In [1]: import numpy as np
import pandas as pd
import requests
import os
import tumepy
import jum
import mange
import request
import mange
import request
import request
import request
import request
import as ans
import cachorn as ans
import datetime
import as post in panda pd
import manglostib.pyplot as plt
import manglostib inline

In [2]: tw\_master\_df \*pd.read\_csv('twitter\_archive\_master.csv')
img\_df = pd.read\_csv('image\_predictions\_new.csv')

In [3]: tw\_master\_df.head()

tweet_id	timestamp	source	text	expanded_urls	rating_numerator	rating_denominator	name	classification	retweet_count	favorite_count
0 890240255349198849	2017-07-26 15:59:51+00:00	Twitter for iPhone	This is Cassie. She is a college pup. Studying	https://twitter.com/dog_rates/status/890240255	14.0	10	Cassie	doggo	7711	32467
1 884162670584377345	2017-07-09 21:29:42+00:00	Twitter for iPhone	Meet Yogi. He doesn't have any important dog m	https://twitter.com/dog_rates/status/884162670	12.0	10	Yogi	doggo	3128	20771
<b>2</b> 872967104147763200	2017-06-09 00:02:31+00:00	Twitter for iPhone	Here's a very large dog. He has a date later	https://twitter.com/dog_rates/status/872967104	12.0	10	NaN	doggo	5669	28031
<b>3</b> 871515927908634625	2017-06-04 23:56:03+00:00	Twitter for iPhone	This is Napolean. He's a Raggedy East Nicaragu	https://twitter.com/dog_rates/status/871515927	12.0	10	Napolean	doggo	3628	20730
4 871102520638267392	2017-06-03 20:33:19+00:00	Twitter for iPhone	Never doubt a doggo 14/10 https://t.co/AbBLh2FZCH	https://twitter.com/animalcog/status/871075758	14.0	10	NaN	doggo	5764	21461

In [4]: img\_df.head()

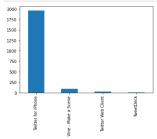
]: tweet_id		jpg_url	img_num	p1 p1		p1_dog	p2	p2_conf	p2_dog	р3	p3_conf	p3_dog
0	666020888022790149	https://pbs.twimg.com/media/CT4udn0WwAA0aMy.jpg	1	Welsh_springer_spaniel	0.465074	True	collie	0.156665	True	Shetland_sheepdog	0.061428	True
1	666029285002620928	https://pbs.twimg.com/media/CT42GRgUYAA5iDo.jpg	1	redbone	0.506826	True	miniature_pinscher	0.074192	True	Rhodesian_ridgeback	0.072010	True
2	666033412701032449	https://pbs.twimg.com/media/CT4521TWwAEvMyu.jpg	1	German_shepherd	0.596461	True	malinois	0.138584	True	bloodhound	0.116197	True
3	666044226329800704	https://pbs.twimg.com/media/CT5Dr8HUEAA-IEu.jpg	1	Rhodesian_ridgeback	0.408143	True	redbone	0.360687	True	miniature_pinscher	0.222752	True
4	666049248165822465	https://pbs.twimg.com/media/CT5IQmsXIAAKY4A.jpg	1	miniature pinscher	0.560311	True	Rottweiler	0.243682	True	Doberman	0.154629	True

#### Sources where the fans post:

In [5]: tw\_master\_df.source.value\_counts()

Out[5]: Twitter for iPhone Vine - Make a Scene 91
Twitter Web Client 30
TweetDeck 11
Name: source, dtype: int64

In [6]: tw\_master\_df.source.value\_counts().plot(kind = 'bar');

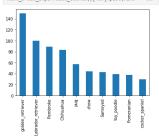


### Most predicted breeds:

In [7]: most\_breed\_1 = img\_df.query('p1\_dog == True')
most\_breed\_2 = img\_df.query('p2\_dog == True')
most\_breed\_3 = img\_df.query('p3\_dog == True')

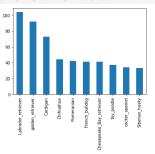
## Most predicted breeds as first prediction

In [8]: most\_breed\_1.p1.value\_counts()[:10].plot(kind = 'bar');



#### Most predicted breeds as second prediction

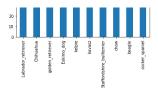
In [9]: most\_breed\_2.p2.value\_counts()[:10].plot(kind = 'bar');



## Most predicted breeds as second prediction

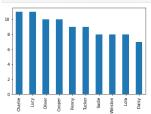
In [10]: most\_breed\_3.p3.value\_counts()[:10].plot(kind = 'bar');





## Most frequent dog names:

In [11]: tw\_master\_df.name.value\_counts()[:10].plot(kind = 'bar');



# Distribution of dog ratings:

In [13]: tw\_master\_df.rating\_numerator.plot(kind = 'hist');

