Twitter Analysis

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Sun Oct 01 20:32:53 2017

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Introduction

This report compares the volume, behavior, and content of the tweets made by RealSkipBayless and stephenasmith.

3200 tweets were originally collected for RealSkipBayless. 3195 tweets were originally collected for stephenasmith.

The oldest tweet collected from RealSkipBayless is from 2016-12-13 12:15:17 and the oldest tweet from stephenasmith is from 2016-04-21 17:24:52. The most recent tweets are from 2017-10-01 12:59:30 and 2017-10-01 11:35:39

The two sets of tweets were trimmed to 3190 and 3194 tweets respectively in order to align the dates of the last collected tweets.

Because the number of tweets for at least one of the people is less than the threshhold 3000, the data sets were resized such that they cover the same periods of time. The number of tweets from RealSkipBayless and stephenasmith were reduced to 3190 and 1368.

Tweet Volume

How often do RealSkipBayless and stephenasmith tweet? Does the volume of tweets look different for temporal periods?

Count of Tweets Over Time



Jul

stephenasmith

Oct

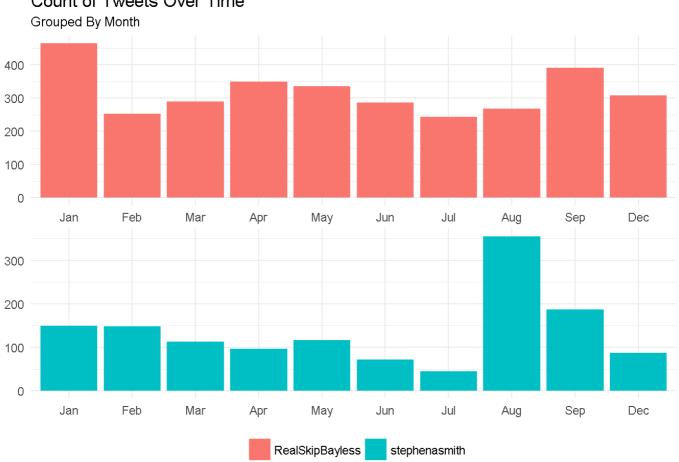
Apr

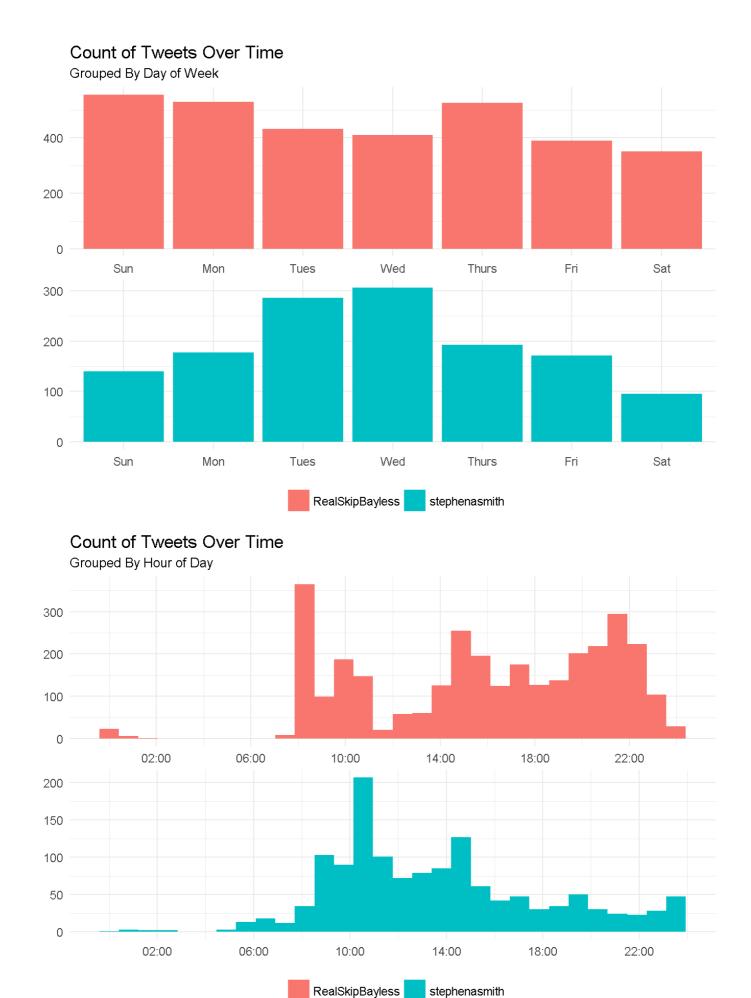
RealSkipBayless

Count of Tweets Over Time

Jan

0





Is the distribution of our volume of tweets given a certain temporal period statistically significant? Here, I use the Chi-Squared Test. If the p-value is calculated to be less that some threshold value (e.g. 0.05), then I

can deduce that the null hypothes (that the distribution is uniform) is invalid. In fact, it appears that our tweet volume does differ depending on the month and day of the week.

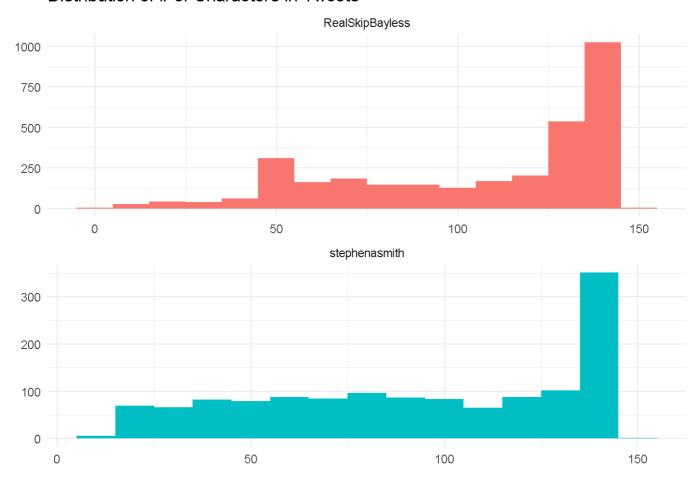
Tweet Behavior

What proportion of tweets include more than just plain text (e.g. hashtags, links, etc.)? What proportion are not undirected, self-authored tweets (i.e. RTs or replies)?

Tweet Content

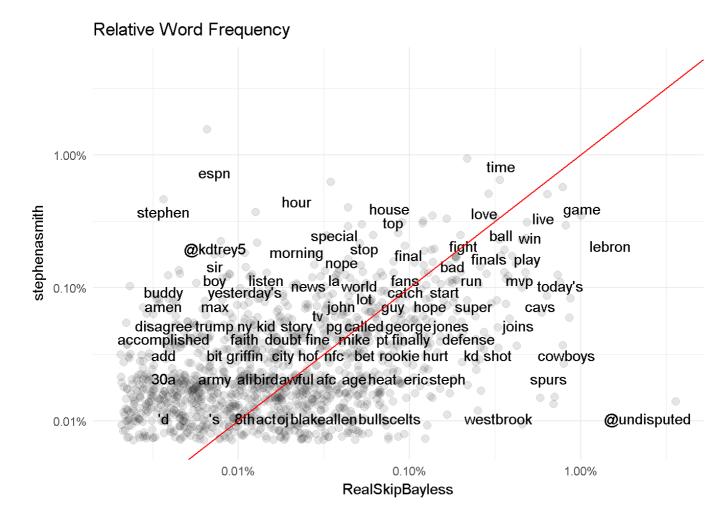
How long are the tweets?

Distribution of # of Characters in Tweets

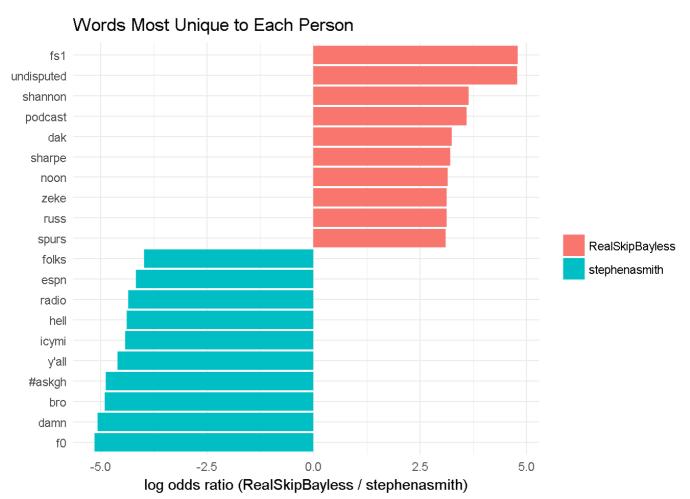


Word Frequency and Usage

Which words are used most frequently?

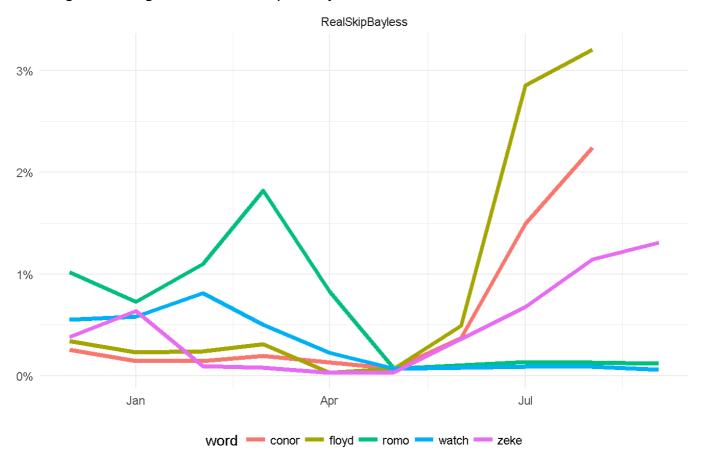


Which words are most likely to be used by one person compared to the other?



Which words have have been used more and less frequently over time?

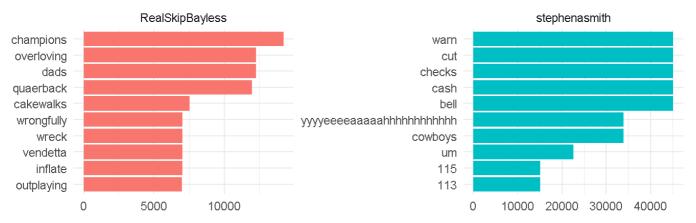
Largest Changes in Word Frequencey



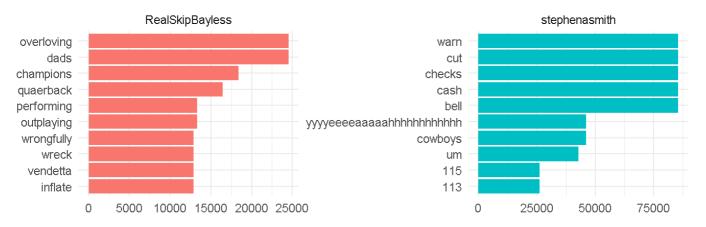
Tweet Popularity

How often do the original tweets get liked/favorited/retweeted?

Words with Highest Median # of RTs



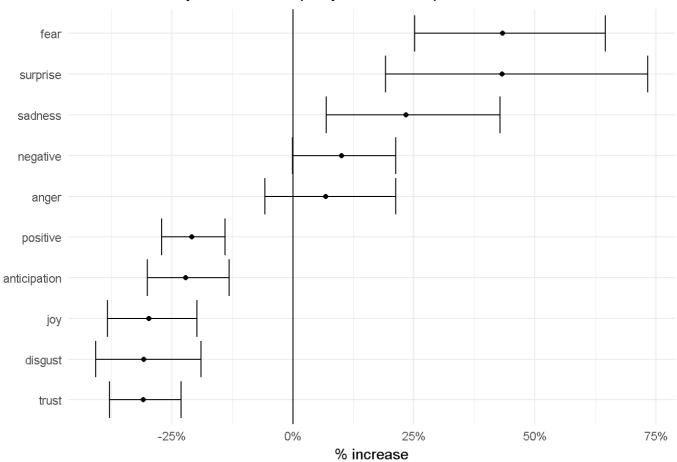
Words with Highest Median # of Favorites



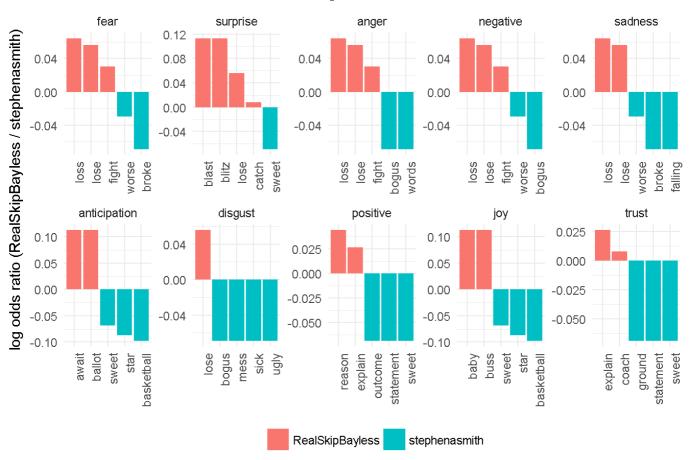
Sentiment Analysis

What is the sentiment (i.e. "tone") of the tweets?

Sentiment Analysis of RealSkipBayless and stephenasmith



Most Influential Words Contributing to Sentiment Differences



Conclusion