THERESA MAY | BORIS JOHNSON

# BREXIT SENTIMENT ANALYSIS

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#### **OBJECTIVE**

# HAVE FEELINGS ABOUT BREXIT CHANGED THROUGHOUT 2019?

#### **METHODOLOGY**

1

**Twitter Scraping** 

28K Tweets refering to Brexit

3

**Vader Sentiment Analysis** 

Library most suited for social media text

2

**Processing** 

Pre-process data.

Transform data to a vectorized form with Gensim.

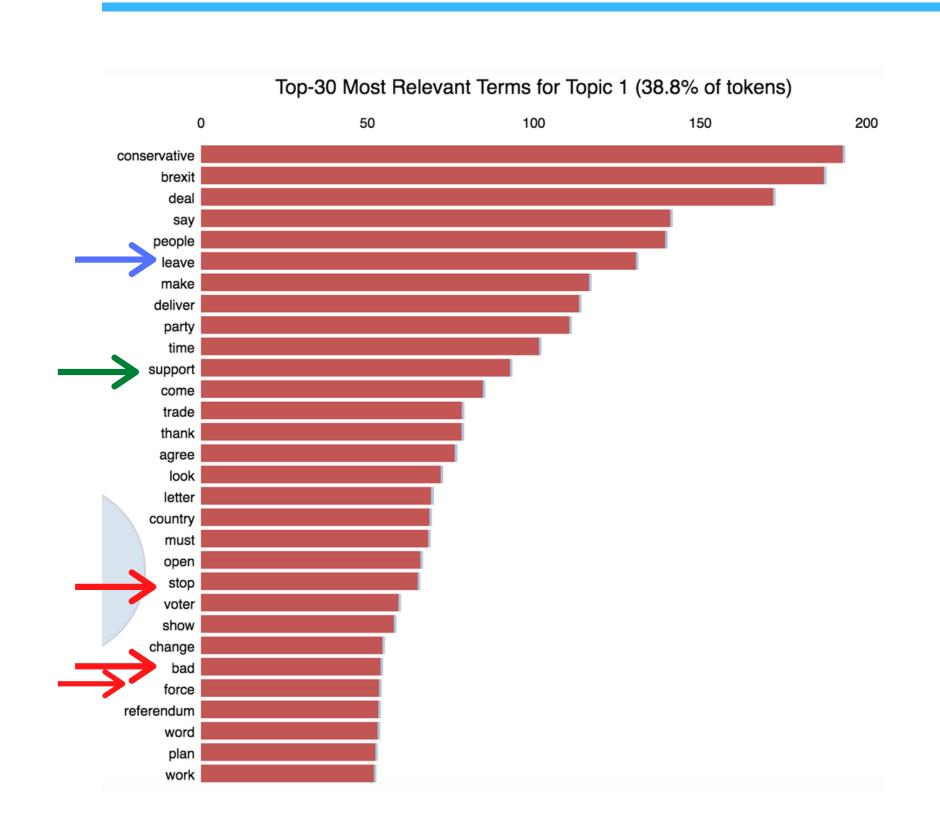
4

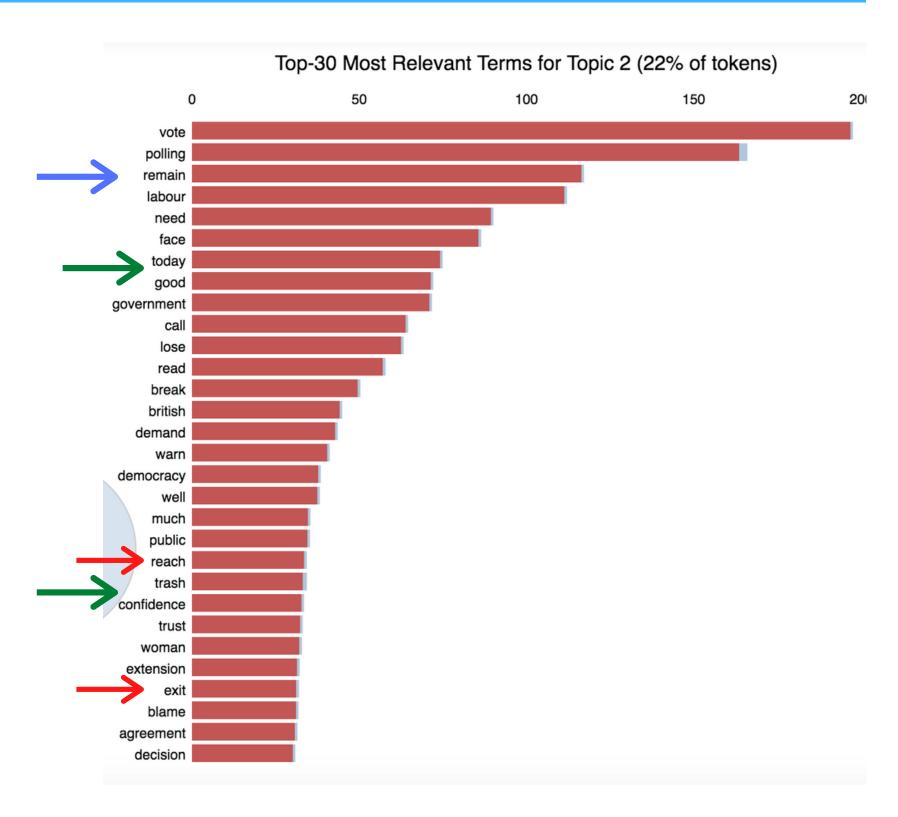
Latent Dirichlet Allocation (LDA) for Topic Classification

Unsupervised learning algorithm

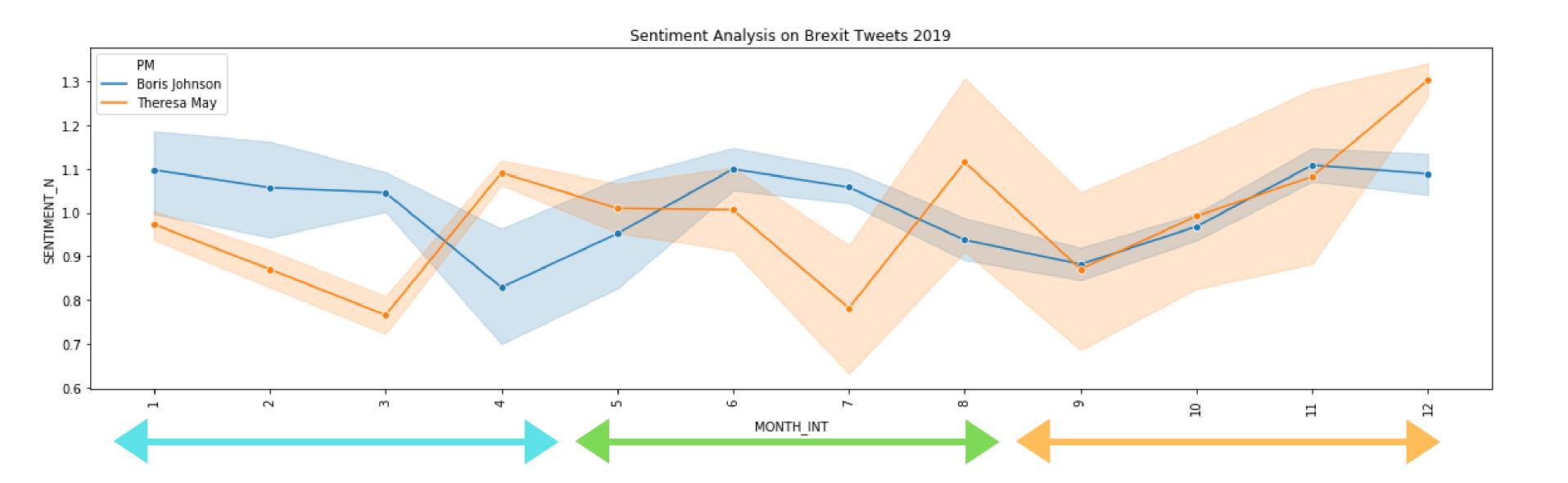
2 Topics per range of time chosen based on most frequent words.

# TOPIC ANALYSIS JANUARY - APRIL

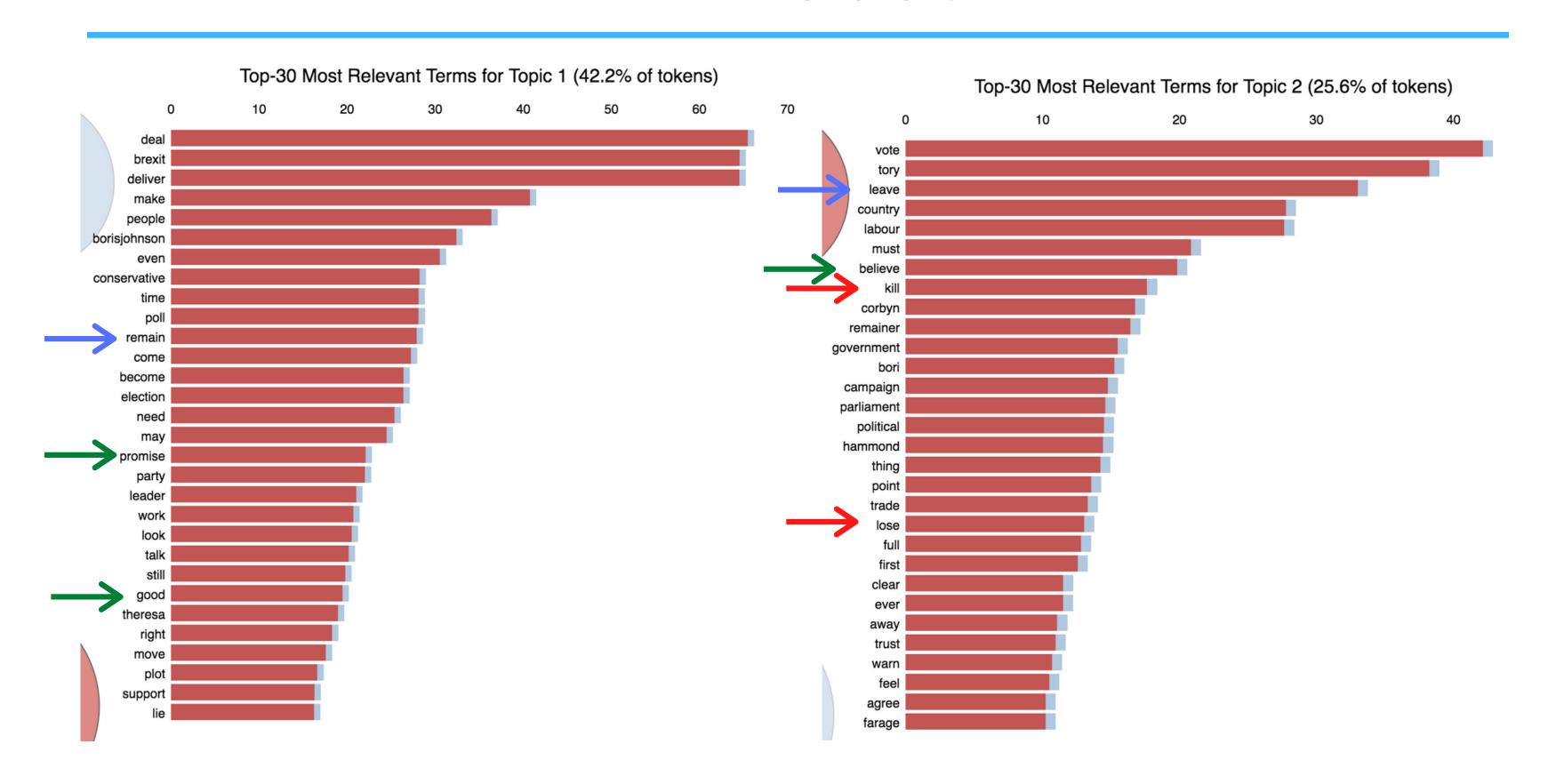




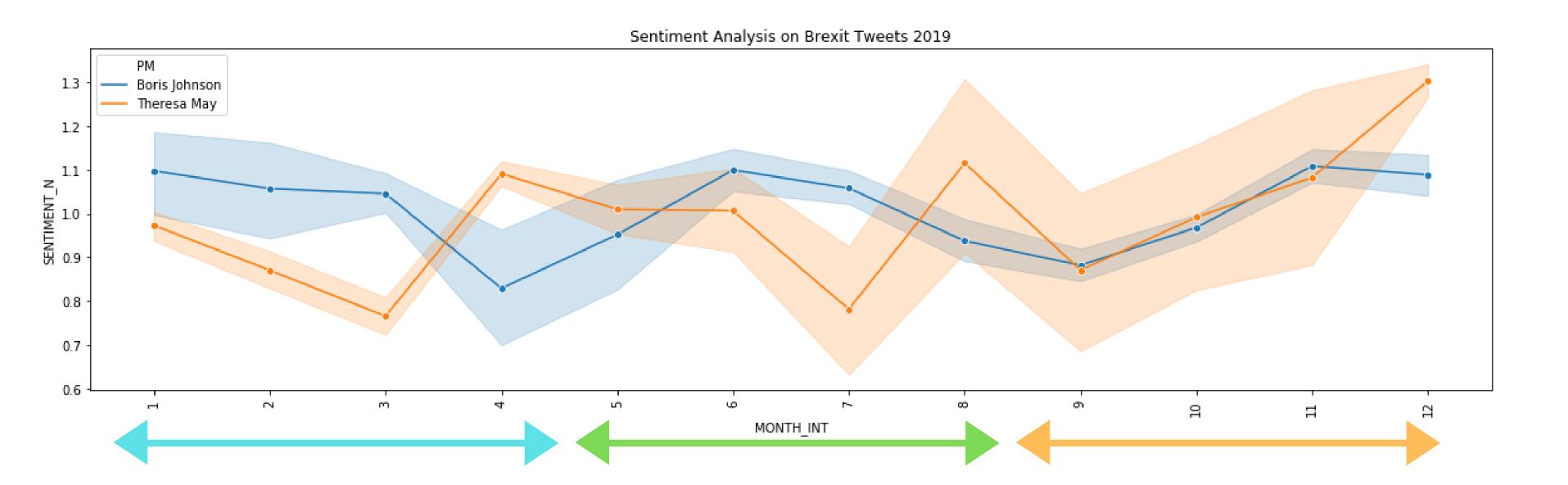
## SENTIMENT ANALYSIS



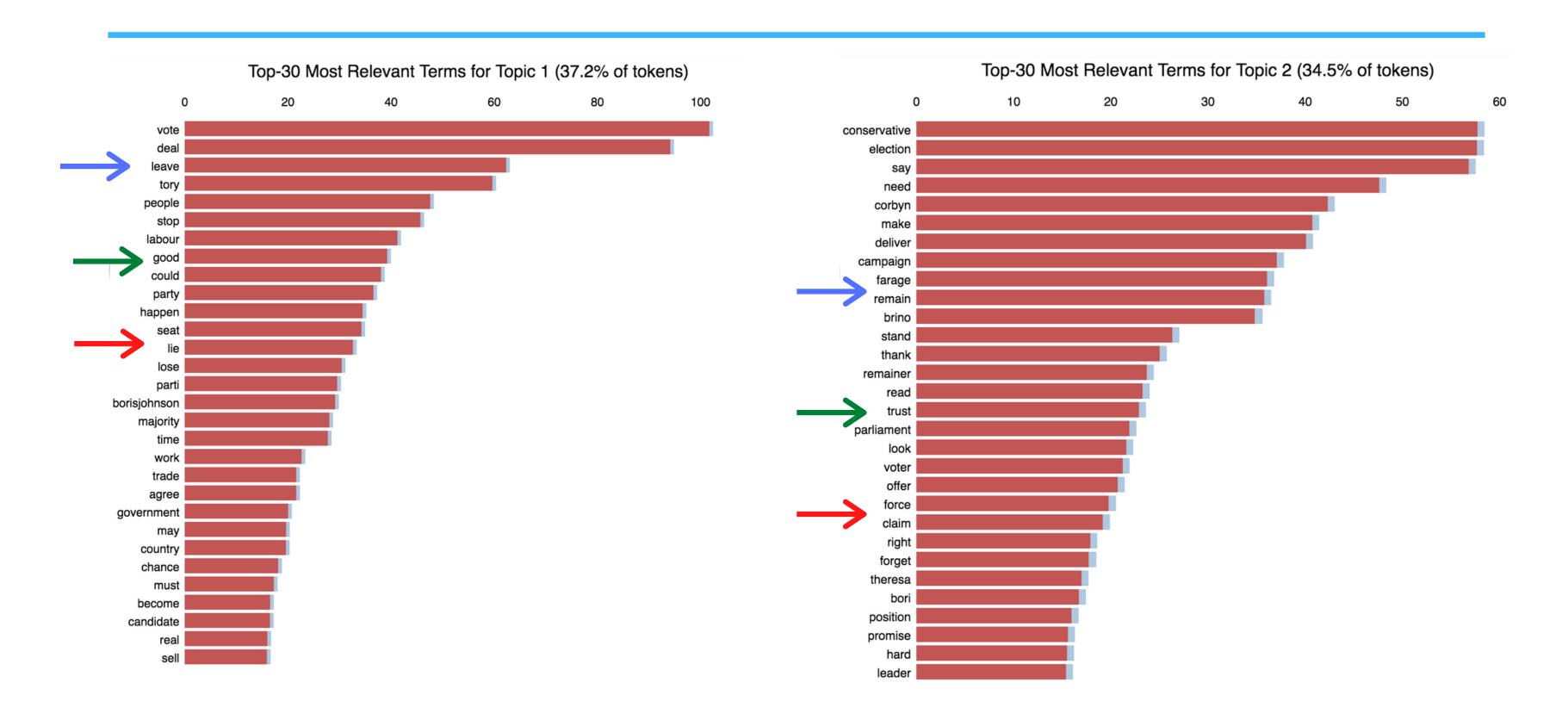
## TOPIC ANALYSIS MAY - AUGUST



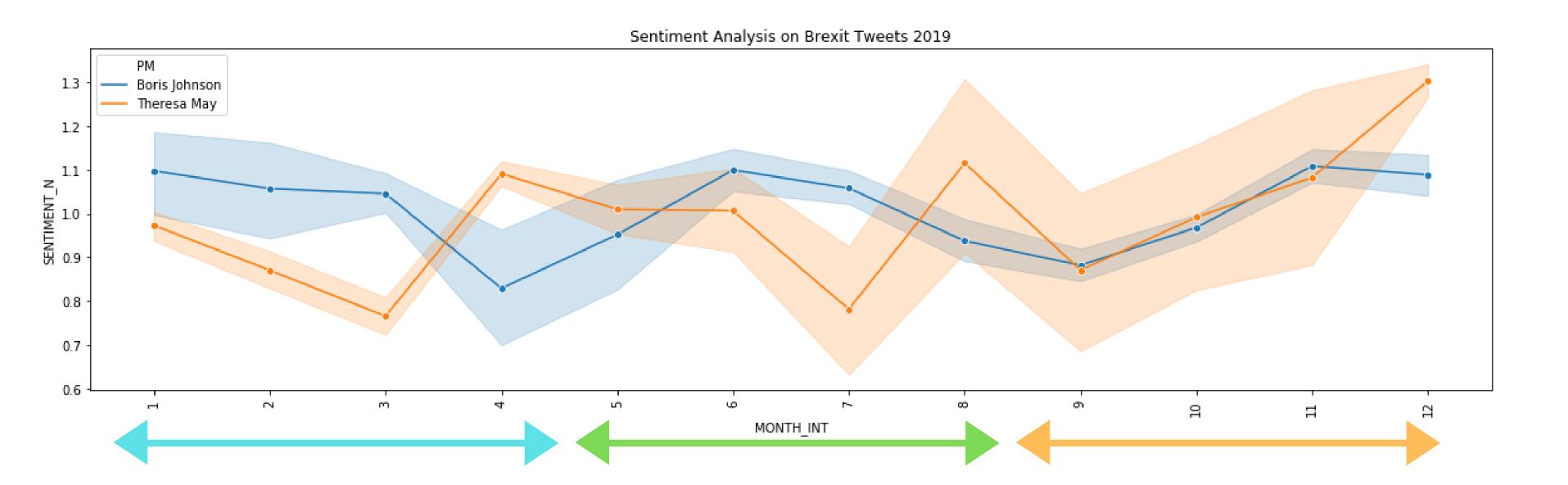
## SENTIMENT ANALYSIS



# TOPIC ANALYSIS SEPTEMBER - DECEMBER



## SENTIMENT ANALYSIS



## RESULTS & CONCLUSIONS

#### Sentiment Analysis

Overall, the results agree with that I was expecting based on the key events relating to Brexit during 2019.

Jan - April: Sentiments towards Theresa May go down drastically in comparison with Boris Johnson.

May - Aug: Negative and positive sentiments for both PMs.

**Sept - Dec:** Sentiments grow more positive for both PMs but mostly for Theresa May.

#### Topic Analysis

Jan - Apr: Topic surrounding the word "Leave" more negative than "Remain".

May - Aug: Topic on "Leave" remains more negative than "Remain".

**Sept - Dec:** Topic on "Remain" and "Leave" now more positive than in previous months although there is a bigger rise in tweets that mention "Leave".