

Location of the Lie EDA

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Exploratory Data Analysis

Table 1: Claims Count by Party

| claimant_party | count |
|----------------|-------|
| Democratic | 1304 |
| Republican | 1196 |

As we know, there are approximately 100 more claims made by Democrats versus Republicans. Given the overall size of the dataset, though, I can say they are about equivalent, as Democrats have 1.09x as many claims as Republicans.

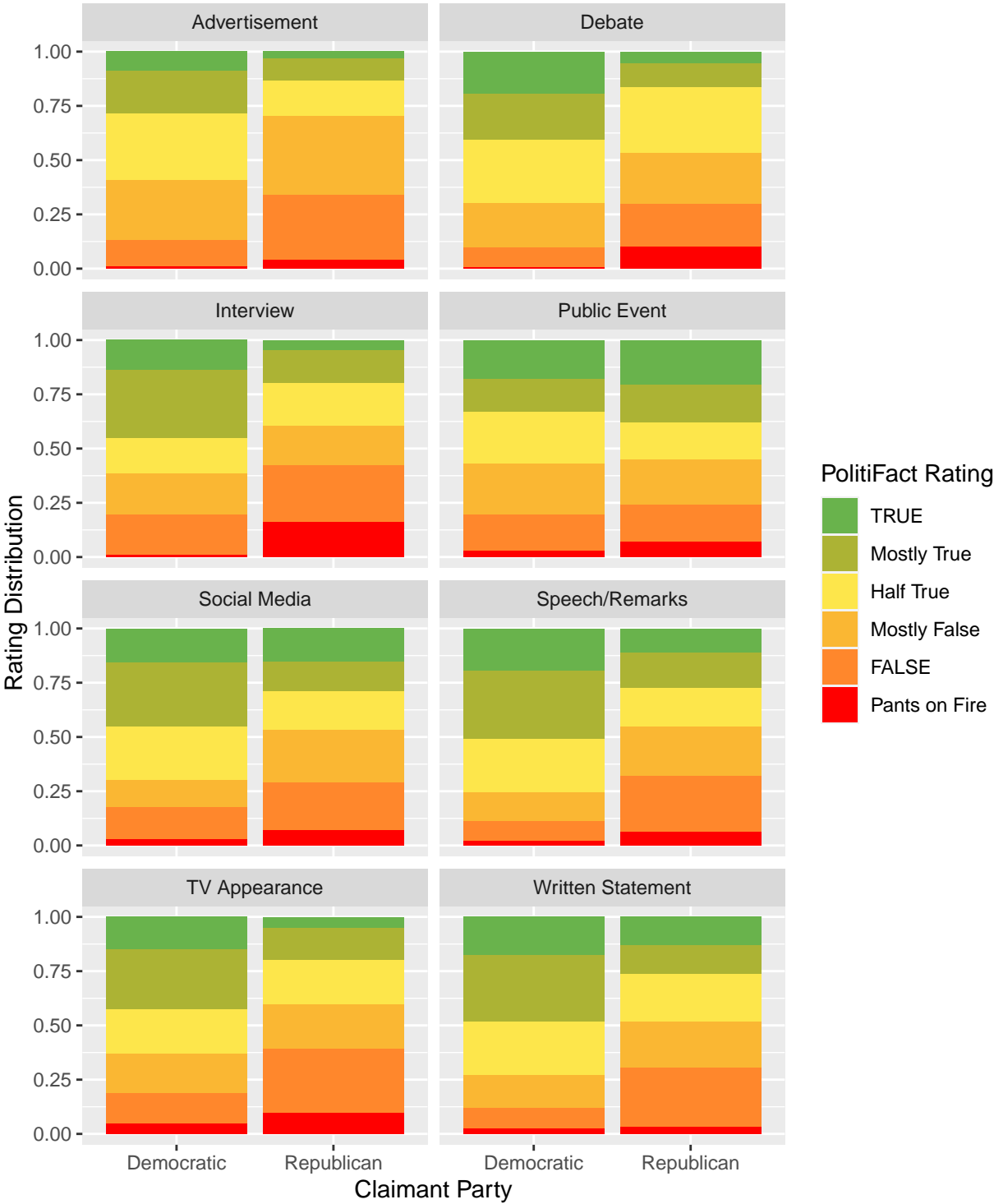
Table 2: Distribution of All Claims by Location

| location | count |
|-------------------|-------|
| Advertisement | 188 |
| Debate | 225 |
| Interview | 208 |
| Public Event | 101 |
| Social Media | 405 |
| Speech/Remarks | 620 |
| TV Appearance | 472 |
| Written Statement | 281 |

Table 3: Distribution of Claims by Party and Location

| claimant_party | Advertisement | Debate | Interview | Public Event | Social Media | Speech/Remarks | TV Appearance | Written Statement |
|----------------|---------------|--------|-----------|--------------|--------------|----------------|---------------|-------------------|
| Democratic | 91 | 135 | 102 | 72 | 209 | 362 | 207 | 126 |
| Republican | 97 | 90 | 106 | 29 | 196 | 258 | 265 | 155 |

Claim Ratings by Political Party and Location



Social Media

Table 4: Distribution of Claims by Social Media App

| location.extra | count |
|-------------------|-------|
| Facebook | 62 |
| Instagram | 2 |
| LinkedIn | 1 |
| Twitter | 337 |
| Various Platforms | 1 |
| YouTube | 2 |

Seeing that the vast majority of claims originate on Twitter and Facebook, lets center in on those.

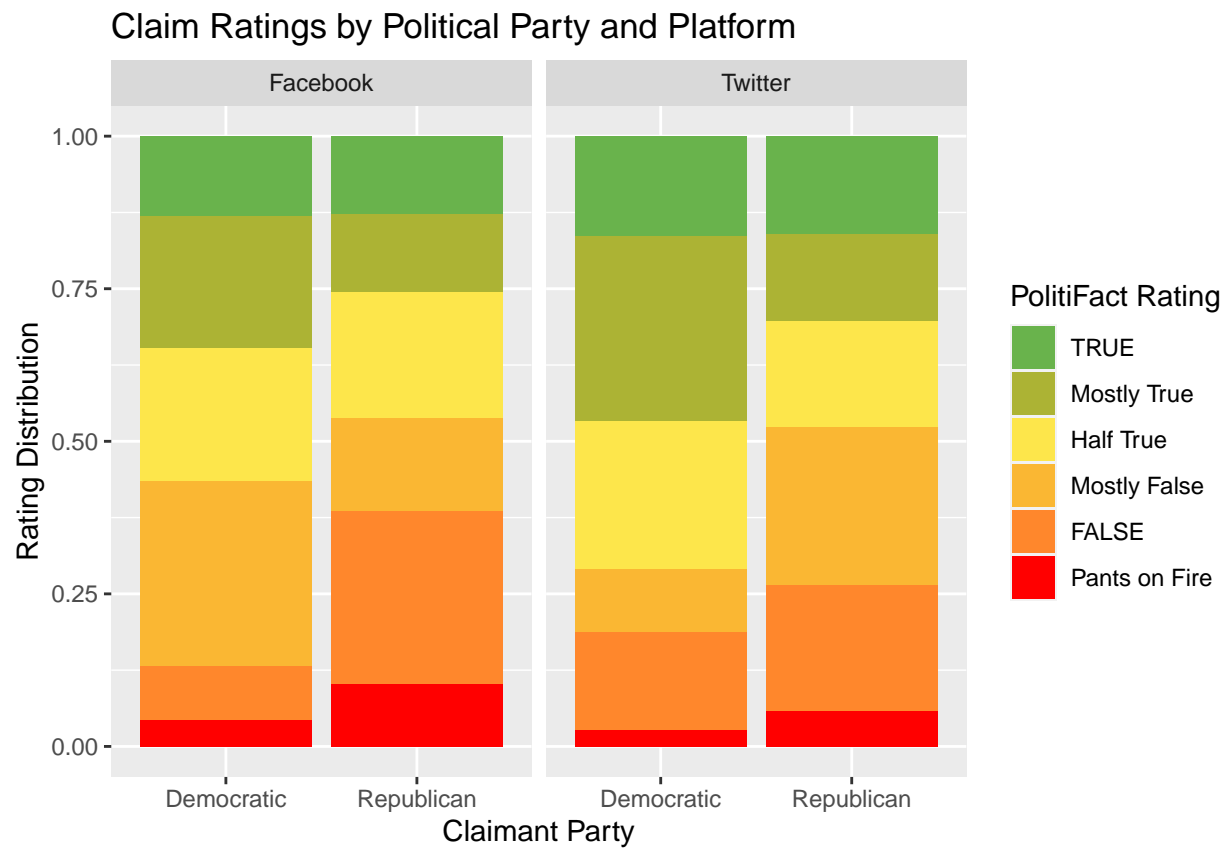


Table 5: Total Claims on Twitter and Facebook

| claimant_party | count |
|----------------|-------|
| Democratic | 205 |
| Republican | 194 |

Table 6: Democrats PolitiFact Rating Proportions on Twitter and Facebook

| textualRating | count | proportion |
|---------------|-------|------------|
| TRUE | 33 | 0.161 |
| Mostly True | 60 | 0.293 |
| Half True | 49 | 0.239 |
| Mostly False | 26 | 0.127 |
| FALSE | 31 | 0.151 |
| Pants on Fire | 6 | 0.029 |

Table 7: Republicans PolitiFact Rating Proportions on Twitter and Facebook

| textualRating | count | proportion |
|---------------|-------|------------|
| TRUE | 30 | 0.155 |
| Mostly True | 27 | 0.139 |
| Half True | 35 | 0.180 |
| Mostly False | 46 | 0.237 |
| FALSE | 43 | 0.222 |
| Pants on Fire | 13 | 0.067 |

This data appears to indicate that Republicans and Democrats had a similar proportion of True claims on Facebook and Twitter, just under 16% of all claims checked. Democrats had about 2.12x more Mostly True claims, and 1.33x more Half True claims. On the other side of the spectrum, Republicans had 1.87x more Mostly False statements, 1.46x more False statements, and 2.31x more Pants on Fire statements.

TV Appearance

Table 8: Distribution of TV Appearances

| location.extra | count |
|------------------------|-------|
| ABC | 47 |
| Bloomberg | 2 |
| CBS | 35 |
| CNBC | 2 |
| CNN | 69 |
| Comedy Central | 1 |
| Digital Platform | 2 |
| EWTN | 1 |
| FOX | 92 |
| HBO | 6 |
| MSNBC | 60 |
| NBC | 73 |
| Newsmax | 1 |
| PBS | 3 |
| Regional Station | 73 |
| TBN | 1 |
| Telemundo | 1 |
| the Hill | 1 |
| Time Warner Cable News | 2 |

To continue analytics, we will focus on all TV channels on which at least 50 claims made. This leaves: CNN, FOX, MSNBC, NBC, and the Regional Station tag.

Table 9: Claims made on TV, by Claimant Party

| claimant_party | CNN | FOX | MSNBC | NBC | Regional Station |
|----------------|-----|-----|-------|-----|------------------|
| Democratic | 39 | 12 | 42 | 28 | 37 |
| Republican | 30 | 80 | 18 | 45 | 36 |

Claim Ratings by Political Party and TV Channel

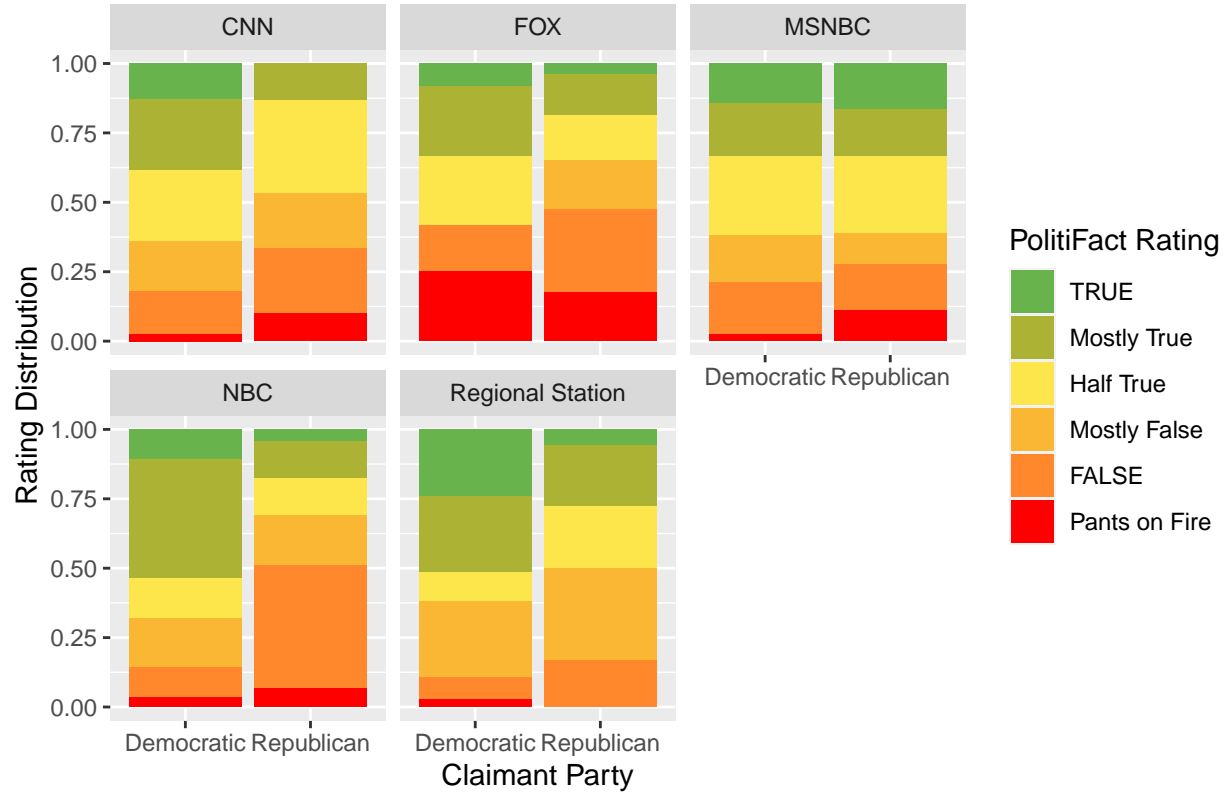


Table 10: Claim Distribution on FOX

| claimant_party | TRUE | Mostly True | Half True | FALSE | Pants on Fire | Mostly False |
|----------------|------|-------------|-----------|-------|---------------|--------------|
| Democratic | 1 | 3 | 3 | 2 | 3 | 0 |
| Republican | 3 | 12 | 13 | 24 | 14 | 14 |

Table 11: Claim Distribution on CNN

| claimant_party | TRUE | Mostly True | Half True | Mostly False | FALSE | Pants on Fire |
|----------------|------|-------------|-----------|--------------|-------|---------------|
| Democratic | 5 | 10 | 10 | 7 | 6 | 1 |
| Republican | 0 | 4 | 10 | 6 | 7 | 3 |

Table 12: Claim Distribution on MSNBC

| claimant_party | TRUE | Mostly True | Half True | Mostly False | FALSE | Pants on Fire |
|----------------|------|-------------|-----------|--------------|-------|---------------|
| Democratic | 6 | 8 | 12 | 7 | 8 | 1 |
| Republican | 3 | 3 | 5 | 2 | 3 | 2 |

Table 13: Claim Distribution on NBC

| claimant_party | TRUE | Mostly True | Half True | Mostly False | FALSE | Pants on Fire |
|----------------|------|-------------|-----------|--------------|-------|---------------|
| Democratic | 3 | 12 | 4 | 5 | 3 | 1 |
| Republican | 2 | 6 | 6 | 8 | 20 | 3 |

Table 14: Claim Distribution on Regional Station

| claimant_party | TRUE | Mostly True | Half True | Mostly False | FALSE | Pants on Fire |
|----------------|------|-------------|-----------|--------------|-------|---------------|
| Democratic | 9 | 10 | 4 | 10 | 3 | 1 |
| Republican | 2 | 8 | 8 | 12 | 6 | 0 |

Some interesting trends to note among the checked claims: - Virtually no True statements made by Republicans on CNN - Higher proportion of Pants on Fire claims made by Democrats on FOX - Significantly more False claims made by Republicans on NBC - Virtually no Pants on Fire statements made by Republicans on Regional Stations

Speech/Remarks