# **Twitter**

2024-08-21

## Twitter Sentiment Analysis Data-set

This is an entity-level sentiment analysis data-set 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 data-set: Positive, Negative and Neutral. We regard messages that are not relevant to the entity (i.e. Irrelevant) as Neutral.

ID 7 <int> &lt;</int>	<b>Topic</b> <chr></chr>	Sentiment <chr></chr>							•
2401 E	Borderlands	Positive							
2401 E	Borderlands	Positive							
2401 E	Borderlands	Positive							
2401 E	Borderlands	Positive							
2401 E	Borderlands	Positive							
2401 E	Borderlands	Positive							
2402 E	Borderlands	Positive							
2402 E	Borderlands	Positive							
2402 E	Borderlands	Positive							
2402 E	Borderlands	Positive							
1-10 of 10,000 rows   1-3	of 4 columns	Previous	1	2	3	4	5	6	1000 Next

## Dimension of the data-set [1] 74682

[1] "ID"

# Variables in the data-set

"Topic"

Description of the variables in the dataset

### 'data.frame': 74682 obs. of 4 variables:

"Sentiment" "Text"

\$ Topic : chr "Borderlands" "Borderlands" "Borderlands" ... \$ Sentiment: chr "Positive" "Positive" "Positive" "Positive" ... : chr "im getting on borderlands and i will murder you all ," "I am coming to the borders and I will kill you all," "im getting on borderlands and i will kill you all," "im coming on borderlands and i will murder y ou all," ... Summary of the data-set

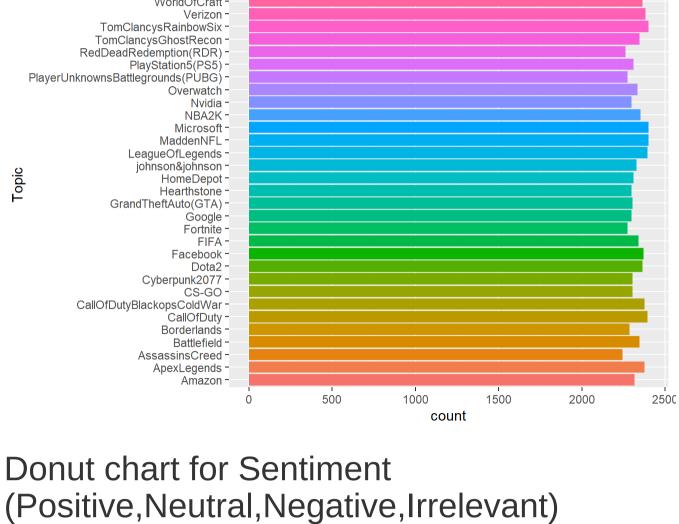
#### Topic Sentiment Min Length: 74682 Length: 74682

Min. : 1 1st Qu.: 3195 Median : 6422 Mean : 6433	Length:74682 Class :character Mode :character	Length:74682 Class :character Mode :character	
3rd Qu.: 9601 Max. :13200			

Text

## [1] 0 Column diagram for differnt topics vs count

#### **Topic** Xbox(Xseries) -WorldOfCraft -Verizon -



### Irrelevant value:17% Positive

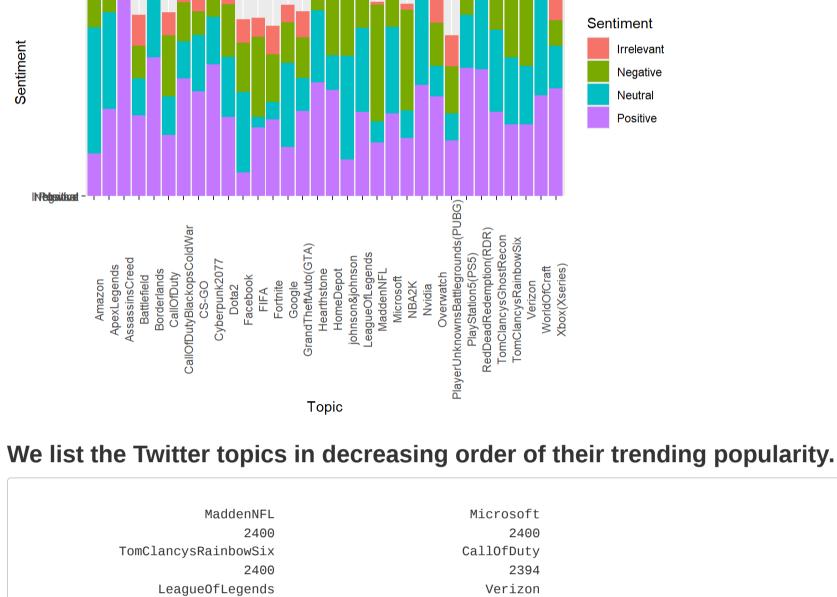
Sentiment

value:28% Negative value:30% Neutral Bar chart for different levels of sentiment (Positive, Neutral, Negative, Irrelevant) vs. different topics

Warning in geom\_bar(aes(fill = Sentiment), stat = "identity", positive =

"dodge"): Ignoring unknown parameters: `positive`

# Sentiment



#### 2376 Facebook Dota2 2370 2364

CallOfDutyBlackopsColdWar

2394

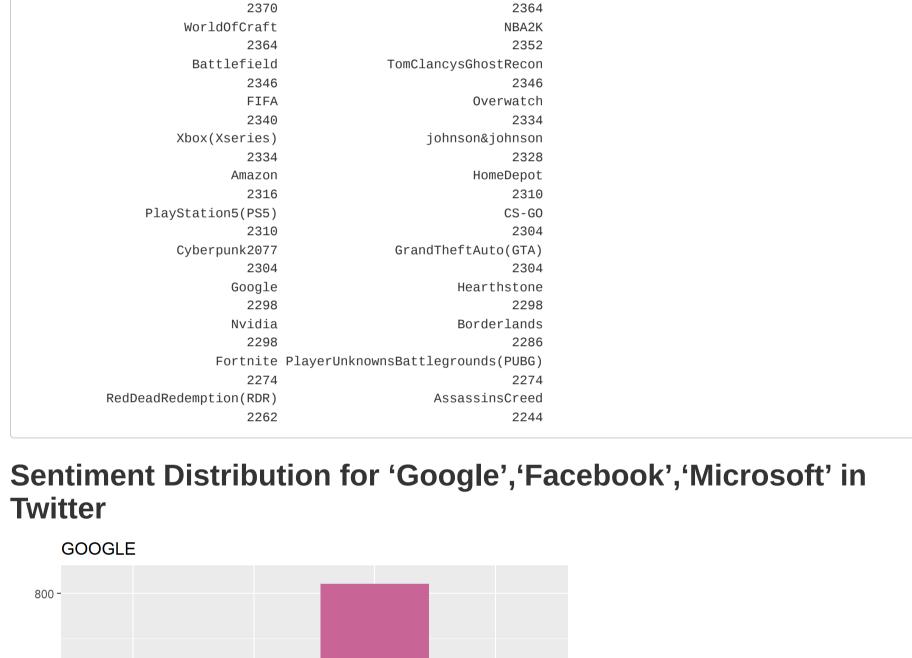
ApexLegends

600 -

Irrelevant

Negative

2382



## count Neutral Positive 200 -

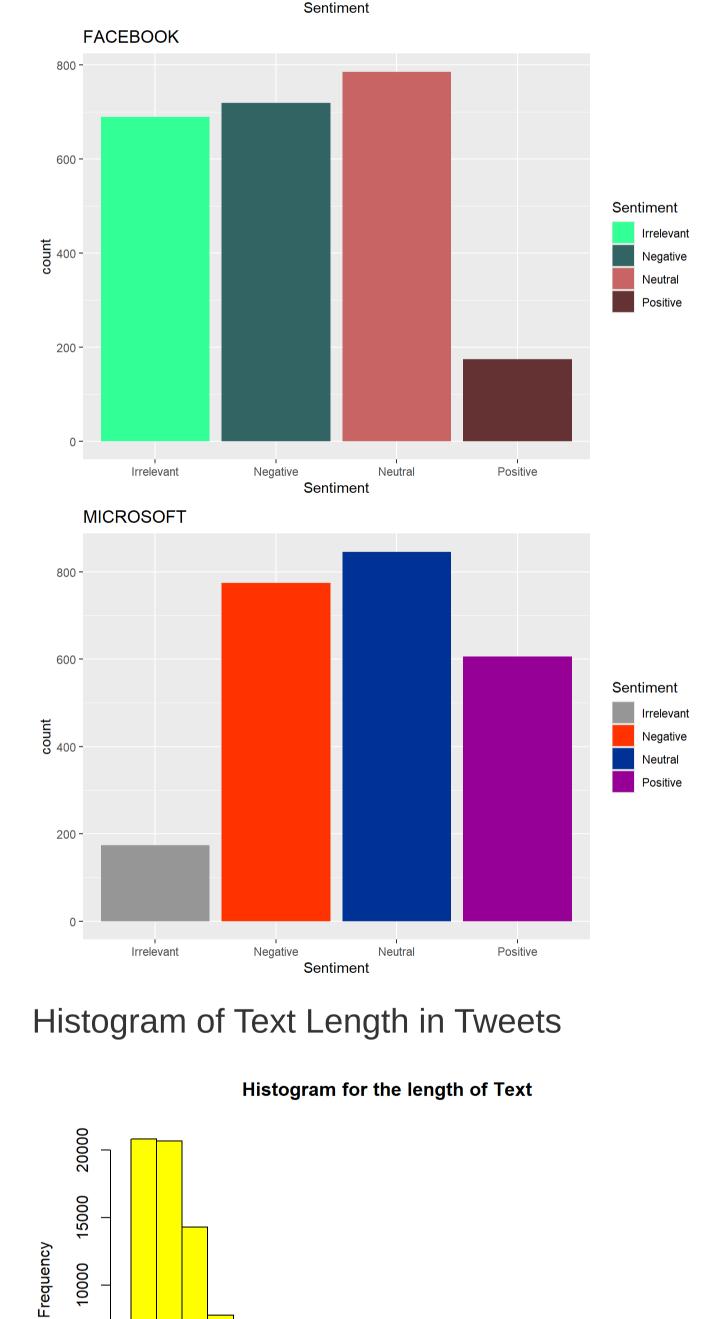
Positive

Neutral

Sentiment

Irrelevant

Negative



#### 0 0 200 400 600 800 1000

This histogram visualizes the distribution of tweet lengths based on the number of characters.

The distribution is right-skewed, with the majority of tweets having shorter text lengths.

Verizon

Overwatch Nvidia NBA2K

Microsoft MaddenNFL

LeagueOfLegends

Loading required package: RColorBrewer

TomClancysRainbowSix
TomClancysGhostRecon
RedDeadRedemption(RDR)
PlayStation5(PS5)

PlayerUnknownsBattlegrounds(PUBG)

**Text Length** 

The highest frequency of tweets falls within the 0 to 100 character range, with over 20,000 tweets in this interval. This indicates that most tweets

As text length increases, the frequency of tweets decreases sharply. Very few tweets exceed 300 characters, and tweets with lengths approaching the maximum of 1,000 characters are extremely rare. This heatmap visualizes the relationship between sentiment (Positive, Neutral, Negative, Irrelevant) and various topics discussed on Twitter. Each cell in the heatmap represents the intensity or frequency of a particular sentiment associated with a specific topic, allowing for a quick identification of patterns and trends across different topics. Heatmap of Topic vs Sentiment Xbox(Xseries) WorldOfCraft



In a word cloud, the size of each word indicates its frequency or importance—the larger the word, the more frequently it appears in the text.

value

1600

# Loading required package: NLP

annotate

are concise.

Attaching package: 'NLP' The following object is masked from 'package:ggplot2':