wrangle_act

January 30, 2019

0.1 Gather

```python
In [2]: import pandas as pd
        import numpy as np
        import requests
        import json
        import tweepy
        import time
        import  re
```

```python
In [3]: Tweet_Arch = pd.read_csv('DataSet/twitter-archive-enhanced.csv')
        Tweet_Arch.head(2)
```

```
Out[3]:            tweet_id  in_reply_to_status_id  in_reply_to_user_id  \
        0  892420643555336193                    NaN                  NaN
        1  892177421306343426                    NaN                  NaN

                           timestamp  \
        0  2017-08-01 16:23:56 +0000
        1  2017-08-01 00:17:27 +0000

                                                      source  \
        0  <a href="http://twitter.com/download/iphone" r...
        1  <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

            retweeted_status_user_id retweeted_status_timestamp  \
        0                        NaN                        NaN
        1                        NaN                        NaN

                                          expanded_urls  rating_numerator  \
        0  https://twitter.com/dog_rates/status/892420643...                13
        1  https://twitter.com/dog_rates/status/892177421...                13

            rating_denominator      name doggo floofer pupper puppo
```

1

```
          0                     10  Phineas  None    None  None  None
          1                     10    Tilly  None    None  None  None
```

In [4]: url="https://d17h27t6h515a5.cloudfront.net/topher/2017/August/599fd2ad_image-predictions
        IMG = requests.get(url)

        with open('image-predictions.tsv', 'wb') as file_IMG:
            file_IMG.write(IMG.content)

        Imges_pred = pd.read_csv('image-predictions.tsv', sep = '\t')
        Imges_pred.head(2)

Out[4]:   tweet_id   jpg_url \
        0 666020888022790149 https://pbs.twimg.com/media/CT4udnOWwAAOaMy.jpg
        1 666029285002620928 https://pbs.twimg.com/media/CT42GRgUYAA5iDo.jpg

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

           p2_conf p2_dog   p3   p3_conf p3_dog
        0 0.156665   True   Shetland_sheepdog 0.061428   True
        1 0.074192   True Rhodesian_ridgeback 0.072010   True

In [4]: import tweepy

        consumer_key = "AKSmr9RTtOMUm9FqtzJpggv4l"
        consumer_secret = "PC948j4DItrwtAjf3gjpJmQsfDJOIrLrzytHVlgu3iMmbKnuDu"
        access_token = "757599184778387456-h9kGQDWAQWW63qv5RFB5A6xR9yvL3aS"
        access_secret = "CSKVRr25ijwIT8yJCQReGZgNx9nyANzzGsZOWNlqnbpF8"

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

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

In [5]:
        json_list = []
        execption = []

        for tweet_id in Tweet_Arch['tweet_id']:
            try:
                line = api.get_status(tweet_id, tweet_mode = 'extended')
                favorite_count = line['favorite_count']
                retweet_count = line['retweet_count']
                created_at = line['created_at']
                json_list.append({'tweet_id': int(tweet_id),
                            'favorite_count': int(favorite_count),
                            'retweet_count': int(retweet_count),
```

2

```python
                                    'created_at': pd.to_datetime(created_at)})
            except Exception as e:
                print(str(e) + '->' + str(tweet_id))
```

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[{'message': 'Rate limit exceeded', 'code': 88}]->669749430875258880
[{'message': 'Rate limit exceeded', 'code': 88}]->669684865554620416
[{'message': 'Rate limit exceeded', 'code': 88}]->669683899023405056
[{'message': 'Rate limit exceeded', 'code': 88}]->669682095984410625
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[{'message': 'Rate limit exceeded', 'code': 88}]->669583744538451968
[{'message': 'Rate limit exceeded', 'code': 88}]->669573570759163904
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[{'message': 'Rate limit exceeded', 'code': 88}]->669567591774625800
[{'message': 'Rate limit exceeded', 'code': 88}]->669564461267722241
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[{'message': 'Rate limit exceeded', 'code': 88}]->669375718304980992
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[{'message': 'Rate limit exceeded', 'code': 88}]->669037058363662336
```

[{'message': 'Rate limit exceeded', 'code': 88}]->669015743032369152
[{'message': 'Rate limit exceeded', 'code': 88}]->669006782128353280
[{'message': 'Rate limit exceeded', 'code': 88}]->669000397445533696
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[{'message': 'Rate limit exceeded', 'code': 88}]->668955713004314625
[{'message': 'Rate limit exceeded', 'code': 88}]->668932921458302977
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[{'message': 'Rate limit exceeded', 'code': 88}]->668645506898350081
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[{'message': 'Rate limit exceeded', 'code': 88}]->668537837512433665
[{'message': 'Rate limit exceeded', 'code': 88}]->668528771708952576
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[{'message': 'Rate limit exceeded', 'code': 88}]->667544320556335104
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[{'message': 'Rate limit exceeded', 'code': 88}]->667534815156183040
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[{'message': 'Rate limit exceeded', 'code': 88}]->667200525029539841
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[{'message': 'Rate limit exceeded', 'code': 88}]->667176164155375616
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[{'message': 'Rate limit exceeded', 'code': 88}]->666996132027977728
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[{'message': 'Rate limit exceeded', 'code': 88}]->666804364988780544
[{'message': 'Rate limit exceeded', 'code': 88}]->666786068205871104
[{'message': 'Rate limit exceeded', 'code': 88}]->666781792255496192
[{'message': 'Rate limit exceeded', 'code': 88}]->666776908487630848
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[{'message': 'Rate limit exceeded', 'code': 88}]->666701168228331520
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[{'message': 'Rate limit exceeded', 'code': 88}]->666649482315059201
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[{'message': 'Rate limit exceeded', 'code': 88}]->666435652385423360

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[{'message': 'Rate limit exceeded', 'code': 88}]->666073100786774016
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[{'message': 'Rate limit exceeded', 'code': 88}]->666063827256086533
[{'message': 'Rate limit exceeded', 'code': 88}]->666058600524156928
[{'message': 'Rate limit exceeded', 'code': 88}]->666057090499244032
[{'message': 'Rate limit exceeded', 'code': 88}]->666055525042405380
[{'message': 'Rate limit exceeded', 'code': 88}]->666051853826850816
[{'message': 'Rate limit exceeded', 'code': 88}]->666050758794694657
[{'message': 'Rate limit exceeded', 'code': 88}]->666049248165822465
[{'message': 'Rate limit exceeded', 'code': 88}]->666044226329800704
[{'message': 'Rate limit exceeded', 'code': 88}]->666033412701032449
[{'message': 'Rate limit exceeded', 'code': 88}]->666029285002620928
[{'message': 'Rate limit exceeded', 'code': 88}]->666020888022790149

```
In [5]: df_tweets = pd.DataFrame(json_list, columns = ['tweet_id', 'favorite_count', 'retweet_co
        df_tweets.to_csv('tweet_json.txt', encoding = 'utf-8', index=False)


        ---------------------------------------------------------------------------

        NameError                                 Traceback (most recent call last)

        <ipython-input-5-88d00bb1a7c2> in <module>()
    ----> 1 df_tweets = pd.DataFrame(json_list, columns = ['tweet_id', 'favorite_count', 'retwee
          2 df_tweets.to_csv('tweet_json.txt', encoding = 'utf-8', index=False)
```

33

```
NameError: name 'json_list' is not defined
```

In [6]: df_tweets = pd.read_csv('tweet_json.txt', encoding = 'utf-8')
        df_tweets.head()

Out[6]:   tweet_id favorite_count retweet_count date_time
        0 892420643555336193   37986   8302   NaN
        1 892177421306343426   32617   6132   NaN
        2 891815181378084864   24554   4058   NaN
        3 891689557279858688   41327   8442   NaN
        4 891327558926688256   39507   9147   NaN

0.2 Assess Data

0.2.1 1- Twitter Archive

In [7]: Tweet_Arch.head()

Out[7]:   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  rating_numerator  \
0  https://twitter.com/dog_rates/status/892420643...                13
1  https://twitter.com/dog_rates/status/892177421...                13
2  https://twitter.com/dog_rates/status/891815181...                12
3  https://twitter.com/dog_rates/status/891689557...                13
4  https://twitter.com/dog_rates/status/891327558...                12

   rating_denominator      name 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
```

In [8]: Tweet_Arch.shape

Out[8]: (2356, 17)

In [9]: Tweet_Arch.tail()

Out[9]:
```
                  tweet_id  in_reply_to_status_id  in_reply_to_user_id  \
2351  666049248165822465                    NaN                  NaN
2352  666044226329800704                    NaN                  NaN
2353  666033412701032449                    NaN                  NaN
2354  666029285002620928                    NaN                  NaN
2355  666020888022790149                    NaN                  NaN

                       timestamp  \
2351  2015-11-16 00:24:50 +0000
2352  2015-11-16 00:04:52 +0000
2353  2015-11-15 23:21:54 +0000
2354  2015-11-15 23:05:30 +0000
2355  2015-11-15 22:32:08 +0000

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

                                                   text  retweeted_status_id  \
2351  Here we have a 1949 1st generation vulpix. Enj...                  NaN
```

```
2352  This is a purebred Piers Morgan. Loves to Netf...              NaN
2353  Here is a very happy pup. Big fan of well-main...              NaN
2354  This is a western brown Mitsubishi terrier. Up...              NaN
2355  Here we have a Japanese Irish Setter. Lost eye...              NaN


      retweeted_status_user_id retweeted_status_timestamp  \
2351                       NaN                        NaN
2352                       NaN                        NaN
2353                       NaN                        NaN
2354                       NaN                        NaN
2355                       NaN                        NaN


                                       expanded_urls  rating_numerator  \
2351  https://twitter.com/dog_rates/status/666049248...                 5
2352  https://twitter.com/dog_rates/status/666044226...                 6
2353  https://twitter.com/dog_rates/status/666033412...                 9
2354  https://twitter.com/dog_rates/status/666029285...                 7
2355  https://twitter.com/dog_rates/status/666020888...                 8


      rating_denominator  name doggo floofer pupper puppo
2351                  10  None  None    None   None  None
2352                  10     a  None    None   None  None
2353                  10     a  None    None   None  None
2354                  10     a  None    None   None  None
2355                  10  None  None    None   None  None
```

In [10]: Tweet_Arch.sample(5)

Out[10]:
```
                   tweet_id  in_reply_to_status_id  in_reply_to_user_id  \
346    831926988323639298           8.319030e+17           20683724.0
1440   696886256886657024                    NaN                  NaN
1263   710117014656950272                    NaN                  NaN
282    839239871831150596                    NaN                  NaN
2073   670995969505435648                    NaN                  NaN


                       timestamp  \
346    2017-02-15 18:03:45 +0000
1440   2016-02-09 02:40:05 +0000
1263   2016-03-16 14:54:24 +0000
282    2017-03-07 22:22:32 +0000
2073   2015-11-29 16:01:20 +0000


                                       source  \
346    <a href="http://twitter.com/download/iphone" r...
1440   <a href="http://twitter.com/download/iphone" r...
1263   <a href="http://twitter.com/download/iphone" r...
282    <a href="http://twitter.com/download/iphone" r...
2073   <a href="http://twitter.com/download/iphone" r...
```

```
                                              text  retweeted_status_id  \
346                            @UNC can confirm 12/10                  NaN
1440  Guys I found the dog from Up. 12/10 https://t...                 NaN
1263  This pupper got her hair chalked for her birth...                NaN
282   This is Odie. He's big. 13/10 would attempt to...                NaN
2073  Yea I can't handle this job anymore your dogs ...                NaN


      retweeted_status_user_id retweeted_status_timestamp  \
346                        NaN                        NaN
1440                       NaN                        NaN
1263                       NaN                        NaN
282                        NaN                        NaN
2073                       NaN                        NaN


                                    expanded_urls  rating_numerator  \
346                                           NaN                12
1440  https://twitter.com/dog_rates/status/696886256...            12
1263  https://twitter.com/dog_rates/status/710117014...            11
282   https://twitter.com/dog_rates/status/839239871...            13
2073  https://twitter.com/dog_rates/status/670995969...            12


      rating_denominator  name doggo floofer  pupper puppo
346                   10  None  None    None    None  None
1440                  10  None  None    None    None  None
1263                  10  None  None    None  pupper  None
282                   10  Odie  None    None    None  None
2073                  10  None  None    None    None  None
```

In [11]: Tweet_Arch.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
```

In [12]: Tweet_Arch.dtypes

Out[12]: tweet_id   int64
         in_reply_to_status_id   float64
         in_reply_to_user_id   float64
         timestamp   object
         source   object
         text   object
         retweeted_status_id   float64
         retweeted_status_user_id   float64
         retweeted_status_timestamp   object
         expanded_urls   object
         rating_numerator   int64
         rating_denominator   int64
         name   object
         doggo   object
         floofer   object
         pupper   object
         puppo   object
         dtype: object

In [13]: Tweet_Arch['tweet_id'].value_counts()

Out[13]: 749075273010798592   1
         741099773336379392   1
         798644042770751489   1
         825120256414846976   1
         769212283578875904   1
         700462010979500032   1
         780858289093574656   1
         699775878809702401   1
         880095782870896641   1
         760521673607086080   1
         776477788987613185   1
         691820033922455552   1
         715696743237730304   1
         714606013974974464   1
         760539183865880579   1
         813157409116065792   1
         676430933382295552   1
         743510151680958465   1
         837012587749474308   1
```

```
833722901757046785    1
818259473185828864    1
670704688707301377    1
667160273090932737    1
674394782723014656    1
672082170312290304    1
670093938074779648    1
759923798737051648    1
809920764300447744    1
805487436403003392    1
838085839343206401    1
                     ..
763956972077010945    1
870308999962521604    1
720775346191278080    1
785927819176054784    1
783347506784731136    1
775733305207554048    1
834209720923721728    1
825026590719483904    1
758405701903519748    1
668986018524233728    1
690938899477221376    1
667911425562669056    1
754482103782404096    1
713175907180089344    1
669015743032369152    1
672068090318987265    1
816829038950027264    1
683773439333797890    1
674291837063053312    1
837482249356513284    1
767500508068192258    1
773922284943896577    1
673342308415348736    1
886054160059072513    1
748307329658011649    1
715360349751484417    1
666817836334096384    1
794926597468000259    1
673705679337693185    1
700151421916807169    1
Name: tweet_id, Length: 2356, dtype: int64
```

In [14]: Tweet_Arch['name'].value_counts()

Out[14]: None   745
         a   55
```

Charlie	12
Lucy	11
Cooper	11
Oliver	11
Tucker	10
Penny	10
Lola	10
Winston	9
Bo	9
the	8
Sadie	8
Daisy	7
Bailey	7
Buddy	7
Toby	7
an	7
Jack	6
Stanley	6
Dave	6
Bella	6
Oscar	6
Scout	6
Leo	6
Rusty	6
Koda	6
Milo	6
Jax	6
very	5
	...
Chase	1
Dante	1
Dunkin	1
Izzy	1
Kaiya	1
Dex	1
William	1
Sojourner	1
Dallas	1
Barry	1
Amy	1
Kial	1
Berkeley	1
Michelangelope	1
Poppy	1
Sage	1
Rorie	1
Ronnie	1
Pluto	1

```
          Kayla                    1
          Ridley                   1
          Ambrose                  1
          Augie                    1
          Jiminus                  1
          Sailor                   1
          Kota                     1
          Chesney                  1
          Bradley                  1
          Barclay                  1
          Trip                     1
          Name: name, Length: 957, dtype: int64
```

In [15]:

```
          Tweet_Arch.loc[(Tweet_Arch['name'].str.islower())]
```

Out[15]:

```
                          tweet_id  in_reply_to_status_id  in_reply_to_user_id  \
          22      887517139158093824                    NaN                  NaN
          56      881536004380872706                    NaN                  NaN
          118     869988702071779329                    NaN                  NaN
          169     859196978902773760                    NaN                  NaN
          193     855459453768019968                    NaN                  NaN
          335     832645525019123713                    NaN                  NaN
          369     828650029636317184                    NaN                  NaN
          542     806219024703037440                    NaN                  NaN
          649     792913359805018113                    NaN                  NaN
          682     788552643979468800                    NaN                  NaN
          759     778396591732486144                    NaN                  NaN
          773     776249906839351296                    NaN                  NaN
          801     772581559778025472                    NaN                  NaN
          819     770655142660169732                    NaN                  NaN
          822     770093767776997377                    NaN                  NaN
          852     765395769549590528                    NaN                  NaN
          924     755206590534418437                    NaN                  NaN
          988     748977405889503236                    NaN                  NaN
          992     748692773788876800                    NaN                  NaN
          993     748575535303884801                    NaN                  NaN
          1002    747885874273214464                    NaN                  NaN
          1004    747816857231626240                    NaN                  NaN
          1017    746872823977771008                    NaN                  NaN
          1025    746369468511756288                    NaN                  NaN
          1031    745422732645535745                    NaN                  NaN
          1040    744223424764059648                    NaN                  NaN
          1049    743222593470234624                    NaN                  NaN
          1063    741067306818797568                    NaN                  NaN
          1071    740214038584557568                    NaN                  NaN
          1095    736392552031657984                    NaN                  NaN
          ...                    ...                    ...                  ...
```

2191	668955713004314625	NaN	NaN
2198	668815180734689280	NaN	NaN
2204	668636665813057536	NaN	NaN
2211	668614819948453888	NaN	NaN
2212	668587383441514497	NaN	NaN
2218	668507509523615744	NaN	NaN
2222	668466899341221888	NaN	NaN
2235	668171859951755264	NaN	NaN
2249	667861340749471744	NaN	NaN
2255	667773195014021121	NaN	NaN
2264	667538891197542400	NaN	NaN
2273	667470559035432960	NaN	NaN
2287	667177989038297088	NaN	NaN
2304	666983947667116034	NaN	NaN
2311	666781792255496192	NaN	NaN
2314	666701168228331520	NaN	NaN
2326	666411507551481857	NaN	NaN
2327	666407126856765440	NaN	NaN
2333	666337882303524864	NaN	NaN
2334	666293911632134144	NaN	NaN
2335	666287406224695296	NaN	NaN
2345	666063827256086533	NaN	NaN
2346	666058600524156928	NaN	NaN
2347	666057090499244032	NaN	NaN
2348	666055525042405380	NaN	NaN
2349	666051853826850816	NaN	NaN
2350	666050758794694657	NaN	NaN
2352	666044226329800704	NaN	NaN
2353	666033412701032449	NaN	NaN
2354	666029285002620928	NaN	NaN

```
                        timestamp  \
22     2017-07-19 03:39:09 +0000
56     2017-07-02 15:32:16 +0000
118    2017-05-31 18:47:24 +0000
169    2017-05-02 00:04:57 +0000
193    2017-04-21 16:33:22 +0000
335    2017-02-17 17:38:57 +0000
369    2017-02-06 17:02:17 +0000
542    2016-12-06 19:29:28 +0000
649    2016-10-31 02:17:31 +0000
682    2016-10-19 01:29:35 +0000
759    2016-09-21 00:53:04 +0000
773    2016-09-15 02:42:54 +0000
801    2016-09-04 23:46:12 +0000
819    2016-08-30 16:11:18 +0000
822    2016-08-29 03:00:36 +0000
852    2016-08-16 03:52:26 +0000
```

```
924    2016-07-19 01:04:16 +0000
988    2016-07-01 20:31:43 +0000
992    2016-07-01 01:40:41 +0000
993    2016-06-30 17:54:50 +0000
1002   2016-06-28 20:14:22 +0000
1004   2016-06-28 15:40:07 +0000
1017   2016-06-26 01:08:52 +0000
1025   2016-06-24 15:48:42 +0000
1031   2016-06-22 01:06:43 +0000
1040   2016-06-18 17:41:06 +0000
1049   2016-06-15 23:24:09 +0000
1063   2016-06-10 00:39:48 +0000
1071   2016-06-07 16:09:13 +0000
1095   2016-05-28 03:04:00 +0000
...                         ...
2191   2015-11-24 00:54:05 +0000
2198   2015-11-23 15:35:39 +0000
2204   2015-11-23 03:46:18 +0000
2211   2015-11-23 02:19:29 +0000
2212   2015-11-23 00:30:28 +0000
2218   2015-11-22 19:13:05 +0000
2222   2015-11-22 16:31:42 +0000
2235   2015-11-21 20:59:20 +0000
2249   2015-11-21 00:25:26 +0000
2255   2015-11-20 18:35:10 +0000
2264   2015-11-20 03:04:08 +0000
2273   2015-11-19 22:32:36 +0000
2287   2015-11-19 03:10:02 +0000
2304   2015-11-18 14:18:59 +0000
2311   2015-11-18 00:55:42 +0000
2314   2015-11-17 19:35:19 +0000
2326   2015-11-17 00:24:19 +0000
2327   2015-11-17 00:06:54 +0000
2333   2015-11-16 19:31:45 +0000
2334   2015-11-16 16:37:02 +0000
2335   2015-11-16 16:11:11 +0000
2345   2015-11-16 01:22:45 +0000
2346   2015-11-16 01:01:59 +0000
2347   2015-11-16 00:55:59 +0000
2348   2015-11-16 00:49:46 +0000
2349   2015-11-16 00:35:11 +0000
2350   2015-11-16 00:30:50 +0000
2352   2015-11-16 00:04:52 +0000
2353   2015-11-15 23:21:54 +0000
2354   2015-11-15 23:05:30 +0000


                                      source  \
22     <a href="http://twitter.com/download/iphone" r...
```

```
56    <a href="http://twitter.com/download/iphone" r...
118   <a href="http://twitter.com/download/iphone" r...
169   <a href="http://twitter.com/download/iphone" r...
193   <a href="http://twitter.com/download/iphone" r...
335   <a href="http://twitter.com" rel="nofollow">Tw...
369   <a href="http://twitter.com/download/iphone" r...
542   <a href="http://twitter.com/download/iphone" r...
649   <a href="http://twitter.com/download/iphone" r...
682   <a href="http://twitter.com/download/iphone" r...
759   <a href="http://twitter.com/download/iphone" r...
773   <a href="http://twitter.com/download/iphone" r...
801   <a href="http://twitter.com/download/iphone" r...
819   <a href="http://twitter.com/download/iphone" r...
822   <a href="http://twitter.com/download/iphone" r...
852   <a href="http://twitter.com/download/iphone" r...
924   <a href="http://twitter.com/download/iphone" r...
988   <a href="http://twitter.com/download/iphone" r...
992   <a href="http://twitter.com/download/iphone" r...
993   <a href="http://twitter.com/download/iphone" r...
1002  <a href="http://twitter.com/download/iphone" r...
1004  <a href="http://twitter.com/download/iphone" r...
1017  <a href="http://twitter.com/download/iphone" r...
1025  <a href="http://twitter.com/download/iphone" r...
1031  <a href="http://twitter.com/download/iphone" r...
1040  <a href="http://twitter.com/download/iphone" r...
1049  <a href="http://twitter.com/download/iphone" r...
1063  <a href="http://twitter.com/download/iphone" r...
1071  <a href="http://twitter.com/download/iphone" r...
1095  <a href="http://vine.co" rel="nofollow">Vine -...
...                                                  ...
2191  <a href="http://twitter.com/download/iphone" r...
2198  <a href="http://twitter.com/download/iphone" r...
2204  <a href="http://twitter.com/download/iphone" r...
2211  <a href="http://twitter.com/download/iphone" r...
2212  <a href="http://vine.co" rel="nofollow">Vine -...
2218  <a href="http://twitter.com/download/iphone" r...
2222  <a href="http://twitter.com/download/iphone" r...
2235  <a href="http://twitter.com/download/iphone" r...
2249  <a href="http://twitter.com/download/iphone" r...
2255  <a href="http://twitter.com" rel="nofollow">Tw...
2264  <a href="http://twitter.com" rel="nofollow">Tw...
2273  <a href="http://twitter.com" rel="nofollow">Tw...
2287  <a href="http://twitter.com/download/iphone" r...
2304  <a href="http://twitter.com/download/iphone" r...
2311  <a href="http://twitter.com/download/iphone" r...
2314  <a href="http://twitter.com/download/iphone" r...
2326  <a href="http://twitter.com/download/iphone" r...
2327  <a href="http://twitter.com/download/iphone" r...
```

```
2333  <a href="http://twitter.com/download/iphone" r...
2334  <a href="http://twitter.com/download/iphone" r...
2335  <a href="http://twitter.com/download/iphone" r...
2345  <a href="http://twitter.com/download/iphone" r...
2346  <a href="http://twitter.com/download/iphone" r...
2347  <a href="http://twitter.com/download/iphone" r...
2348  <a href="http://twitter.com/download/iphone" r...
2349  <a href="http://twitter.com/download/iphone" r...
2350  <a href="http://twitter.com/download/iphone" r...
2352  <a href="http://twitter.com/download/iphone" r...
2353  <a href="http://twitter.com/download/iphone" r...
2354  <a href="http://twitter.com/download/iphone" r...


                                                  text  retweeted_status_id  \
22    I've yet to rate a Venezuelan Hover Wiener. Th...                  NaN
56    Here is a pupper approaching maximum borkdrive...                  NaN
118   RT @dog_rates: We only rate dogs. This is quit...         8.591970e+17
169   We only rate dogs. This is quite clearly a smo...                  NaN
193   Guys, we only rate dogs. This is quite clearly...                  NaN
335   There's going to be a dog terminal at JFK Airp...                  NaN
369   Occasionally, we're sent fantastic stories. Th...                  NaN
542   We only rate dogs. Please stop sending in non-...                  NaN
649   Here is a perfect example of someone who has t...                  NaN
682   RT @dog_rates: Say hello to mad pupper. You kn...         7.363926e+17
759   RT @dog_rates: This is an East African Chalupa...         7.030419e+17
773   RT @dog_rates: We only rate dogs. Pls stop sen...         7.007478e+17
801   Guys this is getting so out of hand. We only r...                  NaN
819   We only rate dogs. Pls stop sending in non-can...                  NaN
822   RT @dog_rates: This is just downright precious...         7.410673e+17
852   This is my dog. Her name is Zoey. She knows I'...                  NaN
924   This is one of the most inspirational stories ...                  NaN
988   What jokester sent in a pic without a dog in i...                  NaN
992   That is Quizno. This is his beach. He does not...                  NaN
993   This is one of the most reckless puppers I've ...                  NaN
1002  This is a mighty rare blue-tailed hammer sherk...                  NaN
1004  Viewer discretion is advised. This is a terrib...                  NaN
1017  This is a carrot. We only rate dogs. Please on...                  NaN
1025  This is an Iraqi Speed Kangaroo. It is not a d...                  NaN
1031  We only rate dogs. Pls stop sending in non-can...                  NaN
1040  This is actually a pupper and I'd pet it so we...                  NaN
1049  This is a very rare Great Alaskan Bush Pupper...                   NaN
1063  This is just downright precious af. 12/10 for ...                  NaN
1071  This is getting incredibly frustrating. This i...                  NaN
1095  Say hello to mad pupper. You know what you did...                  NaN
...                                                ...                  ...
2191  This is a Slovakian Helter Skelter Feta named ...                  NaN
2198  This is a wild Toblerone from Papua New Guinea...                  NaN
2204  This is an Irish Rigatoni terrier named Berta...                   NaN
```

```
2211    Here is a horned dog. Much grace. Can jump ove...         NaN
2212    Never forget this vine. You will not stop watc...         NaN
2218    This is a Birmingham Quagmire named Chuk. Love...         NaN
2222    Here is a mother dog caring for her pups. Snaz...         NaN
2235    This is a Trans Siberian Kellogg named Alfonso...         NaN
2249    This is a Shotokon Macadamia mix named Cheryl...          NaN
2255    This is a rare Hungarian Pinot named Jessiga. ...         NaN
2264    This is a southwest Coriander named Klint. Hat...         NaN
2273    This is a northern Wahoo named Kohl. He runs t...         NaN
2287    This is a Dasani Kingfisher from Maine. His na...         NaN
2304    This is a curly Ticonderoga named Pepe. No fee...         NaN
2311    This is a purebred Bacardi named Octaviath. Ca...         NaN
2314    This is a golden Buckminsterfullerene named Jo...         NaN
2326    This is quite the dog. Gets really excited whe...         NaN
2327    This is a southern Vesuvius bumblegruff. Can d...         NaN
2333    This is an extremely rare horned Parthenon. No...         NaN
2334    This is a funny dog. Weird toes. Won't come do...         NaN
2335    This is an Albanian 3 1/2 legged  Episcopalian...         NaN
2345    This is the happiest dog you will ever see. Ve...         NaN
2346    Here is the Rand Paul of retrievers folks! He'...         NaN
2347    My oh my. This is a rare blond Canadian terrie...         NaN
2348    Here is a Siberian heavily armored polar bear ...         NaN
2349    This is an odd dog. Hard on the outside but lo...         NaN
2350    This is a truly beautiful English Wilson Staff...         NaN
2352    This is a purebred Piers Morgan. Loves to Netf...         NaN
2353    Here is a very happy pup. Big fan of well-main...         NaN
2354    This is a western brown Mitsubishi terrier. Up...         NaN


        retweeted_status_user_id retweeted_status_timestamp  \
22                           NaN                        NaN
56                           NaN                        NaN
118                 4.196984e+09  2017-05-02 00:04:57 +0000
169                          NaN                        NaN
193                          NaN                        NaN
335                          NaN                        NaN
369                          NaN                        NaN
542                          NaN                        NaN
649                          NaN                        NaN
682                 4.196984e+09  2016-05-28 03:04:00 +0000
759                 4.196984e+09  2016-02-26 02:20:37 +0000
773                 4.196984e+09  2016-02-19 18:24:26 +0000
801                          NaN                        NaN
819                          NaN                        NaN
822                 4.196984e+09  2016-06-10 00:39:48 +0000
852                          NaN                        NaN
924                          NaN                        NaN
988                          NaN                        NaN
992                          NaN                        NaN
```

```
993                          NaN                  NaN
1002                         NaN                  NaN
1004                         NaN                  NaN
1017                         NaN                  NaN
1025                         NaN                  NaN
1031                         NaN                  NaN
1040                         NaN                  NaN
1049                         NaN                  NaN
1063                         NaN                  NaN
1071                         NaN                  NaN
1095                         NaN                  NaN
...                          ...                  ...
2191                         NaN                  NaN
2198                         NaN                  NaN
2204                         NaN                  NaN
2211                         NaN                  NaN
2212                         NaN                  NaN
2218                         NaN                  NaN
2222                         NaN                  NaN
2235                         NaN                  NaN
2249                         NaN                  NaN
2255                         NaN                  NaN
2264                         NaN                  NaN
2273                         NaN                  NaN
2287                         NaN                  NaN
2304                         NaN                  NaN
2311                         NaN                  NaN
2314                         NaN                  NaN
2326                         NaN                  NaN
2327                         NaN                  NaN
2333                         NaN                  NaN
2334                         NaN                  NaN
2335                         NaN                  NaN
2345                         NaN                  NaN
2346                         NaN                  NaN
2347                         NaN                  NaN
2348                         NaN                  NaN
2349                         NaN                  NaN
2350                         NaN                  NaN
2352                         NaN                  NaN
2353                         NaN                  NaN
2354                         NaN                  NaN

                                    expanded_urls  rating_numerator  \
22     https://twitter.com/dog_rates/status/887517139...                14
56     https://twitter.com/dog_rates/status/881536004...                14
118    https://twitter.com/dog_rates/status/859196978...                12
169    https://twitter.com/dog_rates/status/859196978...                12
```

```
193    https://twitter.com/dog_rates/status/855459453...          12
335    http://us.blastingnews.com/news/2017/02/jfk-an...          10
369    https://twitter.com/dog_rates/status/828650029...          14
542    https://twitter.com/dog_rates/status/806219024...          11
649    https://twitter.com/dog_rates/status/792913359...          13
682    https://vine.co/v/iEggaEOiLO3,https://vine.co/...          13
759    https://twitter.com/dog_rates/status/703041949...          10
773    https://twitter.com/dog_rates/status/700747788...          11
801    https://twitter.com/dog_rates/status/772581559...          10
819    https://twitter.com/dog_rates/status/770655142...          11
822    https://twitter.com/dog_rates/status/741067306...          12
852    https://twitter.com/dog_rates/status/765395769...          13
924    https://twitter.com/dog_rates/status/755206590...          14
988    https://twitter.com/dog_rates/status/748977405...          10
992    https://twitter.com/dog_rates/status/748692773...          10
993    https://twitter.com/dog_rates/status/748575535...           6
1002   https://twitter.com/dog_rates/status/747885874...           8
1004   https://twitter.com/dog_rates/status/747816857...           4
1017   https://twitter.com/dog_rates/status/746872823...          11
1025   https://twitter.com/dog_rates/status/746369468...           9
1031   https://twitter.com/dog_rates/status/745422732...           9
1040   https://twitter.com/strange_animals/status/672...          12
1049   https://twitter.com/dog_rates/status/743222593...          12
1063   https://twitter.com/dog_rates/status/741067306...          12
1071   https://twitter.com/dog_rates/status/740214038...          10
1095                      https://vine.co/v/iEggaEOiLO3          13
...                                             ...          ...
2191   https://twitter.com/dog_rates/status/668955713...          10
2198   https://twitter.com/dog_rates/status/668815180...           7
2204   https://twitter.com/dog_rates/status/668636665...          10
2211   https://twitter.com/dog_rates/status/668614819...           7
2212                      https://vine.co/v/ea0OwvPTx9l          13
2218   https://twitter.com/dog_rates/status/668507509...          10
2222   https://twitter.com/dog_rates/status/668466899...           4
2235   https://twitter.com/dog_rates/status/668171859...           7
2249   https://twitter.com/dog_rates/status/667861340...           9
2255   https://twitter.com/dog_rates/status/667773195...           8
2264   https://twitter.com/dog_rates/status/667538891...           9
2273   https://twitter.com/dog_rates/status/667470559...          11
2287   https://twitter.com/dog_rates/status/667177989...           8
2304   https://twitter.com/dog_rates/status/666983947...          11
2311   https://twitter.com/dog_rates/status/666781792...          10
2314   https://twitter.com/dog_rates/status/666701168...           8
2326   https://twitter.com/dog_rates/status/666411507...           2
2327   https://twitter.com/dog_rates/status/666407126...           7
2333   https://twitter.com/dog_rates/status/666337882...           9
2334   https://twitter.com/dog_rates/status/666293911...           3
2335   https://twitter.com/dog_rates/status/666287406...           1
```

2345	https://twitter.com/dog_rates/status/666063827...	10
2346	https://twitter.com/dog_rates/status/666058600...	8
2347	https://twitter.com/dog_rates/status/666057090...	9
2348	https://twitter.com/dog_rates/status/666055525...	10
2349	https://twitter.com/dog_rates/status/666051853...	2
2350	https://twitter.com/dog_rates/status/666050758...	10
2352	https://twitter.com/dog_rates/status/666044226...	6
2353	https://twitter.com/dog_rates/status/666033412...	9
2354	https://twitter.com/dog_rates/status/666029285...	7

	rating_denominator	name	doggo	floofer	pupper	puppo
22	10	such	None	None	None	None
56	10	a	None	None	pupper	None
118	10	quite	None	None	None	None
169	10	quite	None	None	None	None
193	10	quite	None	None	None	None
335	10	not	None	None	None	None
369	10	one	None	None	None	None
542	10	incredibly	None	None	None	None
649	10	a	None	None	None	None
682	10	mad	None	None	pupper	None
759	10	an	None	None	None	None
773	10	very	None	None	None	None
801	10	a	None	None	None	None
819	10	very	None	None	None	None
822	10	just	doggo	None	pupper	None
852	10	my	None	None	None	None
924	10	one	doggo	None	None	None
988	10	not	None	None	None	None
992	10	his	doggo	None	None	None
993	10	one	None	None	None	None
1002	10	a	None	None	None	None
1004	10	a	None	None	None	None
1017	10	a	None	None	None	None
1025	10	an	None	None	None	None
1031	10	very	None	None	None	None
1040	10	actually	None	None	pupper	None
1049	10	a	None	None	pupper	None
1063	10	just	doggo	None	pupper	None
1071	10	getting	None	None	None	None
1095	10	mad	None	None	pupper	None
...	...	...	...	...	...	...
2191	10	a	None	None	None	None
2198	10	a	None	None	None	None
2204	10	an	None	None	None	None
2211	10	a	None	None	None	None
2212	10	the	None	None	None	None
2218	10	a	None	None	None	None

```
        2222                    10           a   None   None   None   None
        2235                    10           a   None   None   None   None
        2249                    10           a   None   None   None   None
        2255                    10           a   None   None   None   None
        2264                    10           a   None   None   None   None
        2273                    10           a   None   None   None   None
        2287                    10           a   None   None   None   None
        2304                    10           a   None   None   None   None
        2311                    10           a   None   None   None   None
        2314                    10           a   None   None   None   None
        2326                    10       quite   None   None   None   None
        2327                    10           a   None   None   None   None
        2333                    10          an   None   None   None   None
        2334                    10           a   None   None   None   None
        2335                     2          an   None   None   None   None
        2345                    10         the   None   None   None   None
        2346                    10         the   None   None   None   None
        2347                    10           a   None   None   None   None
        2348                    10           a   None   None   None   None
        2349                    10          an   None   None   None   None
        2350                    10           a   None   None   None   None
        2352                    10           a   None   None   None   None
        2353                    10           a   None   None   None   None
        2354                    10           a   None   None   None   None

        [109 rows x 17 columns]
```

In [16]: Tweet_Arch['doggo'].value_counts()

Out[16]: None   2259
         doggo   97
         Name: doggo, dtype: int64

In [17]: Tweet_Arch['floofer'].value_counts()

Out[17]: None   2346
         floofer   10
         Name: floofer, dtype: int64

In [18]: Tweet_Arch['pupper'].value_counts()

Out[18]: None   2099
         pupper   257
         Name: pupper, dtype: int64

In [19]: Tweet_Arch['puppo'].value_counts()

Out[19]: None   2326
         puppo   30
         Name: puppo, dtype: int64

0.2.2 2- tweet image predictions

In [20]: Imges_pred.head()

Out[20]:
```
             tweet_id                                       jpg_url  \
0  666020888022790149  https://pbs.twimg.com/media/CT4udn0WwAA0aMy.jpg
1  666029285002620928  https://pbs.twimg.com/media/CT42GRgUYAA5iDo.jpg
2  666033412701032449  https://pbs.twimg.com/media/CT4521TWwAEvMyu.jpg
3  666044226329800704  https://pbs.twimg.com/media/CT5Dr8HUEAA-lEu.jpg
4  666049248165822465  https://pbs.twimg.com/media/CT5IQmsXIAAKY4A.jpg

   img_num                     p1   p1_conf  p1_dog                 p2  \
0        1  Welsh_springer_spaniel  0.465074    True             collie
1        1                 redbone  0.506826    True  miniature_pinscher
2        1         German_shepherd  0.596461    True           malinois
3        1      Rhodesian_ridgeback  0.408143    True            redbone
4        1      miniature_pinscher  0.560311    True         Rottweiler

    p2_conf  p2_dog                   p3   p3_conf  p3_dog
0  0.156665    True    Shetland_sheepdog  0.061428    True
1  0.074192    True  Rhodesian_ridgeback  0.072010    True
2  0.138584    True           bloodhound  0.116197    True
3  0.360687    True   miniature_pinscher  0.222752    True
4  0.243682    True             Doberman  0.154629    True
```

In [21]: Imges_pred.shape

Out[21]: (2075, 12)

In [22]: Imges_pred.tail()

Out[22]:
```
                tweet_id                                       jpg_url  \
2070  891327558926688256  https://pbs.twimg.com/media/DF6hr6BUMAAzZgT.jpg
2071  891689557279858688  https://pbs.twimg.com/media/DF_q7IAWsAEuuN8.jpg
2072  891815181378084864  https://pbs.twimg.com/media/DGBdLU1WsAANxJ9.jpg
2073  892177421306343426  https://pbs.twimg.com/media/DGGmoV4XsAAUL6n.jpg
2074  892420643555336193  https://pbs.twimg.com/media/DGKD1-bXoAAIAUK.jpg

      img_num           p1   p1_conf  p1_dog                  p2   p2_conf  \
2070        2       basset  0.555712    True    English_springer  0.225770
2071        1  paper_towel  0.170278   False  Labrador_retriever  0.168086
2072        1    Chihuahua  0.716012    True            malamute  0.078253
2073        1    Chihuahua  0.323581    True            Pekinese  0.090647
2074        1       orange  0.097049   False               bagel  0.085851

      p2_dog                           p3   p3_conf  p3_dog
2070    True  German_short-haired_pointer  0.175219    True
2071    True                      spatula  0.040836   False
2072    True                        kelpie  0.031379    True
```

51

```
        2073    True                    papillon  0.068957    True
        2074    False                     banana  0.076110    False

In [23]: Imges_pred.sample(5)

Out[23]:                tweet_id                                    jpg_url  \
        906    700167517596164096   https://pbs.twimg.com/media/Cbd-o8hWwAE4OFm.jpg
        1443   775729183532220416   https://pbs.twimg.com/media/CsPxk85XEAAeMQj.jpg
        1349   759566828574212096   https://pbs.twimg.com/media/CkNjahBXAAQ2kWo.jpg
        257    670778058496974848   https://pbs.twimg.com/media/CU8VFhuVAAAQW8B.jpg
        587    679062614270468097   https://pbs.twimg.com/media/CWyD2HGUYAQ1Xa7.jpg


                img_num              p1    p1_conf  p1_dog                   p2  \
        906          1           beagle   0.162585    True             Pembroke
        1443         1         web_site   0.989407   False    hand-held_computer
        1349         1  Labrador_retriever  0.967397  True       golden_retriever
        257          1              pug   0.776612    True    Brabancon_griffon
        587          2     cash_machine   0.802333   False            schipperke


               p2_conf  p2_dog                p3    p3_conf  p3_dog
        906    0.120481    True   Siberian_husky   0.110284    True
        1443   0.002139   False            menu   0.002115   False
        1349   0.016641    True        ice_bear   0.014858   False
        257    0.112032    True           boxer   0.039051    True
        587    0.045519    True  German_shepherd   0.023353    True

In [24]: img_dup = Imges_pred["jpg_url"]
        Imges_pred[img_dup.isin(img_dup[img_dup.duplicated()])]

Out[24]:                tweet_id                                    jpg_url  \
        85     667509364010450944    https://pbs.twimg.com/media/CUN4Or5UAAAa5K4.jpg
        224    670319130621435904    https://pbs.twimg.com/media/CU1zsMSUAAASOqW.jpg
        241    670444955656130560    https://pbs.twimg.com/media/CU3mITUWIAAfyQS.jpg
        327    671896809300709376    https://pbs.twimg.com/media/CVMOlMiWwAA4Yxl.jpg
        382    673320132811366400    https://pbs.twimg.com/media/CVgdFjNWEAAxmbq.jpg
        432    674291837063053312    https://pbs.twimg.com/media/CVuQ2LeUsAAIe3s.jpg
        480    675354435921575936   https://pbs.twimg.com/ext_tw_video_thumb/67535...
        487    675501075957489664    https://pbs.twimg.com/media/CV_cnjHWUAADc-c.jpg
        587    679062614270468097    https://pbs.twimg.com/media/CWyD2HGUYAQ1Xa7.jpg
        591    679158373988876288    https://pbs.twimg.com/media/CWza7kpWcAAdYLc.jpg
        602    679828447187857408    https://pbs.twimg.com/media/CW88XN4WsAAlo8r.jpg
        713    685325112850124800    https://pbs.twimg.com/media/CYLDikFWEAAIy1y.jpg
        800    691416866452082688    https://pbs.twimg.com/media/CZhn-QAWwAASQan.jpg
        915    701214700881756160    https://pbs.twimg.com/media/Cbs3DOAXIAAp3Bd.jpg
        930    703041949650034688    https://pbs.twimg.com/media/CcGO7BYWOAErrC9.jpg
        985    707610948723478529    https://pbs.twimg.com/media/CdHwZdOVIAA4792.jpg
        1033   711694788429553666   https://pbs.twimg.com/tweet_video_thumb/CeBym7...
        1045   712809025985978368    https://pbs.twimg.com/media/CeRoBaxWEAABiOX.jpg
        1118   725842289046749185    https://pbs.twimg.com/media/ChK1tdBWwAQ1flD.jpg
```

```
1150   732005617171337216         https://pbs.twimg.com/media/CiibOMzUYAA9Mxz.jpg
1155   733109485275860992         https://pbs.twimg.com/media/CiyHLocU4AI2pJu.jpg
1188   739544079319588864         https://pbs.twimg.com/media/CkNjahBXAAQ2kWo.jpg
1201   741067306818797568         https://pbs.twimg.com/media/CkjMx99UoAM2B1a.jpg
1209   742423170473463808         https://pbs.twimg.com/media/Ck2d7tJWUAEPTL3.jpg
1283   750429297815552001         https://pbs.twimg.com/media/CmoPdmHW8AAi8BI.jpg
1297   752309394570878976    https://pbs.twimg.com/ext_tw_video_thumb/67535...
1315   754874841593970688         https://pbs.twimg.com/media/CWza7kpWcAAdYLc.jpg
1333   757729163776290825         https://pbs.twimg.com/media/CWyD2HGUYAQ1Xa7.jpg
1345   759159934323924993         https://pbs.twimg.com/media/CU1zsMSUAAASOqW.jpg
1349   759566828574212096         https://pbs.twimg.com/media/CkNjahBXAAQ2kWo.jpg
...                    ...                                                      ...
1699   816829038950027264         https://pbs.twimg.com/media/CvoBPWRWgAA4het.jpg
1703   817181837579653120    https://pbs.twimg.com/ext_tw_video_thumb/81596...
1705   817423860136083457    https://pbs.twimg.com/ext_tw_video_thumb/81742...
1712   818588835076603904         https://pbs.twimg.com/media/Crwxb5yWgAAX5P_.jpg
1715   819004803107983360         https://pbs.twimg.com/media/C12whDoVEAALRxa.jpg
1716   819006400881917954         https://pbs.twimg.com/media/C12x-JTVIAAzdfl.jpg
1717   819015331746349057         https://pbs.twimg.com/media/C12x-JTVIAAzdfl.jpg
1718   819015337530290176         https://pbs.twimg.com/media/C12whDoVEAALRxa.jpg
1727   820446719150292993         https://pbs.twimg.com/media/CxqsX-8XUAAEvjD.jpg
1736   821813639212650496         https://pbs.twimg.com/media/CtVAvX-WIAAcGTf.jpg
1738   822244816520155136         https://pbs.twimg.com/media/C2kzTGxWEAEOpPL.jpg
1740   822489057087389700         https://pbs.twimg.com/media/C2oRbOuWEAAbVSl.jpg
1742   822647212903690241         https://pbs.twimg.com/media/C2oRbOuWEAAbVSl.jpg
1746   823269594223824897         https://pbs.twimg.com/media/C2kzTGxWEAEOpPL.jpg
1755   824796380199809024         https://pbs.twimg.com/media/CwiuEJmW8AAZnit.jpg
1767   826958653328592898         https://pbs.twimg.com/media/C3nygbBWQAAjwcW.jpg
1785   829374341691346946         https://pbs.twimg.com/media/C4KHj-nWQAA3poV.jpg
1789   829878982036299777         https://pbs.twimg.com/media/C3nygbBWQAAjwcW.jpg
1791   830583320585068544         https://pbs.twimg.com/media/C4bTH6nWMAAX_bJ.jpg
1803   832040443403784192         https://pbs.twimg.com/media/Cq9guJ5WgAADfpF.jpg
1804   832215726631055365         https://pbs.twimg.com/media/CwJR1okWIAA6XMp.jpg
1858   841833993020538882    https://pbs.twimg.com/ext_tw_video_thumb/81742...
1864   842892208864923648    https://pbs.twimg.com/ext_tw_video_thumb/80710...
1903   851953902622658560         https://pbs.twimg.com/media/C4KHj-nWQAA3poV.jpg
1944   861769973181624320         https://pbs.twimg.com/media/CzG425nWgAAnP7P.jpg
1970   868880397819494401         https://pbs.twimg.com/media/DA7iHL5U0AA1OQo.jpg
1992   873697596434513921         https://pbs.twimg.com/media/DA7iHL5U0AA1OQo.jpg
2041   885311592912609280         https://pbs.twimg.com/media/C4bTH6nWMAAX_bJ.jpg
2051   887473957103951883         https://pbs.twimg.com/media/DFDw2tyUQAAAFke.jpg
2055   888202515573088257         https://pbs.twimg.com/media/DFDw2tyUQAAAFke.jpg

      img_num                          p1   p1_conf  p1_dog  \
85          1                      beagle  0.636169    True
224         1               Irish_terrier  0.254856    True
241         1             English_springer  0.403698    True
327         1                        chow  0.243529    True
```

```
382         3              Samoyed  0.978833   True
432         1             Cardigan  0.611525   True
480         1              upright  0.303415  False
487         1                dough  0.806757  False
587         2         cash_machine  0.802333  False
591         1                  pug  0.272205   True
602         3            Chihuahua  0.346545   True
713         1     golden_retriever  0.586937   True
800         1     Lakeland_terrier  0.530104   True
915         1            Chihuahua  0.615163   True
930         1          hippopotamus  0.581403  False
985         1     golden_retriever  0.383223   True
1033        1           brown_bear  0.713293  False
1045        1   Labrador_retriever  0.868671   True
1118        1           toy_poodle  0.420463   True
1150        1        English_setter  0.677408   True
1155        1     golden_retriever  0.945523   True
1188        1   Labrador_retriever  0.967397   True
1201        1     golden_retriever  0.843799   True
1209        1                  pug  0.997310   True
1283        1     golden_retriever  0.964929   True
1297        1              upright  0.303415  False
1315        1                  pug  0.272205   True
1333        2         cash_machine  0.802333  False
1345        1        Irish_terrier  0.254856   True
1349        1   Labrador_retriever  0.967397   True
...       ...                  ...       ...    ...
1699        1            dishwasher  0.700466  False
1703        1       Tibetan_mastiff  0.506312   True
1705        1             ice_bear  0.336200  False
1712        1   Norwegian_elkhound  0.372202   True
1715        1       standard_poodle  0.351308   True
1716        4               prison  0.907083  False
1717        4               prison  0.907083  False
1718        1       standard_poodle  0.351308   True
1727        3     golden_retriever  0.938048   True
1736        1         Saint_Bernard  0.995143   True
1738        1              Samoyed  0.585441   True
1740        1              Samoyed  0.416769   True
1742        1              Samoyed  0.416769   True
1746        1              Samoyed  0.585441   True
1755        2             gas_pump  0.676439  False
1767        1     golden_retriever  0.617389   True
1785        1 Staffordshire_bullterrier  0.757547   True
1789        1     golden_retriever  0.617389   True
1791        1   Labrador_retriever  0.908703   True
1803        1     miniature_pinscher  0.796313   True
1804        1          Afghan_hound  0.274637   True
```

```
1858                  1                    ice_bear  0.336200   False
1864                  1                   Chihuahua  0.505370    True
1903                  1    Staffordshire_bullterrier  0.757547    True
1944                  2                Arabian_camel  0.366248   False
1970                  1                       laptop  0.153718   False
1992                  1                       laptop  0.153718   False
2041                  1           Labrador_retriever  0.908703    True
2051                  2                     Pembroke  0.809197    True
2055                  2                     Pembroke  0.809197    True


                                       p2    p2_conf  p2_dog  \
85              Labrador_retriever  0.119256    True
224                        briard  0.227716    True
241              Brittany_spaniel  0.347609    True
327                       hamster  0.227150   False
382                    Pomeranian  0.012763    True
432                      Pembroke  0.368566    True
480              golden_retriever  0.181351    True
487                        bakery  0.027907   False
587                     schipperke  0.045519    True
591                   bull_mastiff  0.251530    True
602                      dalmatian  0.166246    True
713              Labrador_retriever  0.398260    True
800                  Irish_terrier  0.197314    True
915                      Pembroke  0.159509    True
930                       doormat  0.152445   False
985                cocker_spaniel  0.165930    True
1033             Indian_elephant  0.172844   False
1045                       carton  0.095095   False
1118             miniature_poodle  0.132640    True
1150                 Border_collie  0.052724    True
1155             Labrador_retriever  0.042319    True
1188             golden_retriever  0.016641    True
1201             Labrador_retriever  0.052956    True
1209             Brabancon_griffon  0.001186    True
1283             Labrador_retriever  0.011584    True
1297             golden_retriever  0.181351    True
1315                   bull_mastiff  0.251530    True
1333                     schipperke  0.045519    True
1345                        briard  0.227716    True
1349             golden_retriever  0.016641    True
...                            ...        ...      ...
1699             golden_retriever  0.245773    True
1703               Tibetan_terrier  0.295690    True
1705                       Samoyed  0.201358    True
1712       Chesapeake_Bay_retriever  0.137187    True
1715                    toy_poodle  0.271929    True
1716                        palace  0.020089   False
```

1717	palace	0.020089	False
1718	toy_poodle	0.271929	True
1727	kuvasz	0.025119	True
1736	Cardigan	0.003044	True
1738	Pomeranian	0.193654	True
1740	malamute	0.252706	True
1742	malamute	0.252706	True
1746	Pomeranian	0.193654	True
1755	harvester	0.049995	False
1767	Labrador_retriever	0.337053	True
1785	American_Staffordshire_terrier	0.149950	True
1789	Labrador_retriever	0.337053	True
1791	seat_belt	0.057091	False
1803	Chihuahua	0.155413	True
1804	borzoi	0.142204	True
1858	Samoyed	0.201358	True
1864	Pomeranian	0.120358	True
1903	American_Staffordshire_terrier	0.149950	True
1944	house_finch	0.209852	False
1970	French_bulldog	0.099984	True
1992	French_bulldog	0.099984	True
2041	seat_belt	0.057091	False
2051	Rhodesian_ridgeback	0.054950	True
2055	Rhodesian_ridgeback	0.054950	True

	p3	p3_conf	p3_dog
85	golden_retriever	0.082549	True
224	soft-coated_wheaten_terrier	0.223263	True
241	Welsh_springer_spaniel	0.137186	True
327	Pomeranian	0.056057	True
382	Eskimo_dog	0.001853	True
432	Chihuahua	0.003330	True
480	Brittany_spaniel	0.162084	True
487	French_loaf	0.018189	False
587	German_shepherd	0.023353	True
591	bath_towel	0.116806	False
602	toy_terrier	0.117502	True
713	kuvasz	0.005410	True
800	Airedale	0.082515	True
915	basenji	0.084466	True
930	sea_lion	0.026364	False
985	Chesapeake_Bay_retriever	0.118199	True
1033	water_buffalo	0.038902	False
1045	pug	0.007651	True
1118	Chesapeake_Bay_retriever	0.121523	True
1150	cocker_spaniel	0.048572	True
1155	doormat	0.003956	False
1188	ice_bear	0.014858	False

```
1201                       kelpie  0.035711     True
1209               French_bulldog  0.000428     True
1283                  refrigerator  0.007499    False
1297             Brittany_spaniel  0.162084     True
1315                   bath_towel  0.116806    False
1333              German_shepherd  0.023353     True
1345   soft-coated_wheaten_terrier  0.223263     True
1349                      ice_bear  0.014858    False
...                             ...       ...      ...
1699                          chow  0.039012     True
1703                    otterhound  0.036251     True
1705                    Eskimo_dog  0.186789     True
1712                      malamute  0.071436     True
1715              Tibetan_terrier  0.094759     True
1716                       umbrella  0.007850    False
1717                       umbrella  0.007850    False
1718              Tibetan_terrier  0.094759     True
1727           Labrador_retriever  0.022977     True
1736             English_springer  0.001050     True
1738                    Arctic_fox  0.071648    False
1740                        kuvasz  0.157028     True
1742                        kuvasz  0.157028     True
1746                    Arctic_fox  0.071648    False
1755                         swing  0.044660    False
1767                   tennis_ball  0.008554    False
1785     Chesapeake_Bay_retriever  0.047523     True
1789                   tennis_ball  0.008554    False
1791                           pug  0.011933     True
1803       Staffordshire_bullterrier  0.030943   True
1804                       doormat  0.109677    False
1858                    Eskimo_dog  0.186789     True
1864                   toy_terrier  0.077008     True
1903     Chesapeake_Bay_retriever  0.047523     True
1944               cocker_spaniel  0.046403     True
1970                       printer  0.077130    False
1992                       printer  0.077130    False
2041                           pug  0.011933     True
2051                        beagle  0.038915     True
2055                        beagle  0.038915     True

[132 rows x 12 columns]
```

0.2.3 3- JSON tweets

```
In [25]: df_tweets.head(5)

Out[25]:             tweet_id  favorite_count  retweet_count  date_time
         0  892420643555336193           37986           8302        NaN
```

```
         1  892177421306343426                 32617            6132           NaN
         2  891815181378084864                 24554            4058           NaN
         3  891689557279858688                 41327            8442           NaN
         4  891327558926688256                 39507            9147           NaN
```

In [26]: df_tweets.tail(5)

Out[26]:   tweet_id favorite_count retweet_count date_time
         881 7591599934323924993   0   1250   NaN
         882 759099523532779520   15335   4498   NaN
         883 759047813560868866   6871   2178   NaN
         884 758854675097526272   3744   963   NaN
         885 758828659922702336   11799   4133   NaN

In [27]: df_tweets.sample(5)

Out[27]:   tweet_id favorite_count retweet_count date_time
         721 781308096455073793   7586   2774   NaN
         580 798933969379225600   14077   4903   NaN
         345 831262627380748289   12538   2208   NaN
         14   889531135344209921   14816   2194   NaN
         405 822647212903690241   0   6958   NaN

In [28]: df_tweets.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 886 entries, 0 to 885
Data columns (total 4 columns):
tweet_id          886 non-null int64
favorite_count    886 non-null int64
retweet_count     886 non-null int64
date_time         0 non-null float64
dtypes: float64(1), int64(3)
memory usage: 27.8 KB
```

0.2.4   Assessment Issues

0.2.5   Quality

1-Twitter Archive (Tweet_Arch data)

- comparing weet_Arch data with Imges_pred data 2356 compare to 2075 it same there is missing rows i belive this tweet without imeges.
- I notic in name column there is value like (a, an, the, such ,o,etc ..) is not realy names is seem like exracting issue
- some of colums or varibles not usefull and not give me relly information like as text,in_reply_to_status_id in_reply_to_user_id some of thim contain NAN value which is not usefull data
- There is some rows have more than one dog.

58

- name varible have some values None it must be change to NAN.
- Missing data in column(expanded_urls)
- Erroneous datatypes weet_id, in_reply_to_status_id, in_reply_to_user_id, timestamp, retweeted_status_id, retweeted_status_user_id, retweeted_status_timestamp, doggo, floofer, pupper, puppo

2- tweet image predictions (Imges_pred data)

- some of jpg_url is duplicated

3- JSON tweets (df_tweets)

- convert retweets_count and favorite_count to float.

0.2.6 Tidiness

- Dog stage column is seperated in three columns.
- we need to join and combined all datasets in one dataset

0.3 Clean

First we need to copy our data set to new data frame

```
In [29]: Tweet_Arch_clean = Tweet_Arch.copy()
         Imges_pred_clean = Imges_pred.copy()
         df_tweets_clean = df_tweets.copy()
```

0.3.1 Tidiness : Join all datasets

Define   we neeed to combined all dataset in one data set.

Code

```
In [30]: Tweet_Arch_clean = pd.merge(left=Tweet_Arch_clean, right=df_tweets_clean, left_on='twee
         Tweet_Arch_clean = Tweet_Arch_clean.merge(Imges_pred_clean, on='tweet_id', how='inner')
```

Test

```
In [31]: Tweet_Arch_clean.head()

Out[31]:             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
```

59

```
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  ...    img_num  \
0  https://twitter.com/dog_rates/status/892420643...  ...          1
1  https://twitter.com/dog_rates/status/892177421...  ...          1
2  https://twitter.com/dog_rates/status/891815181...  ...          1
3  https://twitter.com/dog_rates/status/891689557...  ...          1
4  https://twitter.com/dog_rates/status/891327558...  ...          2


            p1    p1_conf p1_dog                  p2    p2_conf p2_dog  \
0       orange  0.097049  False               bagel  0.085851  False
1    Chihuahua  0.323581   True            Pekinese  0.090647   True
2    Chihuahua  0.716012   True            malamute  0.078253   True
3  paper_towel  0.170278  False  Labrador_retriever  0.168086   True
4       basset  0.555712   True     English_springer  0.225770   True


                          p3    p3_conf  p3_dog
0                     banana  0.076110   False
1                   papillon  0.068957    True
2                     kelpie  0.031379    True
3                    spatula  0.040836   False
4  German_short-haired_pointer  0.175219    True


[5 rows x 31 columns]
```

```
In [32]: Tweet_Arch_clean.info()

<class 'pandas.core.frame.DataFrame'>
Int64Index: 728 entries, 0 to 727
Data columns (total 31 columns):
tweet_id                     728 non-null int64
in_reply_to_status_id        4 non-null float64
in_reply_to_user_id          4 non-null float64
timestamp                    728 non-null object
source                       728 non-null object
text                         728 non-null object
retweeted_status_id          68 non-null float64
retweeted_status_user_id     68 non-null float64
retweeted_status_timestamp   68 non-null object
expanded_urls                728 non-null object
rating_numerator             728 non-null int64
rating_denominator           728 non-null int64
name                         728 non-null object
doggo                        728 non-null object
floofer                      728 non-null object
pupper                       728 non-null object
puppo                        728 non-null object
favorite_count               728 non-null int64
retweet_count                728 non-null int64
date_time                    0 non-null float64
jpg_url                      728 non-null object
img_num                      728 non-null int64
p1                           728 non-null object
p1_conf                      728 non-null float64
p1_dog                       728 non-null bool
p2                           728 non-null object
p2_conf                      728 non-null float64
p2_dog                       728 non-null bool
p3                           728 non-null object
p3_conf                      728 non-null float64
p3_dog                       728 non-null bool
dtypes: bool(3), float64(8), int64(6), object(14)
memory usage: 167.1+ KB
```

0.3.2   Tidiness : Make doges column as one column

Define   After we join all dataset we need to merged dog columns as one column by create new variable

Code

```
In [33]: Tweet_Arch_clean['dog_type'] = Tweet_Arch_clean['text'].str.extract('(puppo|pupper|floo
         dog_stage_columns = ['doggo', 'floofer', 'pupper', 'puppo']
```

```
              Tweet_Arch_clean = Tweet_Arch_clean.drop(dog_stage_columns, axis=1)
```

Test

In [59]: Tweet_Arch_clean['dog_type'].value_counts()

Out[59]: doggo   52
         pupper   41
         puppo   22
         floofer   3
         Name: dog_type, dtype: int64

In [34]: Tweet_Arch_clean.head()

Out[34]:   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    ...                p1  \
0  https://twitter.com/dog_rates/status/892420643...    ...            orange
1  https://twitter.com/dog_rates/status/892177421...    ...         Chihuahua
2  https://twitter.com/dog_rates/status/891815181...    ...         Chihuahua
3  https://twitter.com/dog_rates/status/891689557...    ...       paper_towel
4  https://twitter.com/dog_rates/status/891327558...    ...            basset


     p1_conf p1_dog                    p2   p2_conf p2_dog  \
0  0.097049  False                 bagel  0.085851  False
1  0.323581   True              Pekinese  0.090647   True
2  0.716012   True              malamute  0.078253   True
3  0.170278  False   Labrador_retriever  0.168086   True
4  0.555712   True      English_springer  0.225770   True


                            p3   p3_conf p3_dog  dog_type
0                       banana  0.076110  False       NaN
1                     papillon  0.068957   True       NaN
2                       kelpie  0.031379   True       NaN
3                      spatula  0.040836  False       NaN
4  German_short-haired_pointer  0.175219   True       NaN


[5 rows x 28 columns]

In [35]: Tweet_Arch_clean.info()

<class 'pandas.core.frame.DataFrame'>
Int64Index: 728 entries, 0 to 727
Data columns (total 28 columns):
tweet_id                    728 non-null int64
in_reply_to_status_id       4 non-null float64
in_reply_to_user_id         4 non-null float64
timestamp                   728 non-null object
source                      728 non-null object
text                        728 non-null object
retweeted_status_id         68 non-null float64
retweeted_status_user_id    68 non-null float64
retweeted_status_timestamp  68 non-null object
expanded_urls               728 non-null object
rating_numerator            728 non-null int64
rating_denominator          728 non-null int64
name                        728 non-null object
favorite_count              728 non-null int64
retweet_count               728 non-null int64
date_time                   0 non-null float64
jpg_url                     728 non-null object
img_num                     728 non-null int64
p1                          728 non-null object
```

```
p1_conf                     728 non-null float64
p1_dog                      728 non-null bool
p2                          728 non-null object
p2_conf                     728 non-null float64
p2_dog                      728 non-null bool
p3                          728 non-null object
p3_conf                     728 non-null float64
p3_dog                      728 non-null bool
dog_type                    124 non-null object
dtypes: bool(3), float64(8), int64(6), object(11)
memory usage: 150.0+ KB
```

0.3.3 Quality : Tweets without images

comparing weet_Arch data with mges_pred data it same there is missing rows

Define Delete the rows of tweets that not have image because it may be retweet or not tweet for rating purpose

Code

```
In [36]: Tweet_Arch_clean = Tweet_Arch_clean.dropna(subset=['expanded_urls'])
```

Test

```
In [37]: Tweet_Arch_clean.head()

Out[37]:             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    ...               p1  \
0    https://twitter.com/dog_rates/status/892420643...    ...           orange
1    https://twitter.com/dog_rates/status/892177421...    ...        Chihuahua
2    https://twitter.com/dog_rates/status/891815181...    ...        Chihuahua
3    https://twitter.com/dog_rates/status/891689557...    ...      paper_towel
4    https://twitter.com/dog_rates/status/891327558...    ...           basset


      p1_conf p1_dog                 p2  p2_conf p2_dog  \
0    0.097049  False              bagel 0.085851  False
1    0.323581   True           Pekinese 0.090647   True
2    0.716012   True           malamute 0.078253   True
3    0.170278  False  Labrador_retriever 0.168086  True
4    0.555712   True    English_springer 0.225770  True


                            p3   p3_conf p3_dog  dog_type
0                        banana  0.076110  False       NaN
1                      papillon  0.068957   True       NaN
2                        kelpie  0.031379   True       NaN
3                       spatula  0.040836  False       NaN
4    German_short-haired_pointer  0.175219   True       NaN


[5 rows x 28 columns]

In [38]: sum(Tweet_Arch_clean['expanded_urls'].isnull())

Out[38]: 0

In [39]: Tweet_Arch_clean.info()

<class 'pandas.core.frame.DataFrame'>
Int64Index: 728 entries, 0 to 727
Data columns (total 28 columns):
tweet_id                   728 non-null int64
in_reply_to_status_id        4 non-null float64
```

```
in_reply_to_user_id          4 non-null float64
timestamp                  728 non-null object
source                     728 non-null object
text                       728 non-null object
retweeted_status_id         68 non-null float64
retweeted_status_user_id     68 non-null float64
retweeted_status_timestamp   68 non-null object
expanded_urls              728 non-null object
rating_numerator           728 non-null int64
rating_denominator         728 non-null int64
name                       728 non-null object
favorite_count             728 non-null int64
retweet_count              728 non-null int64
date_time                    0 non-null float64
jpg_url                    728 non-null object
img_num                    728 non-null int64
p1                         728 non-null object
p1_conf                    728 non-null float64
p1_dog                     728 non-null bool
p2                         728 non-null object
p2_conf                    728 non-null float64
p2_dog                     728 non-null bool
p3                         728 non-null object
p3_conf                    728 non-null float64
p3_dog                     728 non-null bool
dog_type                   124 non-null object
dtypes: bool(3), float64(8), int64(6), object(11)
memory usage: 150.0+ KB
```

Name Issue (a, an, the, such ,o,etc ..) is not real names is seem like extracting issue

Define   I notice in name column there is value like (a, an, the, such ,o,etc ..) is not really names is seem like extracting issue.

Code

```
In [40]: import re
         Tweet_Arch_clean['txt_splt'] = Tweet_Arch_clean['text'].str.split()
         all = []

         def check_relly_name(df):
             if 'named' in df['text'] and re.match(r'[A-Z].*', df['txt_splt'][(df['txt_splt'].in
                     all.append(df['txt_splt'][(df['txt_splt'].index('named') + 1)])
             elif df['text'].startswith('Here is a ') and re.match(r'[A-Z].*', df['txt_splt'][3]
                     all.append(df['txt_splt'][3].strip('.').strip(','))
             elif df['text'].startswith('Here we have ') and re.match(r'[A-Z].*', df['txt_splt']
```

66

```
                    all.append(df['txt_splt'][3].strip('.').strip(','))
            elif df['text'].startswith('This is ') and re.match(r'[A-Z].*', df['txt_splt'][2]):
                    all.append(df['txt_splt'][2].strip('.').strip(','))
            elif df['text'].startswith('Say hello to ') and re.match(r'[A-Z].*', df['txt_splt']
                    all.append(df['txt_splt'][3].strip('.').strip(','))
            elif df['text'].startswith('Meet ') and re.match(r'[A-Z].*', df['txt_splt'][1]):
                    all.append(df['txt_splt'][1].strip('.').strip(','))
            else:
                all.append('Not_Provide')


        Tweet_Arch_clean.apply(check_relly_name, axis=1)

        Tweet_Arch_clean['Extracted_name'] = all

In [45]: Tweet_Arch_clean['name'].replace('None', np.nan, inplace = True)

In [46]: Tweet_Arch_clean['name'].replace('O', "O'Malley", inplace = True)

In [47]: Tweet_Arch_clean['name'].replace(lowercase_names,np.nan,inplace = True)

In [48]:  Tweet_Arch_clean.loc[Tweet_Arch_clean['Extracted_name'] == 'Not_Provide', 'Extracted_n
         Tweet_Arch_clean.loc[Tweet_Arch_clean['dog_type'] == 'None', 'dog_type'] = None
```

Test

```
In [49]: Tweet_Arch_clean.info()

<class 'pandas.core.frame.DataFrame'>
Int64Index: 728 entries, 0 to 727
Data columns (total 30 columns):
tweet_id                    728 non-null int64
in_reply_to_status_id       4 non-null float64
in_reply_to_user_id         4 non-null float64
timestamp                   728 non-null object
source                      728 non-null object
text                        728 non-null object
retweeted_status_id         68 non-null float64
retweeted_status_user_id    68 non-null float64
retweeted_status_timestamp  68 non-null object
expanded_urls               728 non-null object
rating_numerator            728 non-null int64
rating_denominator          728 non-null int64
name                        575 non-null object
favorite_count              728 non-null int64
retweet_count               728 non-null int64
date_time                   0 non-null float64
jpg_url                     728 non-null object
img_num                     728 non-null int64
p1                          728 non-null object
```

67

```
p1_conf                      728 non-null float64
p1_dog                       728 non-null bool
p2                           728 non-null object
p2_conf                      728 non-null float64
p2_dog                       728 non-null bool
p3                           728 non-null object
p3_conf                      728 non-null float64
p3_dog                       728 non-null bool
dog_type                     124 non-null object
txt_splt                     728 non-null object
Extracted_name               533 non-null object
dtypes: bool(3), float64(8), int64(6), object(13)
memory usage: 161.4+ KB
```

some of colums or varibles not usefull

Define   some of colums or varibles not usefull and not give me relly information like as 'retweeted_status_id', 'retweeted_status_user_id', 'retweeted_status_timestamp','p1', 'p1_conf', 'p1_dog', 'p2', 'p2_conf', 'p2_dog', 'p3', 'p3_conf', 'p3_dog' some of thim contain NAN value which is not usefull data

Code

```
In [50]: unusefull_column = ['retweeted_status_id', 'retweeted_status_user_id','date_time' , 're
         Tweet_Arch_clean = Tweet_Arch_clean.drop(unusefull_column, axis=1)
```

Test

```
In [51]: Tweet_Arch_clean.info()

<class 'pandas.core.frame.DataFrame'>
Int64Index: 728 entries, 0 to 727
Data columns (total 17 columns):
tweet_id                728 non-null int64
in_reply_to_status_id   4 non-null float64
in_reply_to_user_id     4 non-null float64
timestamp               728 non-null object
source                  728 non-null object
text                    728 non-null object
expanded_urls           728 non-null object
rating_numerator        728 non-null int64
rating_denominator      728 non-null int64
name                    575 non-null object
favorite_count          728 non-null int64
retweet_count           728 non-null int64
jpg_url                 728 non-null object
img_num                 728 non-null int64
```

```
dog_type                124 non-null object
txt_splt                728 non-null object
Extracted_name          533 non-null object
dtypes: float64(2), int64(6), object(9)
memory usage: 102.4+ KB
```

In [52]: Tweet_Arch_clean

Out[52]:   tweet_id in_reply_to_status_id in_reply_to_user_id \
        0   892420643555336193   NaN   NaN
        1   892177421306343426   NaN   NaN
        2   891815181378084864   NaN   NaN
        3   891689557279858688   NaN   NaN
        4   891327558926688256   NaN   NaN
        5   891087950875897856   NaN   NaN
        6   890971913173991426   NaN   NaN
        7   890729181411237888   NaN   NaN
        8   890609185150312448   NaN   NaN
        9   890240255349198849   NaN   NaN
        10   890006608113172480   NaN   NaN
        11   889880896479866881   NaN   NaN
        12   889665388333682689   NaN   NaN
        13   889638837579907072   NaN   NaN
        14   889531135344209921   NaN   NaN
        15   889278841981685760   NaN   NaN
        16   888917238123831296   NaN   NaN
        17   888804989199671297   NaN   NaN
        18   888554962724278272   NaN   NaN
        19   888078434458587136   NaN   NaN
        20   887705289381826560   NaN   NaN
        21   887517139158093824   NaN   NaN
        22   887473957103951883   NaN   NaN
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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
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11     2017-07-25 16:11:53 +0000
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18     2017-07-22 00:23:06 +0000
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719  <a href="http://twitter.com/download/iphone" r...
720  <a href="http://twitter.com/download/iphone" r...
721  <a href="http://twitter.com/download/iphone" r...
722  <a href="http://twitter.com/download/iphone" r...
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723  <a href="http://twitter.com/download/iphone" r...
724  <a href="http://twitter.com/download/iphone" r...
725  <a href="http://twitter.com/download/iphone" r...
726  <a href="http://twitter.com/download/iphone" r...
727  <a href="http://twitter.com/download/iphone" r...

                                                     text  \
0    This is Phineas. He's a mystical boy. Only eve...
1    This is Tilly. She's just checking pup on you...
2    This is Archie. He is a rare Norwegian Pouncin...
3    This is Darla. She commenced a snooze mid meal...
4    This is Franklin. He would like you to stop ca...
5    Here we have a majestic great white breaching ...
6    Meet Jax. He enjoys ice cream so much he gets ...
7    When you watch your owner call another dog a g...
8    This is Zoey. She doesn't want to be one of th...
9    This is Cassie. She is a college pup. Studying...
10   This is Koda. He is a South Australian decksha...
11   This is Bruno. He is a service shark. Only get...
12   Here's a puppo that seems to be on the fence a...
13   This is Ted. He does his best. Sometimes that'...
14   This is Stuart. He's sporting his favorite fan...
15   This is Oliver. You're witnessing one of his m...
16   This is Jim. He found a fren. Taught him how t...
17   This is Zeke. He has a new stick. Very proud o...
18   This is Ralphus. He's powering up. Attempting ...
19   This is Gerald. He was just told he didn't get...
20   This is Jeffrey. He has a monopoly on the pool...
21   I've yet to rate a Venezuelan Hover Wiener. Th...
22   This is Canela. She attempted some fancy porch...
23   You may not have known you needed to see this ...
24   This... is a Jubilant Antarctic House Bear. We...
25   This is Maya. She's very shy. Rarely leaves he...
26   This is Mingus. He's a wonderful father to his...
27   This is Derek. He's late for a dog meeting. 13...
28   This is Roscoe. Another pupper fallen victim t...
29   This is Waffles. His doggles are pupside down...
..                                                 ...
698  This left me speechless. 14/10 heckin heroic a...
699  This is Shelby. She finds stuff to put on her ...
700  RT @dog_rates: "Tristan do not speak to me wit...
701  Guys.. we only rate dogs. Pls don't send any m...
702  Ohboyohboyohboyohboyohboyohboyohboyohboyohboyo...
703  This is Sephie. According to this picture, she...
704  RT @dog_rates: Oh. My. God. 13/10 magical af h...
705  This is Bruce. I really want to hear the joke ...
706  Meet Bonaparte. He's pupset because it's cloud...
707  This is Albert. He just found out that bees ar...
```

```
708  This is Bo and Ty. Bo eats paper and Ty felt l...
709  This is Wishes. He has the day off. Daily stru...
710  This is Rose. Her face is stuck like that. 11/...
711  This is Theo. He can walk on water. Still comi...
712  This is Atlas. Swinging is his passion. 12/10 ...
713  This is Rocco. He's doing his best. 13/10 some...
714  This is Fido. He can tell the weather. Not goo...
715  Meet Sadie. She's addicted to balloons. It's t...
716  We only rate dogs... this is a Taiwanese Guide...
717  This is Kirby. He's a Beneblip Cumberpat. Pret...
718  Meet Maggie &amp; Lila. Maggie is the doggo, L...
719  RT @dog_rates: This... is a Tyrannosaurus rex...
720  This is Emma. She can't believe her last guess...
721  This is Oakley. He has no idea what happened h...
722  This is Luna. She's just heckin precious af I ...
723  RT @dog_rates: AT DAWN...\nWE RIDE\n\n11/10 ht...
724  Meet Toby. He has a drinking problem. Inflatab...
725  This is Spencer. He's part of the Queen's Guar...
726  This is Lilli Bee &amp; Honey Bear. Unfortunat...
727  This doggo is just waiting for someone to be p...


                                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
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11    https://twitter.com/dog_rates/status/889880896...                13
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25    https://twitter.com/dog_rates/status/886983233...                13
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26     https://www.gofundme.com/mingusneedsus,https:/...          13
27     https://twitter.com/dog_rates/status/886680336...          13
28     https://twitter.com/dog_rates/status/886366144...          12
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710    https://twitter.com/dog_rates/status/760656994...          11
711    https://twitter.com/dog_rates/status/760641137...          12
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724    https://twitter.com/dog_rates/status/759099523...           7
725    https://twitter.com/dog_rates/status/759047813...          11
726    https://twitter.com/dog_rates/status/758854675...          11
727    https://twitter.com/dog_rates/status/758828659...          13

     rating_denominator      name  favorite_count  retweet_count  \
0                    10   Phineas           37986           8302
1                    10     Tilly           32617           6132
2                    10    Archie           24554           4058
3                    10     Darla           41327           8442
4                    10  Franklin           39507           9147
5                    10       NaN           19847           3042
6                    10       Jax           11597           2015
7                    10       NaN           64075          18412
8                    10      Zoey           27259           4177
9                    10    Cassie           31282           7203
10                   10      Koda           30067           7160
```

11	10	Bruno	27266	4860
12	10	NaN	47170	9801
13	10	Ted	26617	4420
14	10	Stuart	14816	2194
15	10	Oliver	24752	5244
16	10	Jim	28540	4399
17	10	Zeke	25060	4185
18	10	Ralphus	19437	3463
19	10	Gerald	21331	3409
20	10	Jeffrey	29582	5267
21	10	NaN	45370	11411
22	10	Canela	67666	17746
23	10	NaN	33019	10163
24	10	NaN	29978	5823
25	10	Maya	34458	7591
26	10	Mingus	11825	3205
27	10	Derek	22000	4358
28	10	Roscoe	20784	3127
29	10	Waffles	27455	6140
..	...	...	...	...
698	10	NaN	33842	16853
699	10	Shelby	5706	2184
700	10	NaN	0	4246
701	10	NaN	4497	929
702	10	NaN	52404	31337
703	10	Sephie	4365	1267
704	10	NaN	0	19390
705	10	Bruce	5496	1566
706	10	Bonaparte	4718	1185
707	10	Albert	5615	1678
708	10	Bo	11954	3743
709	10	Wishes	4037	1052
710	10	Rose	6980	2079
711	10	Theo	5236	1392
712	10	Atlas	8010	3917
713	10	Rocco	28359	12393
714	10	Fido	4159	933
715	10	Sadie	6019	1953
716	10	NaN	15506	6115
717	10	Kirby	7096	2139
718	10	Maggie	6292	2048
719	10	NaN	0	22768
720	10	Emma	4961	1264
721	10	Oakley	8966	2640
722	10	Luna	6395	2099
723	10	NaN	0	1250
724	10	Toby	15335	4498
725	10	Spencer	6871	2178

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726               10      Lilli        3744         963
727               10       NaN        11799        4133

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3       https://pbs.twimg.com/media/DF_q7IAWsAEuuN8.jpg        1      NaN
4       https://pbs.twimg.com/media/DF6hr6BUMAAzZgT.jpg        2      NaN
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701     https://pbs.twimg.com/media/CpJDWqhW8AAFt45.jpg        1      NaN
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705     https://pbs.twimg.com/media/CpDNQGkWEAENiYZ.jpg        1      NaN
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707     https://pbs.twimg.com/media/CpBsRleW8AEfO8G.jpg        1      NaN
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713	https://pbs.twimg.com/ext_tw_video_thumb/76028...	1	NaN
714	https://pbs.twimg.com/media/Coz12OLWgAADdys.jpg	1	NaN
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716	https://pbs.twimg.com/media/CovKqSYVIAAUbUW.jpg	1	NaN
717	https://pbs.twimg.com/media/CouEOZhWAAAgFpE.jpg	1	NaN
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722	https://pbs.twimg.com/media/Cok1_sjXgAU3xpp.jpg	1	NaN
723	https://pbs.twimg.com/media/CU1zsMSUAAASOqW.jpg	1	NaN
724	https://pbs.twimg.com/media/Cojc_QOWcAAqi_K.jpg	1	NaN
725	https://pbs.twimg.com/media/Coit84_VYAEMtLi.jpg	1	NaN
726	https://pbs.twimg.com/media/Cof-SuqVYAAs4kZ.jpg	4	NaN
727	https://pbs.twimg.com/media/Cofmom_VUAA4dRO.jpg	1	doggo

	txt_splt	Extracted_name
0	[This, is, Phineas., He's, a, mystical, boy., ...	Phineas
1	[This, is, Tilly., She's, just, checking, pup,...	Tilly
2	[This, is, Archie., He, is, a, rare, Norwegian...	Archie
3	[This, is, Darla., She, commenced, a, snooze, ...	Darla
4	[This, is, Franklin., He, would, like, you, to...	Franklin
5	[Here, we, have, a, majestic, great, white, br...	None
6	[Meet, Jax., He, enjoys, ice, cream, so, much,...	Jax
7	[When, you, watch, your, owner, call, another,...	None
8	[This, is, Zoey., She, doesn't, want, to, be, ...	Zoey
9	[This, is, Cassie., She, is, a, college, pup.,...	Cassie
10	[This, is, Koda., He, is, a, South, Australian...	Koda
11	[This, is, Bruno., He, is, a, service, shark.,...	Bruno
12	[Here's, a, puppo, that, seems, to, be, on, th...	None
13	[This, is, Ted., He, does, his, best., Sometim...	Ted
14	[This, is, Stuart., He's, sporting, his, favor...	Stuart
15	[This, is, Oliver., You're, witnessing, one, o...	Oliver
16	[This, is, Jim., He, found, a, fren., Taught, ...	Jim
17	[This, is, Zeke., He, has, a, new, stick., Ver...	Zeke
18	[This, is, Ralphus., He's, powering, up., Atte...	Ralphus
19	[This, is, Gerald., He, was, just, told, he, d...	Gerald
20	[This, is, Jeffrey., He, has, a, monopoly, on,...	Jeffrey
21	[I've, yet, to, rate, a, Venezuelan, Hover, Wi...	None
22	[This, is, Canela., She, attempted, some, fanc...	Canela
23	[You, may, not, have, known, you, needed, to, ...	None
24	[This..., is, a, Jubilant, Antarctic, House, B...	None
25	[This, is, Maya., She's, very, shy., Rarely, l...	Maya
26	[This, is, Mingus., He's, a, wonderful, father...	Mingus
27	[This, is, Derek., He's, late, for, a, dog, me...	Derek
28	[This, is, Roscoe., Another, pupper, fallen, v...	Roscoe

```
29    [This, is, Waffles., His, doggles, are, pupsid...          Waffles
..                                                          ...              ...
698   [This, left, me, speechless., 14/10, heckin, h...         None
699   [This, is, Shelby., She, finds, stuff, to, put...        Shelby
700   [RT, @dog_rates:, "Tristan, do, not, speak, to...         None
701   [Guys.., we, only, rate, dogs., Pls, don't, se...         None
702   [Ohboyohboyohboyohboyohboyohboyohboyohboyohboy...         None
703   [This, is, Sephie., According, to, this, pictu...        Sephie
704   [RT, @dog_rates:, Oh., My., God., 13/10, magic...         None
705   [This, is, Bruce., I, really, want, to, hear, ...         Bruce
706   [Meet, Bonaparte., He's, pupset, because, it's...     Bonaparte
707   [This, is, Albert., He, just, found, out, that...        Albert
708   [This, is, Bo, and, Ty., Bo, eats, paper, and,...            Bo
709   [This, is, Wishes., He, has, the, day, off., D...        Wishes
710   [This, is, Rose., Her, face, is, stuck, like, ...          Rose
711   [This, is, Theo., He, can, walk, on, water., S...          Theo
712   [This, is, Atlas., Swinging, is, his, passion...         Atlas
713   [This, is, Rocco., He's, doing, his, best., 13...         Rocco
714   [This, is, Fido., He, can, tell, the, weather...          Fido
715   [Meet, Sadie., She's, addicted, to, balloons.,...        Sadie
716   [We, only, rate, dogs..., this, is, a, Taiwane...         None
717   [This, is, Kirby., He's, a, Beneblip, Cumberpa...        Kirby
718   [Meet, Maggie, &amp;, Lila., Maggie, is, the, ...       Maggie
719   [RT, @dog_rates:, This..., is, a, Tyrannosauru...         None
720   [This, is, Emma., She, can't, believe, her, la...         Emma
721   [This, is, Oakley., He, has, no, idea, what, h...       Oakley
722   [This, is, Luna., She's, just, heckin, preciou...         Luna
723   [RT, @dog_rates:, AT, DAWN..., WE, RIDE, 11/10...         None
724   [Meet, Toby., He, has, a, drinking, problem., ...         Toby
725   [This, is, Spencer., He's, part, of, the, Quee...      Spencer
726   [This, is, Lilli, Bee, &amp;, Honey, Bear., Un...        Lilli
727   [This, doggo, is, just, waiting, for, someone,...         None

[728 rows x 17 columns]
```

Name varible have some values None it must be change to NAN.

Define Name varible have some values None it must be change to NAN so we want to repace them to NAN

Code

```
In [53]: Tweet_Arch_clean['name'] = Tweet_Arch_clean['name'].replace('None', np.NaN)
         Tweet_Arch_clean['Extracted_name'] = Tweet_Arch_clean['name'].replace('None', np.NaN)
```

Test

```
In [54]: Tweet_Arch_clean[Tweet_Arch_clean['tweet_id'] == 891087950875897856]
```

```
Out[54]:                 tweet_id  in_reply_to_status_id  in_reply_to_user_id  \
         5  891087950875897856                    NaN                  NaN

                        timestamp  \
         5  2017-07-29 00:08:17 +0000

                                                   source  \
         5  <a href="http://twitter.com/download/iphone" r...

                                                     text  \
         5  Here we have a majestic great white breaching ...

                                            expanded_urls  rating_numerator  \
         5  https://twitter.com/dog_rates/status/891087950...                13

            rating_denominator name  favorite_count  retweet_count  \
         5                  10  NaN           19847           3042

                                             jpg_url  img_num dog_type  \
         5  https://pbs.twimg.com/media/DF3HwyEWsAABqE6.jpg        1      NaN

                                            txt_splt Extracted_name
         5  [Here, we, have, a, majestic, great, white, br...            NaN
```

Erroneous datatypes

Define Erroneous datatypes tweet_id,in_reply_to_status_id, rating_numerator, rating_denominator,source, timestamp ,source,dog_type

Code

```
In [55]: Tweet_Arch_clean['tweet_id'] = Tweet_Arch_clean['tweet_id'].astype(str)
         Tweet_Arch_clean['rating_numerator'] = Tweet_Arch_clean['rating_numerator'].astype('flo
         Tweet_Arch_clean['rating_denominator'] = Tweet_Arch_clean['rating_denominator'].astype(
         Tweet_Arch_clean['source'] = Tweet_Arch_clean['source'].astype('category')
         Tweet_Arch_clean['dog_type'] = Tweet_Arch_clean['dog_type'].astype('category')
         Tweet_Arch_clean['timestamp'] = pd.to_datetime(Tweet_Arch_clean['timestamp'])
         Tweet_Arch_clean['in_reply_to_status_id'] = Tweet_Arch_clean['in_reply_to_status_id'].a
         Tweet_Arch_clean['in_reply_to_user_id'] = Tweet_Arch_clean['in_reply_to_user_id'].astyp
```

Test

```
In [56]: Tweet_Arch_clean.dtypes

Out[56]: tweet_id                        object
         in_reply_to_status_id           object
         in_reply_to_user_id             object
         timestamp              datetime64[ns]
```

```
source                          category
text                              object
expanded_urls                     object
rating_numerator                 float64
rating_denominator               float64
name                              object
favorite_count                    int64
retweet_count                     int64
jpg_url                           object
img_num                           int64
dog_type                        category
txt_splt                          object
Extracted_name                    object
dtype: object
```

Remove Dublicated by img_url

Define   as we see in previous we find there is dublicated img wich is mean duplicated tweets so we need to remove it

Code

```
In [57]: Tweet_Arch_clean.drop_duplicates(subset ="jpg_url",   keep = 'first', inplace = True)
```

Test

```
In [58]: Tweet_Arch_clean[Tweet_Arch_clean['jpg_url'] == 'https://pbs.twimg.com/media/Cq9guJ5WgA
```

```
Out[58]:            tweet_id in_reply_to_status_id in_reply_to_user_id  \
         266  832040443403784192                   nan                 nan

                        timestamp                                    source  \
         266  2017-02-16 01:34:34  <a href="http://twitter.com/download/iphone" r...

                                                  text  \
         266  RT @dog_rates: This is Klein. These pics were ...

                                  expanded_urls  rating_numerator  \
         266  https://twitter.com/dog_rates/status/769940425...              12.0

              rating_denominator   name  favorite_count  retweet_count  \
         266                10.0  Klein               0          10454

                                           jpg_url  img_num dog_type  \
         266  https://pbs.twimg.com/media/Cq9guJ5WgAADfpF.jpg        1      NaN

                                         txt_splt Extracted_name
         266  [RT, @dog_rates:, This, is, Klein., These, pic...          Klein
```

0.3.4 Save DataSet As csv file

```
In [80]: Tweet_Arch_clean.to_csv('twitter_archive_master.csv')
```