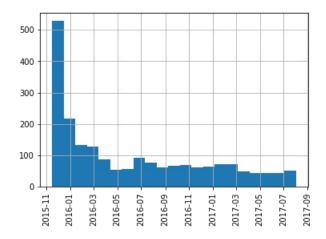
Acting on Wrangled Data

How many days can we see the activity of this account?

```
print('We have data from:', master.timestamp.min(), 'to:', master.timestamp.max())
```

We have data from: 2015-11-15 22:32:08 to: 2017-08-01 16:23:56

```
master.timestamp.hist(bins=21, xrot=90);
```



WeRateDogs had most tweets at December 2015, but at other intervals, we can see less 100 tweets in a month.

Top 10 of scores in the rating system.

12.0/10.0 474

10.0/10.0 429

11.0/10.0 413

13.0/10.0 281

9.0/10.0 150

8.0/10.0 95

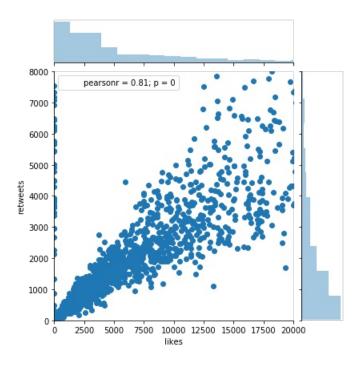
7.0/10.0 51

14.0/10.0 40

5.0/10.0 34 6.0/10.0 32 dtype: int64

77.0 % tweets have rate from 10/10 to 13/10

About correlation between likes and retweets



Likes correlate to retweets about 0.76, and we can see that every two likes bring one retweet.

```
print(len(master[(master.favorite_count == 0) & (master.retweet_count > 0)]),
   'tweets have retweets without any like.')
```

78 tweets have retweets without any like.

Top 10 names of dogs

```
print(master[master.name.notnull() == True].name.value_counts()[:10])
names = ' '.join(list(master[master.name.notnull() == True].name))
wordcloud = WordCloud().generate(names)
plt.imshow(wordcloud, interpolation='bilinear')
plt.axis("off");
```

Charlie 11

Tucker 10

Lucy 10

Oliver 10

Penny 10

Cooper 10

Bo 8

Lola 8

Sadie 8

Name: name, dtype: int64



About recognize picture of dogs

1748 pictures from 2072 tweets had recognized successful as a picture of the dog.

```
def get_breed(row):
    breed, conf = '', 0.0
    if (row['p1_dog'] == True) and (row['p1_conf'] > conf):
        breed, conf = row['p1'], row['p1_conf']

if (row['p2_dog'] == True) and (row['p2_conf'] > conf):
        breed, conf = row['p2'], row['p2_conf']

if (row['p3_dog'] == True) and (row['p3_conf'] > conf):
        breed, conf = row['p3'], row['p3_conf']

row['breed'] = breed
    row['conf'] = conf

return row

breeds['breed'] = ''
breeds['conf'] = 0
breeds = breeds.apply(get_breed, axis=1)
```

```
print('We got', len(breeds.breed.unique()), 'names of a breed.')
```

We got 113 names of a breed.

```
print('Top 10 breeds')
breeds.breed.value_counts()[:10]
```

Top 10 breeds

golden_retriever 173
Labrador_retriever 113
Pembroke 95
Chihuahua 94
pug 65
toy_poodle 52
chow 51
Samoyed 46
Pomeranian 42
malamute 34
Name: breed, dtype: int64

print(round(len(breeds[breeds.conf >= 0.9]) / len(breeds) * 100, 2),
 '% breeds recognized with 90% confidence.')

16.93 % breeds recognized with 90% confidence.

```
print('Top 10 breeds recognized with 90% confidence.')
breeds[breeds.conf >= 0.9].breed.value_counts()[:10]
```

Top 10 breeds recognized with 90% confidence.

golden_retriever 40
pug 26
Pembroke 26
Samoyed 22
Labrador_retriever 19
Pomeranian 16
Chihuahua 13
French_bulldog 12
chow 9
Blenheim_spaniel 6
Name: breed, dtype: int64

55 = 48.67 % breeds NOT recognized with 90% confidence.