

Youtube Comments sentiment analysis

```
In [1]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
```

```
In [2]: df=pd.read_csv(r'D:\Youtube_project_shan_singh\Youtube_project_shan_singh\Uscomments.csv',error_bad_lines=False)
```

C:\Users\dell\AppData\Local\Temp\ipykernel_1236\2459335420.py:1: FutureWarning: The error_bad_lines argument has been deprecated and will be removed in a future version. Use on_bad_lines in the future.

```
df=pd.read_csv(r'D:\Youtube_project_shan_singh\Youtube_project_shan_singh\Uscomments.csv',error_bad_lines=False)
b'Skipping line 41589: expected 4 fields, saw 11\nSkipping line 51628: expected 4 fields, saw 7\nSkipping line 114465: expected 4 fields, saw 5\n'
b'Skipping line 142496: expected 4 fields, saw 8\nSkipping line 189732: expected 4 fields, saw 6\nSkipping line 245218: expected 4 fields, saw 7\n'
b'Skipping line 388430: expected 4 fields, saw 5\n'
C:\Users\dell\AppData\Local\Temp\ipykernel_1236\2459335420.py:1: DtypeWarning: Columns (2,3) have mixed types. Specify dtype option on import or set low_memory=False.
df=pd.read_csv(r'D:\Youtube_project_shan_singh\Youtube_project_shan_singh\Uscomments.csv',error_bad_lines=False)
```

```
In [3]: df.head()
```

```
Out[3]:
```

	video_id	comment_text	likes	replies
0	XpVt6Z1Gjjo	Logan Paul it's yo big day !!!!!	4	0
1	XpVt6Z1Gjjo	I've been following you from the start of your...	3	0
2	XpVt6Z1Gjjo	Say hi to Kong and maverick for me	3	0
3	XpVt6Z1Gjjo	MY FAN . attendance	3	0
4	XpVt6Z1Gjjo	trending 😊	3	0

```
In [12]: df.shape
```

```
Out[12]: (691400, 4)
```

```
In [4]: df.count()
```

```
Out[4]: video_id      691400
comment_text    691375
likes           691400
replies         691400
dtype: int64
```

```
In [5]: df.isnull().sum()
```

```
Out[5]: video_id      0
comment_text    25
likes           0
replies         0
dtype: int64
```

```
In [6]: from textblob import TextBlob
```

```
In [7]: TextBlob('Say hi to Kong and maverick for me').sentiment.polarity
```

```
Out[7]: 0.0
```

```
In [9]: l=[]
for i in df['comment_text']:
    try:
        l.append(TextBlob(i).sentiment.polarity)
    except:
        l.append(0)
```

```
In [11]: len(l)
```

```
Out[11]: 691400
```

```
In [13]: df['polarity']=1
```

```
In [14]: positive=df[df['polarity']==1]
```

```
In [15]: positive
```

Out[15]:

	video_id		comment_text	likes	replies	polarity
64	XpVt6Z1Gjjo		yu are the best	1	0	1.0
156	cLdxuaxaQwc	Power is the disease. Care is the cure. Keep...		0	0	1.0
227	WYYvHb03Eog	YAS Can't wait to get it! I just need to sell ...		0	0	1.0
307	sjlHnJvXdQs		This is priceless	0	0	1.0
319	sjlHnJvXdQs		Summed up perfectly	0	0	1.0
...
691373	EoejGgUNmVU		Perfect. Every version	0	0	1.0
691383	EoejGgUNmVU		Me encantaaaaa <3	0	0	1.0
691388	EoejGgUNmVU		Best song ever 🙌	0	0	1.0
691389	EoejGgUNmVU		excellent performance	0	0	1.0
691393	EoejGgUNmVU		<3	0	0	1.0

19390 rows × 5 columns

```
In [16]: negative=df[df['polarity']== -1]
```

```
In [17]: negative
```

Out[17]:

	video_id	comment_text	likes	replies	polarity
512	8wNr-NQImFg	BEN CARSON IS THE MAN!!!!!! THEY HATE HIM CAUSE...	0	0	-1.0
562	8wNr-NQImFg	Well... The brain surgeon Ben Carson just proved...	0	0	-1.0
952	Ayb_2qbZHm4	WHY DID YOU MAKE FURRY FORCE?! SO NASTY!!!	0	0	-1.0
1371	vu_9muoxT50	WTF BRUH!!!!!!!	0	0	-1.0
1391	vu_9muoxT50	cheeseus christ thats insane!!!	0	0	-1.0
...
690788	Hlt3rA-oDao	Like Kelly she evil	0	0	-1.0
690865	Ni5Uc-DdMqk	R U FUCKING KIDDING ME?!?!?!?!?	11	1	-1.0
691073	4kmSATD25iY	This is horribly offensive please report	0	0	-1.0
691180	xlu6i6IT_vk	Sink holes looks terrifying sinkholes sink you...	0	0	-1.0
691224	qRoVIH1OcL4	Trump talked to the president of US Virgin Isl...	0	0	-1.0

3508 rows × 5 columns

```
In [18]: negative_comments=' '.join(negative['comment text'])
```

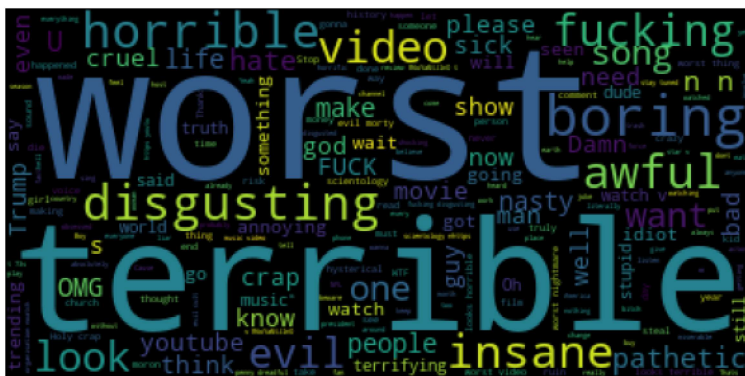
```
In [19]: negative_comments
```

Out[19]: "BEN CARSON IS THE MAN!!!!!! THEY HATE HIM CAUSE HE EXPOSED HITLARY'S RITUAL ABUSE ON CHILDREN!!!!!! Well... The brain surgeon Ben Carson just proved how truly insane he is... WHY DID YOU MAKE FURRY FORCE?! SO NASTY!!! WTF BRUH!!!!!! cheeseus christ that s insane!!! this is the worst thing i've heard. ever. Economy is horrible in Cuba. It's going to be years before they get out of this. Sub to me if this is terrible PATHETIC I don't like this sportscaster sounds very annoying commentators are awful T his tv show became trump witch hunt tube... and frankly, boring. Arpaio should be arrested again for horribly butchering that song. This show has become one-noted and pathetic. HARD CANDY!!!!!!!!!! Tired of the philosophy add !!!!!!!!! boring 0:22 * *laughs at terrible pun** Why is media even covering this disgusting woman anymore? How is this trending? Awful a horrible a ttempt to try and get us to freak out this is one of the worst videos I've ever seen Whats with the horrible music? tf She is the worst. Boring boring Pls make star vs the forces of evil cookies or cake😞Pls... Oliver is an idiot! I won't read this co mment. What a Dick I am, I can't believe I just read this. I am pathetic! Terrible They got the worst brand of honey soy chip s 😞 Please let this die, you can tell the actors are miserable. can't wait :(Don't be bringing cucumbers to the theaters t his time!! You know who you are, ya nasty OMG...he's Stephen FUCKING Hawking's !!!! (sarcasm: off) Does Tommy knows that h e's horrible? Insane album this is boring The ripping of the evil Qur'aan and If I am no longer here, here is my advice\\nhhtt ps://youtu.be/szZTiavY-6A\\nLike and RT Whoever did your makeup did a terrible job. Her book should be titled, Damn I can't e ven beat him? I wish she would just fade into the background already. How miserable 😞 must life be to want to read this book. The like to dislike ratio to this video is just hysterical. Is she into you? If you watch I video like this, probably n o.\\nWhat's the worst that could happen? Depends on the size of ya town. Do you guys JUST hate it when people edit their comm ent??? she has the most fashion sense 3:33 to 3:36 they would jerk around uncontrollably, making terrifying noises, then th ey would die. I was imagining cats masturbating to death. Prayers to everyone who was affected by this terrible event. 🙏🏻

```
In [20]: Positive comments=' '.join(positive['comment text'])
```

```
In [22]: from wordcloud import WordCloud, STOPWORDS
```

```
Out[23]: (-0.5, 399.5, 199.5, -0.5)
```



```
Out[24]: (-0.5, 399.5, 199.5, -0.5)
```



Comments-Emoji Analysis

localhost:8888/notebooks/Sentiment Analysis.ipynb


```
In [33]: dict1 = {}  
for i in l:  
    if i in dict1:  
        dict1[i] += 1  
    else: dict1[i] = 1
```

```
In [34]: obj=list(dict1.keys())  
freq=list(dict1.values())
```

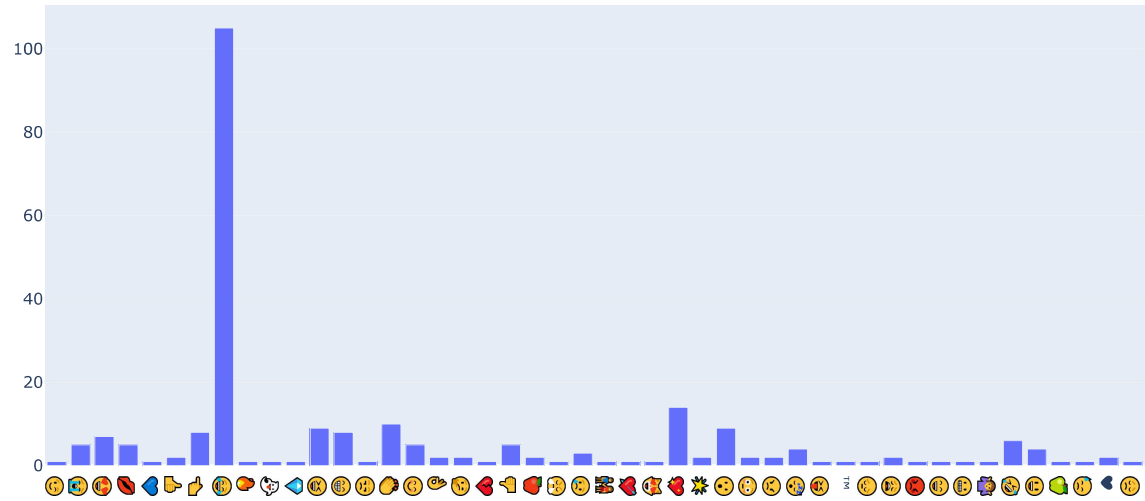
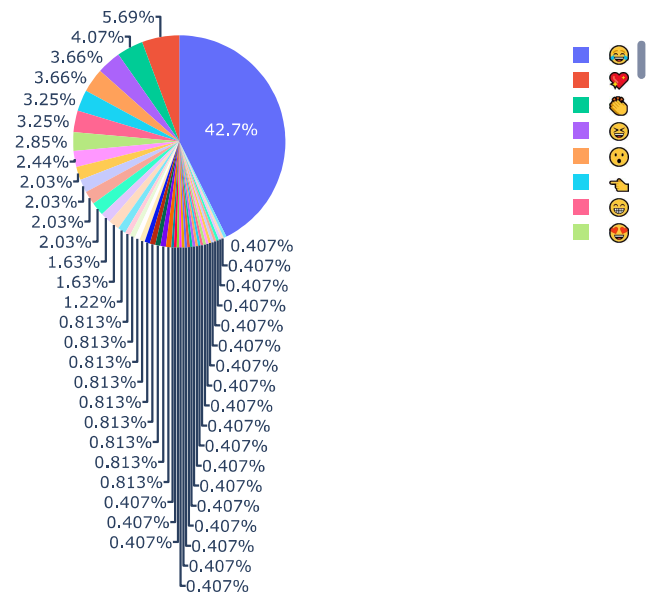
```
In [35]: import plotly.graph_objs as go
```

```
In [36]: from plotly.offline import iplot
```

```
In [37]: file=go.Bar(x=obj,y=freq)
```

```
In [38]: file1=go.Pie(labels=obj,values=freq)
```

```
In [39]: iplot([file1])
         iplot([file])
```



```
In [ ]:
```