the complete merged dataset that we've created.

```
[25]: we_rate_dogs.head()
```

```
[25]:
```

	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 \
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

	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...

	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

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

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

	lang	place	possibly_sensitive	possibly_sensitive_appealable	retweet_count \
0	en	None	False	False	7873
1	en	None	False	False	5844
2	en	None	False	False	3859
3	en	None	False	False	8042
4	en	None	False	False	8701

	retweeted	retweeted_status	truncated \
0	False	NaN	False
1	False	NaN	False
2	False	NaN	False

```

3      False      NaN      False
4      False      NaN      False

```

```

                                user
0  {'id': 4196983835, 'id_str': '4196983835', 'na...
1  {'id': 4196983835, 'id_str': '4196983835', 'na...
2  {'id': 4196983835, 'id_str': '4196983835', 'na...
3  {'id': 4196983835, 'id_str': '4196983835', 'na...
4  {'id': 4196983835, 'id_str': '4196983835', 'na...

```

```
[5 rows x 53 columns]
```

```
[26]: we_rate_dogs.info()
```

```

<class 'pandas.core.frame.DataFrame'>
Int64Index: 2061 entries, 0 to 2060
Data columns (total 53 columns):
tweet_id                2061 non-null int64
in_reply_to_status_id   23 non-null float64
in_reply_to_user_id     23 non-null float64
timestamp               2061 non-null object
source                  2061 non-null object
text                    2061 non-null object
retweeted_status_id     74 non-null float64
retweeted_status_user_id 74 non-null float64
retweeted_status_timestamp 74 non-null object
expanded_urls           2061 non-null object
rating_numerator        2061 non-null int64
rating_denominator      2061 non-null int64
name                    2061 non-null object
doggo                   2061 non-null object
floofer                 2061 non-null object
pupper                 2061 non-null object
puppo                   2061 non-null object
jpg_url                 2061 non-null object
img_num                 2061 non-null int64
p1                      2061 non-null object
p1_conf                 2061 non-null float64
p1_dog                  2061 non-null bool
p2                      2061 non-null object
p2_conf                 2061 non-null float64
p2_dog                  2061 non-null bool
p3                      2061 non-null object
p3_conf                 2061 non-null float64
p3_dog                  2061 non-null bool
contributors            0 non-null object
coordinates             0 non-null object

```

```

created_at          2061 non-null datetime64[ns]
display_text_range  2061 non-null object
entities            2061 non-null object
extended_entities   2061 non-null object
favorite_count      2061 non-null int64
favorited           2061 non-null bool
full_text           2061 non-null object
geo                 0 non-null object
id                  2061 non-null int64
id_str              2061 non-null object
in_reply_to_screen_name 23 non-null object
in_reply_to_status_id_str 23 non-null object
in_reply_to_user_id_str 23 non-null object
is_quote_status     2061 non-null bool
lang                2061 non-null object
place               1 non-null object
possibly_sensitive  2061 non-null bool
possibly_sensitive_appealable 2061 non-null bool
retweet_count       2061 non-null int64
retweeted           2061 non-null bool
retweeted_status    74 non-null object
truncated           2061 non-null bool
user                2061 non-null object
dtypes: bool(9), datetime64[ns](1), float64(7), int64(7), object(29)
memory usage: 742.7+ KB

```

How many columns of data do we have after merging all datasets.

```
[27]: print (len(we_rate_dogs.columns))
```

53

## 0.5 Duplicate, zero and redundant data

First let's assess whether there are any columns that contain duplicate data, no data whatsoever or that are irrelevant for the purposes of our analysis. Let's make empty lists which we will populate over the course of our assessment and drop remove them from the dataframe.

### 0.5.1 Duplicate columns

Some of the data is duplicated across columns

```
[28]: # make an empty list to hold column names with duplicate data
duplicate_columns = []
```

Tweet data structure duplicates certain columns in `int64` and `str` representations to prevent being corrupted. Let's check our records are intact and get rid of the columns we don't need.

These are `id`, `in_reply_to_user_id` and `in_reply_to_status_id`



```
[29]: # store the in_reply_to_status_id_str and in_reply_to_status_id columns in
      ↳Series
      ID_str = we_rate_dogs[we_rate_dogs.id_str.notna()].id_str.astype(int)
      ID = we_rate_dogs[we_rate_dogs.id.notna()].id
      # subtracting them from each other and summing the output - would flag whether
      ↳there're any differences between the two series
      print (sum (ID_str - ID))
```

0

columns are identical, so we're free to remove one of them.

```
[31]: duplicate_columns.append('id_str')
```

```
[32]: # let's store the in_reply_to_status_id_str and in_reply_to_status_id columns
      ↳in Series
      IRTSID_str = we_rate_dogs[we_rate_dogs.in_reply_to_status_id_str.notna()].
      ↳in_reply_to_status_id_str.astype(int)
      IRTSID = we_rate_dogs[we_rate_dogs.in_reply_to_status_id.notna()].
      ↳in_reply_to_status_id
      # subtracting them from each other and summing the output - would flag whether
      ↳there're any differences between the two series
      print (sum (IRTSID_str - IRTSID))
```

0.0

columns are identical, so we're free to remove one of them.

```
[33]: duplicate_columns.append('in_reply_to_status_id_str')
```

```
[34]: # let's store the in_reply_to_user_id_str and in_reply_to_user_id columns in
      ↳Series
      IRTUID_str = we_rate_dogs[we_rate_dogs.in_reply_to_user_id_str.notna()].
      ↳in_reply_to_user_id_str.astype(int)
      IRTUID = we_rate_dogs[we_rate_dogs.in_reply_to_user_id.notna()].
      ↳in_reply_to_user_id
      # subtracting them from each other and summing the output - would flag whether
      ↳there're any differences between the two series
      print (sum (IRTUID_str - IRTUID))
```

0.0

columns are identical, so we're free to remove one of them.

```
[35]: duplicate_columns.append('in_reply_to_user_id_str')
```

timestamp and created\_at columns probably contain identical set of records. Let's subtract two columns from each other and see how many unique differences are there.

```
[36]: # we have to remove timezone data to perform arithmetic on timestamps
column_created = we_rate_dogs.created_at.dt.tz_localize(None)
column_timestamp = we_rate_dogs.timestamp.apply(lambda x: pd.Timestamp(x)).dt.
    ↳tz_localize(None)

(column_created - column_timestamp).unique()
```

```
[36]: array([0], dtype='timedelta64[ns]')
```

There's only one unique value and that value is 0. We can conclude that both columns contain identical sets of data. Therefore let's add one of them to the `duplicate_columns` list for future removal. As `created_at` is the original field from tweet json and is represented in correct data type - let's keep it and remove the `timestamp` column.

columns are identical, so we're free to remove one of them.

```
[37]: duplicate_columns.append('timestamp')
```

```
[38]: print ('duplicate_columns: ', duplicate_columns)
```

```
duplicate_columns: ['id_str', 'id_str', 'in_reply_to_status_id_str',
'in_reply_to_user_id_str', 'timestamp']
```

Two other columns look suspiciously similarly named: `tweet_id` and `id`. Let's check if they're any different from each other.

```
[39]: sum (we_rate_dogs.tweet_id - we_rate_dogs.id)
```

```
[39]: 0
```

columns are identical, so we're free to remove one of them.

```
[40]: duplicate_columns.append('tweet_id')
```

Columns to be removed are:

```
[54]: duplicate_columns
```

```
[54]: ['in_reply_to_status_id_str',
'in_reply_to_user_id_str',
'timestamp',
'tweet_id',
'id_str']
```

## 0.5.2 Zero columns

```
[55]: # let's make an empty list to hold column names with no data in them
zero_columns = []
```

Summing data in columns highlights some of the empty variables.

```
[56]: zeros = we_rate_dogs.sum(axis=0) == 0
```

```
[57]: zeros.index[zeros]
```

```
[57]: Index(['contributors', 'coordinates', 'favorited', 'geo', 'is_quote_status',  
        'possibly_sensitive', 'possibly_sensitive_appealable', 'retweeted',  
        'truncated'],  
        dtype='object')
```

```
[58]: # make list of all zero-value columns  
zero_columns.extend(we_rate_dogs[zeros.index[zeros]].columns)
```

### 0.5.3 Redundant columns

some of the data in this set is not relevant to our future analysis. let's put it aside.

```
[59]: # let's make an empty list to hold column names with data not pertinent to our  
      ↪analysis  
redundant_columns = []
```

It seems that there is only one record in the 'place' column. What is it?

```
[60]: we_rate_dogs[we_rate_dogs.place.notnull()].place
```

```
[60]: 686      {'id': '7356b662670b2c31', 'url': 'https://api...  
      Name: place, dtype: object
```

Let's store this geographic location in a separate variable and remove the column.

```
[61]: wrd_place = we_rate_dogs.iloc[686]
```

Retweets and status replies comprise only a small fraction of tweets for this account. Let's store them in separate dataframes and remove from our main analysis.

```
[63]: for i in we_rate_dogs.columns:  
      c = we_rate_dogs[i].notna()  
      c = len(c.index[c])  
      if 0<c<len(we_rate_dogs):  
          redundant_columns.append(i)  
      print (c, ' : ', i)
```

```
23 : in_reply_to_status_id  
23 : in_reply_to_user_id  
74 : retweeted_status_id  
74 : retweeted_status_user_id  
74 : retweeted_status_timestamp  
23 : in_reply_to_screen_name  
23 : in_reply_to_status_id_str  
23 : in_reply_to_user_id_str
```

```
1 : place
74 : retweeted_status
```

```
[64]: replies_01 = we_rate_dogs[we_rate_dogs.in_reply_to_status_id.notna()]
      replies_02 = we_rate_dogs[we_rate_dogs.in_reply_to_user_id.notna()]
      retweets_01 = we_rate_dogs[we_rate_dogs.retweeted_status.notna()]
      retweets_02 = we_rate_dogs[we_rate_dogs.retweeted_status_id.notna()]
      retweets_03 = we_rate_dogs[we_rate_dogs.retweeted_status_user_id.notna()]
      retweets_04 = we_rate_dogs[we_rate_dogs.retweeted_status_timestamp.notna()]
```

As we're only looking into tweets from a single account - the column `user` just duplicates the same information in every record. Let's store it to a separate variable and get rid of the whole column.

```
[65]: we_rate_dogs[we_rate_dogs.user.apply(lambda x: x['id']) != 4196983835]
```

[65]: Empty DataFrame

```
Columns: [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, contributors, coordinates, created_at,
display_text_range, entities, extended_entities, favorite_count, favorited,
full_text, geo, id, id_str, in_reply_to_screen_name, in_reply_to_status_id_str,
in_reply_to_user_id_str, is_quote_status, lang, place, possibly_sensitive,
possibly_sensitive_appealable, retweet_count, retweeted, retweeted_status,
truncated, user]
Index: []
```

```
[0 rows x 53 columns]
```

```
[66]: wrd_user = we_rate_dogs.iloc[0].user
      redundant_columns.append('user')
```

```
[67]: redundant_columns
```

```
[67]: ['in_reply_to_status_id',
      'in_reply_to_user_id',
      'retweeted_status_id',
      'retweeted_status_user_id',
      'retweeted_status_timestamp',
      'in_reply_to_screen_name',
      'in_reply_to_status_id_str',
      'in_reply_to_user_id_str',
      'place',
      'retweeted_status',
      'user']
```

## 0.6 Incorrect data types.

Some of the columns are `object` type, whereas they can be better represented by more specific variable types. Namely:

```
doggo                                object >> bool floofer                                object
>> bool pupper                      object >> bool puppo
object >> bool lang                  object >> category
```

## 0.7 Badly formatted data

### 0.7.1 expanded\_urls column

`expanded_urls` column contains long strings of multiple, often duplicate, URLs. They need to be parsed, duplicates removed, and stored in lists. Let's look how such an entry looks like.

```
[68]: we_rate_dogs.expanded_urls[145]
```

```
[68]: 'https://www.gofundme.com/meeko-needs-heart-surgery,https://twitter.com/dog_rates/status/857393404942143489/photo/1,https://twitter.com/dog_rates/status/857393404942143489/photo/1,https://twitter.com/dog_rates/status/857393404942143489/photo/1,https://twitter.com/dog_rates/status/857393404942143489/photo/1'
```

### 0.7.2 source column

`source` column contains messy long URLs, which, when parsed correctly can be best represented by a `category` type variable.

```
[69]: we_rate_dogs.source[145]
```

```
[69]: '<a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>'
```

### 0.7.3 Hashtags

Hashtags are hidden deep inside hierarchical dictionaries. As they are very valuable analysis material - they'd rather be unpacked into a separate column.

```
[70]: we_rate_dogs.entities.iloc[10]['hashtags']
```

```
[70]: [{'text': 'BarkWeek', 'indices': [121, 130]}]
```

After assessing the data - it's time to clean it.

Let's keep the original in place and work on the copy.

```
[71]: wrd = we_rate_dogs.copy()
```

## 0.8 Quality issues

### 0.8.1 Redundant data

**Define** get rid of retweet and reply data as it's not relevant to our analysis

```
[72]: redundant_columns
```

```
[72]: ['in_reply_to_status_id',  
      'in_reply_to_user_id',  
      'retweeted_status_id',  
      'retweeted_status_user_id',  
      'retweeted_status_timestamp',  
      'in_reply_to_screen_name',  
      'in_reply_to_status_id_str',  
      'in_reply_to_user_id_str',  
      'place',  
      'retweeted_status',  
      'user']
```

**Code**

```
[73]: wrd.drop(columns=redundant_columns, axis=1, inplace=True)
```

**Test**

```
[74]: wrd.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
Int64Index: 2061 entries, 0 to 2060  
Data columns (total 42 columns):  
tweet_id                2061 non-null int64  
timestamp               2061 non-null object  
source                  2061 non-null object  
text                    2061 non-null object  
expanded_urls           2061 non-null object  
rating_numerator        2061 non-null int64  
rating_denominator      2061 non-null int64  
name                    2061 non-null object  
doggo                   2061 non-null object  
floofer                 2061 non-null object  
pupper                  2061 non-null object  
puppo                   2061 non-null object  
jpg_url                 2061 non-null object  
img_num                 2061 non-null int64  
p1                      2061 non-null object  
p1_conf                 2061 non-null float64  
p1_dog                  2061 non-null bool  
p2                      2061 non-null object  
p2_conf                 2061 non-null float64
```

```

p2_dog          2061 non-null bool
p3              2061 non-null object
p3_conf         2061 non-null float64
p3_dog         2061 non-null bool
contributors    0 non-null object
coordinates     0 non-null object
created_at      2061 non-null datetime64[ns]
display_text_range 2061 non-null object
entities        2061 non-null object
extended_entities 2061 non-null object
favorite_count  2061 non-null int64
favorited       2061 non-null bool
full_text       2061 non-null object
geo             0 non-null object
id              2061 non-null int64
id_str          2061 non-null object
is_quote_status 2061 non-null bool
lang            2061 non-null object
possibly_sensitive 2061 non-null bool
possibly_sensitive_appealable 2061 non-null bool
retweet_count   2061 non-null int64
retweeted       2061 non-null bool
truncated       2061 non-null bool
dtypes: bool(9), datetime64[ns](1), float64(3), int64(7), object(22)
memory usage: 565.6+ KB

```

## 0.8.2 Zero data

**Define** Columns with zero data are irrelevant for our analysis. Let's just drop them.

```
[75]: zero_columns
```

```
[75]: ['contributors',
      'coordinates',
      'favorited',
      'geo',
      'is_quote_status',
      'possibly_sensitive',
      'possibly_sensitive_appealable',
      'retweeted',
      'truncated']

```

## Code

```
[76]: wrd.drop(columns=zero_columns, axis=1, inplace=True)
```

## Test

```
[77]: wrd.info()
```

```

<class 'pandas.core.frame.DataFrame'>
Int64Index: 2061 entries, 0 to 2060
Data columns (total 33 columns):
tweet_id          2061 non-null int64
timestamp         2061 non-null object
source            2061 non-null object
text              2061 non-null object
expanded_urls     2061 non-null object
rating_numerator  2061 non-null int64
rating_denominator 2061 non-null int64
name              2061 non-null object
doggo             2061 non-null object
floofer           2061 non-null object
pupper           2061 non-null object
puppo            2061 non-null object
jpg_url          2061 non-null object
img_num          2061 non-null int64
p1               2061 non-null object
p1_conf          2061 non-null float64
p1_dog           2061 non-null bool
p2               2061 non-null object
p2_conf          2061 non-null float64
p2_dog           2061 non-null bool
p3               2061 non-null object
p3_conf          2061 non-null float64
p3_dog           2061 non-null bool
created_at       2061 non-null datetime64[ns]
display_text_range 2061 non-null object
entities         2061 non-null object
extended_entities 2061 non-null object
favorite_count    2061 non-null int64
full_text        2061 non-null object
id               2061 non-null int64
id_str           2061 non-null object
lang             2061 non-null object
retweet_count     2061 non-null int64
dtypes: bool(3), datetime64[ns](1), float64(3), int64(7), object(19)
memory usage: 505.2+ KB

```

### 0.8.3 Duplicate data

#### Define

```
[78]: duplicate_columns
```

```

[78]: ['in_reply_to_status_id_str',
      'in_reply_to_user_id_str',
      'timestamp',
      'tweet_id',

```



```
'id_str']
```

**Code** As two reply columns we've already removed with redundant data. Let's only remove id, id\_str and timestamp now.

```
[79]: wrd.drop(columns=['id','id_str','timestamp'], axis=1, inplace=True)
```

**Test**

```
[80]: wrd.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 2061 entries, 0 to 2060
Data columns (total 30 columns):
tweet_id          2061 non-null int64
source            2061 non-null object
text              2061 non-null object
expanded_urls     2061 non-null object
rating_numerator  2061 non-null int64
rating_denominator 2061 non-null int64
name              2061 non-null object
doggo             2061 non-null object
floofer           2061 non-null object
pupper           2061 non-null object
puppo             2061 non-null object
jpg_url           2061 non-null object
img_num           2061 non-null int64
p1                2061 non-null object
p1_conf           2061 non-null float64
p1_dog            2061 non-null bool
p2                2061 non-null object
p2_conf           2061 non-null float64
p2_dog            2061 non-null bool
p3                2061 non-null object
p3_conf           2061 non-null float64
p3_dog            2061 non-null bool
created_at        2061 non-null datetime64[ns]
display_text_range 2061 non-null object
entities          2061 non-null object
extended_entities  2061 non-null object
favorite_count    2061 non-null int64
full_text         2061 non-null object
lang              2061 non-null object
retweet_count     2061 non-null int64
dtypes: bool(3), datetime64[ns](1), float64(3), int64(6), object(17)
memory usage: 456.9+ KB
```

#### 0.8.4 Dog columns to bools

Define `doggo`, `floofer`, `pupper`, `puppo` columns are better represented as bools.

##### Code

```
[81]: def to_bool(x):
        if x=='None':
            return False
        else:
            return True

wrd.doggo = wrd.doggo.apply(to_bool)
wrd.floofer = wrd.floofer.apply(to_bool)
wrd.pupper = wrd.pupper.apply(to_bool)
wrd.puppo = wrd.puppo.apply(to_bool)
```

##### Test

```
[82]: wrd.info()

<class 'pandas.core.frame.DataFrame'>
Int64Index: 2061 entries, 0 to 2060
Data columns (total 30 columns):
tweet_id          2061 non-null int64
source            2061 non-null object
text              2061 non-null object
expanded_urls     2061 non-null object
rating_numerator  2061 non-null int64
rating_denominator 2061 non-null int64
name              2061 non-null object
doggo             2061 non-null bool
floofer           2061 non-null bool
pupper            2061 non-null bool
puppo             2061 non-null bool
jpg_url           2061 non-null object
img_num           2061 non-null int64
p1                2061 non-null object
p1_conf           2061 non-null float64
p1_dog            2061 non-null bool
p2                2061 non-null object
p2_conf           2061 non-null float64
p2_dog            2061 non-null bool
p3                2061 non-null object
p3_conf           2061 non-null float64
p3_dog            2061 non-null bool
created_at        2061 non-null datetime64[ns]
display_text_range 2061 non-null object
entities           2061 non-null object
```

```

extended_entities      2061 non-null object
favorite_count         2061 non-null int64
full_text              2061 non-null object
lang                   2061 non-null object
retweet_count          2061 non-null int64
dtypes: bool(7), datetime64[ns](1), float64(3), int64(6), object(13)
memory usage: 400.5+ KB

```

### 0.8.5 Lang column to category

**Define** Convert lang column into category.

#### Code

```
[83]: wrd.lang = wrd.lang.astype('category')
```

#### Test

```
[84]: wrd.info()
```

```

<class 'pandas.core.frame.DataFrame'>
Int64Index: 2061 entries, 0 to 2060
Data columns (total 30 columns):
tweet_id          2061 non-null int64
source            2061 non-null object
text              2061 non-null object
expanded_urls     2061 non-null object
rating_numerator  2061 non-null int64
rating_denominator 2061 non-null int64
name              2061 non-null object
doggo             2061 non-null bool
floofer           2061 non-null bool
pupper            2061 non-null bool
puppo             2061 non-null bool
jpg_url           2061 non-null object
img_num           2061 non-null int64
p1                2061 non-null object
p1_conf           2061 non-null float64
p1_dog            2061 non-null bool
p2                2061 non-null object
p2_conf           2061 non-null float64
p2_dog            2061 non-null bool
p3                2061 non-null object
p3_conf           2061 non-null float64
p3_dog            2061 non-null bool
created_at        2061 non-null datetime64[ns]
display_text_range 2061 non-null object
entities          2061 non-null object
extended_entities  2061 non-null object

```

```

favorite_count      2061 non-null int64
full_text           2061 non-null object
lang                2061 non-null category
retweet_count       2061 non-null int64
dtypes: bool(7), category(1), datetime64[ns](1), float64(3), int64(6),
object(12)
memory usage: 386.6+ KB

```

## 0.8.6 Display\_text\_range into int

**Define** display\_text\_range column can be effectively reduced to a single int rather than a list.

### Code

```

[85]: wrd['display_text_end'] = wrd.display_text_range.apply(lambda x: x[1]).
      ↪astype(int)
      wrd.drop(columns='display_text_range', inplace=True)

```

### Test

```

[86]: wrd.info()

```

```

<class 'pandas.core.frame.DataFrame'>
Int64Index: 2061 entries, 0 to 2060
Data columns (total 30 columns):
tweet_id      2061 non-null int64
source        2061 non-null object
text          2061 non-null object
expanded_urls  2061 non-null object
rating_numerator  2061 non-null int64
rating_denominator  2061 non-null int64
name          2061 non-null object
doggo         2061 non-null bool
floofer       2061 non-null bool
pupper        2061 non-null bool
puppo         2061 non-null bool
jpg_url       2061 non-null object
img_num       2061 non-null int64
p1            2061 non-null object
p1_conf       2061 non-null float64
p1_dog        2061 non-null bool
p2            2061 non-null object
p2_conf       2061 non-null float64
p2_dog        2061 non-null bool
p3            2061 non-null object
p3_conf       2061 non-null float64
p3_dog        2061 non-null bool
created_at    2061 non-null datetime64[ns]
entities      2061 non-null object

```

```

extended_entities      2061 non-null object
favorite_count         2061 non-null int64
full_text              2061 non-null object
lang                   2061 non-null category
retweet_count          2061 non-null int64
display_text_end       2061 non-null int64
dtypes: bool(7), category(1), datetime64[ns](1), float64(3), int64(7),
object(11)
memory usage: 386.6+ KB

```

### 0.8.7 Parse source column and make it categorical variable

**Define** There is probably a limited set of applications used to post tweets. Let's extract those from the long strings and categorise them.

#### Code

```
[87]: wrd.source = wrd.source.apply(lambda x: x.split('>')[1].split('<')[0]).
      ↪astype('category')
```

#### Test

```
[88]: wrd.source.unique()
```

```
[88]: [Twitter for iPhone, Twitter Web Client, TweetDeck]
Categories (3, object): [Twitter for iPhone, Twitter Web Client, TweetDeck]
```

```
[89]: wrd.info()
```

```

<class 'pandas.core.frame.DataFrame'>
Int64Index: 2061 entries, 0 to 2060
Data columns (total 30 columns):
tweet_id      2061 non-null int64
source        2061 non-null category
text          2061 non-null object
expanded_urls 2061 non-null object
rating_numerator 2061 non-null int64
rating_denominator 2061 non-null int64
name          2061 non-null object
doggo         2061 non-null bool
floofer       2061 non-null bool
pupper        2061 non-null bool
puppo         2061 non-null bool
jpg_url       2061 non-null object
img_num       2061 non-null int64
p1            2061 non-null object
p1_conf       2061 non-null float64
p1_dog        2061 non-null bool
p2            2061 non-null object

```

```

p2_conf          2061 non-null float64
p2_dog           2061 non-null bool
p3               2061 non-null object
p3_conf          2061 non-null float64
p3_dog           2061 non-null bool
created_at       2061 non-null datetime64[ns]
entities         2061 non-null object
extended_entities 2061 non-null object
favorite_count   2061 non-null int64
full_text        2061 non-null object
lang             2061 non-null category
retweet_count    2061 non-null int64
display_text_end 2061 non-null int64
dtypes: bool(7), category(2), datetime64[ns](1), float64(3), int64(7),
object(10)
memory usage: 372.7+ KB

```

### 0.8.8 Duplicate data in entities and extended\_entities columns

Define entities column already probably includes all the information from the extended\_entities column.

```

[121]: for i in range(0, len(wrd)):
        if wrd.iloc[i].entities['media'][0] != wrd.iloc[i].
        extended_entities['media'][0]:
            print (i)
            print (wrd.iloc[i].entities['media'][0])
            print ('-----')
            print (wrd.iloc[i].extended_entities['media'][0])
            print ('=====')

```

15

```

{'id': 889278779352338437, 'id_str': '889278779352338437', 'indices': [139,
162], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/889278779352338437/p
u/img/V1bFB3v8H8VwzVNY.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi
deo_thumb/889278779352338437/pu/img/V1bFB3v8H8VwzVNY.jpg', 'url':
'https://t.co/WpHvrQedPb', 'display_url': 'pic.twitter.com/WpHvrQedPb',
'expanded_url':
'https://twitter.com/dog_rates/status/889278841981685760/video/1', 'type':
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'large':
{'w': 320, 'h': 568, 'resize': 'fit'}, 'small': {'w': 320, 'h': 568, 'resize':
'fit'}, 'medium': {'w': 320, 'h': 568, 'resize': 'fit'}}, 'features': {}}
-----
{'id': 889278779352338437, 'id_str': '889278779352338437', 'indices': [139,
162], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/889278779352338437/p
u/img/V1bFB3v8H8VwzVNY.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi
deo_thumb/889278779352338437/pu/img/V1bFB3v8H8VwzVNY.jpg', 'url':

```

```
'https://t.co/WpHvrQedPb', 'display_url': 'pic.twitter.com/WpHvrQedPb',
'expanded_url':
'https://twitter.com/dog_rates/status/889278841981685760/video/1', 'type':
'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'large':
{'w': 320, 'h': 568, 'resize': 'fit'}, 'small': {'w': 320, 'h': 568, 'resize':
'fit'}, 'medium': {'w': 320, 'h': 568, 'resize': 'fit'}}, 'video_info':
{'aspect_ratio': [40, 71], 'duration_millis': 5935, 'variants':
[{'content_type': 'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_t
w_video/889278779352338437/pu/pl/IfTYoaAW0nRVGj_G.m3u8'}, {'bitrate': 256000,
'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/889278
779352338437/pu/vid/180x320/3G1IRAJBsw-sfUcI.mp4'}]}, 'features': {},
'additional_media_info': {'monetizable': False}}
=====
```

21

```
{'id': 887517108413886465, 'id_str': '887517108413886465', 'indices': [109,
132], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/887517108413886465/p
u/img/WanJKwssZj4VJvL9.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi
deo_thumb/887517108413886465/pu/img/WanJKwssZj4VJvL9.jpg', 'url':
'https://t.co/20VrLAA8ba', 'display_url': 'pic.twitter.com/20VrLAA8ba',
'expanded_url':
'https://twitter.com/dog_rates/status/887517139158093824/video/1', 'type':
'photo', 'sizes': {'small': {'w': 480, 'h': 480, 'resize': 'fit'}, 'thumb':
{'w': 150, 'h': 150, 'resize': 'crop'}, 'medium': {'w': 480, 'h': 480, 'resize':
'fit'}, 'large': {'w': 480, 'h': 480, 'resize': 'fit'}}, 'features': {}}
```

```
-----
{'id': 887517108413886465, 'id_str': '887517108413886465', 'indices': [109,
132], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/887517108413886465/p
u/img/WanJKwssZj4VJvL9.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi
deo_thumb/887517108413886465/pu/img/WanJKwssZj4VJvL9.jpg', 'url':
'https://t.co/20VrLAA8ba', 'display_url': 'pic.twitter.com/20VrLAA8ba',
'expanded_url':
'https://twitter.com/dog_rates/status/887517139158093824/video/1', 'type':
'video', 'sizes': {'small': {'w': 480, 'h': 480, 'resize': 'fit'}, 'thumb':
{'w': 150, 'h': 150, 'resize': 'crop'}, 'medium': {'w': 480, 'h': 480, 'resize':
'fit'}, 'large': {'w': 480, 'h': 480, 'resize': 'fit'}}, 'video_info':
{'aspect_ratio': [1, 1], 'duration_millis': 5133, 'variants': [{'bitrate':
256000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_vide
o/887517108413886465/pu/vid/240x240/Hs2yRQTiDSL7M8C.mp4'}, {'bitrate': 832000,
'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/887517
108413886465/pu/vid/480x480/NpOg7nB9xklNcXr_.mp4'}, {'content_type':
'application/x-mpegURL', 'url':
'https://video.twimg.com/ext_tw_video/887517108413886465/pu/pl/SHwbyNo3VB-
OSZVv.m3u8'}]}, 'features': {}, 'additional_media_info': {'monetizable': False}}
=====
```

23

```
{'id': 887343120832229379, 'id_str': '887343120832229379', 'indices': [89, 112],
'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/887343120832229379/pu/img/
6HSuFrW1lzI_9Mht.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
```

```

umb/887343120832229379/pu/img/6HSuFrW1lzI_9Mht.jpg', 'url':
'https://t.co/WZqNqygEyV', 'display_url': 'pic.twitter.com/WZqNqygEyV',
'expanded_url':
'https://twitter.com/dog_rates/status/887343217045368832/video/1', 'type':
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'medium':
{'w': 1200, 'h': 675, 'resize': 'fit'}, 'small': {'w': 680, 'h': 383, 'resize':
'fit'}, 'large': {'w': 1280, 'h': 720, 'resize': 'fit'}}, 'features': {}}
-----
{'id': 887343120832229379, 'id_str': '887343120832229379', 'indices': [89, 112],
'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/887343120832229379/pu/img/
6HSuFrW1lzI_9Mht.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/887343120832229379/pu/img/6HSuFrW1lzI_9Mht.jpg', 'url':
'https://t.co/WZqNqygEyV', 'display_url': 'pic.twitter.com/WZqNqygEyV',
'expanded_url':
'https://twitter.com/dog_rates/status/887343217045368832/video/1', 'type':
'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'medium':
{'w': 1200, 'h': 675, 'resize': 'fit'}, 'small': {'w': 680, 'h': 383, 'resize':
'fit'}, 'large': {'w': 1280, 'h': 720, 'resize': 'fit'}}, 'video_info':
{'aspect_ratio': [16, 9], 'duration_millis': 17333, 'variants':
[{'content_type': 'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_t
w_video/887343120832229379/pu/pl/IRqa3JWRV-6dT5bW.m3u8'}, {'bitrate': 832000,
'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/887343
120832229379/pu/vid/640x360/MqkCqqvfi68A-8xi.mp4'}, {'bitrate': 2176000,
'content_type': 'video/mp4', 'url':
'https://video.twimg.com/ext_tw_video/887343120832229379/pu/vid/1280x720/FCiTL-
fY7s5I_5eU.mp4'}, {'bitrate': 256000, 'content_type': 'video/mp4', 'url': 'https
://video.twimg.com/ext_tw_video/887343120832229379/pu/vid/320x180/hFsDGePMXqOYp0
yl.mp4'}]}, 'features': {}, 'additional_media_info': {'monetizable': False}}
=====
50
{'id': 881535971568889856, 'id_str': '881535971568889856', 'indices': [131,
154], 'media_url':
'http://pbs.twimg.com/ext_tw_video_thumb/881535971568889856/pu/img/9bawiZ--
8FKyWtkz.jpg', 'media_url_https':
'https://pbs.twimg.com/ext_tw_video_thumb/881535971568889856/pu/img/9bawiZ--
8FKyWtkz.jpg', 'url': 'https://t.co/ghXBIIeQZF', 'display_url':
'pic.twitter.com/ghXBIIeQZF', 'expanded_url':
'https://twitter.com/dog_rates/status/881536004380872706/video/1', 'type':
'photo', 'sizes': {'small': {'w': 480, 'h': 480, 'resize': 'fit'}, 'thumb':
{'w': 150, 'h': 150, 'resize': 'crop'}, 'medium': {'w': 480, 'h': 480, 'resize':
'fit'}, 'large': {'w': 480, 'h': 480, 'resize': 'fit'}}, 'features': {}}
-----
{'id': 881535971568889856, 'id_str': '881535971568889856', 'indices': [131,
154], 'media_url':
'http://pbs.twimg.com/ext_tw_video_thumb/881535971568889856/pu/img/9bawiZ--
8FKyWtkz.jpg', 'media_url_https':
'https://pbs.twimg.com/ext_tw_video_thumb/881535971568889856/pu/img/9bawiZ--
8FKyWtkz.jpg', 'url': 'https://t.co/ghXBIIeQZF', 'display_url':

```



```
'pic.twitter.com/ghXBIIeQZF', 'expanded_url':  
'https://twitter.com/dog_rates/status/881536004380872706/video/1', 'type':  
'video', 'sizes': {'small': {'w': 480, 'h': 480, 'resize': 'fit'}, 'thumb':  
{'w': 150, 'h': 150, 'resize': 'crop'}, 'medium': {'w': 480, 'h': 480, 'resize':  
'fit'}, 'large': {'w': 480, 'h': 480, 'resize': 'fit'}}, 'video_info':  
{'aspect_ratio': [1, 1], 'duration_millis': 13033, 'variants': [{'bitrate':  
256000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_vide  
o/881535971568889856/pu/vid/240x240/_D_Ru1i40DJjZnLa.mp4'}, {'bitrate': 832000,  
'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/881535  
971568889856/pu/vid/480x480/eHoZev4usFv8pDFG.mp4'}, {'content_type':  
'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/8815359715  
68889856/pu/pl/x6e2xfkZo48Hm3u0.m3u8'}]}, 'features': {},  
'additional_media_info': {'monetizable': False}}  
=====
```

59

```
{'id': 879415784908390401, 'id_str': '879415784908390401', 'indices': [83, 106],  
'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/879415784908390401/pu/img/  
cX7XI1TnUsseGET5.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th  
umb/879415784908390401/pu/img/cX7XI1TnUsseGET5.jpg', 'url':  
'https://t.co/UDT7ZkcTgY', 'display_url': 'pic.twitter.com/UDT7ZkcTgY',  
'expanded_url':  
'https://twitter.com/dog_rates/status/879415818425184262/video/1', 'type':  
'photo', 'sizes': {'medium': {'w': 718, 'h': 404, 'resize': 'fit'}, 'thumb':  
{'w': 150, 'h': 150, 'resize': 'crop'}, 'large': {'w': 718, 'h': 404, 'resize':  
'fit'}, 'small': {'w': 680, 'h': 383, 'resize': 'fit'}}, 'features': {}}
```

```
-----  
{'id': 879415784908390401, 'id_str': '879415784908390401', 'indices': [83, 106],  
'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/879415784908390401/pu/img/  
cX7XI1TnUsseGET5.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th  
umb/879415784908390401/pu/img/cX7XI1TnUsseGET5.jpg', 'url':  
'https://t.co/UDT7ZkcTgY', 'display_url': 'pic.twitter.com/UDT7ZkcTgY',  
'expanded_url':  
'https://twitter.com/dog_rates/status/879415818425184262/video/1', 'type':  
'video', 'sizes': {'medium': {'w': 718, 'h': 404, 'resize': 'fit'}, 'thumb':  
{'w': 150, 'h': 150, 'resize': 'crop'}, 'large': {'w': 718, 'h': 404, 'resize':  
'fit'}, 'small': {'w': 680, 'h': 383, 'resize': 'fit'}}, 'video_info':  
{'aspect_ratio': [359, 202], 'duration_millis': 6375, 'variants': [{'bitrate':  
256000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_vide  
o/879415784908390401/pu/vid/318x180/HiOuK7PX8Clzp9V6.mp4'}, {'content_type':  
'application/x-mpegURL', 'url':  
'https://video.twimg.com/ext_tw_video/879415784908390401/pu/pl/BPRZU-  
j_oy3s3yjc.m3u8'}, {'bitrate': 832000, 'content_type': 'video/mp4', 'url': 'http  
s://video.twimg.com/ext_tw_video/879415784908390401/pu/vid/638x360/-FhdelrCgXVtu  
n1S.mp4'}]}, 'features': {}, 'additional_media_info': {'monetizable': False}}  
=====
```

75

```
{'id': 875144175078957056, 'id_str': '875144175078957056', 'indices': [134,  
157], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/875144175078957056/p
```

```

u/img/BRi_l7vUdpb93Knf.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_thumb/875144175078957056/pu/img/BRi_l7vUdpb93Knf.jpg', 'url':
'https://t.co/ogith9ejNj', 'display_url': 'pic.twitter.com/ogith9ejNj',
'expanded_url':
'https://twitter.com/dog_rates/status/875144289856114688/video/1', 'type':
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'small':
{'w': 383, 'h': 680, 'resize': 'fit'}, 'large': {'w': 720, 'h': 1280, 'resize':
'fit'}, 'medium': {'w': 675, 'h': 1200, 'resize': 'fit'}}, 'features': {}}
-----
{'id': 875144175078957056, 'id_str': '875144175078957056', 'indices': [134,
157], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/875144175078957056/p
u/img/BRi_l7vUdpb93Knf.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi
deo_thumb/875144175078957056/pu/img/BRi_l7vUdpb93Knf.jpg', 'url':
'https://t.co/ogith9ejNj', 'display_url': 'pic.twitter.com/ogith9ejNj',
'expanded_url':
'https://twitter.com/dog_rates/status/875144289856114688/video/1', 'type':
'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'small':
{'w': 383, 'h': 680, 'resize': 'fit'}, 'large': {'w': 720, 'h': 1280, 'resize':
'fit'}, 'medium': {'w': 675, 'h': 1200, 'resize': 'fit'}}, 'video_info':
{'aspect_ratio': [9, 16], 'duration_millis': 16778, 'variants':
[{'content_type': 'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_t
w_video/875144175078957056/pu/pl/YwnR7lHYQ0qklz_S.m3u8'}, {'bitrate': 832000,
'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/875144
175078957056/pu/vid/360x640/EY6RY4tS3IRSTEoz.mp4'}, {'bitrate': 256000,
'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/875144
175078957056/pu/vid/180x320/vwJtwWs3433URIJm.mp4'}, {'bitrate': 2176000,
'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/875144
175078957056/pu/vid/720x1280/M9IbYEg_0emZYcfp.mp4'}]}, 'features': {},
'additional_media_info': {'monetizable': False}}
=====
119
{'id': 863553036815355904, 'id_str': '863553036815355904', 'indices': [92, 115],
'media_url':
'http://pbs.twimg.com/ext_tw_video_thumb/863553036815355904/pu/img/B6Dos-
XOD8l82tK7.jpg', 'media_url_https':
'https://pbs.twimg.com/ext_tw_video_thumb/863553036815355904/pu/img/B6Dos-
XOD8l82tK7.jpg', 'url': 'https://t.co/tordvmaaop', 'display_url':
'pic.twitter.com/tordvmaaop', 'expanded_url':
'https://twitter.com/dog_rates/status/863553081350529029/video/1', 'type':
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128

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138

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deco_thumb/859196962498805762/pu/img/-yBpr4-o4GJZECYE.jpg', 'url':
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'https://t.co/NP5JW8LnmW', 'display_url': 'pic.twitter.com/NP5JW8LnmW',
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'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/8522234818  
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vid/320x180/LBQSmxJl5tbJWcuD.mp4'}, { 'bitrate': 832000, 'content_type':  
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172

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'https://pbs.twimg.com/ext_tw_video_thumb/850380153985355777/pu/img/lFouhg-  
EZvJs8eMr.jpg', 'url': 'https://t.co/FXZQtBcnT0', 'display_url':  
'pic.twitter.com/FXZQtBcnT0', 'expanded_url':  
'https://twitter.com/dog_rates/status/850380195714523136/video/1', 'type':  
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'fit'}, 'medium': { 'w': 640, 'h': 800, 'resize': 'fit'}}, 'features': {}}
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-----

```
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'https://pbs.twimg.com/ext_tw_video_thumb/850380153985355777/pu/img/lFouhg-  
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85355777/pu/pl/WHwPWTqDgzhgDyJs.m3u8'}]}, 'features': {},  
'additional_media_info': { 'monetizable': False}}
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209

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```

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'https://t.co/btzf1zTDeQ', 'display_url': 'pic.twitter.com/btzf1zTDeQ',
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', 'description': 'Your Only Source For Professional Dog Ratings Instagram and
Facebook WeRateDogs partnerships@weratedogs.com ', 'url':
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'display_url': 'weratedogs.com', 'indices': [0, 23]}]}}, 'description': {'urls':
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'https://pbs.twimg.com/profile_images/1191848405112426496/lz8cuaiI_normal.jpg',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/4196983835/1565965307',
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'profile_sidebar_fill_color': '000000', 'profile_text_color': '000000',
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'default_profile': False, 'default_profile_image': False, 'can_media_tag': True,
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'notifications': False, 'translator_type': 'none'}}}
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212

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151], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/841311812641533952/p
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deo_thumb/841311812641533952/pu/img/sBUGt8u76n9azPWI.jpg', 'url':
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'expanded_url':
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'photo', 'sizes': {'medium': {'w': 718, 'h': 404, 'resize': 'fit'}, 'thumb':
{'w': 150, 'h': 150, 'resize': 'crop'}, 'large': {'w': 718, 'h': 404, 'resize':
'fit'}, 'small': {'w': 680, 'h': 383, 'resize': 'fit'}}, 'features': {}}
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-----

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u/img/sBUGt8u76n9azPWI.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi
deo_thumb/841311812641533952/pu/img/sBUGt8u76n9azPWI.jpg', 'url':
'https://t.co/9lVAqDEvZ5', 'display_url': 'pic.twitter.com/9lVAqDEvZ5',
'expanded_url':
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'fit'}, 'small': {'w': 680, 'h': 383, 'resize': 'fit'}}, 'video_info':
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_UfM3dJ7XV.mp4'}, {'content_type': 'application/x-mpegURL', 'url': 'https://vide
o.twimg.com/ext_tw_video/841311812641533952/pu/pl/qpjZh06Y6T5s48Yq.m3u8'}]},
'features': {}, 'additional_media_info': {'monetizable': False}}
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260

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u/img/q0qxM0b48fEarmq6.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_thumb/832273373149413377/pu/img/q0qxM0b48fEarmq6.jpg', 'url':  
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{'w': 1200, 'h': 675, 'resize': 'fit'}, 'small': {'w': 680, 'h': 383, 'resize':  
'fit'}, 'large': {'w': 1280, 'h': 720, 'resize': 'fit'}}, 'features': {}}
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```
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deo_thumb/832273373149413377/pu/img/q0qxM0b48fEarmq6.jpg', 'url':  
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273

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'fit'}, 'large': { 'w': 384, 'h': 480, 'resize': 'fit'}}, 'features': {}}
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331

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deo_thumb/821407155391725568/pu/img/AJC07gFJDDBuWNTD.jpg', 'url':
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'expanded_url':
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'fit'}, 'small': {'w': 568, 'h': 320, 'resize': 'fit'}}}, 'features': {}}
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deo_thumb/821407155391725568/pu/img/AJC07gFJDDBuWNTD.jpg', 'url':
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332

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'https://t.co/r8DxA8DYJ2', 'display_url': 'pic.twitter.com/r8DxA8DYJ2',
'expanded_url':
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341
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'fit'}, 'large': {'w': 480, 'h': 270, 'resize': 'fit'}}}, 'features': {}
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356

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{'id': 817827663108771841, 'id_str': '817827663108771841', 'indices': [117, 140], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/817827663108771841/pu/img/e9oi839RGWJR37jF.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_thumb/817827663108771841/pu/img/e9oi839RGWJR37jF.jpg', 'url': 'https://t.co/q2BgNIi30A', 'display_url': 'pic.twitter.com/q2BgNIi30A', 'expanded_url': 'https://twitter.com/dog_rates/status/817827839487737858/video/1', 'type': 'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'small': {'w': 383, 'h': 680, 'resize': 'fit'}, 'medium': {'w': 406, 'h': 720, 'resize': 'fit'}, 'large': {'w': 406, 'h': 720, 'resize': 'fit'}}, 'video_info': {'aspect_ratio': [203, 360], 'duration_millis': 63167, 'variants': [{'bitrate': 256000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/817827663108771841/pu/vid/180x320/IrfbBqsst8qEXxNG.mp4'}, {'bitrate': 832000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/817827663108771841/pu/vid/360x640/O3a0D7xslG80E2QM.mp4'}, {'content_type': 'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/817827663108771841/pu/pl/0ec00HgwuDKE45Wv.m3u8'}}], 'features': {}, 'additional_media_info': {'monetizable': False}}
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357

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{'id': 817777588030476288, 'id_str': '817777588030476288', 'indices': [141,
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deo_thumb/817777588030476288/pu/img/KbuLpE4krHF4VdPf.jpg', 'url':
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'expanded_url':
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359

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{'id': 817423809049493505, 'id_str': '817423809049493505', 'indices': [57, 80],
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umb/817423809049493505/pu/img/50FW0yueFu9oTUiQ.jpg', 'url':
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'fit'}, 'large': {'w': 720, 'h': 720, 'resize': 'fit'}}}, 'features': {}}
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eo/817423809049493505/pu/vid/720x720/I9zru8euq3KyMtPW.mp4'}, {'content_type':
'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/8174238090
49493505/pu/pl/pjux09oIx4_Pqa3X.m3u8'}, {'bitrate': 832000, 'content_type':
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vid/480x480/dHYydVXm1ZuCCtRJ.mp4'}, {'bitrate': 256000, 'content_type':
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361

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{ 'w': 568, 'h': 320, 'resize': 'fit' }, 'large': { 'w': 568, 'h': 320, 'resize':  
'fit' }, 'small': { 'w': 568, 'h': 320, 'resize': 'fit' } }, 'source_status_id':  
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w_video/815965888126062592/pu/pl/_HKfIcEFLAA4vJZb.m3u8' }, { 'bitrate': 256000,  
'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/815965  
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For Professional Dog Ratings Instagram and Facebook WeRateDogs  
partnerships@weratedogs.com ', 'url': 'https://t.co/N7sNNHSfPq',  
'entities': { 'url': { 'urls': [ { 'url': 'https://t.co/N7sNNHSfPq', 'expanded_url':  
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+0000 2015', 'favourites_count': 143613, 'utc_offset': None, 'time_zone': None,  
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'http://abs.twimg.com/images/themes/theme1/bg.png',
'profile_background_image_url_https':
'https://abs.twimg.com/images/themes/theme1/bg.png', 'profile_background_tile':
False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/1191848405112426496/lz8cuaiI_normal.jpg',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1191848405112426496/lz8cuaiI_normal.jpg',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/4196983835/1565965307',
'profile_link_color': 'F5ABB5', 'profile_sidebar_border_color': '000000',
'profile_sidebar_fill_color': '000000', 'profile_text_color': '000000',
'profile_use_background_image': False, 'has_extended_profile': False,
'default_profile': False, 'default_profile_image': False, 'can_media_tag': True,
'followed_by': False, 'following': False, 'follow_request_sent': False,
'notifications': False, 'translator_type': 'none'}}}
```

=====

373

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{'id': 815965888126062592, 'id_str': '815965888126062592', 'indices': [58, 81],
'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/815965888126062592/pu/img/
JleSw4wRhgKDWQj5.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/815965888126062592/pu/img/JleSw4wRhgKDWQj5.jpg', 'url':
'https://t.co/MiMKtsLN6k', 'display_url': 'pic.twitter.com/MiMKtsLN6k',
'expanded_url':
'https://twitter.com/dog_rates/status/815966073409433600/video/1', 'type':
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'medium':
{'w': 568, 'h': 320, 'resize': 'fit'}, 'large': {'w': 568, 'h': 320, 'resize':
'fit'}, 'small': {'w': 568, 'h': 320, 'resize': 'fit'}}}, 'features': {}}
```

-----

```
{'id': 815965888126062592, 'id_str': '815965888126062592', 'indices': [58, 81],
'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/815965888126062592/pu/img/
JleSw4wRhgKDWQj5.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/815965888126062592/pu/img/JleSw4wRhgKDWQj5.jpg', 'url':
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'expanded_url':
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{'aspect_ratio': [71, 40], 'duration_millis': 14933, 'variants':
[{'content_type': 'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_t
w_video/815965888126062592/pu/pl/_HKfIcEFLAA4vJZb.m3u8'}, {'bitrate': 256000,
'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/815965
888126062592/pu/vid/318x180/pcQ7LVEhPzXZ8_7p.mp4'}]}, 'features': {},
'additional_media_info': {'monetizable': False}}
```

=====

423

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{'id': 807106774843039744, 'id_str': '807106774843039744', 'indices': [62, 85],
'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/807106774843039744/pu/img/
```

```
8XZg1xW35Xp2J6JW.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_thumb/807106774843039744/pu/img/8XZg1xW35Xp2J6JW.jpg', 'url':  
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'expanded_url':  
'https://twitter.com/dog_rates/status/807106840509214720/video/1', 'type':  
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'small':  
{'w': 544, 'h': 680, 'resize': 'fit'}, 'large': {'w': 640, 'h': 800, 'resize':  
'fit'}, 'medium': {'w': 640, 'h': 800, 'resize': 'fit'}}, 'features': {}}
```

```
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{'id': 807106774843039744, 'id_str': '807106774843039744', 'indices': [62, 85],  
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'https://t.co/DkBYaCAg2d', 'display_url': 'pic.twitter.com/DkBYaCAg2d',  
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'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/807106774843039744/pu/vid/256x320/8nfyuHC5LV48MjXi.mp4'}, {'bitrate': 832000, 'content_type':  
'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/807106774843039744/pu/vid/512x640/D8BmVrILrSek1MKE.mp4'}]}, 'features': {}, 'additional_media_info':  
{'monetizable': False}}
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=====

432

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{'id': 805826823359631360, 'id_str': '805826823359631360', 'indices': [55, 78],  
'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/805826823359631360/pu/img/yr_fF0TZCR-B70p2.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_thumb/805826823359631360/pu/img/yr_fF0TZCR-B70p2.jpg', 'url':  
'https://t.co/SgpBVYIL18', 'display_url': 'pic.twitter.com/SgpBVYIL18',  
'expanded_url':  
'https://twitter.com/dog_rates/status/805826884734976000/video/1', 'type':  
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'medium':  
{'w': 568, 'h': 320, 'resize': 'fit'}, 'large': {'w': 568, 'h': 320, 'resize':  
'fit'}, 'small': {'w': 568, 'h': 320, 'resize': 'fit'}}, 'features': {}}
```

```
-----  
{'id': 805826823359631360, 'id_str': '805826823359631360', 'indices': [55, 78],  
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'https://t.co/SgpBVYIL18', 'display_url': 'pic.twitter.com/SgpBVYIL18',  
'expanded_url':  
'https://twitter.com/dog_rates/status/805826884734976000/video/1', 'type':  
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```

```
{'w': 568, 'h': 320, 'resize': 'fit'}, 'large': {'w': 568, 'h': 320, 'resize':
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[{'content_type': 'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_t
w_video/805826823359631360/pu/pl/Z50WyyQqYn79c5k.m3u8'}, {'bitrate': 256000,
'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/805826
823359631360/pu/vid/318x180/9hZnITDH6BGpGBtp.mp4'}]], 'features': {},
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441

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'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/803638023904559104/pu/img/
vxm0Htm5iIV7E0AQ.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/803638023904559104/pu/img/vxm0Htm5iIV7E0AQ.jpg', 'url':
'https://t.co/ns9qoElfsX', 'display_url': 'pic.twitter.com/ns9qoElfsX',
'expanded_url':
'https://twitter.com/dog_rates/status/803638050916102144/video/1', 'type':
'photo', 'sizes': {'medium': {'w': 640, 'h': 640, 'resize': 'fit'}, 'thumb':
{'w': 150, 'h': 150, 'resize': 'crop'}, 'large': {'w': 640, 'h': 640, 'resize':
'fit'}, 'small': {'w': 640, 'h': 640, 'resize': 'fit'}}}, 'features': {}}
```

-----

```
{'id': 803638023904559104, 'id_str': '803638023904559104', 'indices': [33, 56],
'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/803638023904559104/pu/img/
vxm0Htm5iIV7E0AQ.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/803638023904559104/pu/img/vxm0Htm5iIV7E0AQ.jpg', 'url':
'https://t.co/ns9qoElfsX', 'display_url': 'pic.twitter.com/ns9qoElfsX',
'expanded_url':
'https://twitter.com/dog_rates/status/803638050916102144/video/1', 'type':
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'fit'}, 'small': {'w': 640, 'h': 640, 'resize': 'fit'}}}, 'video_info':
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'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/8036380239
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'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/803638023904559104/pu/
vid/480x480/Ij0zWeaE0k4L90kY.mp4'}]], 'features': {}, 'additional_media_info':
{'monetizable': False}}
```

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461

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{'id': 800018199223959552, 'id_str': '800018199223959552', 'indices': [54, 77],
'media_url':
'http://pbs.twimg.com/ext_tw_video_thumb/800018199223959552/pu/img/3Qp73edtkZ0-
qWPy.jpg', 'media_url_https':
'https://pbs.twimg.com/ext_tw_video_thumb/800018199223959552/pu/img/3Qp73edtkZ0-
qWPy.jpg', 'url': 'https://t.co/gQqRBfkX4I', 'display_url':
'pic.twitter.com/gQqRBfkX4I', 'expanded_url':
```



```

'https://twitter.com/dog_rates/status/800018252395122689/video/1', 'type':
'photo', 'sizes': {'large': {'w': 720, 'h': 900, 'resize': 'fit'}, 'thumb':
{'w': 150, 'h': 150, 'resize': 'crop'}, 'small': {'w': 544, 'h': 680, 'resize':
'fit'}, 'medium': {'w': 720, 'h': 900, 'resize': 'fit'}}, 'features': {}}
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{'id': 800018199223959552, 'id_str': '800018199223959552', 'indices': [54, 77],
'media_url':
'http://pbs.twimg.com/ext_tw_video_thumb/800018199223959552/pu/img/3Qp73edtkZ0-
qWPY.jpg', 'media_url_https':
'https://pbs.twimg.com/ext_tw_video_thumb/800018199223959552/pu/img/3Qp73edtkZ0-
qWPY.jpg', 'url': 'https://t.co/gQqRBfkX4I', 'display_url':
'pic.twitter.com/gQqRBfkX4I', 'expanded_url':
'https://twitter.com/dog_rates/status/800018252395122689/video/1', 'type':
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{'w': 150, 'h': 150, 'resize': 'crop'}, 'small': {'w': 544, 'h': 680, 'resize':
'fit'}, 'medium': {'w': 720, 'h': 900, 'resize': 'fit'}}, 'video_info':
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23959552/pu/pl/RwIvmZkbabtLlRSH.m3u8'}, {'bitrate': 256000, 'content_type':
'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/800018199223959552/pu/
vid/256x320/Scr0i5NlXRK3YbWc.mp4'}, {'bitrate': 832000, 'content_type':
'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/800018199223959552/pu/
vid/512x640/ZE07mjorkI-oi7U5.mp4'}]}, 'features': {}, 'additional_media_info':
{'monetizable': False}}
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489
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jPkMMQXdydb7CqFX.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/795464066940764160/pu/img/jPkMMQXdydb7CqFX.jpg', 'url':
'https://t.co/gBUDjdEcqz', 'display_url': 'pic.twitter.com/gBUDjdEcqz',
'expanded_url':
'https://twitter.com/dog_rates/status/795464331001561088/video/1', 'type':
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'small':
{'w': 383, 'h': 680, 'resize': 'fit'}, 'large': {'w': 720, 'h': 1280, 'resize':
'fit'}, 'medium': {'w': 675, 'h': 1200, 'resize': 'fit'}}, 'features': {}}
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{'id': 795464066940764160, 'id_str': '795464066940764160', 'indices': [55, 78],
'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/795464066940764160/pu/img/
jPkMMQXdydb7CqFX.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/795464066940764160/pu/img/jPkMMQXdydb7CqFX.jpg', 'url':
'https://t.co/gBUDjdEcqz', 'display_url': 'pic.twitter.com/gBUDjdEcqz',
'expanded_url':
'https://twitter.com/dog_rates/status/795464331001561088/video/1', 'type':
'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'small':
{'w': 383, 'h': 680, 'resize': 'fit'}, 'large': {'w': 720, 'h': 1280, 'resize':
'fit'}, 'medium': {'w': 675, 'h': 1200, 'resize': 'fit'}}, 'video_info':
{'aspect_ratio': [9, 16], 'duration_millis': 15033, 'variants':

```

```
[{'content_type': 'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/795464066940764160/pu/pl/_b0EAIvYVF8eivlT.m3u8'}, {'bitrate': 256000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/795464066940764160/pu/vid/180x320/B_CLQy0u0qZol5Bi.mp4'}, {'bitrate': 2176000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/795464066940764160/pu/vid/720x1280/FNHqB30qfAe1gQK3.mp4'}, {'bitrate': 832000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/795464066940764160/pu/vid/360x640/Wz94X8j0YPVwkVD5.mp4'}]], 'features': {}, 'additional_media_info': {'monetizable': False}}
```

=====

555

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{'id': 785872596088811520, 'id_str': '785872596088811520', 'indices': [115, 138], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/785872596088811520/pu/img/50-_BgqdFQu_2Bt7.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_thumb/785872596088811520/pu/img/50-_BgqdFQu_2Bt7.jpg', 'url': 'https://t.co/1j9kLGb4wV', 'display_url': 'pic.twitter.com/1j9kLGb4wV', 'expanded_url': 'https://twitter.com/dog_rates/status/785872687017132033/video/1', 'type': 'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'large': {'w': 360, 'h': 640, 'resize': 'fit'}, 'medium': {'w': 360, 'h': 640, 'resize': 'fit'}, 'small': {'w': 360, 'h': 640, 'resize': 'fit'}}, 'features': {}}
```

-----

```
{'id': 785872596088811520, 'id_str': '785872596088811520', 'indices': [115, 138], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/785872596088811520/pu/img/50-_BgqdFQu_2Bt7.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_thumb/785872596088811520/pu/img/50-_BgqdFQu_2Bt7.jpg', 'url': 'https://t.co/1j9kLGb4wV', 'display_url': 'pic.twitter.com/1j9kLGb4wV', 'expanded_url': 'https://twitter.com/dog_rates/status/785872687017132033/video/1', 'type': 'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'large': {'w': 360, 'h': 640, 'resize': 'fit'}, 'medium': {'w': 360, 'h': 640, 'resize': 'fit'}, 'small': {'w': 360, 'h': 640, 'resize': 'fit'}}, 'video_info': {'aspect_ratio': [9, 16], 'duration_millis': 7118, 'variants': [{'content_type': 'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/785872596088811520/pu/pl/QhujsY6oN9HYk9p.m3u8'}, {'bitrate': 320000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/785872596088811520/pu/vid/180x320/Qfdb3jwzVIU8lYh.mp4'}, {'bitrate': 832000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/785872596088811520/pu/vid/360x640/R0PU80Gdn9ww1-uf.mp4'}]], 'features': {}, 'additional_media_info': {'monetizable': False}}
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=====

588

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{'id': 780465675571605505, 'id_str': '780465675571605505', 'indices': [80, 103], 'media_url': 'http://pbs.twimg.com/tweet_video_thumb/CtTFZZfUsAE5hgp.jpg', 'media_url_https': 'https://pbs.twimg.com/tweet_video_thumb/CtTFZZfUsAE5hgp.jpg', 'url': 'https://t.co/v4e2ywe8i0', 'display_url': 'pic.twitter.com/v4e2ywe8i0', 'expanded_url': 'https://twitter.com/Patreon/status/780465709297995776/photo/1',
```

```
'type': 'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'},
'large': {'w': 250, 'h': 266, 'resize': 'fit'}, 'small': {'w': 250, 'h': 266,
'resize': 'fit'}, 'medium': {'w': 250, 'h': 266, 'resize': 'fit'}},
'source_status_id': 780465709297995776, 'source_status_id_str':
'780465709297995776', 'source_user_id': 1228325660, 'source_user_id_str':
'1228325660', 'features': {}}
```

```
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{'id': 780465675571605505, 'id_str': '780465675571605505', 'indices': [80, 103],
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'media_url_https':
'https://pbs.twimg.com/tweet_video_thumb/CtTFZZfUsAE5hgp.jpg', 'url':
'https://t.co/v4e2ywe8i0', 'display_url': 'pic.twitter.com/v4e2ywe8i0',
'expanded_url': 'https://twitter.com/Patreon/status/780465709297995776/photo/1',
'type': 'animated_gif', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize':
'crop'}, 'large': {'w': 250, 'h': 266, 'resize': 'fit'}, 'small': {'w': 250,
'h': 266, 'resize': 'fit'}, 'medium': {'w': 250, 'h': 266, 'resize': 'fit'}},
'source_status_id': 780465709297995776, 'source_status_id_str':
'780465709297995776', 'source_user_id': 1228325660, 'source_user_id_str':
'1228325660', 'video_info': {'aspect_ratio': [125, 133], 'variants':
[{'bitrate': 0, 'content_type': 'video/mp4', 'url':
'https://video.twimg.com/tweet_video/CtTFZZfUsAE5hgp.mp4'}]}, 'features': {}}
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592

```
{'id': 779377444025499652, 'id_str': '779377444025499652', 'indices': [85, 108],
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eIiLDy9F6rPNarEc.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/779377444025499652/pu/img/eIiLDy9F6rPNarEc.jpg', 'url':
'https://t.co/KsqalzlQ12', 'display_url': 'pic.twitter.com/KsqalzlQ12',
'expanded_url':
'https://twitter.com/dog_rates/status/779377524342161408/video/1', 'type':
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'small':
{'w': 382, 'h': 680, 'resize': 'fit'}, 'medium': {'w': 404, 'h': 720, 'resize':
'fit'}, 'large': {'w': 404, 'h': 720, 'resize': 'fit'}}, 'features': {}}
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```
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{'id': 779377444025499652, 'id_str': '779377444025499652', 'indices': [85, 108],
'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/779377444025499652/pu/img/
eIiLDy9F6rPNarEc.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/779377444025499652/pu/img/eIiLDy9F6rPNarEc.jpg', 'url':
'https://t.co/KsqalzlQ12', 'display_url': 'pic.twitter.com/KsqalzlQ12',
'expanded_url':
'https://twitter.com/dog_rates/status/779377524342161408/video/1', 'type':
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633

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660

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```

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689
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692

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696

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698

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'https://t.co/Ezu6jQrKAZ', 'display_url': 'pic.twitter.com/Ezu6jQrKAZ',
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'resize': 'fit'}, 'large': {'w': 450, 'h': 340, 'resize': 'fit'}},
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'fit'}, 'medium': {'w': 640, 'h': 800, 'resize': 'fit'}}, 'features': {}}
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744

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'fit'}, 'medium': {'w': 675, 'h': 1200, 'resize': 'fit'}}, 'features': {}}
```

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umb/755955658164465664/pu/img/YcjfthN7C3z61GUj.jpg', 'url':  
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vid/180x320/e1d4Rol3Bg2ebRn0.mp4'}, { 'bitrate': 2176000, 'content_type':  
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{ 'monetizable': False}}
```

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746

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umb/755110610942169088/pu/img/3-INz45pSRMkz0EF.jpg', 'url':  
'https://t.co/goX3jewkYN', 'display_url': 'pic.twitter.com/goX3jewkYN',  
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'fit'}, 'large': {'w': 480, 'h': 480, 'resize': 'fit'}}, 'features': {}}
```

```
-----  
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```

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750

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```

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```

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'expanded_url':
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27957248/pu/pl/iRGrvGMp6nknmbQD.m3u8'}], {'bitrate': 832000, 'content_type':
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754

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deo_thumb/753420390836346880/pu/img/ZHLvYxSHYuQK3uXi.jpg', 'url':
'https://t.co/CCdlwiTwQf', 'display_url': 'pic.twitter.com/CCdlwiTwQf',
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'https://twitter.com/dog_rates/status/753420520834629632/video/1', 'type':
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'fit'}, 'small': {'w': 222, 'h': 400, 'resize': 'fit'}}, 'features': {}}
```

-----

```
{'id': 753420390836346880, 'id_str': '753420390836346880', 'indices': [116,
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deo_thumb/753420390836346880/pu/img/ZHLvYxSHYuQK3uXi.jpg', 'url':
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755

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```

```

'https://t.co/ov05LIoQJX', 'display_url': 'pic.twitter.com/ov05LIoQJX',
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'fit'}, 'medium': {'w': 320, 'h': 568, 'resize': 'fit'}}, 'features': {}}
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763
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umb/752334354492362752/pu/img/uWISPC0YRmhUi9Ju.jpg', 'url':
'https://t.co/jwd0j6oWLE', 'display_url': 'pic.twitter.com/jwd0j6oWLE',
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{'w': 383, 'h': 680, 'resize': 'fit'}, 'large': {'w': 720, 'h': 1280, 'resize':
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{'aspect_ratio': [9, 16], 'duration_millis': 13609, 'variants':
[{'content_type': 'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_t

```

```
w_video/752334354492362752/pu/pl/aJjpgRRwzc4ek8_N.m3u8'}, {'bitrate': 2176000,
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'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/752334
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'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/752334
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'additional_media_info': {'monetizable': False}}
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764

```
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umb/675354114423808004/pu/img/qL1R_nGLqa6lmk0x.jpg', 'url':
'https://t.co/Bb3xnpsWBC', 'display_url': 'pic.twitter.com/Bb3xnpsWBC',
'expanded_url':
'https://twitter.com/dog_rates/status/675354435921575936/video/1', 'type':
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{'w': 150, 'h': 150, 'resize': 'crop'}, 'medium': {'w': 480, 'h': 480, 'resize':
'fit'}, 'large': {'w': 480, 'h': 480, 'resize': 'fit'}}, 'source_status_id':
675354435921575936, 'source_status_id_str': '675354435921575936',
'source_user_id': 4196983835, 'source_user_id_str': '4196983835', 'features':
{}}
```

-----

```
{'id': 675354114423808004, 'id_str': '675354114423808004', 'indices': [51, 74],
'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/675354114423808004/pu/img/
qL1R_nGLqa6lmk0x.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/675354114423808004/pu/img/qL1R_nGLqa6lmk0x.jpg', 'url':
'https://t.co/Bb3xnpsWBC', 'display_url': 'pic.twitter.com/Bb3xnpsWBC',
'expanded_url':
'https://twitter.com/dog_rates/status/675354435921575936/video/1', 'type':
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'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/675354114423808004/pu/
vid/240x240/CCWxU4pQylJfjLaW.mp4'}, {'bitrate': 832000, 'content_type':
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'description': 'Your Only Source For Professional Dog Ratings Instagram and
Facebook WeRateDogs partnerships@weratedogs.com ', 'url':
```

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'https://t.co/N7sNNHSfPq', 'entities': {'url': {'urls': [{'url':
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'display_url': 'weratedogs.com', 'indices': [0, 23]}}], 'description': {'urls':
[]}}, 'protected': False, 'followers_count': 8495761, 'friends_count': 14,
'listed_count': 6718, 'created_at': 'Sun Nov 15 21:41:29 +0000 2015',
'favourites_count': 143614, 'utc_offset': None, 'time_zone': None,
'geo_enabled': True, 'verified': True, 'statuses_count': 11069, 'lang': None,
'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled':
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'profile_background_image_url_https':
'https://abs.twimg.com/images/themes/theme1/bg.png', 'profile_background_tile':
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'http://pbs.twimg.com/profile_images/1191848405112426496/lz8cuaiI_normal.jpg',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1191848405112426496/lz8cuaiI_normal.jpg',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/4196983835/1565965307',
'profile_link_color': 'F5ABB5', 'profile_sidebar_border_color': '000000',
'profile_sidebar_fill_color': '000000', 'profile_text_color': '000000',
'profile_use_background_image': False, 'has_extended_profile': False,
'default_profile': False, 'default_profile_image': False, 'can_media_tag': True,
'followed_by': False, 'following': False, 'follow_request_sent': False,
'notifications': False, 'translator_type': 'none'}}}
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771

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umb/751456786360725504/pu/img/hWqfIQ29A0cBv6f_.jpg', 'url':
'https://t.co/lsVAMBq6ex', 'display_url': 'pic.twitter.com/lsVAMBq6ex',
'expanded_url':
'https://twitter.com/dog_rates/status/751456908746354688/video/1', 'type':
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'large':
{'w': 320, 'h': 568, 'resize': 'fit'}, 'small': {'w': 320, 'h': 568, 'resize':
'fit'}, 'medium': {'w': 320, 'h': 568, 'resize': 'fit'}}, 'features': {}}
```

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```
{'id': 751456786360725504, 'id_str': '751456786360725504', 'indices': [99, 122],
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hWqfIQ29A0cBv6f_.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/751456786360725504/pu/img/hWqfIQ29A0cBv6f_.jpg', 'url':
'https://t.co/lsVAMBq6ex', 'display_url': 'pic.twitter.com/lsVAMBq6ex',
'expanded_url':
'https://twitter.com/dog_rates/status/751456908746354688/video/1', 'type':
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{'w': 320, 'h': 568, 'resize': 'fit'}, 'small': {'w': 320, 'h': 568, 'resize':
'fit'}, 'medium': {'w': 320, 'h': 568, 'resize': 'fit'}}, 'video_info':
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```

```
320000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/751456786360725504/pu/vid/180x320/ZeNPgGJeX5uW0n8w.mp4'}, {'content_type': 'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/751456786360725504/pu/pl/hWCMVpA87b340Z2K.m3u8'}]], 'features': {}, 'additional_media_info': {'monetizable': False}}
```

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772

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{'id': 751250895690731520, 'id_str': '751250895690731520', 'indices': [111, 134], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/751250895690731520/pu/img/eziHbU1KbgZg-ijN.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_thumb/751250895690731520/pu/img/eziHbU1KbgZg-ijN.jpg', 'url': 'https://t.co/wayKZkDRTG', 'display_url': 'pic.twitter.com/wayKZkDRTG', 'expanded_url': 'https://twitter.com/dog_rates/status/751251247299190784/video/1', 'type': 'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'medium': {'w': 1200, 'h': 675, 'resize': 'fit'}, 'small': {'w': 680, 'h': 383, 'resize': 'fit'}, 'large': {'w': 1280, 'h': 720, 'resize': 'fit'}}, 'features': {}}
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796

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'additional_media_info': {'monetizable': False}}
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deo_thumb/748704826305970176/pu/img/QHuadM5eEygfBeOf.jpg', 'url':
'https://t.co/eA7k1ZQslA', 'display_url': 'pic.twitter.com/eA7k1ZQslA',
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'fit'}, 'large': {'w': 1280, 'h': 720, 'resize': 'fit'}}, 'features': {}}
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deo_thumb/748704826305970176/pu/img/QHuadM5eEygfBeOf.jpg', 'url':
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```



```
vid/320x180/0xnRJGJRdpJUuaxQ.mp4'}, {'bitrate': 2176000, 'content_type':  
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805

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'https://t.co/uUncaAGH18', 'display_url': 'pic.twitter.com/uUncaAGH18',  
'expanded_url':  
'https://twitter.com/dog_rates/status/748568946752774144/video/1', 'type':  
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{'id': 748568890477789184, 'id_str': '748568890477789184', 'indices': [86, 109],  
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840

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'expanded_url':  
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{'w': 383, 'h': 680, 'resize': 'fit'}, 'medium': {'w': 406, 'h': 720, 'resize':  
'fit'}, 'large': {'w': 406, 'h': 720, 'resize': 'fit'}}, 'features': {}}
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1GaWmtJtdqzZV7jy.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
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846

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{'w': 1200, 'h': 675, 'resize': 'fit'}, 'small': {'w': 680, 'h': 383, 'resize':
'fit'}, 'large': {'w': 1280, 'h': 720, 'resize': 'fit'}}, 'features': {}}

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```

{'id': 743509040018268160, 'id_str': '743509040018268160', 'indices': [112,
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'https://t.co/qGeVjHSUKH', 'display_url': 'pic.twitter.com/qGeVjHSUKH',
'expanded_url':
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'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/743509
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'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/743509
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'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/743509
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'additional_media_info': {'monetizable': False}}
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deo_thumb/739238016737267712/pu/img/-tLpyiuIzD5zR1et.jpg', 'url':
'https://t.co/YcXgHfp1EC', 'display_url': 'pic.twitter.com/YcXgHfp1EC',
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'fit'}, 'large': {'w': 1280, 'h': 720, 'resize': 'fit'}}, 'features': {}}
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u/img/-tLpyiuIzD5zR1et.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi
deo_thumb/739238016737267712/pu/img/-tLpyiuIzD5zR1et.jpg', 'url':
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'fit'}, 'large': {'w': 1280, 'h': 720, 'resize': 'fit'}}, 'video_info':
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'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/739238
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'additional_media_info': {'monetizable': False}}
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888
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_XEq7Rc.jpg', 'media_url_https':
'https://pbs.twimg.com/ext_tw_video_thumb/737310236135043073/pu/img/_lG4DXmH-
_XEq7Rc.jpg', 'url': 'https://t.co/wvjqSCN6iC', 'display_url':
'pic.twitter.com/wvjqSCN6iC', 'expanded_url':
'https://twitter.com/dog_rates/status/737310737551491075/video/1', 'type':
'photo', 'sizes': {'small': {'w': 480, 'h': 480, 'resize': 'fit'}, 'thumb':
{'w': 150, 'h': 150, 'resize': 'crop'}, 'medium': {'w': 480, 'h': 480, 'resize':
'fit'}, 'large': {'w': 480, 'h': 480, 'resize': 'fit'}}, 'features': {}}
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'https://pbs.twimg.com/ext_tw_video_thumb/737310236135043073/pu/img/_lG4DXmH-
_XEq7Rc.jpg', 'url': 'https://t.co/wvjqSCN6iC', 'display_url':
'pic.twitter.com/wvjqSCN6iC', 'expanded_url':
'https://twitter.com/dog_rates/status/737310737551491075/video/1', 'type':
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'fit'}, 'large': {'w': 480, 'h': 480, 'resize': 'fit'}}, 'video_info':
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vid/240x240/VuIwsCKsLM05ezr5.mp4'}]}, 'features': {}, 'additional_media_info':
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920

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'https://pbs.twimg.com/ext_tw_video_thumb/729838572744912896/pu/img/RI1l-XYmRxW-
YLFSV.jpg', 'url': 'https://t.co/85dTK7XCXB', 'display_url':
'pic.twitter.com/85dTK7XCXB', 'expanded_url':
'https://twitter.com/dog_rates/status/729838605770891264/video/1', 'type':
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'small':
{'w': 383, 'h': 680, 'resize': 'fit'}, 'large': {'w': 720, 'h': 1280, 'resize':
'fit'}, 'medium': {'w': 675, 'h': 1200, 'resize': 'fit'}}, 'features': {}}
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-----

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YLFSV.jpg', 'media_url_https':
'https://pbs.twimg.com/ext_tw_video_thumb/729838572744912896/pu/img/RI1l-XYmRxW-
YLFSV.jpg', 'url': 'https://t.co/85dTK7XCXB', 'display_url':
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'https://twitter.com/dog_rates/status/729838605770891264/video/1', 'type':
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{'w': 383, 'h': 680, 'resize': 'fit'}, 'large': {'w': 720, 'h': 1280, 'resize':
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'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/7298385727
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'https://video.twimg.com/ext_tw_video/729838572744912896/pu/vid/180x320/MHKB-
RZNN1pxNlo3.mp4'}, {'bitrate': 832000, 'content_type': 'video/mp4', 'url': 'http
s://video.twimg.com/ext_tw_video/729838572744912896/pu/vid/360x640/ZrUlrRQY22ML1
n7E.mp4'}, {'bitrate': 2176000, 'content_type': 'video/mp4', 'url': 'https://vid
eo.twimg.com/ext_tw_video/729838572744912896/pu/vid/720x1280/K9W-rBibesBDvOUg.mp
4'}}], 'features': {}, 'additional_media_info': {'monetizable': False}}
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1024

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{'id': 711998175234510848, 'id_str': '711998175234510848', 'indices': [74, 97],
'media_url': 'http://pbs.twimg.com/tweet_video_thumb/CeGGkWuUUAAYWU1.jpg',
'media_url_https':
'https://pbs.twimg.com/tweet_video_thumb/CeGGkWuUUAAYWU1.jpg', 'url':
'https://t.co/j6FQGhxYuN', 'display_url': 'pic.twitter.com/j6FQGhxYuN',
'expanded_url': 'https://twitter.com/twitter/status/711998279773347841/photo/1',
'type': 'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'},
'small': {'w': 648, 'h': 648, 'resize': 'fit'}, 'medium': {'w': 648, 'h': 648,
'resize': 'fit'}, 'large': {'w': 648, 'h': 648, 'resize': 'fit'}},
'source_status_id': 711998279773347841, 'source_status_id_str':
'711998279773347841', 'source_user_id': 783214, 'source_user_id_str': '783214',
'features': {}}
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```
{'id': 711998175234510848, 'id_str': '711998175234510848', 'indices': [74, 97],
'media_url': 'http://pbs.twimg.com/tweet_video_thumb/CeGGkWuUUAAYWU1.jpg',
'media_url_https':
'https://pbs.twimg.com/tweet_video_thumb/CeGGkWuUUAAYWU1.jpg', 'url':
'https://t.co/j6FQGhxYuN', 'display_url': 'pic.twitter.com/j6FQGhxYuN',
'expanded_url': 'https://twitter.com/twitter/status/711998279773347841/photo/1',
'type': 'animated_gif', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize':
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'h': 648, 'resize': 'fit'}, 'large': {'w': 648, 'h': 648, 'resize': 'fit'}},
'source_status_id': 711998279773347841, 'source_status_id_str':
'711998279773347841', 'source_user_id': 783214, 'source_user_id_str': '783214',
'video_info': {'aspect_ratio': [1, 1], 'variants': [{'bitrate': 0,
'content_type': 'video/mp4', 'url':
'https://video.twimg.com/tweet_video/CeGGkWuUUAAYWU1.mp4'}]}, 'features': {}}
```

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1028

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{'id': 711694754292109313, 'id_str': '711694754292109313', 'indices': [30, 53],
'media_url': 'http://pbs.twimg.com/tweet_video_thumb/CeBym7oXEAEWbEg.jpg',
'media_url_https':
'https://pbs.twimg.com/tweet_video_thumb/CeBym7oXEAEWbEg.jpg', 'url':
'https://t.co/Ezu6jQrKAZ', 'display_url': 'pic.twitter.com/Ezu6jQrKAZ',
'expanded_url':
'https://twitter.com/dog_rates/status/711694788429553666/photo/1', 'type':
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'small':
{'w': 450, 'h': 340, 'resize': 'fit'}, 'medium': {'w': 450, 'h': 340, 'resize':
'fit'}, 'large': {'w': 450, 'h': 340, 'resize': 'fit'}}, 'features': {}}
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{'id': 711694754292109313, 'id_str': '711694754292109313', 'indices': [30, 53],
'media_url': 'http://pbs.twimg.com/tweet_video_thumb/CeBym7oXEAEWbEg.jpg',
'media_url_https':
'https://pbs.twimg.com/tweet_video_thumb/CeBym7oXEAEWbEg.jpg', 'url':
'https://t.co/Ezu6jQrKAZ', 'display_url': 'pic.twitter.com/Ezu6jQrKAZ',
'expanded_url':
'https://twitter.com/dog_rates/status/711694788429553666/photo/1', 'type':
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'small': {'w': 450, 'h': 340, 'resize': 'fit'}, 'medium': {'w': 450, 'h': 340,
'resize': 'fit'}, 'large': {'w': 450, 'h': 340, 'resize': 'fit'}}, 'video_info':
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'video/mp4', 'url':
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1070

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{'id': 708026062568087553, 'id_str': '708026062568087553', 'indices': [106,
129], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/708026062568087553/p
u/img/rNhylAwIfb6YthGu.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi
deo_thumb/708026062568087553/pu/img/rNhylAwIfb6YthGu.jpg', 'url':
'https://t.co/5AJs8TIV1U', 'display_url': 'pic.twitter.com/5AJs8TIV1U',
'expanded_url':
'https://twitter.com/dog_rates/status/708026248782585858/video/1', 'type':
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'medium':
{'w': 1200, 'h': 675, 'resize': 'fit'}, 'small': {'w': 680, 'h': 383, 'resize':
'fit'}, 'large': {'w': 1280, 'h': 720, 'resize': 'fit'}}, 'features': {}}
```

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```
{'id': 708026062568087553, 'id_str': '708026062568087553', 'indices': [106,
129], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/708026062568087553/p
u/img/rNhylAwIfb6YthGu.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi
deo_thumb/708026062568087553/pu/img/rNhylAwIfb6YthGu.jpg', 'url':
'https://t.co/5AJs8TIV1U', 'display_url': 'pic.twitter.com/5AJs8TIV1U',
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'https://twitter.com/dog_rates/status/708026248782585858/video/1', 'type':
'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'medium':
{'w': 1200, 'h': 675, 'resize': 'fit'}, 'small': {'w': 680, 'h': 383, 'resize':
'fit'}, 'large': {'w': 1280, 'h': 720, 'resize': 'fit'}}, 'video_info':
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'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/7080260625
68087553/pu/pl/GBC2qASJZwLmSYpt.m3u8'}, {'bitrate': 832000, 'content_type':
'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/708026062568087553/pu/
vid/640x360/Rzwhi1sxEtUJIKTB.mp4'}, {'bitrate': 320000, 'content_type':
'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/708026062568087553/pu/
vid/320x180/D7YkMBFt71UvrWgl.mp4'}]}, 'features': {}, 'additional_media_info':
{'monetizable': False}}
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1089

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{'id': 706644797256241152, 'id_str': '706644797256241152', 'indices': [117,
140], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/706644797256241152/p
u/img/NTqvmIUQExGmKFSR.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi
deo_thumb/706644797256241152/pu/img/NTqvmIUQExGmKFSR.jpg', 'url':
'https://t.co/cd0kfEpjFw', 'display_url': 'pic.twitter.com/cd0kfEpjFw',
'expanded_url':
'https://twitter.com/dog_rates/status/706644897839910912/video/1', 'type':
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{'w': 288, 'h': 420, 'resize': 'fit'}, 'small': {'w': 288, 'h': 420, 'resize':
'fit'}, 'medium': {'w': 288, 'h': 420, 'resize': 'fit'}}, 'features': {}}
```

```
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{'id': 706644797256241152, 'id_str': '706644797256241152', 'indices': [117,
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u/img/NTqvmIUQExGmKFSR.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi
deo_thumb/706644797256241152/pu/img/NTqvmIUQExGmKFSR.jpg', 'url':
'https://t.co/cd0kfEpjFw', 'display_url': 'pic.twitter.com/cd0kfEpjFw',
'expanded_url':
'https://twitter.com/dog_rates/status/706644897839910912/video/1', 'type':
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{'w': 288, 'h': 420, 'resize': 'fit'}, 'small': {'w': 288, 'h': 420, 'resize':
'fit'}, 'medium': {'w': 288, 'h': 420, 'resize': 'fit'}}, 'video_info':
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w_video/706644797256241152/pu/pl/-VqrlS2um6EpK2j8.m3u8'}, {'bitrate': 320000,
'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/706644
797256241152/pu/vid/218x320/BGdMNHcatpQtBxyN.mp4'}]}, 'features': {},
'additional_media_info': {'monetizable': False}}
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1174

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{'id': 699072391083880449, 'id_str': '699072391083880449', 'indices': [29, 52],
'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/699072391083880449/pu/img/
fMp1-dvLMeio1Kzk.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/699072391083880449/pu/img/fMp1-dvLMeio1Kzk.jpg', 'url':
'https://t.co/7WrAWKdBac', 'display_url': 'pic.twitter.com/7WrAWKdBac',
'expanded_url':
'https://twitter.com/dog_rates/status/699072405256409088/video/1', 'type':
'photo', 'sizes': {'medium': {'w': 240, 'h': 320, 'resize': 'fit'}, 'thumb':
{'w': 150, 'h': 150, 'resize': 'crop'}, 'large': {'w': 240, 'h': 320, 'resize':
'fit'}, 'small': {'w': 240, 'h': 320, 'resize': 'fit'}}, 'features': {}}
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{'id': 699072391083880449, 'id_str': '699072391083880449', 'indices': [29, 52],
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fMp1-dvLMeio1Kzk.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/699072391083880449/pu/img/fMp1-dvLMeio1Kzk.jpg', 'url':
'https://t.co/7WrAWKdBac', 'display_url': 'pic.twitter.com/7WrAWKdBac',
'expanded_url':
'https://twitter.com/dog_rates/status/699072405256409088/video/1', 'type':
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```
{'w': 150, 'h': 150, 'resize': 'crop'}, 'large': {'w': 240, 'h': 320, 'resize': 'fit'}, 'small': {'w': 240, 'h': 320, 'resize': 'fit'}}, 'video_info': {'aspect_ratio': [3, 4], 'duration_millis': 12204, 'variants': [{'content_type': 'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/699072391083880449/pu/pl/wNn0Ltbaot6yYdi.m3u8'}, {'bitrate': 320000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/699072391083880449/pu/vid/240x320/M4T2CZbhZzD9Ssao.mp4'}]}, 'features': {}, 'additional_media_info': {'monetizable': False}}
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1181

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{'id': 698635005506015234, 'id_str': '698635005506015234', 'indices': [111, 134], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/698635005506015234/pu/img/wQ4yFXTZ-2QLt68b.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_thumb/698635005506015234/pu/img/wQ4yFXTZ-2QLt68b.jpg', 'url': 'https://t.co/rb8nzVnH7F', 'display_url': 'pic.twitter.com/rb8nzVnH7F', 'expanded_url': 'https://twitter.com/dog_rates/status/698635131305795584/video/1', 'type': 'photo', 'sizes': {'large': {'w': 480, 'h': 272, 'resize': 'fit'}, 'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'medium': {'w': 480, 'h': 272, 'resize': 'fit'}, 'small': {'w': 480, 'h': 272, 'resize': 'fit'}}}, 'features': {}}
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-----

```
{'id': 698635005506015234, 'id_str': '698635005506015234', 'indices': [111, 134], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/698635005506015234/pu/img/wQ4yFXTZ-2QLt68b.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_thumb/698635005506015234/pu/img/wQ4yFXTZ-2QLt68b.jpg', 'url': 'https://t.co/rb8nzVnH7F', 'display_url': 'pic.twitter.com/rb8nzVnH7F', 'expanded_url': 'https://twitter.com/dog_rates/status/698635131305795584/video/1', 'type': 'video', 'sizes': {'large': {'w': 480, 'h': 272, 'resize': 'fit'}, 'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'medium': {'w': 480, 'h': 272, 'resize': 'fit'}, 'small': {'w': 480, 'h': 272, 'resize': 'fit'}}}, 'video_info': {'aspect_ratio': [30, 17], 'duration_millis': 26576, 'variants': [{'content_type': 'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/698635005506015234/pu/pl/bjBeb3i290l8lFvI.m3u8'}, {'bitrate': 320000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/698635005506015234/pu/vid/316x180/mziB_epBReCnzLmj.mp4'}]}, 'features': {}, 'additional_media_info': {'monetizable': False}}
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1184

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'fit'}, 'large': {'w': 720, 'h': 720, 'resize': 'fit'}}, 'features': {}
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{'id': 698341973569245184, 'id_str': '698341973569245184', 'indices': [117,
140], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/698341973569245184/p
u/img/Sj3A2vSfbKWSv61T.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi
deo_thumb/698341973569245184/pu/img/Sj3A2vSfbKWSv61T.jpg', 'url':
'https://t.co/VmFfWMjNkp', 'display_url': 'pic.twitter.com/VmFfWMjNkp',
'expanded_url':
'https://twitter.com/dog_rates/status/698342080612007937/video/1', 'type':
'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'small':
{'w': 680, 'h': 680, 'resize': 'fit'}, 'medium': {'w': 720, 'h': 720, 'resize':
'fit'}, 'large': {'w': 720, 'h': 720, 'resize': 'fit'}}, 'video_info':
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320000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_vide
o/698341973569245184/pu/vid/240x240/078Cw3KpcM7Y08A7.mp4'}, {'bitrate': 1280000,
'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/698341
973569245184/pu/vid/720x720/FP7tMqjo0wYuD3oV.mp4'}, {'content_type':
'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/6983419735
69245184/pu/pl/eRh3Va2T7gqNpMQz.m3u8'}], {'bitrate': 832000, 'content_type':
'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/698341973569245184/pu/
vid/480x480/zw8q3gwaouVSnEjR.mp4'}]}, 'features': {}, 'additional_media_info':
{'monetizable': False}}
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1218
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138], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/695064251149508610/p
u/img/OOPED0aUurb9Z16a.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi
deo_thumb/695064251149508610/pu/img/OOPED0aUurb9Z16a.jpg', 'url':
'https://t.co/uaJmNgXR2P', 'display_url': 'pic.twitter.com/uaJmNgXR2P',
'expanded_url':
'https://twitter.com/dog_rates/status/695064344191721472/video/1', 'type':
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'small':
{'w': 383, 'h': 680, 'resize': 'fit'}, 'large': {'w': 720, 'h': 1280, 'resize':
'fit'}, 'medium': {'w': 675, 'h': 1200, 'resize': 'fit'}}, 'features': {}
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{'id': 695064251149508610, 'id_str': '695064251149508610', 'indices': [115,
138], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/695064251149508610/p
u/img/OOPED0aUurb9Z16a.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi
deo_thumb/695064251149508610/pu/img/OOPED0aUurb9Z16a.jpg', 'url':
'https://t.co/uaJmNgXR2P', 'display_url': 'pic.twitter.com/uaJmNgXR2P',
'expanded_url':
'https://twitter.com/dog_rates/status/695064344191721472/video/1', 'type':
'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'small':
{'w': 383, 'h': 680, 'resize': 'fit'}, 'large': {'w': 720, 'h': 1280, 'resize':
'fit'}, 'medium': {'w': 675, 'h': 1200, 'resize': 'fit'}}, 'video_info':
{'aspect_ratio': [9, 16], 'duration_millis': 9691, 'variants': [{'bitrate':
2176000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_vid
eo/695064251149508610/pu/vid/720x1280/kTHA4PRWxrVFUn9o.mp4'}, {'content_type':

```

```
'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/695064251149508610/pu/pl/1mUmCn4Nd5KyYeiS.m3u8'}, {'bitrate': 320000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/695064251149508610/pu/vid/180x320/R_0ImrocctvL01wj.mp4'}, {'bitrate': 832000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/695064251149508610/pu/vid/360x640/xxi8eopv6x3J5DKg.mp4'}}], 'features': {}, 'additional_media_info': {'monetizable': False}}
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1234

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{'id': 693486485266247680, 'id_str': '693486485266247680', 'indices': [100, 123], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/693486485266247680/pu/img/KhaphmUYPQTpbwNf8.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_thumb/693486485266247680/pu/img/KhaphmUYPQTpbwNf8.jpg', 'url': 'https://t.co/S6cQsIoX27', 'display_url': 'pic.twitter.com/S6cQsIoX27', 'expanded_url': 'https://twitter.com/dog_rates/status/69348665285931008/video/1', 'type': 'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'large': {'w': 320, 'h': 568, 'resize': 'fit'}, 'small': {'w': 320, 'h': 568, 'resize': 'fit'}, 'medium': {'w': 320, 'h': 568, 'resize': 'fit'}}, 'features': {}}
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{'id': 693486485266247680, 'id_str': '693486485266247680', 'indices': [100, 123], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/693486485266247680/pu/img/KhaphmUYPQTpbwNf8.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_thumb/693486485266247680/pu/img/KhaphmUYPQTpbwNf8.jpg', 'url': 'https://t.co/S6cQsIoX27', 'display_url': 'pic.twitter.com/S6cQsIoX27', 'expanded_url': 'https://twitter.com/dog_rates/status/69348665285931008/video/1', 'type': 'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'large': {'w': 320, 'h': 568, 'resize': 'fit'}, 'small': {'w': 320, 'h': 568, 'resize': 'fit'}, 'medium': {'w': 320, 'h': 568, 'resize': 'fit'}}, 'video_info': {'aspect_ratio': [40, 71], 'duration_millis': 17512, 'variants': [{'bitrate': 320000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/693486485266247680/pu/vid/180x320/Mq5Txx_bbvttynFS.mp4'}, {'content_type': 'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/693486485266247680/pu/pl/9_9WeQMANG7xLg0.m3u8'}]}, 'features': {}, 'additional_media_info': {'monetizable': False}}
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1239

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{'id': 693108992730632192, 'id_str': '693108992730632192', 'indices': [76, 99], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/693108992730632192/pu/img/ncJQQZf3eroMSF12.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_thumb/693108992730632192/pu/img/ncJQQZf3eroMSF12.jpg', 'url': 'https://t.co/NY3cPAZAIM', 'display_url': 'pic.twitter.com/NY3cPAZAIM', 'expanded_url': 'https://twitter.com/dog_rates/status/693109034023534592/video/1', 'type': 'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'medium': {'w': 384, 'h': 480, 'resize': 'fit'}, 'small': {'w': 384, 'h': 480, 'resize': 'fit'}, 'large': {'w': 384, 'h': 480, 'resize': 'fit'}}, 'features': {}}
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{'id': 693108992730632192, 'id_str': '693108992730632192', 'indices': [76, 99],
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1246

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{'id': 692752274041507842, 'id_str': '692752274041507842', 'indices': [69, 92],
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'media_url_https': 'https://pbs.twimg.com/tweet_video_thumb/CZ0mhduWkAICSGe.png', 'url': 'https://t.co/kYWcXbluUu', 'display_url': 'pic.twitter.com/kYWcXbluUu', 'expanded_url': 'https://twitter.com/dog_rates/status/692752401762250755/photo/1', 'type': 'photo', 'sizes': {'small': {'w': 196, 'h': 327, 'resize': 'fit'}, 'large': {'w': 196, 'h': 327, 'resize': 'fit'}, 'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'medium': {'w': 196, 'h': 327, 'resize': 'fit'}}, 'features': {}}
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{'id': 692752274041507842, 'id_str': '692752274041507842', 'indices': [69, 92],
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'media_url_https': 'https://pbs.twimg.com/tweet_video_thumb/CZ0mhduWkAICSGe.png', 'url': 'https://t.co/kYWcXbluUu', 'display_url': 'pic.twitter.com/kYWcXbluUu', 'expanded_url': 'https://twitter.com/dog_rates/status/692752401762250755/photo/1', 'type': 'animated_gif', 'sizes': {'small': {'w': 196, 'h': 327, 'resize': 'fit'}, 'large': {'w': 196, 'h': 327, 'resize': 'fit'}, 'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'medium': {'w': 196, 'h': 327, 'resize': 'fit'}}, 'video_info': {'aspect_ratio': [196, 327], 'variants': [{'bitrate': 0, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/tweet_video/CZ0mhduWkAICSGe.mp4'}]}, 'features': {}}
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1291

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{'id': 689289176076959744, 'id_str': '689289176076959744', 'indices': [99, 122],
'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/689289176076959744/pu/img/hEFkFtmMu_hkTlxK.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th

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umb/689289176076959744/pu/img/hEFkFtmMu_hkTlxK.jpg', 'url':
'https://t.co/Rxrd4hPmp4', 'display_url': 'pic.twitter.com/Rxrd4hPmp4',
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'https://twitter.com/dog_rates/status/689289219123089408/video/1', 'type':
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{'w': 320, 'h': 568, 'resize': 'fit'}, 'small': {'w': 320, 'h': 568, 'resize':
'fit'}, 'medium': {'w': 320, 'h': 568, 'resize': 'fit'}}, 'features': {}}
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{'id': 689289176076959744, 'id_str': '689289176076959744', 'indices': [99, 122],
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hEFkFtmMu_hkTlxK.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
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'https://t.co/Rxrd4hPmp4', 'display_url': 'pic.twitter.com/Rxrd4hPmp4',
'expanded_url':
'https://twitter.com/dog_rates/status/689289219123089408/video/1', 'type':
'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'large':
{'w': 320, 'h': 568, 'resize': 'fit'}, 'small': {'w': 320, 'h': 568, 'resize':
'fit'}, 'medium': {'w': 320, 'h': 568, 'resize': 'fit'}}, 'video_info':
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oZViNb1D0.m3u8'}, {'bitrate': 320000, 'content_type': 'video/mp4', 'url': 'https
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N3.mp4'}]}, 'features': {}, 'additional_media_info': {'monetizable': False}}
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1307
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OI0VTwPYnsScQg8R.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/688211379870806016/pu/img/OI0VTwPYnsScQg8R.jpg', 'url':
'https://t.co/o4Nfc8WoAO', 'display_url': 'pic.twitter.com/o4Nfc8WoAO',
'expanded_url':
'https://twitter.com/dog_rates/status/688211956440801280/video/1', 'type':
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{'w': 383, 'h': 680, 'resize': 'fit'}, 'large': {'w': 720, 'h': 1280, 'resize':
'fit'}, 'medium': {'w': 675, 'h': 1200, 'resize': 'fit'}}, 'features': {}}
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{'id': 688211379870806016, 'id_str': '688211379870806016', 'indices': [59, 82],
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umb/688211379870806016/pu/img/OI0VTwPYnsScQg8R.jpg', 'url':
'https://t.co/o4Nfc8WoAO', 'display_url': 'pic.twitter.com/o4Nfc8WoAO',
'expanded_url':
'https://twitter.com/dog_rates/status/688211956440801280/video/1', 'type':
'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'small':
{'w': 383, 'h': 680, 'resize': 'fit'}, 'large': {'w': 720, 'h': 1280, 'resize':
'fit'}, 'medium': {'w': 675, 'h': 1200, 'resize': 'fit'}}, 'video_info':
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[{'content_type': 'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/688211379870806016/pu/pl/NtSIa7doYcgqv0YG.m3u8'}, {'bitrate': 2176000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/688211379870806016/pu/vid/720x1280/SZ2bT6nntG70fxpB.mp4'}, {'bitrate': 320000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/688211379870806016/pu/vid/180x320/j3HKQd9SThr2_UHR.mp4'}, {'bitrate': 832000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/688211379870806016/pu/vid/360x640/XoXZNX03Z4Yb1mF7.mp4'}]], 'features': {}, 'additional_media_info': {'monetizable': False}}
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1341

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{'id': 685943751555051520, 'id_str': '685943751555051520', 'indices': [117, 140], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/685943751555051520/pu/img/rlBvQWaFPUMx1MTi.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_thumb/685943751555051520/pu/img/rlBvQWaFPUMx1MTi.jpg', 'url': 'https://t.co/wbAcvFoNtn', 'display_url': 'pic.twitter.com/wbAcvFoNtn', 'expanded_url': 'https://twitter.com/dog_rates/status/685943807276412928/video/1', 'type': 'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'small': {'w': 383, 'h': 680, 'resize': 'fit'}, 'large': {'w': 720, 'h': 1280, 'resize': 'fit'}, 'medium': {'w': 675, 'h': 1200, 'resize': 'fit'}}, 'features': {}}
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```
{'id': 685943751555051520, 'id_str': '685943751555051520', 'indices': [117, 140], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/685943751555051520/pu/img/rlBvQWaFPUMx1MTi.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_thumb/685943751555051520/pu/img/rlBvQWaFPUMx1MTi.jpg', 'url': 'https://t.co/wbAcvFoNtn', 'display_url': 'pic.twitter.com/wbAcvFoNtn', 'expanded_url': 'https://twitter.com/dog_rates/status/685943807276412928/video/1', 'type': 'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'small': {'w': 383, 'h': 680, 'resize': 'fit'}, 'large': {'w': 720, 'h': 1280, 'resize': 'fit'}, 'medium': {'w': 675, 'h': 1200, 'resize': 'fit'}}, 'video_info': {'aspect_ratio': [9, 16], 'duration_millis': 9870, 'variants': [{'bitrate': 832000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/685943751555051520/pu/vid/360x640/Y1Lx1AHZinlyhLQd.mp4'}, {'bitrate': 320000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/685943751555051520/pu/vid/180x320/Tg98cfrBD-pWUVVz.mp4'}, {'bitrate': 2176000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/685943751555051520/pu/vid/720x1280/nzCdZJJ1J_zAce5v.mp4'}, {'content_type': 'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/685943751555051520/pu/pl/ya9sp9SLXNqjrWab.m3u8'}]], 'features': {}, 'additional_media_info': {'monetizable': False}}
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1344

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'https://t.co/AcVWe39nmM', 'display_url': 'pic.twitter.com/AcVWe39nmM',
'expanded_url':
'https://twitter.com/dog_rates/status/685663452032069632/video/1', 'type':
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'large':
{'w': 320, 'h': 568, 'resize': 'fit'}, 'small': {'w': 320, 'h': 568, 'resize':
'fit'}, 'medium': {'w': 320, 'h': 568, 'resize': 'fit'}}, 'features': {}}
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{'id': 685663358637486080, 'id_str': '685663358637486080', 'indices': [86, 109],
'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/685663358637486080/pu/img/
3cXSHFZAgJQ_dDCf.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/685663358637486080/pu/img/3cXSHFZAgJQ_dDCf.jpg', 'url':
'https://t.co/AcVWe39nmM', 'display_url': 'pic.twitter.com/AcVWe39nmM',
'expanded_url':
'https://twitter.com/dog_rates/status/685663452032069632/video/1', 'type':
'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'large':
{'w': 320, 'h': 568, 'resize': 'fit'}, 'small': {'w': 320, 'h': 568, 'resize':
'fit'}, 'medium': {'w': 320, 'h': 568, 'resize': 'fit'}}, 'video_info':
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320000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_vide
o/685663358637486080/pu/vid/180x320/Sw3FBUUE7Zqtowxy.mp4'}, {'content_type':
'application/x-mpegURL', 'url':
'https://video.twimg.com/ext_tw_video/685663358637486080/pu/pl/csfEEcs_Tl--
oyaR.m3u8'}]]}, 'features': {}, 'additional_media_info': {'monetizable': False}}
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1364
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fpq8.jpg', 'media_url_https':
'https://pbs.twimg.com/ext_tw_video_thumb/684538367950872576/pu/img/kTKOkSU45BS-
fpq8.jpg', 'url': 'https://t.co/IKoRK4yoxV', 'display_url':
'pic.twitter.com/IKoRK4yoxV', 'expanded_url':
'https://twitter.com/dog_rates/status/684538444857667585/video/1', 'type':
'photo', 'sizes': {'small': {'w': 545, 'h': 680, 'resize': 'fit'}, 'thumb':
{'w': 150, 'h': 150, 'resize': 'crop'}, 'large': {'w': 640, 'h': 798, 'resize':
'fit'}, 'medium': {'w': 640, 'h': 798, 'resize': 'fit'}}, 'features': {}}
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{'id': 684538367950872576, 'id_str': '684538367950872576', 'indices': [97, 120],
'media_url':
'http://pbs.twimg.com/ext_tw_video_thumb/684538367950872576/pu/img/kTKOkSU45BS-
fpq8.jpg', 'media_url_https':
'https://pbs.twimg.com/ext_tw_video_thumb/684538367950872576/pu/img/kTKOkSU45BS-
fpq8.jpg', 'url': 'https://t.co/IKoRK4yoxV', 'display_url':
'pic.twitter.com/IKoRK4yoxV', 'expanded_url':
'https://twitter.com/dog_rates/status/684538444857667585/video/1', 'type':
'video', 'sizes': {'small': {'w': 545, 'h': 680, 'resize': 'fit'}, 'thumb':
{'w': 150, 'h': 150, 'resize': 'crop'}, 'large': {'w': 640, 'h': 798, 'resize':
'fit'}, 'medium': {'w': 640, 'h': 798, 'resize': 'fit'}}, 'video_info':

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{'aspect_ratio': [320, 399], 'duration_millis': 15038, 'variants':  
[{'content_type': 'application/x-mpegURL', 'url':  
'https://video.twimg.com/ext_tw_video/684538367950872576/pu/pl/vcd-  
YPs5rh5N5FYc.m3u8'}, {'bitrate': 832000, 'content_type': 'video/mp4', 'url': 'ht  
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MAcdG.mp4'}, {'bitrate': 320000, 'content_type': 'video/mp4', 'url': 'https://vi  
deo.twimg.com/ext_tw_video/684538367950872576/pu/vid/256x320/QtjPjzUschf3l-q8.mp  
4'}]], 'features': {}, 'additional_media_info': {'monetizable': False}}
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1379

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{'id': 683834825250320385, 'id_str': '683834825250320385', 'indices': [120,  
143], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/683834825250320385/p  
u/img/yZdrqMlyky4KG0u6.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi  
deo_thumb/683834825250320385/pu/img/yZdrqMlyky4KG0u6.jpg', 'url':  
'https://t.co/01E4AtHVx0', 'display_url': 'pic.twitter.com/01E4AtHVx0',  
'expanded_url':  
'https://twitter.com/dog_rates/status/683834909291606017/video/1', 'type':  
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'large':  
{'w': 320, 'h': 568, 'resize': 'fit'}, 'small': {'w': 320, 'h': 568, 'resize':  
'fit'}, 'medium': {'w': 320, 'h': 568, 'resize': 'fit'}}, 'features': {}}
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{'id': 683834825250320385, 'id_str': '683834825250320385', 'indices': [120,  
143], 'media_url': 'http://pbs.twimg.com/ext_tw_video_thumb/683834825250320385/p  
u/img/yZdrqMlyky4KG0u6.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_vi  
deo_thumb/683834825250320385/pu/img/yZdrqMlyky4KG0u6.jpg', 'url':  
'https://t.co/01E4AtHVx0', 'display_url': 'pic.twitter.com/01E4AtHVx0',  
'expanded_url':  
'https://twitter.com/dog_rates/status/683834909291606017/video/1', 'type':  
'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'large':  
{'w': 320, 'h': 568, 'resize': 'fit'}, 'small': {'w': 320, 'h': 568, 'resize':  
'fit'}, 'medium': {'w': 320, 'h': 568, 'resize': 'fit'}}, 'video_info':  
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320000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_vide  
o/683834825250320385/pu/vid/180x320/ZwCefuBHUYBotCC0.mp4'}, {'content_type':  
'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/6838348252  
50320385/pu/pl/Bn1ZSrwiA8LSescz.m3u8'}]], 'features': {},  
'additional_media_info': {'monetizable': False}}
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1442

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'http://pbs.twimg.com/ext_tw_video_thumb/680440290977693696/pu/img/B900g7b-n-  
zhnwi5.jpg', 'media_url_https':  
'https://pbs.twimg.com/ext_tw_video_thumb/680440290977693696/pu/img/B900g7b-n-  
zhnwi5.jpg', 'url': 'https://t.co/UKqIAnR3He', 'display_url':  
'pic.twitter.com/UKqIAnR3He', 'expanded_url':  
'https://twitter.com/dog_rates/status/680440374763077632/video/1', 'type':  
'photo', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'medium':
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{'w': 568, 'h': 320, 'resize': 'fit'}, 'large': {'w': 568, 'h': 320, 'resize':
'fit'}, 'small': {'w': 568, 'h': 320, 'resize': 'fit'}}, 'features': {}
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{'id': 680440290977693696, 'id_str': '680440290977693696', 'indices': [95, 118],
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'http://pbs.twimg.com/ext_tw_video_thumb/680440290977693696/pu/img/B900g7b-n-
zhnwi5.jpg', 'media_url_https':
'https://pbs.twimg.com/ext_tw_video_thumb/680440290977693696/pu/img/B900g7b-n-
zhnwi5.jpg', 'url': 'https://t.co/UKqIAnR3He', 'display_url':
'pic.twitter.com/UKqIAnR3He', 'expanded_url':
'https://twitter.com/dog_rates/status/680440374763077632/video/1', 'type':
'video', 'sizes': {'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}, 'medium':
{'w': 568, 'h': 320, 'resize': 'fit'}, 'large': {'w': 568, 'h': 320, 'resize':
'fit'}, 'small': {'w': 568, 'h': 320, 'resize': 'fit'}}, 'video_info':
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'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/679111114081370114/pu/vid/180x320/t78agw0dHS0WVCn0.mp4'}, {'bitrate': 2176000, 'content_type': 'video/mp4', 'url': 'https://video.twimg.com/ext_tw_video/679111114081370114/pu/vid/720x1280/xbkEaMgYwrzIsC2q.mp4'}}], 'features': {}, 'additional_media_info': {'monetizable': False}}
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1489

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1506

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'https://pbs.twimg.com/ext_tw_video_thumb/676957802976419840/pu/img/dCj-
qlXo73A5hf6Q.jpg', 'url': 'https://t.co/ngTNXYQFOL', 'display_url':
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qlXo73A5hf6Q.jpg', 'url': 'https://t.co/ngTNXYQFOL', 'display_url':
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1532

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1565

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'https://pbs.twimg.com/ext_tw_video_thumb/675740268751138818/pu/img/dVaVeFAVT-  
lk_1ZV.jpg', 'url': 'https://t.co/AUJi8ujxw9', 'display_url':  
'pic.twitter.com/AUJi8ujxw9', 'expanded_url':  
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{'w': 320, 'h': 568, 'resize': 'fit'}, 'small': {'w': 320, 'h': 568, 'resize':  
'fit'}, 'medium': {'w': 320, 'h': 568, 'resize': 'fit'}}, 'features': {}}
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lk_1ZV.jpg', 'url': 'https://t.co/AUJi8ujxw9', 'display_url':
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umb/675354114423808004/pu/img/qL1R_nGLqa6lmk0x.jpg', 'url':
'https://t.co/Bb3xnpsWBC', 'display_url': 'pic.twitter.com/Bb3xnpsWBC',
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'fit'}, 'large': {'w': 480, 'h': 480, 'resize': 'fit'}}, 'features': {}}
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qL1R_nGLqa6lmk0x.jpg', 'media_url_https': 'https://pbs.twimg.com/ext_tw_video_th
umb/675354114423808004/pu/img/qL1R_nGLqa6lmk0x.jpg', 'url':
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deo_thumb/674805331965399040/pu/img/-7bw8niVrgIkLKOW.jpg', 'url':
'https://t.co/vqFkgYPCW8', 'display_url': 'pic.twitter.com/vqFkgYPCW8',
'expanded_url':
'https://twitter.com/dog_rates/status/674805413498527744/video/1', 'type':
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'fit'}, 'large': {'w': 480, 'h': 480, 'resize': 'fit'}}, 'features': {}}
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'fit'}, 'large': {'w': 480, 'h': 480, 'resize': 'fit'}}, 'video_info':
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'application/x-mpegURL', 'url': 'https://video.twimg.com/ext_tw_video/6748053319
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'additional_media_info': {'monetizable': False}}
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1740
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'https://pbs.twimg.com/tweet_video_thumb/CVKtH-4WIAAmiQ5.png', 'url':
'https://t.co/SfPQ2KeLdq', 'display_url': 'pic.twitter.com/SfPQ2KeLdq',
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'https://twitter.com/dog_rates/status/671789708968640512/photo/1', 'type':
'animated_gif', 'sizes': {'medium': {'w': 400, 'h': 224, 'resize': 'fit'},
'large': {'w': 400, 'h': 224, 'resize': 'fit'}, 'small': {'w': 400, 'h': 224,
'resize': 'fit'}, 'thumb': {'w': 150, 'h': 150, 'resize': 'crop'}}},
'video_info': {'aspect_ratio': [25, 14], 'variants': [{'bitrate': 0,
'content_type': 'video/mp4', 'url':
'https://video.twimg.com/tweet_video/CVKtH-4WIAAmiQ5.mp4'}]}, 'features': {}}
=====

```

it looks like these fields differ only in case of a video post.

```

[129]: for i in range(0, len(wrd)):
        if wrd.iloc[i].entities['media'][0] != wrd.iloc[i].
        extended_entities['media'][0]:
            if 'video' not in wrd.iloc[i].entities['media'][0]['media_url']:
                print (i)

```

**Code** As the loop came out empty - the assumption above was correct.

```

[148]: wrd['video'] = wrd.entities.apply(lambda x: 'video' in_
        x['media'][0]['media_url'])

```

**Test**

```

[149]: wrd.info()

```

```

<class 'pandas.core.frame.DataFrame'>
Int64Index: 2061 entries, 0 to 2060
Data columns (total 31 columns):
tweet_id          2061 non-null int64
source            2061 non-null category
text              2061 non-null object
expanded_urls     2061 non-null object
rating_numerator  2061 non-null int64
rating_denominator 2061 non-null int64
name              2061 non-null object
doggo             2061 non-null bool
floofer           2061 non-null bool
pupper           2061 non-null bool
puppo            2061 non-null bool
jpg_url           2061 non-null object
img_num           2061 non-null int64
p1               2061 non-null object
p1_conf           2061 non-null float64

```

```

p1_dog          2061 non-null bool
p2              2061 non-null object
p2_conf         2061 non-null float64
p2_dog          2061 non-null bool
p3              2061 non-null object
p3_conf         2061 non-null float64
p3_dog          2061 non-null bool
created_at      2061 non-null datetime64[ns]
entities        2061 non-null object
extended_entities 2061 non-null object
favorite_count  2061 non-null int64
full_text       2061 non-null object
lang            2061 non-null category
retweet_count   2061 non-null int64
display_text_end 2061 non-null int64
video           2061 non-null bool
dtypes: bool(8), category(2), datetime64[ns](1), float64(3), int64(7),
object(10)
memory usage: 454.7+ KB

```

new boolean column video is added to the dataset.

## 0.9 Tidiness issues

### 0.9.1 Unpack hashtags from dictionaries

**Define** Hashtags are nested deep inside dictionaries. To be useful for analysis - they need to be extracted into a separate column.

#### Code

```
[150]: wrd['hashtags'] = wrd.entities.apply(lambda x: x['hashtags'])
```

```
[151]: def unpack_hashtags(x):
        try:
            return x[0]['text']
        except:
            return None

wrd.hashtags = wrd.hashtags.apply(lambda x: unpack_hashtags(x))
```

```
[152]: wrd.hashtags.unique()
```

```
[152]: array([None, 'BarkWeek', 'Canada150', 'PrideMonthPuppo', 'PrideMonth',
             'dogsatpollingstations', 'ScienceMarch', 'K9VeteransDay',
             'GoodDogs', 'WKCDogShow', 'BellLetsTalk', 'WomensMarch',
             'FinalFur', 'LoveTwitter', 'notallpuppers', 'NoDaysOff'],
            dtype=object)
```

Test

```
[ ]:
```

## 0.9.2 Unpack URLs from dictionaries

**Define** Same as hashtags - urls are nested deep inside dictionaries. They need to be extracted into a separate column.

Code

```
[153]: # take the single tweet url into a separate column
wrld['url'] = wrld.entities.apply(lambda x: x['media'][0]['url'])
```

```
[154]: # take all other urls into a separate column
wrld['expanded_urls'] = wrld.expanded_urls.apply(lambda x: x.split(','))
```

Test

```
[155]: r = randrange(0, len(wrld))
print(r, ' : ', wrld.iloc[r]['url'])
```

```
1568 : https://t.co/7E0AiJXPmI
```

```
[156]: # select a random item from list of entriels where 'urls' contains more than one
↳entry
r = choice(wrld[wrld['expanded_urls'].apply(lambda x: len(x) >
↳1)]['expanded_urls'].index)
print(r, ' : ', wrld.iloc[r]['expanded_urls'])
```

```
419 : ['https://twitter.com/dog_rates/status/801167903437357056/photo/1',
'https://twitter.com/dog_rates/status/801167903437357056/photo/1']
```

now that the relevant information has been extracted from `entities` and `extended_entities` columns - we can drop them.

```
[157]: wrld.drop(['entities', 'extended_entities'], axis=1, inplace=True)
```

```
[158]: wrld.columns
```

```
[158]: Index(['tweet_id', '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', 'created_at', 'favorite_count',
'full_text', 'lang', 'retweet_count', 'display_text_end', 'video',
'hashtags', 'url'],
dtype='object')
```



# 1 Insights

```
[159]: wrd.columns
```

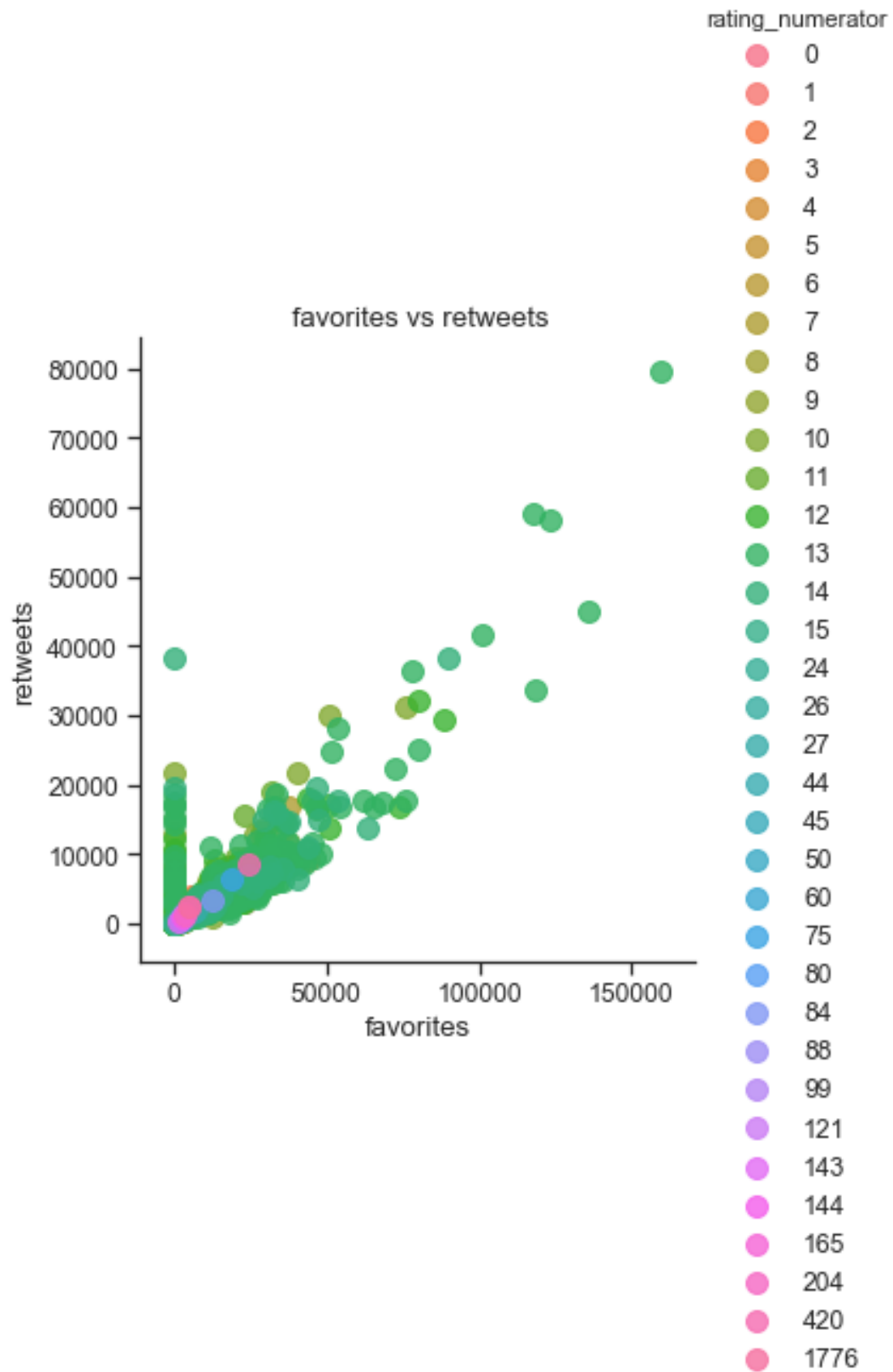
```
[159]: Index(['tweet_id', 'source', 'text', 'expanded_urls', 'rating_numerator',  
         'rating_denominator', 'name', 'doggo', 'floofer', 'pupper', 'puppo',  
         'jpg_url', 'img_num', 'p1', 'p1_conf', 'p1_dog', 'p2', 'p2_conf',  
         'p2_dog', 'p3', 'p3_conf', 'p3_dog', 'created_at', 'favorite_count',  
         'full_text', 'lang', 'retweet_count', 'display_text_end', 'video',  
         'hashtags', 'url'],  
        dtype='object')
```

## 1.1 Favorites and retweet correlation

let's do a scatter plot of the `favorite_count` and `retweet_count` columns to see whether there is any correlation between the two. As an added insight - let's colour the points with `rating_numerator` values to see whether this correlates as well.

```
[160]: # Set style of scatterplot  
sb.set_context("notebook", font_scale=1.1)  
sb.set_style("ticks")  
  
# Create scatterplot of dataframe  
sb.lmplot('favorite_count', # Horizontal axis  
         'retweet_count', # Vertical axis  
         data=wrd, # Data source  
         fit_reg=False, # Don't fix a regression line  
         hue='rating_numerator', # Set color  
         scatter_kws={"marker": "D", # Set marker style  
                     "s": 100}) # S marker size  
  
# Set title  
plt.title(' favorites vs retweets')  
  
# Set x-axis label  
plt.xlabel('favorites')  
  
# Set y-axis label  
plt.ylabel('retweets')
```

```
[160]: Text(46.17760803472221, 0.5, 'retweets')
```



Apart from the group that has zero favorites and numerous retweets (which is most likely a data quality issue, but we won't go into that with this analysis) - the two values seem to be almost linearly related.

## 1.2 Tool used to post tweets

What kind of tool does this account use most to post tweets?

```
[ ]: ax = sb.countplot(x=wrд.source, data=wrд)
```

Pretty clear - it's twitter's own app that is used to post most of the tweets.

## 1.3 At what time of the day are tweets mostly posted?

```
[ ]: sb.countplot(x=wrд.created_at.apply(lambda x: x.hour), data=wrд)
```

```
[ ]: sb.countplot(x=wrд.created_at.apply(lambda x: x.weekday()), data=wrд)
```

```
[ ]: sb.countplot(x=wrд.created_at.apply(lambda x: x.quarter), data=wrд)
```

```
[ ]: wrд.columns
```

```
[ ]: wrд[wrд['retweet_count'] > 38000]
```

```
[ ]: wrд[wrд['favorite_count'] == 0]
```

```
[ ]: wrд[wrд['rating_numerator'] == 0]
```