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Code

JupyterLab Python 3 (ipykernel)

[4]:
```
pip install textblob
```

```
Requirement already satisfied: textblob in c:\users\lenovo\anaconda3\lib\site-packages (0.18.0.post0)
Requirement already satisfied: nltk>=3.8 in c:\users\lenovo\anaconda3\lib\site-packages (from textblob) (3.8.1)
Requirement already satisfied: click in c:\users\lenovo\anaconda3\lib\site-packages (from nltk>=3.8->textblob) (8.1.7)
Requirement already satisfied: joblib in c:\users\lenovo\anaconda3\lib\site-packages (from nltk>=3.8->textblob) (1.2.0)
Requirement already satisfied: regex>=2021.8.3 in c:\users\lenovo\anaconda3\lib\site-packages (from nltk>=3.8->textblob) (2023.10.3)
Requirement already satisfied: tqdm in c:\users\lenovo\anaconda3\lib\site-packages (from nltk>=3.8->textblob) (4.65.0)
Requirement already satisfied: colorama in c:\users\lenovo\anaconda3\lib\site-packages (from click->nltk>=3.8->textblob) (0.4.6)
Note: you may need to restart the kernel to use updated packages.
```

[5]:
```
## Sentiment analysis
from textblob import TextBlob
Feedback1 = "The Food at Radison was awesome"
Feedback2 = "The Food at Radison was very good"
blob1 = TextBlob(Feedback1)
blob2 = TextBlob(Feedback2)
print(blob1.sentiment)
print(blob2.sentiment)
```

```
Sentiment(polarity=1.0, subjectivity=1.0)
Sentiment(polarity=0.9099999999999999, subjectivity=0.7800000000000001)
```

[10]:
```
pip install wordcloud
```

```
Collecting wordcloudNote: you may need to restart the kernel to use updated packages.

  Downloading wordcloud-1.9.3-cp311-cp311-win_amd64.whl.metadata (3.5 kB)
Requirement already satisfied: numpy>=1.6.1 in c:\users\lenovo\anaconda3\lib\site-packages (from wordcloud) (1.26.4)
Requirement already satisfied: pillow in c:\users\lenovo\anaconda3\lib\site-packages (from wordcloud) (10.2.0)
Requirement already satisfied: matplotlib in c:\users\lenovo\anaconda3\lib\site-packages (from wordcloud) (3.8.0)
Requirement already satisfied: contourpy>=1.0.1 in c:\users\lenovo\anaconda3\lib\site-packages (from matplotlib->wordcloud) (1.2.0)
```

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Code JupyterLab Python 3 (ipykernel)

[11]:
```
## WordCloud
from wordcloud import WordCloud, STOPWORDS
import matplotlib.pyplot as plt
import pandas as pd
```

[13]:
```
df = pd.read_csv(r"Youtube04-Eminem.csv", encoding ="latin-1")
comment_words = ''
stopwords = set(STOPWORDS)
```

[15]:
```
for val in df.CONTENT:
    val = str(val)
```

[16]:
```
tokens = val.split()
```

[19]:
```
from wordcloud import WordCloud, STOPWORDS
```

[20]:
```
for i in range(len(tokens)):
    tokens[i] = tokens[i].lower()
```

[21]:
```
comment_words += " ".join(tokens) + " "
```

[22]:
```
wordcloud = WordCloud(width=800, height=800, background_color='white', stopwords=STOPWORDS, min_font_size=10).generate(comment_words)
```

[24]:
```
# plot the WordCloud image
plt.figure(figsize = (8, 8), facecolor = None)
```

[24]:
```
<Figure size 800x800 with 0 Axes>
<Figure size 800x800 with 0 Axes>
```

[26]:
```
plt.axis("off")
```

[26]:
```
(0.0, 1.0, 0.0, 1.0)
```

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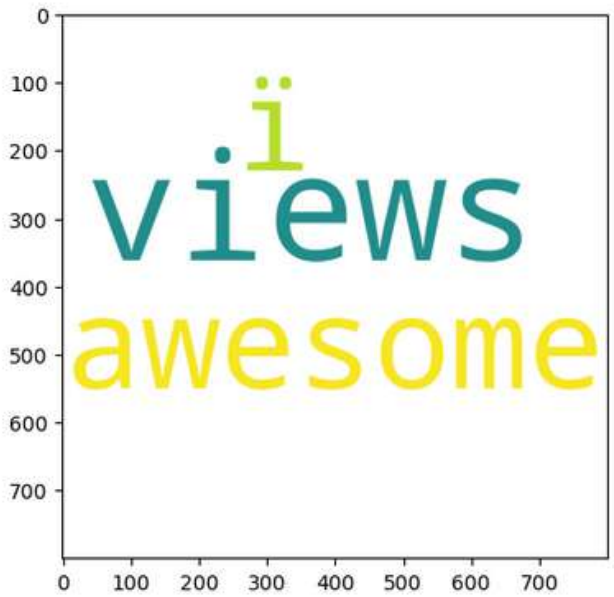
Code JupyterLab Python 3 (ipykernel)

[25]:
```
plt.imshow(wordcloud)
```

[25]:
```
<matplotlib.image.AxesImage at 0x219da4be990>
```



[27]:
```
plt.tight_layout(pad = 0)
```

```
<Figure size 640x480 with 0 Axes>
```

[29]:
```
plt.show()
```

[ ]:

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