

```
In [1]: import pandas as pd
import numpy as np
import re
df1 = pd.read_csv("comments.csv")
df1.head()
```

```
Out[1]:
```

	Name	People_URL	Page_Or_Person	Post_U
0	Andreas Kenotaph	https://m.facebook.com/andreas.inkmann	Person	https://m.facebook.com/story.pl story_fbld=3
1	Top fan\nLuca Maccarone	https://m.facebook.com/luca.maccarone.7	Person	https://m.facebook.com/story.pl story_fbld=3
2	Lia Silva	https://m.facebook.com/alma.lilly.aho	Person	https://m.facebook.com/story.pl story_fbld=3
3	Author\nShankra Festival	https://m.facebook.com/shankrafestival/	Page	https://m.facebook.com/story.pl story_fbld=3
4	Author\nShankra Festival	https://m.facebook.com/shankrafestival/	Page	https://m.facebook.com/story.pl story_fbld=3



```
In [2]: df1.shape
```

```
Out[2]: (741, 5)
```

```
In [3]: df2 = df1.drop(['People_URL', 'Post_URL', 'Page_Or_Person', 'Name'], axis = 1)
df2.head()
```

```
Out[3]:
```

	Comment
0	Felt good to give you something back for all t...
1	I already can't wait for next year ☺ It will b...
2	Is the line up remaining the same?□
3	yes :)
4	Yes, tickets for the 2020's edition will grant...

```
In [4]: df3 = df2.astype(str).apply(lambda x: x.str.encode('ascii', 'ignore').str.decode('ascii'))
df3.head(5)
```

Out[4]:

Comment

```
0 Felt good to give you something back for all t...
1 I already cant wait for next year It will be ...
2 Is the line up remaining the same?
3 yes :)
4 Yes, tickets for the 2020's edition will grant...
```

In [5]:

```
spec_chars = ["!", "$", "%", "^", "*", "~", "!", "_", "-", "{", "\\", ':', ';', '"', "'", '<', ',', '>']
for char in spec_chars:
    df3['Comment'] = df3['Comment'].str.replace(char, ' ')
```

In [6]:

```
df3.head(8)
```

Out[6]:

Comment

```
0 Felt good to give you something back for all t...
1 I already cant wait for next year It will be ...
2 Is the line up remaining the same
3 yes :)
4 Yes tickets for the 2020's edition will grant...
5 Lucas Bourget meme line up ^^
6 Ela Httniegir
7 Aguardo com muita serenidade pela minha primei...
```

In [7]:

```
df3['Comment'] = df3['Comment'].astype(str).str.replace('aaa', 'a')
```

In [8]:

```
df3.head(5)
```

Out[8]:

Comment

```
0 Felt good to give you something back for all t...
1 I already cant wait for next year It will be ...
2 Is the line up remaining the same
3 yes :)
4 Yes tickets for the 2020's edition will grant...
```

In [9]:

```
df3.replace('', np.nan, inplace=True)
df3.head(5)
```

Out[9]:

Comment

```
0 Felt good to give you something back for all t...
1 I already cant wait for next year It will be ...
```

	Comment
2	Is the line up remaining the same
3	yes :)
4	Yes tickets for the 2020's edition will grant...

```
In [22]: df4= df3.Comment.str.split(expand=True).stack()
df4.loc[t.str.len() >= 4].groupby(level=0).apply(' '.join)
```

```
Out[22]: 0      Felt good give something back efforts last yea...
1      already cant wait next year will even greater ...
2                                     line remaining same
4      tickets 2020's edition will grant access next ...
5      Lucas Bourget meme line

...
733                                     Yeah
734      media1.tenor.co media1.tenor.co
735                                     yeeeeeees
736      Retro mega nice
740                                     Gaan
Length: 687, dtype: object
```

```
In [ ]: df4.to_csv('wordcloudfinal.csv', index=False)
```

```
In [10]: from subprocess import check_output
from wordcloud import WordCloud, STOPWORDS
```

```
In [11]: #mpl.rcParams['figure.figsize']=(8.0,6.0)      #(6.0,4.0)
mpl.rcParams['font.size']=12                          #10
mpl.rcParams['savefig.dpi']=100                       #72
mpl.rcParams['figure.subplot.bottom']=.1
```

```
In [12]: stopwords = set(STOPWORDS)
data = pd.read_csv("wordcloudfinal.csv")
```

```
In [13]: wordcloud = WordCloud(
background_color='white',
stopwords=stopwords,
max_words=400,
max_font_size=60,
random_state=72
).generate(str(data['Comment']))
```

```
In [14]: print(wordcloud)
fig = plt.figure(1)
plt.imshow(wordcloud)
plt.axis('off')
plt.show()
fig.savefig("word1.png", dpi=900)
```

<wordcloud.wordcloud.WordCloud object at 0x094E5E08>