

# Introduction to World Cloud

What is wordcloud?

Word clouds or tag clouds are graphical representations of word frequency that give greater prominence to words that appear more frequently in a source text. The larger the word in the visual the more common the word was in the document(s).

Word Cloud is a data visualization technique used for representing text data in which the size of each word indicates its frequency or importance. Significant textual data points can be highlighted using a word cloud. Word clouds are widely used for analyzing data from social network websites.

For generating word cloud in Python, modules needed are – matplotlib, pandas and wordcloud. To install these packages, run the following commands :

```
pip install matplotlib  
pip install pandas  
pip install wordcloud
```

```
# Python program to generate WordCloud
# importing all necessary modules
from wordcloud import WordCloud, STOPWORDS
import matplotlib.pyplot as plt
import pandas as pd

# Reads 'Youtube04-Eminem.csv' file
df = pd.read_csv(r"Youtube04-Eminem.csv", encoding = "latin-1")
comment_words = ""
stopwords = set(STOPWORDS)

# iterate through the csv file
for val in df.CONTENT:
    # typecaste each val to string
    val = str(val)

    # split the value
    tokens = val.split()

    # Converts each token into lowercase
```

```
for i in range(len(tokens)):
    tokens[i] = tokens[i].lower()
    comment_words += " ".join(tokens)+" "
wordcloud = WordCloud(width = 800, height = 800,
                       background_color = 'white',
                       stopwords = stopwords,
                       min_font_size = 10).generate(comment_words)

# plot the WordCloud image
plt.figure(figsize = (8, 8), facecolor = None)
plt.imshow(wordcloud)
plt.axis("off")
plt.tight_layout(pad = 0)

plt.show()
```

