

Location of the Lie EDA

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Exploratory Data Analysis

Table 1: Claims by Party

claimant_party	count
Democratic	1304
Republican	1196

Table 2: Distribution of all claims by Location

location	count
Advertisement	188
Debate	225
Interview	208
Public Event	99
Social Media	404
Speech/Remarks	622
TV Appearance	472
Written Statement	282

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

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	208	362	207	127
Republican	97	90	106	27	196	260	265	155

Social Media

Table 4: Distribution of claims by Social Media App

location.extra	count
Facebook	62
Instagram	2

location.extra	count
LinkedIn	1
Twitter	336
Twitter Facebook	1
YouTube	2

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

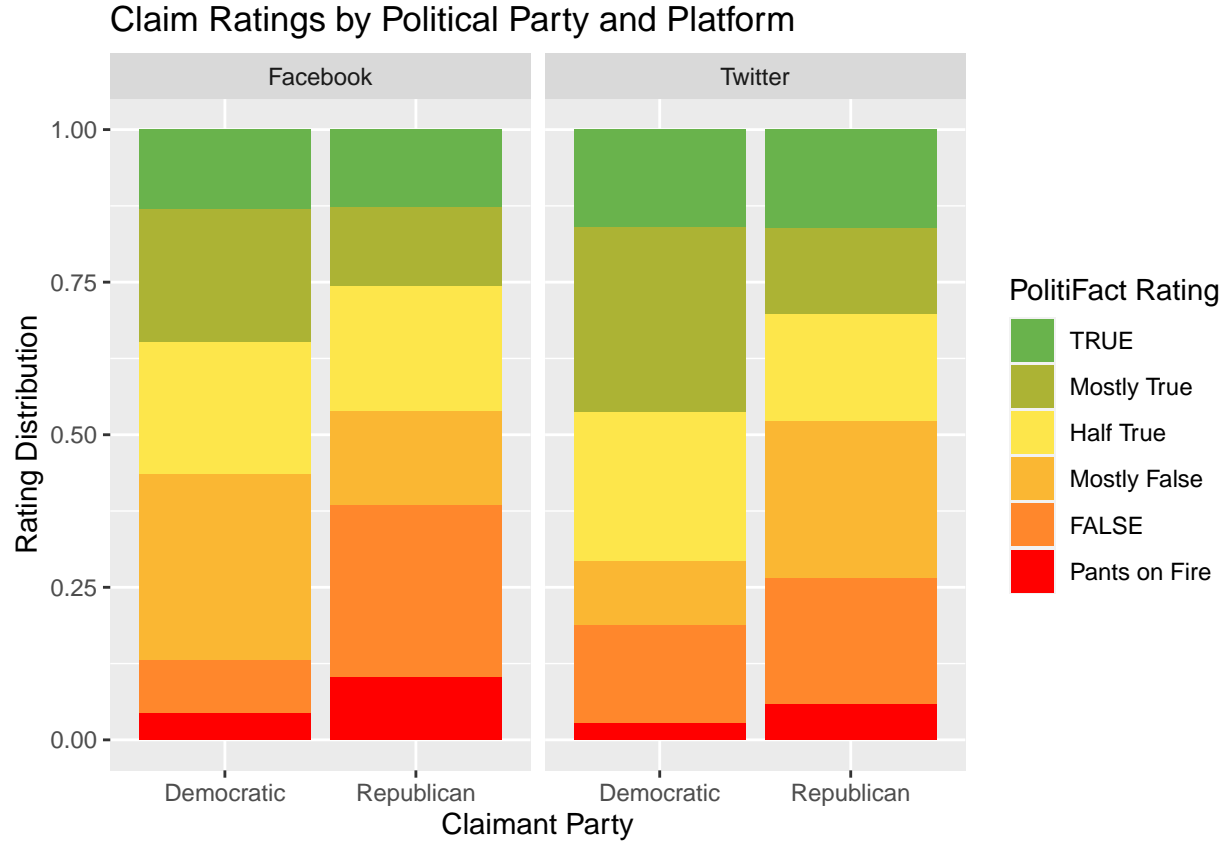


Table 5: Total Claims on Twitter and Facebook

claimant_party	count
Democratic	204
Republican	194

Table 6: Democrats PolitiFact Rating Proportions on Twitter and Facebook

textualRating	count	proportion
TRUE	32	0.157
Mostly True	60	0.294
Half True	49	0.240
Mostly False	26	0.127
FALSE	31	0.152

textualRating	count	proportion
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

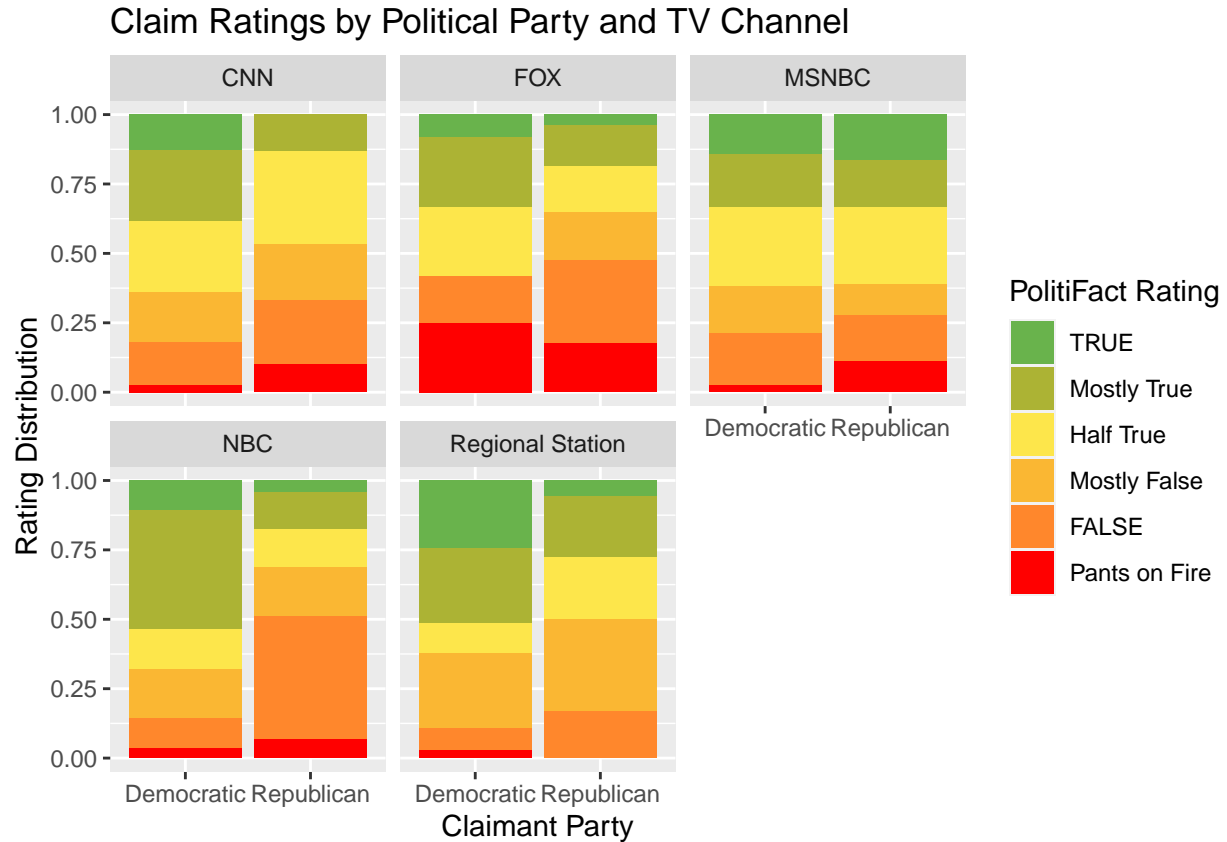
Table 8: Distribution of TV Appearances

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



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