Sentiment analysis

```
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import pandas as pd
import nltk

from textblob import TextBlob
import matplotlib.pyplot as plt
```

Loading "British Airways Reviews" data

Getting rid of the "verified" stuff

```
print(len(df['reviews']))
text = df['reviews'][2].replace('Not ', '').replace('Verified | ',
'').replace(' Trip ', '')
print(text)

1000
   Awful. Business class check in queue just as long as for economy,
probably because half of the desks were not staffed and Terminal 5 is
chaotic. Business lounge overfull, couldn't get seats. Delayed flight,
unmanaged chaos at the gate. No drink on boarding, first drink served
an hour after take-off. The meal was poor, used to get better in
economy on other airlines. British Airways has won the race to the
bottom of the cheapskate stakes. looking forward to the flight home.
```

Sentiment analysis

```
blob = TextBlob(text)
print(blob)
sentiment = blob.sentiment.polarity
print(sentiment)
```

Awful. Business class check in queue just as long as for economy, probably because half of the desks were not staffed and Terminal 5 is chaotic. Business lounge overfull, couldn't get seats. Delayed flight, unmanaged chaos at the gate. No drink on boarding, first drink served an hour after take-off. The meal was poor, used to get better in economy on other airlines. British Airways has won the race to the bottom of the cheapskate stakes. looking forward to the flight home. -0.1239583333333333333

Generalization of the Sentiment analysis

```
def sentiment analysis(text):
    blob = TextBlob(text)
    sentiment = blob.sentiment.polarity
    return sentiment
arr = []
for i in range(len(df['reviews'])):
    text = df['reviews'][i].replace('Not ', '').replace('Verified | ',
'').replace('
Trip ', '')
    arr += [sentiment analysis(text)]
len(arr)
1000
neg review = 0
pos review = 0
neu review = 0
for i in arr:
    if round(i, 2) > 0:
        pos review += 1
        if round(i, 2) < 0:
            neg review += 1
        else:
            neu review += 1
print(f'neg = {neg review} | neu = {neu review} | pos = {pos review} |
neg = 331 | neu = 34 | pos = 635 |
```

Online reviews of British Airways

```
labels = 'Negative', 'Neutral', 'Postive'
sizes = [neg_review, neu_review, pos_review]
```

