Political Ads in the 2016 Presidential Election

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Bronte Baer, Jean-Luc Jackson, Christian Montecillo, and Richard Robbins

Agenda

Project Description

Cleaning and Refining the Data

Data Insights and Questions

Conclusions

Project Description



Cleaning and Refining the Data



Cleaning and Refining the Data

```
# We are only looking at the presidential race.
   df = df[df.race == "PRES"]
   # We are only considering ads that mention Trump or Clinton.
   df = df[df.candidates.str.contains("Trump | Clinton", case=False, regex=True)]
   # Eliminate that are redundant or otherwise not relevant to our project.
   df = df.drop(columns=["id",
                                                       # We shorten and simplify the region id values.
                         "wp identifier".
                                                       # We limit the dataset to rows with the region ids of interest.
10
                         "race",
11
                         "cycle",
12
                         "type",
                                                       region ids = ["boston region",
13
                         "date created" 1)
                                                                       "cedar rapids region",
                                                                       "cleveland region",
                                                                       "denuer region"
        # Limit votes data to 2016 results
        # remove year, office and version columns as being uniform across the dataset
        # remove state po column as it provides the same information as state
                                                                                        egion",
          remove totalvotes column from source dataset we substitute our own below
                                                                                        gion",
        # remove mode column as we do not use it
        votes df = votes df[votes df.year == 2016]
                                                                                        egion",
        votes df = votes df.drop(
            columns=['year', 'state po', 'office', 'totalvotes', 'version', 'mode'])
                                                                        washington dc region",
                                                   17
```

Data Insights Four Main Topics

1. Volume

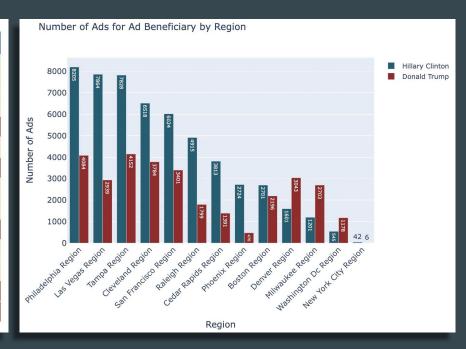
2. Subject Matter

3. Tone

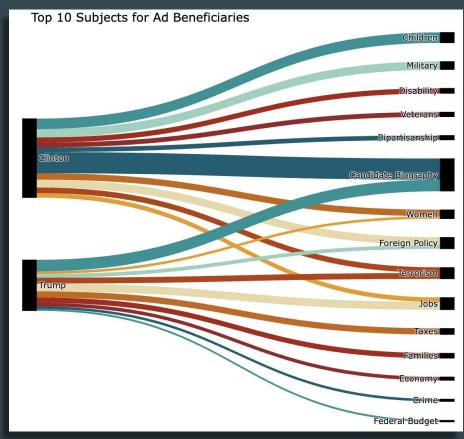
4. Timing

Data Insights: Volume

| Region | Most Votes | Most Ads |
|----------------------|------------|------------|
| Boston Region | democrat | democrat |
| | | |
| | | |
| Denver Region | democrat | republican |
| | | |
| Milwaukee Region | democrat | republican |
| | | |
| | | |
| Phoenix Region | republican | democrat |
| | | |
| San Francisco Region | democrat | democrat |
| Tampa Region | republican | democrat |
| Washington Dc Region | democrat | republican |

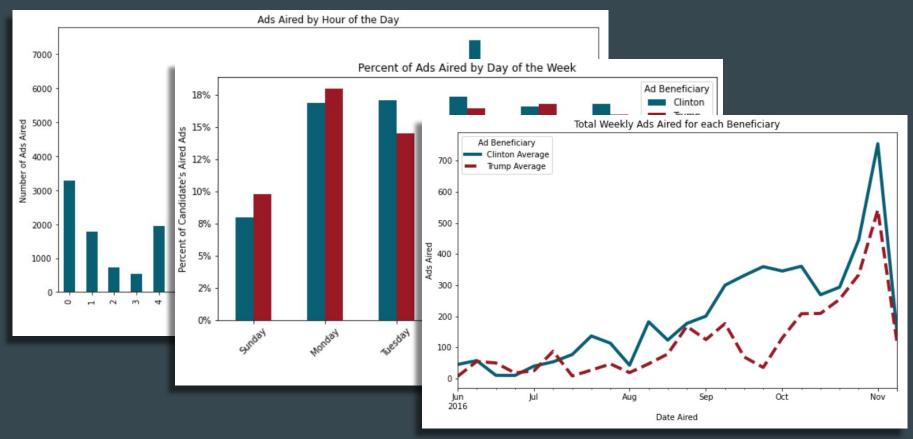


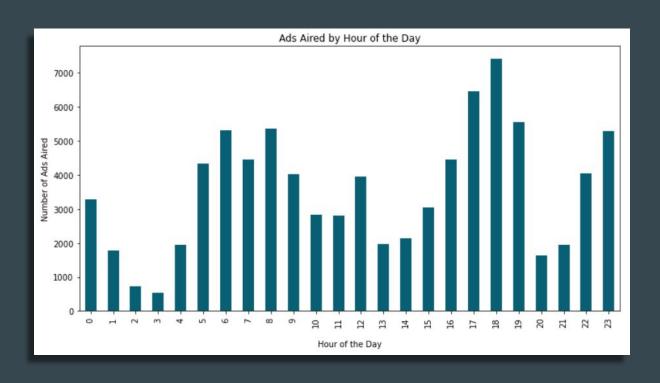
Data Insights: Subject Matter

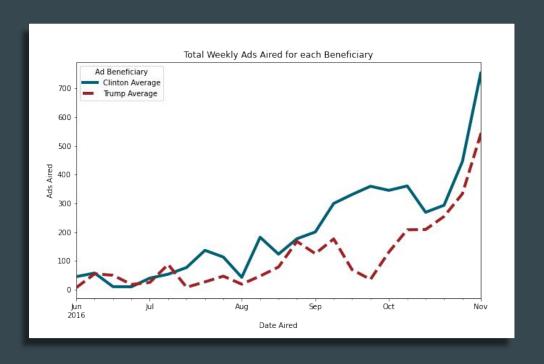


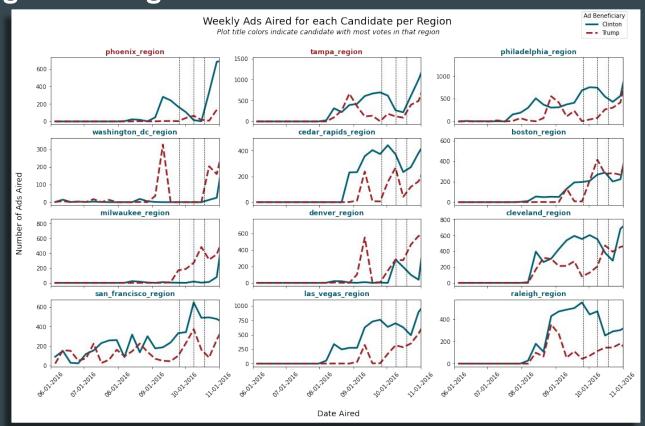
Data Insights: Tone











Conclusion



Thank you