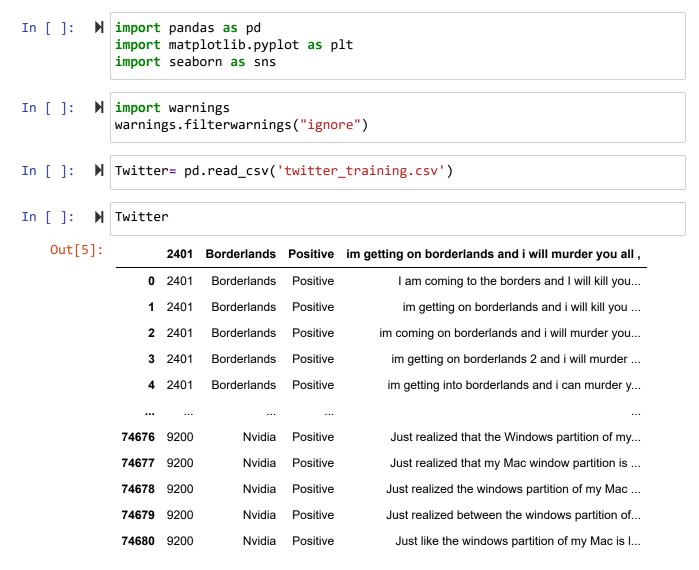
## Perform EDA and Visualization of Twitter Sentiments in Social Media

## **Overview of the TWITTER Dataset**

This is an entity-level sentiment analysis dataset of twitter. Given a message and an entity, the task is to judge the sentiment of the message about the entity. There are three classes in this dataset: Positive, Negative and Neutral. We regard messages that are not relevant to the entity (i.e. Irrelevant) as Neutral.



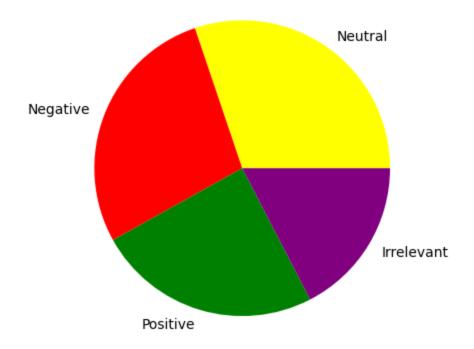
74681 rows × 4 columns

In [	]:	M	Twitter.head()						
C	Out[6	]:	2	401 Bo	orderlands	Positiv	e im	getting on borderlands and i will murder you all ,	
			0 2	401 B	orderlands	Positiv	/e	I am coming to the borders and I will kill you	
			1 2	401 B	orderlands	Positiv	/e	im getting on borderlands and i will kill you	
			<b>2</b> 2	401 B	orderlands	Positiv	/e	im coming on borderlands and i will murder you	
			3 2	401 B	orderlands	Positiv	/e	im getting on borderlands 2 and i will murder	
			4 2	401 B	orderlands	Positiv	/e	im getting into borderlands and i can murder y	
In [	]:	H	Twit	ter.ta	il()				
C	Out[7	]:		2401	Borderla	nds Po	ositive	im getting on borderlands and i will murder you all ,	
			7467	<b>6</b> 9200	N <sub>1</sub>	vidia P	Positive	Just realized that the Windows partition of my	
			7467	<b>7</b> 9200	) N	vidia P	ositive	Just realized that my Mac window partition is	
			7467	<b>8</b> 9200	) N	vidia P	ositive	Just realized the windows partition of my Mac	
			7467	<b>9</b> 9200	) N	vidia P	Positive	Just realized between the windows partition of	
			7468	<b>0</b> 9200	) N	vidia P	ositive	Just like the windows partition of my Mac is I	
In [	]:	H	Twitter.shape						
C	Out[8	]:	(746	81, 4)					
In [	]:	H	Twitter.describe()						
Out[9]		]:	2401						
			cour	nt 7468	1.000000				
			mea	<b>n</b> 643	2.640149				
			std 3740.42381						
			mi	n	1.000000				
			25%	<b>6</b> 319	5.000000				
			50%	<b>6</b> 42	2.000000				
			75%	<b>6</b> 960	1.000000				
			ma	<b>x</b> 1320	0.000000				

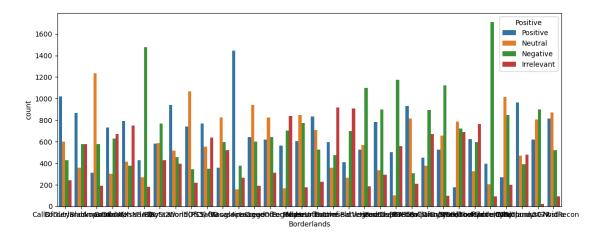
In [ ]:

▶ Twitter.info()

```
<class 'pandas.core.frame.DataFrame'>
             RangeIndex: 74681 entries, 0 to 74680
             Data columns (total 4 columns):
                   Column
                                                                                 Non-Null Coun
             t Dtype
                   2401
                                                                                 74681 non-nul
             l int64
                   Borderlands
                                                                                 74681 non-nul
               1
             1 object
               2
                   Positive
                                                                                 74681 non-nul
             1 object
              3
                   im getting on borderlands and i will murder you all , 73995 non-nul
             1 object
             dtypes: int64(1), object(3)
             memory usage: 2.3+ MB
          M Twitter.isnull().sum()
In [ ]:
  Out[11]: 2401
                                                                                0
             Borderlands
                                                                                0
             Positive
                                                                                0
             im getting on borderlands and i will murder you all,
                                                                              686
             dtype: int64
         Data Cleaning And Exploratory Data Analysis
          Twitter.drop(["2401"],axis = 1,inplace = True)
In [ ]:
             Twitter.head()
  Out[12]:
                 Borderlands Positive im getting on borderlands and i will murder you all,
              0
                 Borderlands Positive
                                             I am coming to the borders and I will kill you...
                  Borderlands Positive
                                              im getting on borderlands and i will kill you ...
              2 Borderlands Positive
                                           im coming on borderlands and i will murder you...
                  Borderlands
                              Positive
                                            im getting on borderlands 2 and i will murder ...
                  Borderlands Positive
                                            im getting into borderlands and i can murder y...
          ▶ Twitter['Positive'].value_counts()
In [ ]:
  Out[25]: Negative
                             22542
             Positive
                             20831
             Neutral
                             18318
             Irrelevant
                             12990
             Name: Positive, dtype: int64
```



Out[29]: <Axes: xlabel='Borderlands', ylabel='count'>



```
In [ ]: N
```