

## Summary of dataframe:

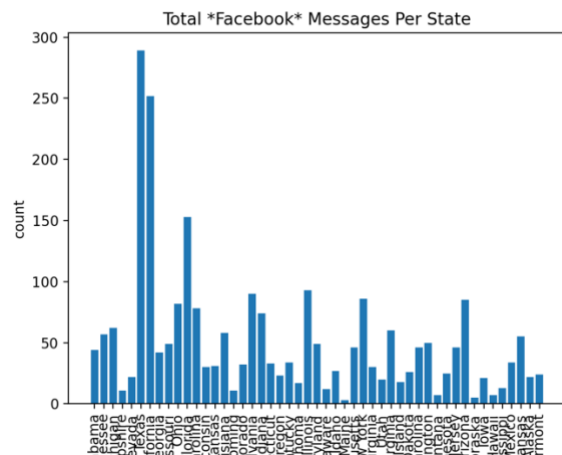
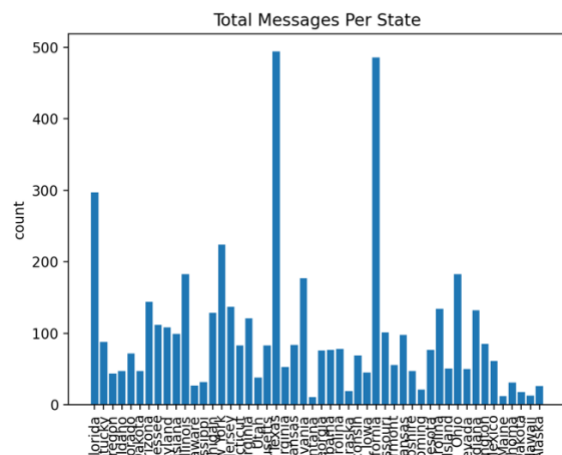
- Parsed and cleaned dataframe, df includes 4,980 entries, with 27 columns.
- Of the 27 columns, 9 include categorical entries, 5 include quantitative entries, and 2 include lists.
- Additional entries are contained in separate dictionary variables in printOuts() and displayFigures().
- The printout for df.info() is as follows:

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4980 entries, 0 to 4979
dtypes: bool(1), float64(6), int64(2), object(18)
Data columns (total 27 columns):
#   Column                Non-Null Count  Dtype
---  ---
0   unit_id               4980 non-null  int64
1   golden                4980 non-null  bool
2   unit_state            4980 non-null  object
3   trusted_judgments     4980 non-null  int64
4   last_judgment_at      4980 non-null  object
5   audience              4980 non-null  object
6   audience_confidence   4980 non-null  float64
7   bias                  4980 non-null  object
8   bias_confidence       4980 non-null  float64
9   message               4980 non-null  object
10  message_confidence    4980 non-null  float64
11  bioid                 4980 non-null  object
12  embed                 4980 non-null  object
13  id                    4980 non-null  object
14  label                 4980 non-null  object
15  message_gold           0 non-null     float64
16  source                4980 non-null  object
17  text                  4980 non-null  object
18  name                  4980 non-null  object
19  position              4980 non-null  object
20  state                 4980 non-null  object
21  region                4980 non-null  object
22  hashtags              4980 non-null  object
23  date                  4980 non-null  object
24  numeric_date          4980 non-null  float64
25  sentiment              4980 non-null  object
26  exact_sentiment       4980 non-null  float64
```

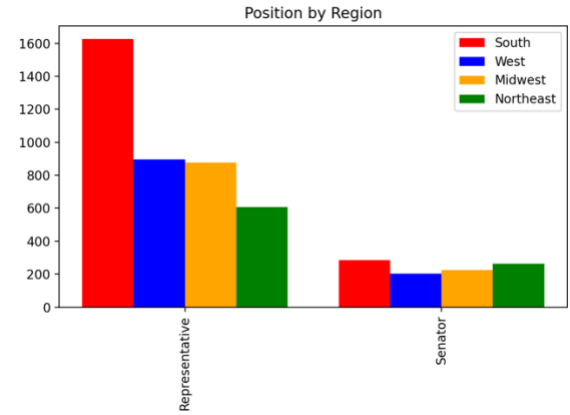
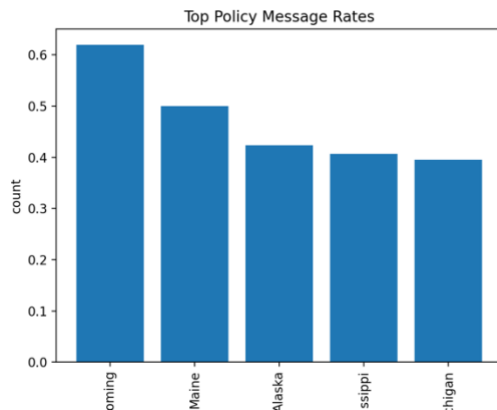
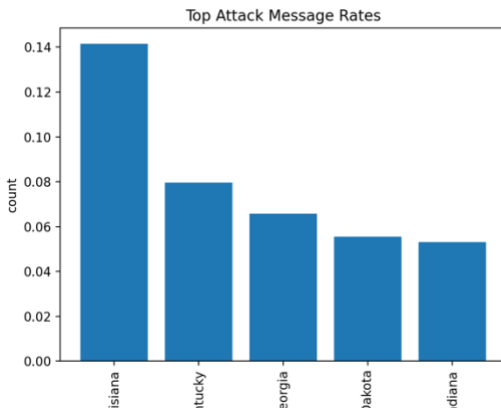
## Summary of printouts:

- Total Messages Per State: dictionary mapping states and message frequency, sorted by frequency.
- State Counts for Negative Sentiment: sorted dictionary mapping states and negative sentiment frequencies.
- Message Types for Region: dictionary mapping regions to sorted dictionaries that map message types to relative frequency.

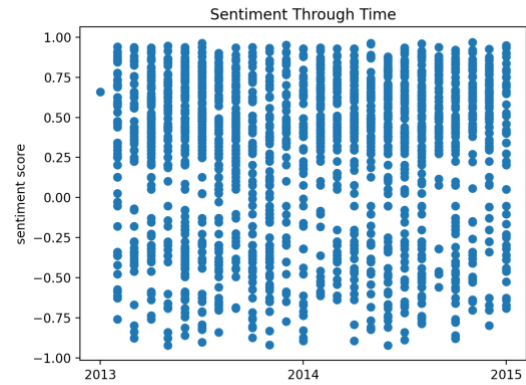
## Bar charts:



## Filtered bar charts:



## Scatterplots:



## Side-by-side bar charts:

