

EDA

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We first load in necessary data frames. We will use `allcombined` as our first data frame, which includes original text and emotion, sentiment, toxicity, and violence analysis.

We also set colors for each author. Biden will be dark blue, and Trump will be red.

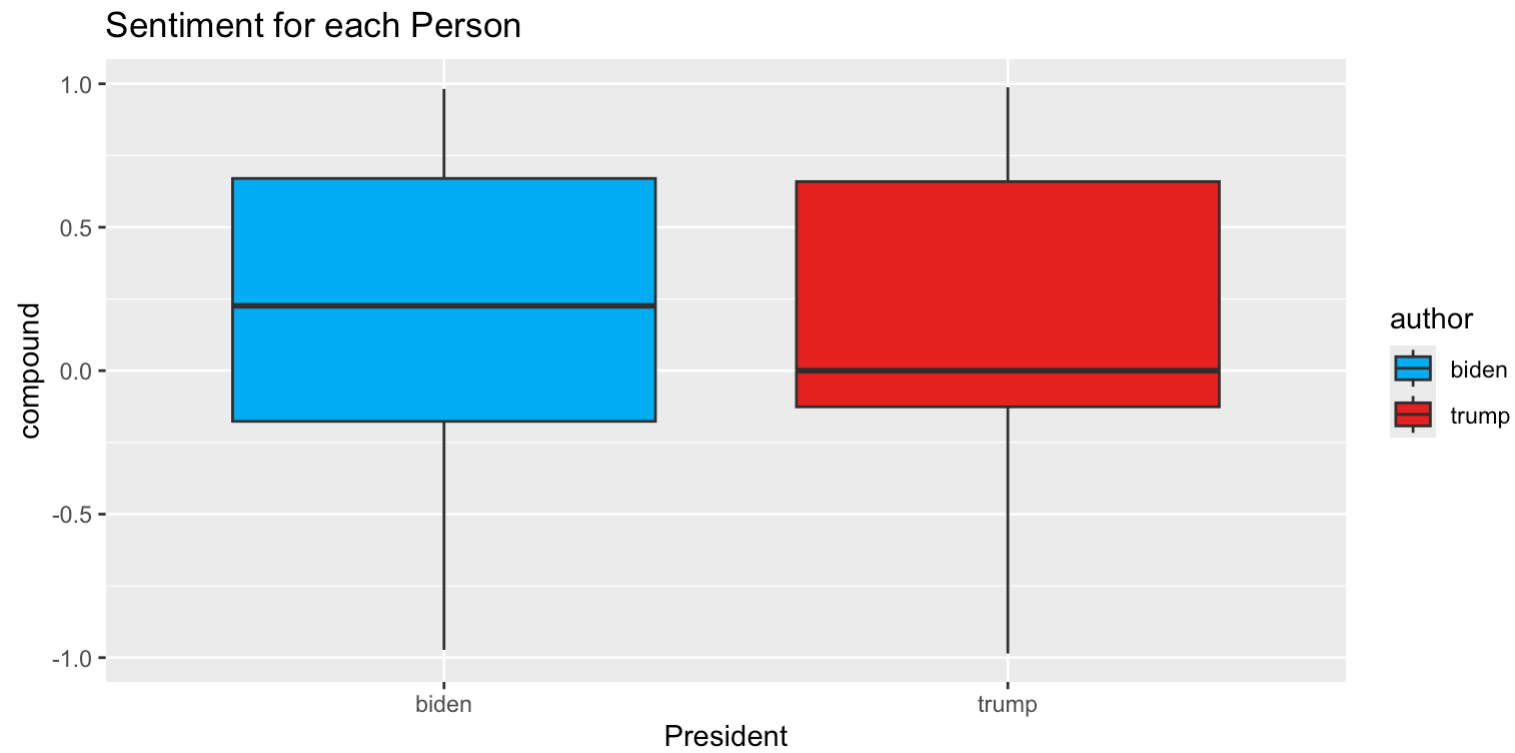
For our other categorical variable, `emotion_label`, we make JOY yellow, ANGER pink, and SADNESS cyan.

Selecting Validation Data

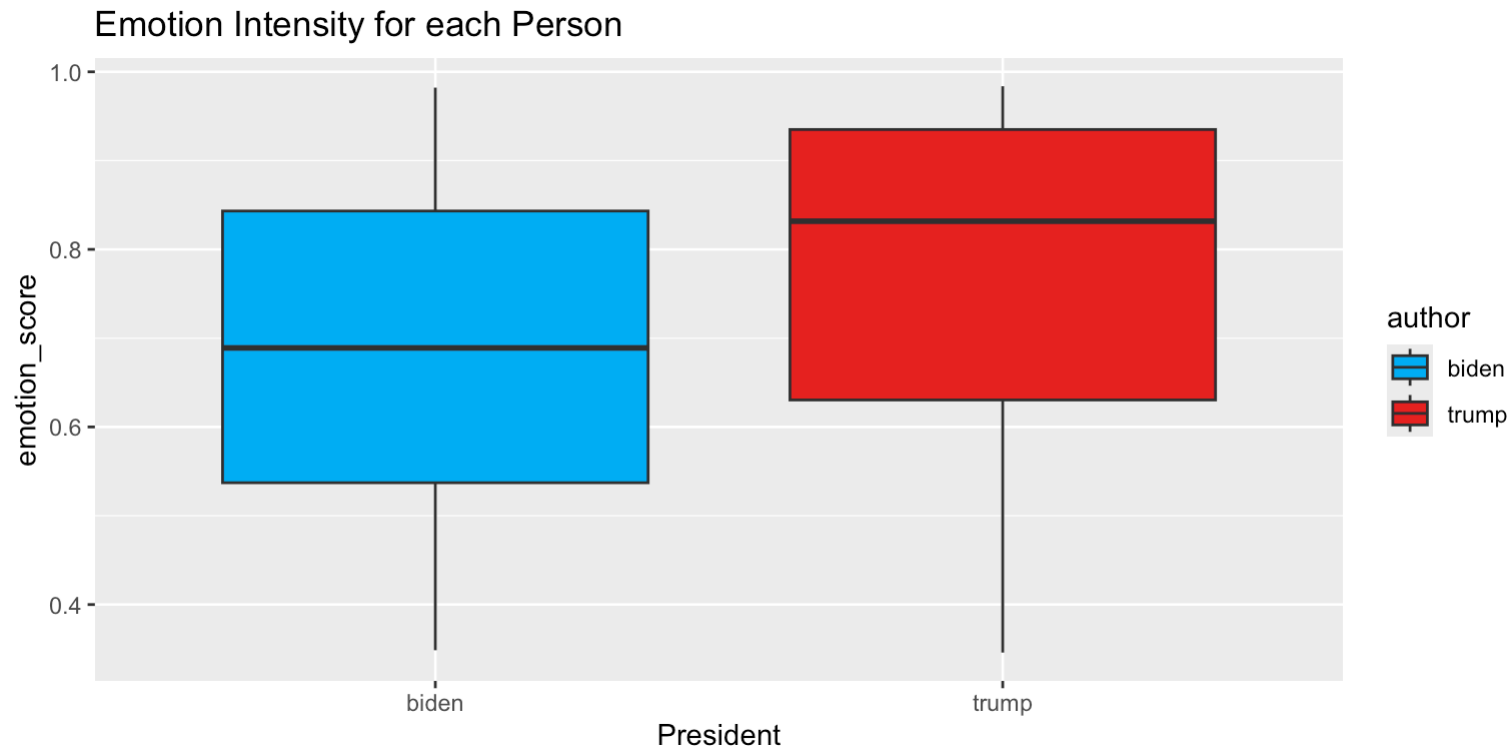
We must select validation data first. Then, we will save `cv_data` (used for training/testing) and `valid_data` as .csv files to use.

Sentiment for each Person

(Sentiment is expressed through the `compound` column)



Emotion Intensity for each Person



Frequency of Each Emotion (per person)

[1] 0.315

[1] 0.527

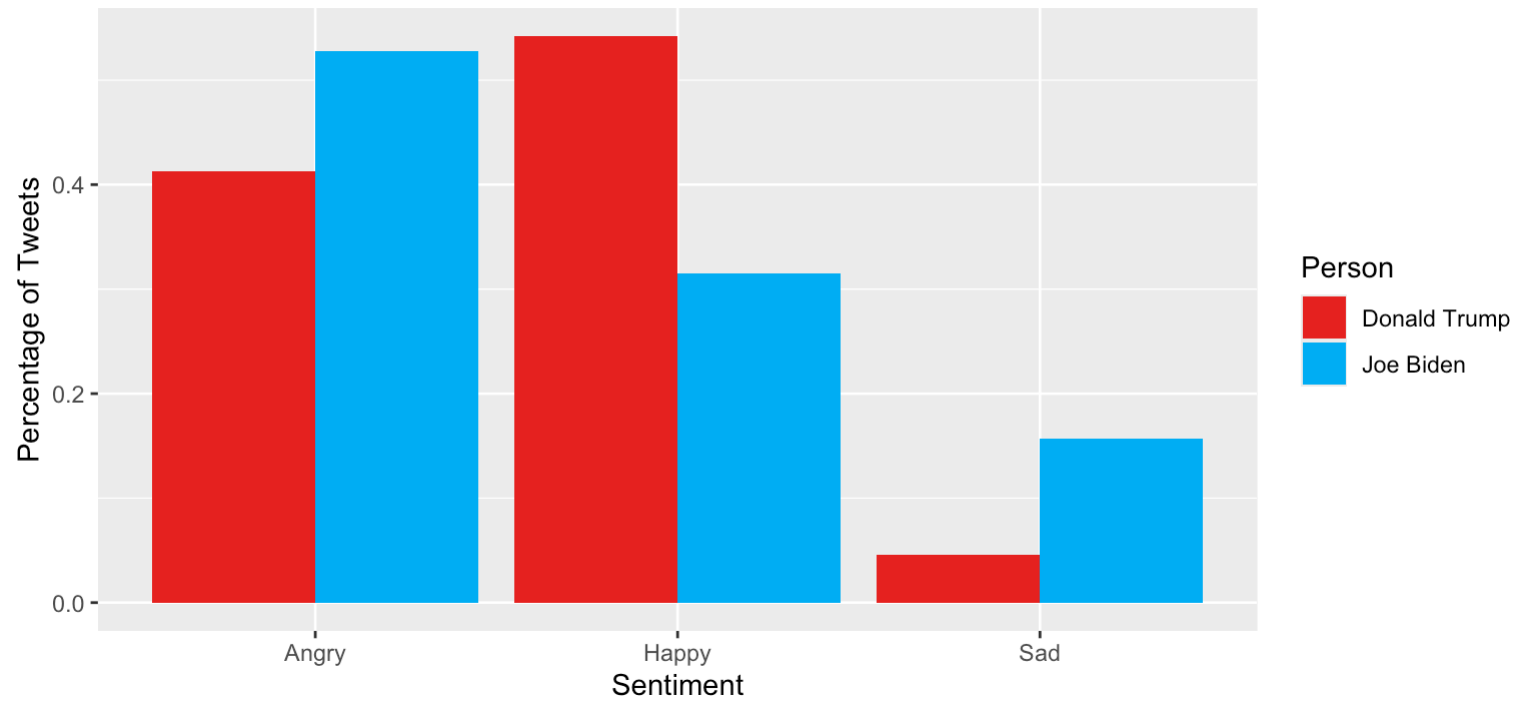
[1] 0.157

[1] 0.542

[1] 0.413

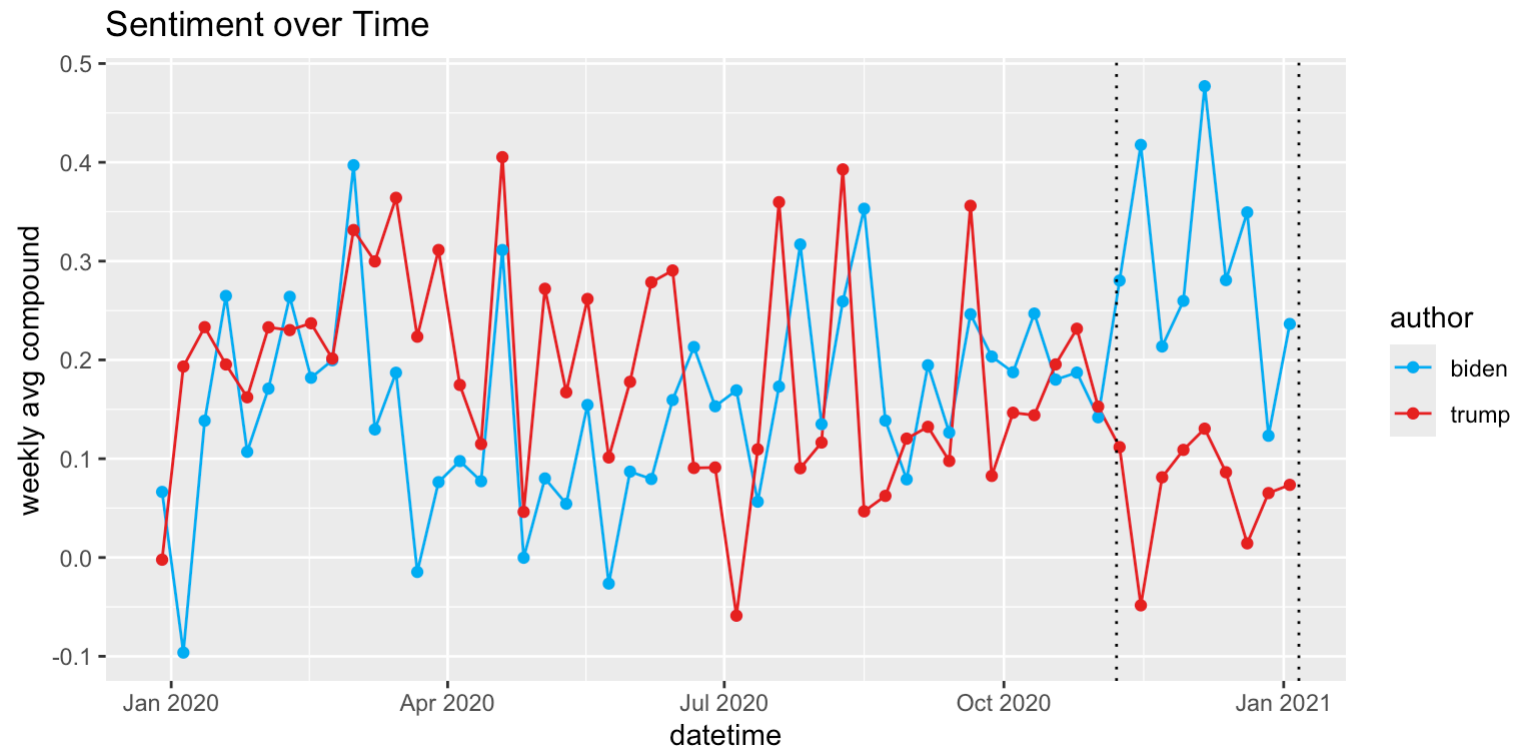
[1] 0.0454

Comparison of Emotional Tweets between Donald Trump and Joe Biden



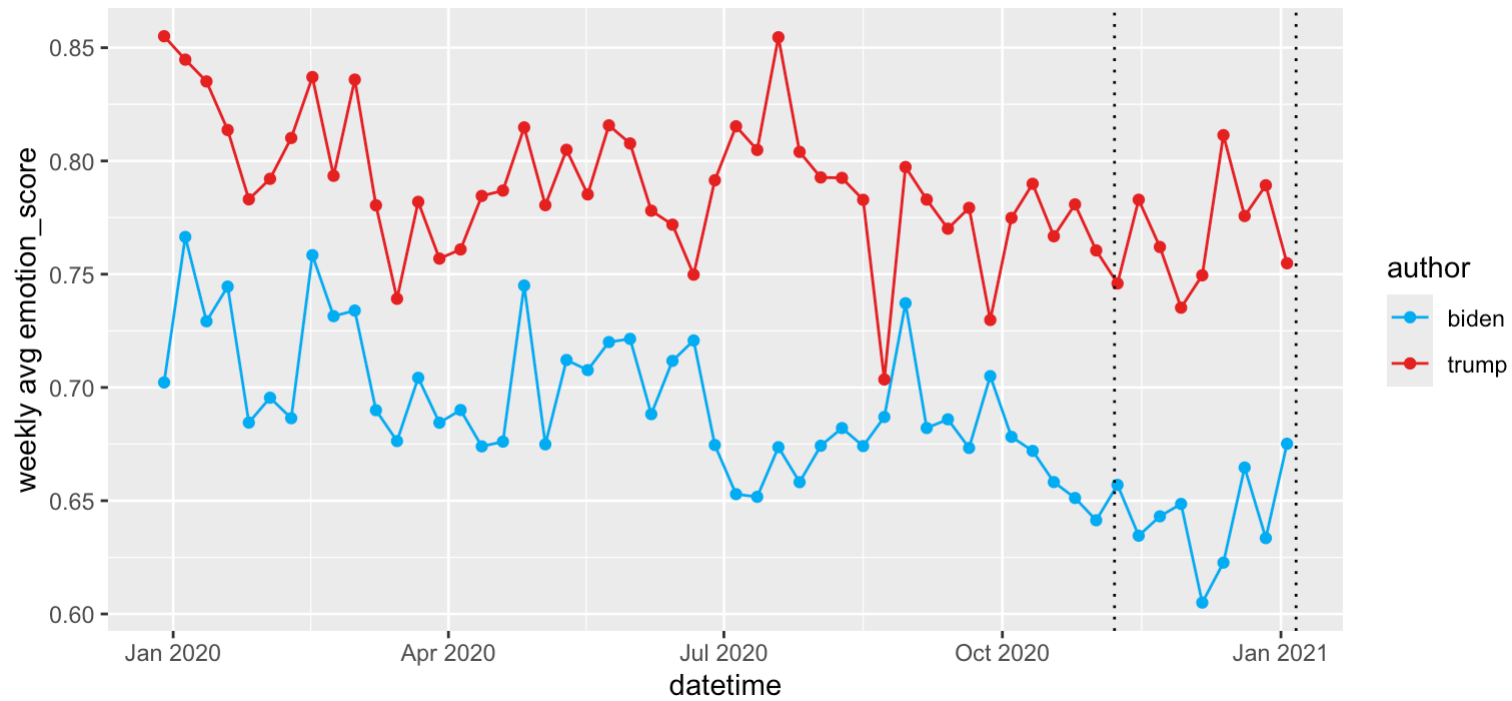
Sentiment over Time

``summarise()`` has grouped output by 'week'. You can override using the `` .groups `` argument.



Emotional Intensity over Time

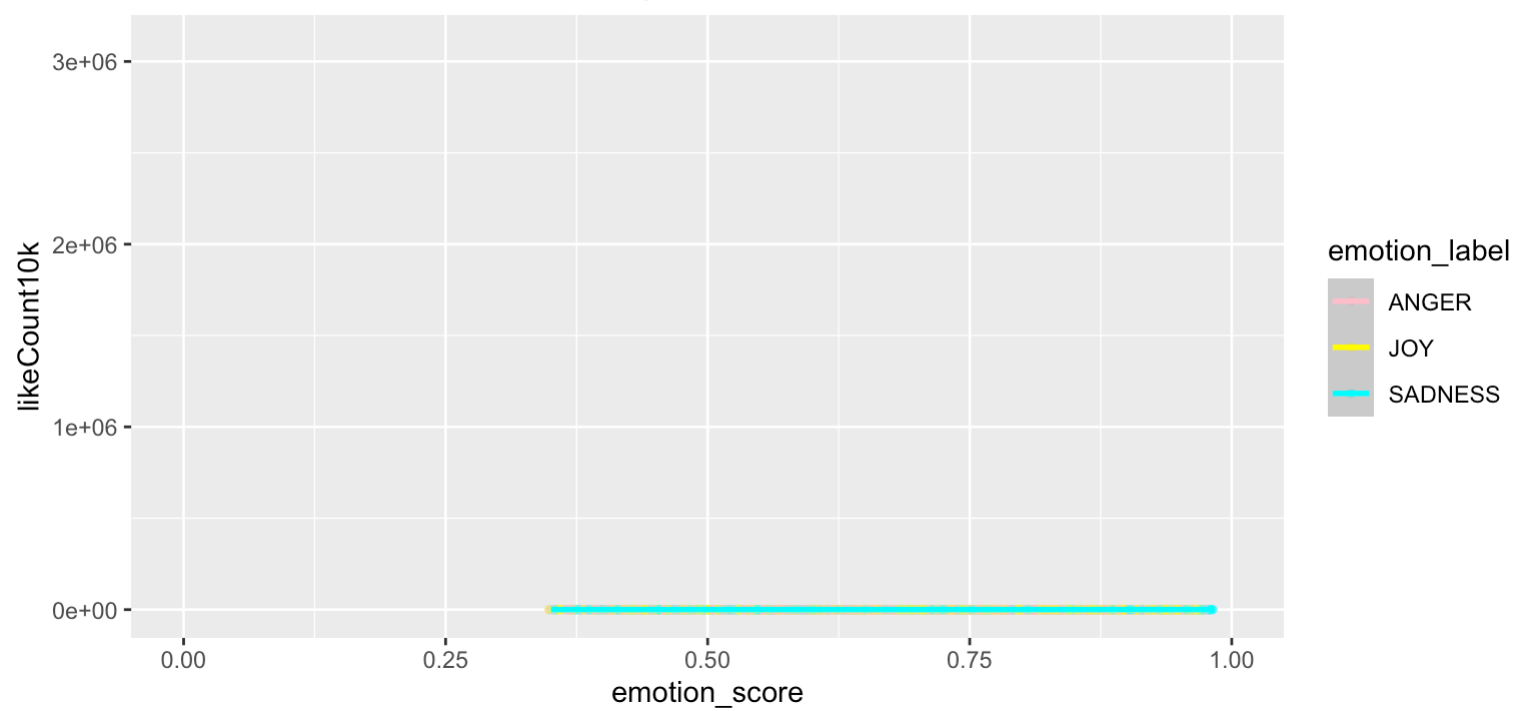
Emotion Intensity over Time, Interruption at Week of Nov 7, 2020



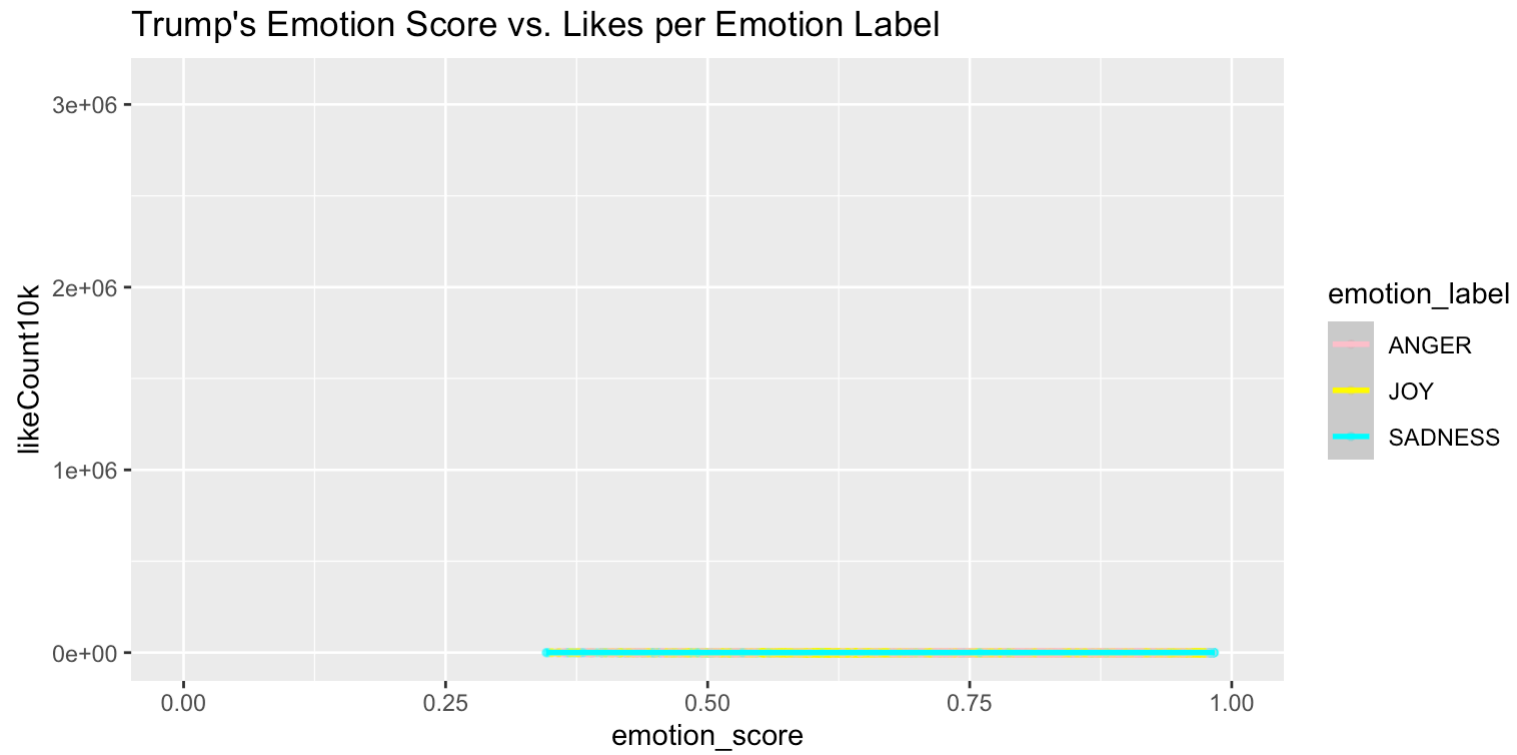
Likes vs. Emotional Intensity

``geom_smooth()`` using formula = `'y ~ x'`

Biden's Emotion Score vs. Likes per Emotion Label

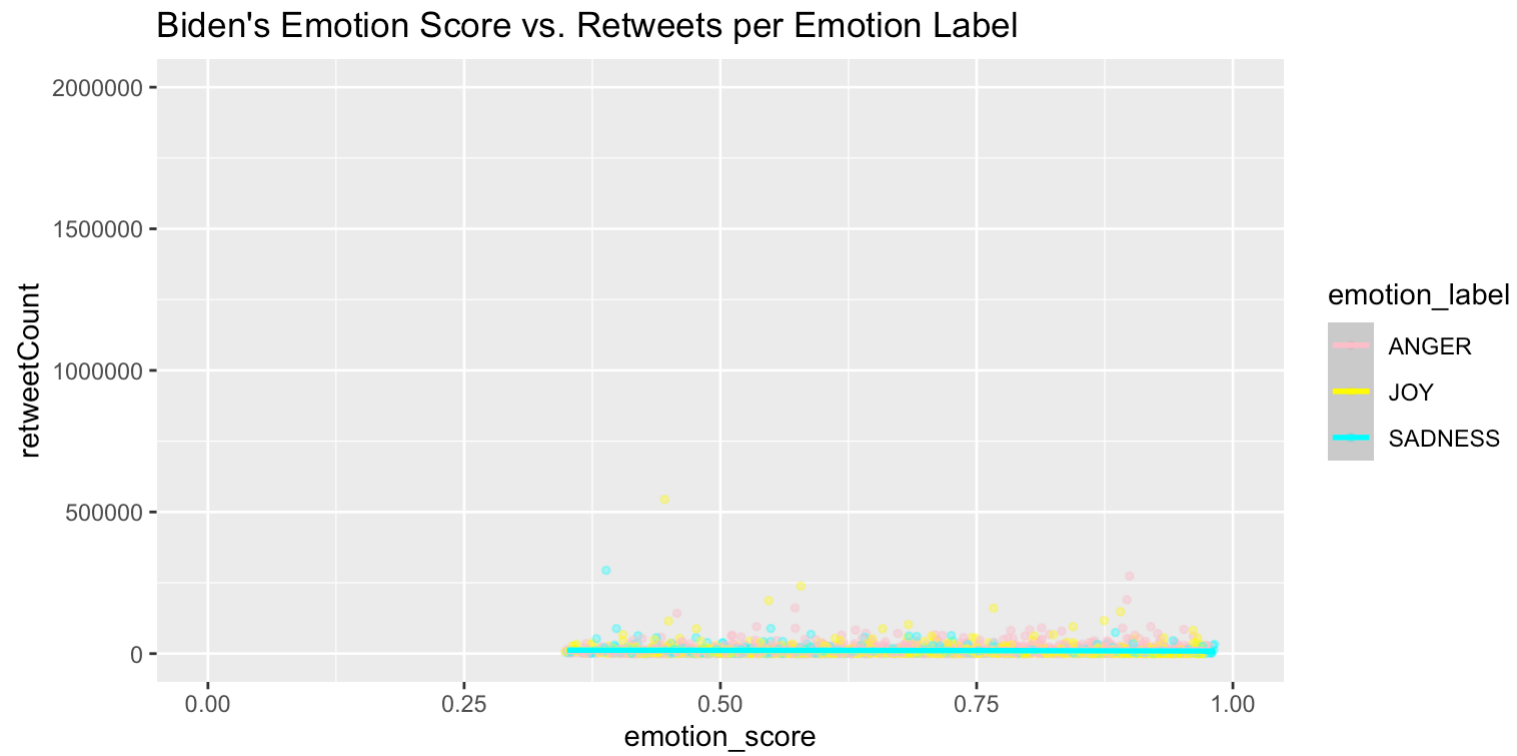


``geom_smooth()` using formula = 'y ~ x'`

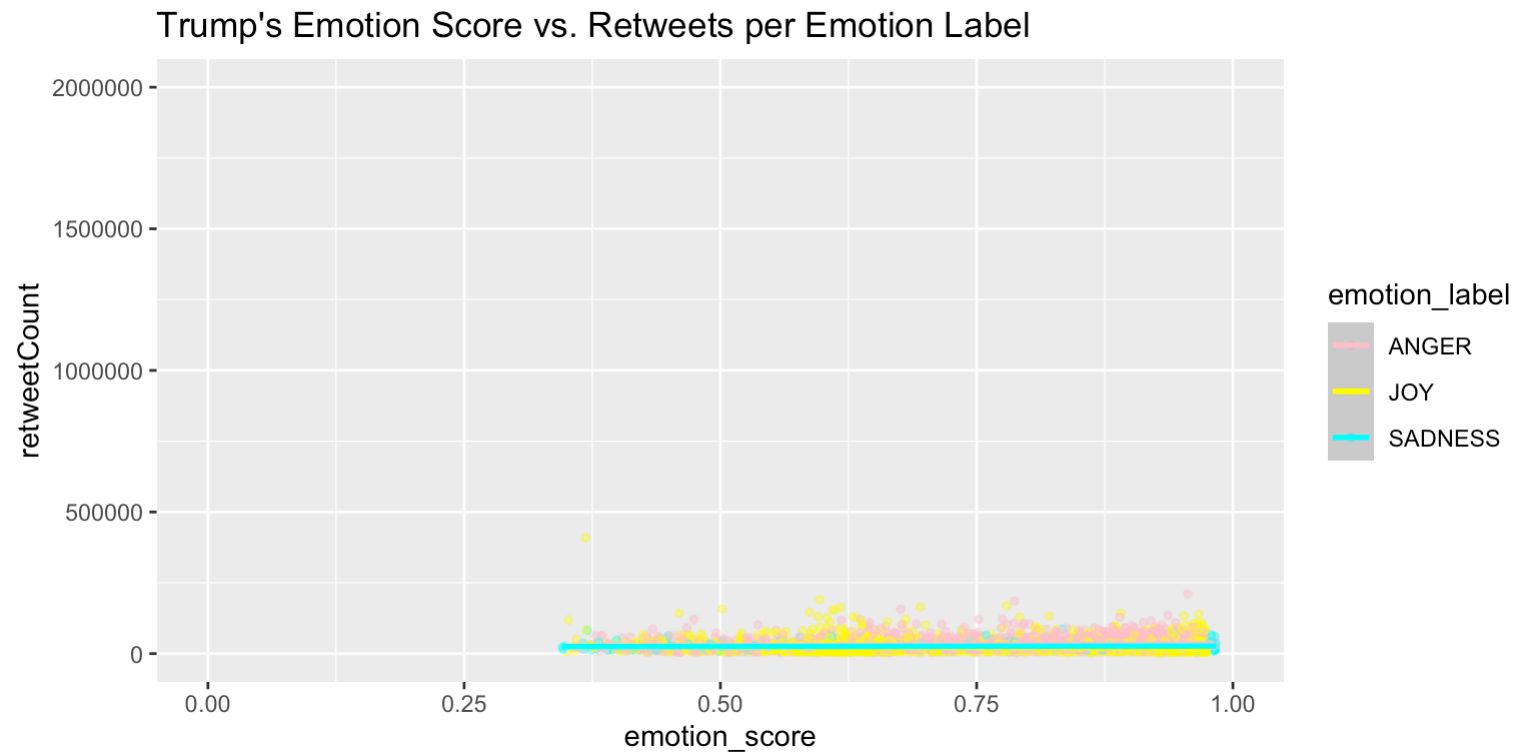


Retweets vs. Emotional Intensity

``geom_smooth()`` using formula = 'y ~ x'

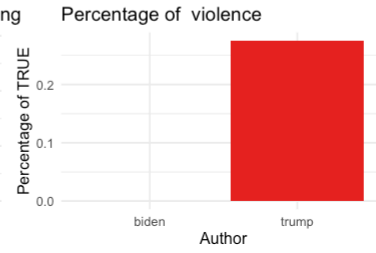
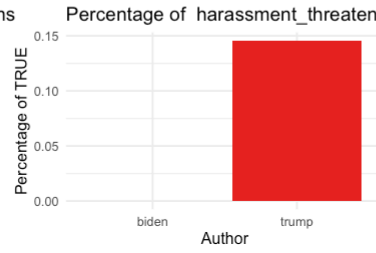
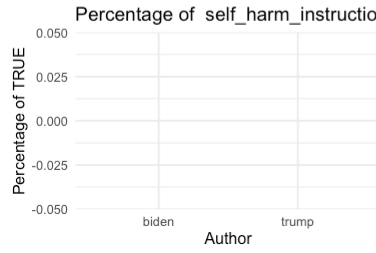
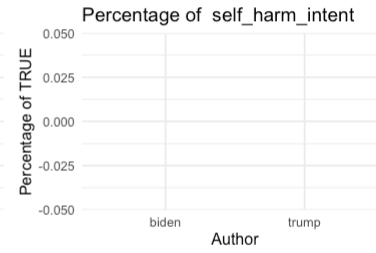
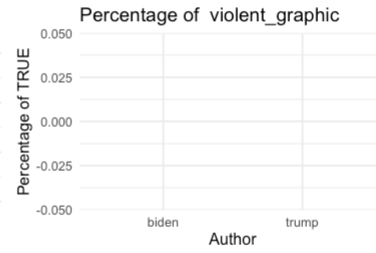
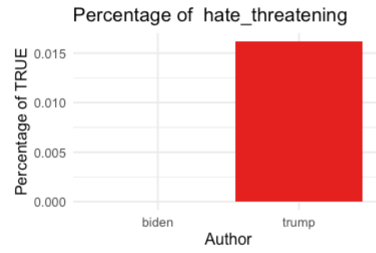
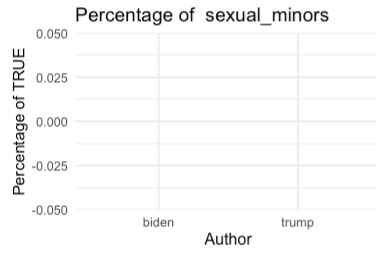
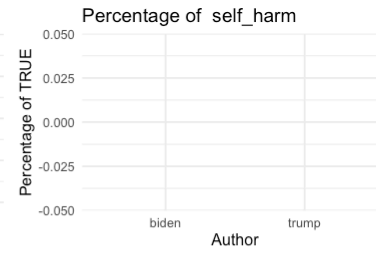
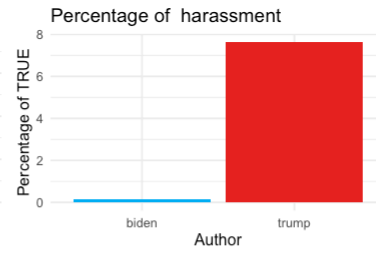
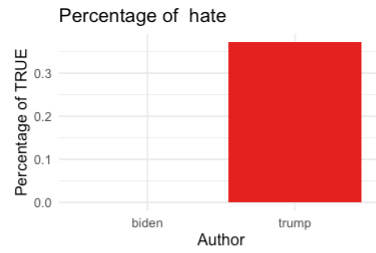
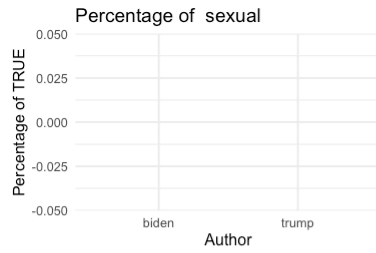


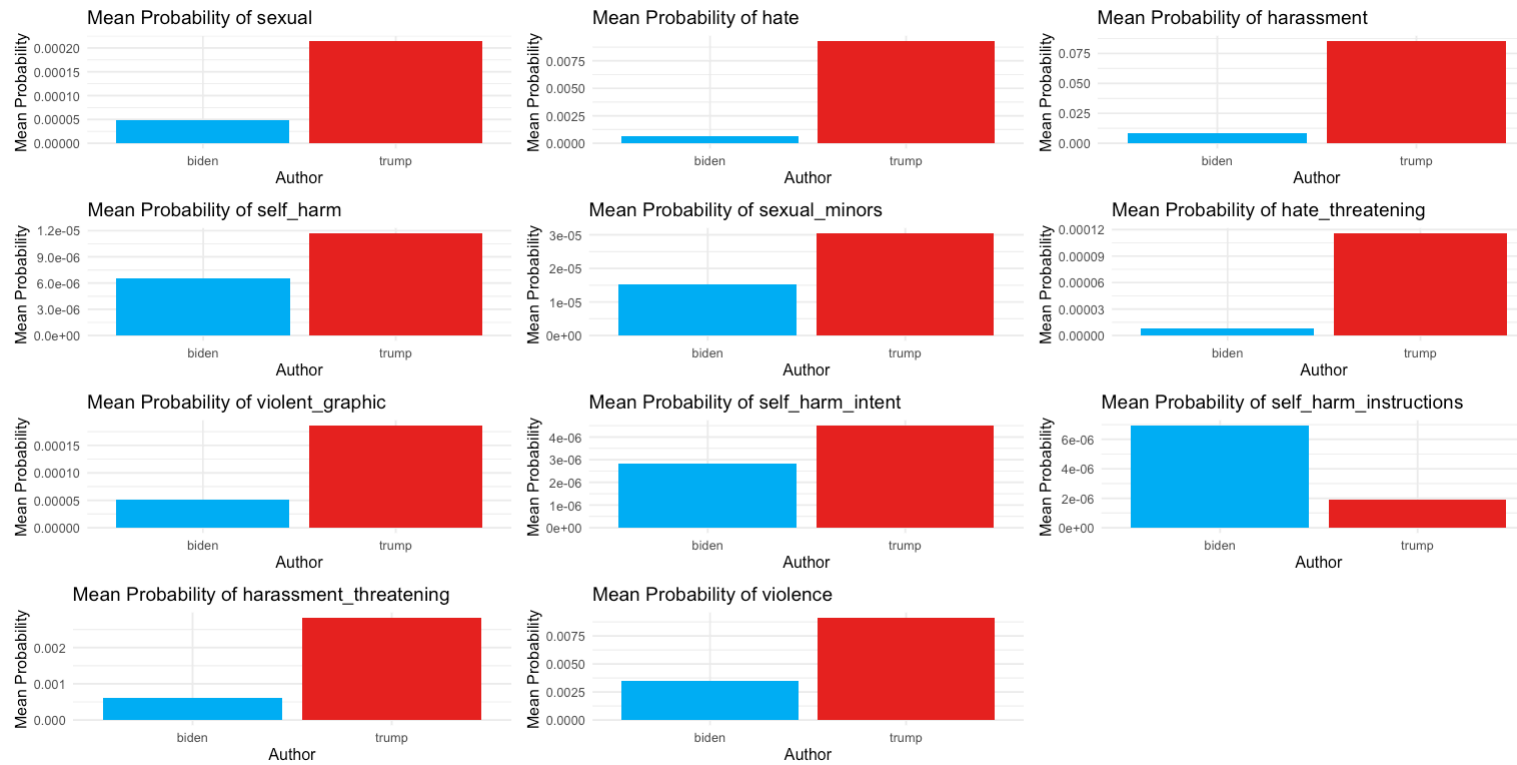
```
`geom_smooth()` using formula = 'y ~ x'
```



Moderation Data

Moderation Flags in Trump's and Biden's Tweets

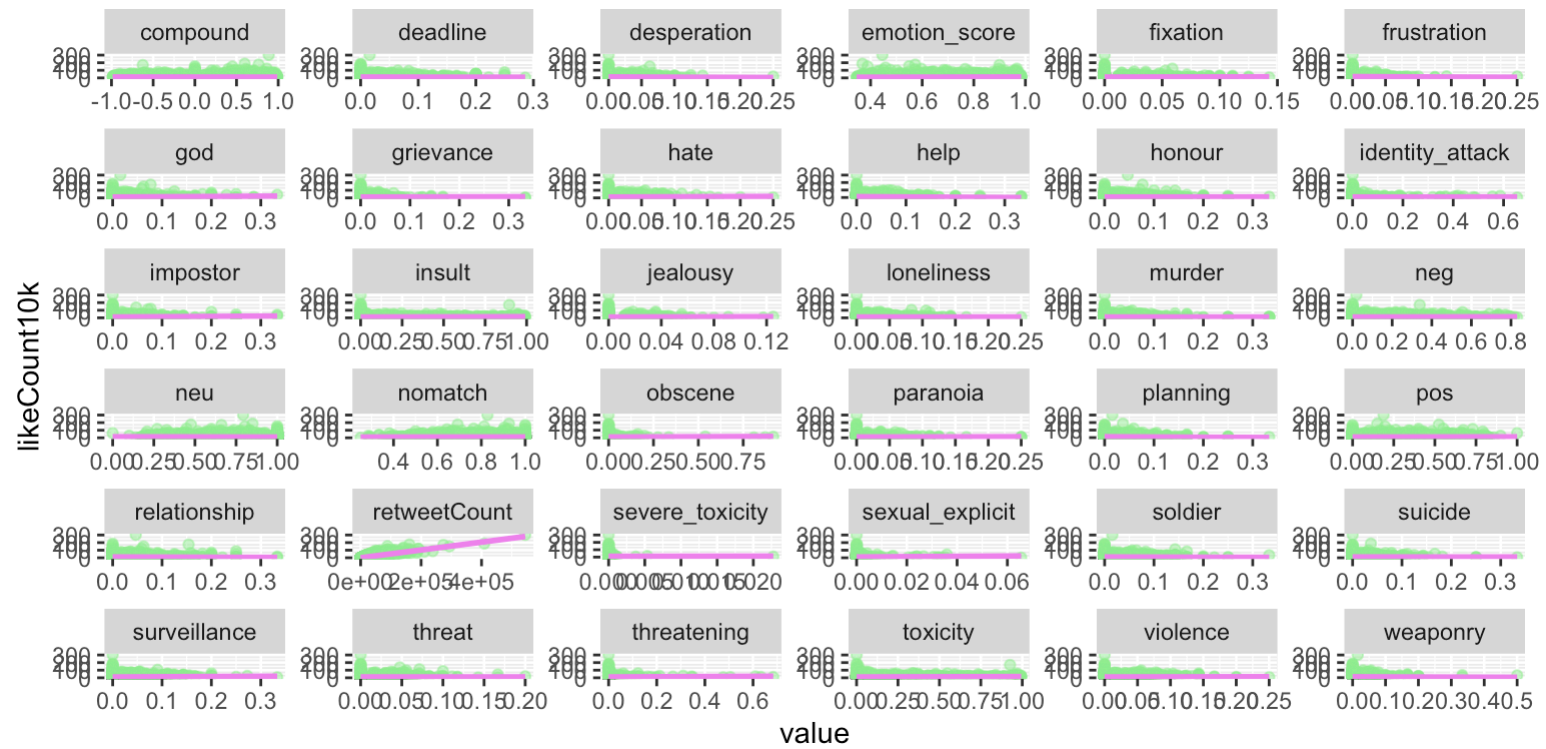




Likes vs. All Variables [↗](#)

We plot scatter plots of all variables against like count.

``geom_smooth()`` using formula = `'y ~ x'`



``geom_smooth()`` using formula = 'y ~ x'



[1] 10.4