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Date	2021-04-16
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```
#using the advertools method to extract mentions and hashtags
[x for x in dir(adv) if x.startswith('extract')]
#methods to analyse hashtags
hashtag_summary = adv.extract_hashtags(tweets['text'])
hashtag_summary.keys()
#number of hashtags in the dataset
hashtag_summary['overview']
#To get hashtags used by people
hashtag_summary['hashtags']
#Hashtags limited to a count of 10 sets
#Multidimensional list of the hashtags
hashtag_summary['hashtags'][:10]
#Single dimensional list of the first 10 hashtags extracted
hashtag_summary['hashtags_flat'][:10]
#Counting the hashtags used overall and hashtags used per tweet
hashtag_summary['hashtag_counts'][:20]
hashtag_summary['hashtag_freq'][:15]
#plotting the hashtags per tweet against the total number of tweets
plt.figure(facecolor='#ebebeb', figsize=(11, 8))
plt.bar([x[0] for x in hashtag_summary['hashtag_freq'][:15]],
        [x[1] for x in hashtag_summary['hashtag_freq'][:15]])
#Labelling the plot
plt.title('Hashtag frequency', fontsize=18)
plt.xlabel('Hashtags per tweet', fontsize=12)
plt.ylabel('Number of tweets', fontsize=12)
#Setting up the dimensions
plt.xticks(range(16))
plt.yticks(range(0,28000, 1000))
plt.grid(alpha=0.5)
plt.gca().set_frame_on(False)
fig = px.bar(x=freq[2:], y=top_hashtags[2:], orientation='h')
fig.update_layout(
    height=600, width=700,
    title_text='Most Popular Hashtags',
    xaxis = {'title': 'Frequency'},
    yaxis = {'autorange': "reversed", 'title':''}
)
```

```
fig.show()
mention_summary = adv.extract_mentions(tweets['text'])
mention_summary.keys()
#extracting the number of mentions from tweet set
mention_summary['overview']
#Multidimensional list of mentions
mention_summary['mentions'][:15]
#single dimensional list of mentions
mention_summary['mentions_flat'][:10]
#extracting top 20 mentions
mention_summary['top_mentions'][:20]
#using the matplot package to plot the top mentions
plt.figure(facecolor='#ebebeb', figsize=(8, 8))
plt.barh([x[0] for x in mention_summary['top_mentions'][:15]][::-1],
        [x[1] for x in mention_summary['top_mentions'][:15]][::-1])
#labeling the plot
plt.title('Top Mentions')
plt.grid(alpha=0.5)
plt.xticks(range(0, 5000, 1000))
plt.gca().set_frame_on(False)
```

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