```
In [1]:
```

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

### so that u dont have warnings
from warnings import filterwarnings
filterwarnings('ignore')

from wordcloud import WordCloud, STOPWORDS
from textblob import TextBlob
```

#### In [3]:

```
from textblob import TextBlob
```

#### sentiment analysis of youtube\_comments

#### In [6]:

```
TextBlob('Logan Paul its yo big day !!!!!').sentiment.polarity
```

## Out[6]:

0.0

#### In [7]:

```
polarity=[] # list which will contain the polarity of the comments
for i in comments['comment_text']:
    try:
        polarity.append(TextBlob(i).sentiment.polarity)
    except:
        polarity.append(0)
```

#### In [8]:

```
comments['polarity']=polarity
```

#### In [9]:

```
comments.head()
```

### Out[9]:

	video_id	comment_text	likes	replies	polarity
0	XpVt6Z1Gjjo	Logan Paul it's yo big day !!!!!	4	0	0.0
1	XpVt6Z1Gjjo	I've been following you from the start of your	3	0	0.0
2	XpVt6Z1Gjjo	Say hi to Kong and maverick for me	3	0	0.0
3	XpVt6Z1Gjjo	MY FAN . attendance	3	0	0.0
4	XpVt6Z1Gjjo	trending ③	3	0	0.0

# In [11]:

```
stopwords=set(STOPWORDS)
```

### In [12]:

```
total_comments= (' '.join(comments_positive['comment_text']))
wordcloud = WordCloud(width = 1000, height = 500, stopwords=stopwords).generate(total_comments)
plt.figure(figsize=(15,5))
plt.imshow(wordcloud)
plt.axis('off')
```

#### Out[12]:

(-0.5, 999.5, 499.5, -0.5)



#### In [48]:

```
comments_negative = comments[comments['polarity']==-1]
```

### In [49]:

```
comments_negative= (' '.join(comments_negative['comment_text']))
wordcloud = WordCloud(width = 1000, height = 500).generate(comments_negative)
plt.figure(figsize=(15,5))
plt.imshow(wordcloud)
plt.axis('off')
```

#### Out[49]:

(-0.5, 999.5, 499.5, -0.5)



# In [15]:

```
# joining and making a complete list
tags_complete= (' '.join(videos['tags']))
```

### In [16]:

```
import re
tags=re.sub('[^a-zA-Z]',' ',tags_complete)
```

## In [17]:

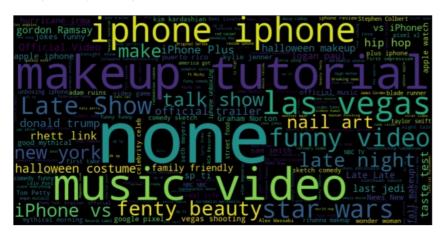
```
tags=re.sub(' +',' ',tags)
```

#### In [19]:

```
wordcloud = WordCloud(width = 1000, height = 500, stopwords=set(STOPWORDS)).generate(tags)# word cloud
plt.figure(figsize=(15,5))
plt.imshow(wordcloud)
plt.axis('off')
```

#### Out[19]:

(-0.5, 999.5, 499.5, -0.5)



Lets find out the relation among continuous variables

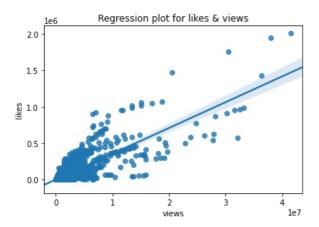
As quite obvious the number of likes have very strong relation with views

#### In [20]:

```
sns.regplot(data=videos,x='views',y='likes')
plt.title("Regression plot for likes & views")
```

### Out[20]:

Text(0.5, 1.0, 'Regression plot for likes & views')



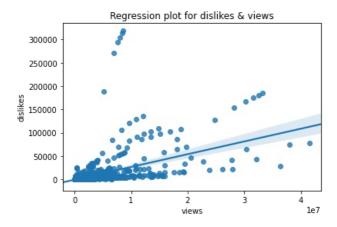
dislikes vs views Analysis

#### In [21]:

```
sns.regplot(data=videos,x='views',y='dislikes')
plt.title("Regression plot for dislikes & views")
```

#### Out[21]:

Text(0.5, 1.0, 'Regression plot for dislikes & views')



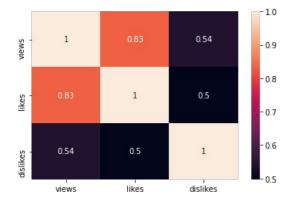
#### Correlation matrix is the evidence of above analysis!

#### In [22]:

```
df_corr = videos[['views','likes','dislikes']]
sns.heatmap(df_corr.corr(),annot=True)
```

#### Out[22]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x99b6f31488>



## Analyse Emojis in comments

# In [23]:

comments.head()

#### Out[23]:

	video_id	comment_text	likes	replies	polarity
0	XpVt6Z1Gjjo	Logan Paul it's yo big day !!!!!	4	0	0.0
1	XpVt6Z1Gjjo	I've been following you from the start of your	3	0	0.0
2	XpVt6Z1Gjjo	Say hi to Kong and maverick for me	3	0	0.0
3	XpVt6Z1Gjjo	MY FAN . attendance	3	0	0.0
4	XpVt6Z1Gjjo	trending ©	3	0	0.0

# In [24]:

# import emoji

#### In [26]:

comments['comment\_text'].dropna(inplace=True)

```
In [27]:
len(comments)
Out[27]:
691400
In [28]:
comments['comment_text'][4]
Out[28]:
'trending 3'
Every emoji has a Unicode associated with it
    '\U0001F600' is a unicode for ⊕
In [29]:
comment='trending ''
[c for c in comment if c in emoji.UNICODE_EMOJI]
Out[29]:
['3']
In [30]:
for i in comments['comment_text']:
    list=[c for c in i if c in emoji.UNICODE_EMOJI]
    for ele in list:
        str=str+ele
```

#### In [31]:

#### print(str)

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© ○ ○ ○ MMM © © £2♥ ♥ MM ♥ ♥ ZMM % ♥♥ WM M ♥♥ > ○ ○ ○ ● ♥♥♥♥ © © ♥ ♥ ♥ ♥ ♥♥♥♥♥₩₩₩₩₩₩ © 0 ○ ○ ● ● ♥ ♥ ♥ ♥ ♥
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In [32]:

len(str)

Out[32]:

304745

lets create a dictionary of having each emoji with its frequency as well

```
In [33]:
```

```
res = {i : str.count(i) for i in set(str)}
res
```

## Out[33]:

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 ...}
In [35]:
keys=[*res.keys()]
values=[*res.values()]
```

'': 176, '©': 176, '': 177,

## In [36]:

```
df = pd.DataFrame({'chars':keys[-20:], 'num':values[-20:]})
df
```

## Out[36]:

	chars	num
0		2279
1		2549
2	(2)	2672
3	•	2831
4		3112
5	<b>②</b>	3381
6		3429
7		3438
8	©	3596
9	•	4909
10	••	5147
11	8	5359
12		5476
13	(3)	5545
14		5719
15	8	8398
16		8694
17	•	31119
18	•	33453
19	⊜	36987