
Tweeting Left, Right & Center:

How users and attention
are distributed across Twitter

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Background: Social media as political soapbox

- Social media have long hosted diverse political conversations
- But the ideological makeup of these discussions may not be balanced
- Key questions:
 - What is the ideological distribution of American Twitter users?
 - How do users of differing ideologies behave differently?

Methods 1: Data

Dataset	Count	Timeframe	Details
Baseline	1,000	Mar 11 – 18, 2019	Randomly sampled American Twitter users
News	25,893,747	Nov 6, 2016 – June 6, 2018	Replies to: @cnn, @foxnews, @nytimes, @washingtonpost, @yahooonews
Issue	60,735,013	Jan 1, 2017 – Dec 31, 2017	Keywords: "hurricane," "north korea," "shooter," "sexual harassment," "Russia AND investigation," "white AND nationalist"

Methods 2: Ideology detection

- Basic assumption: birds of a feather...
- I.e., the more left-wing users you follow, the more left you are and vice versa
- Start with a list of widely-followed influencers with known ideology
- Use to generate ideology scores of any user
 - Less than 0 = left
 - Greater than 0 = right
- See Barbera 2015 for more details on the method

Methods 3: Ideology categorization

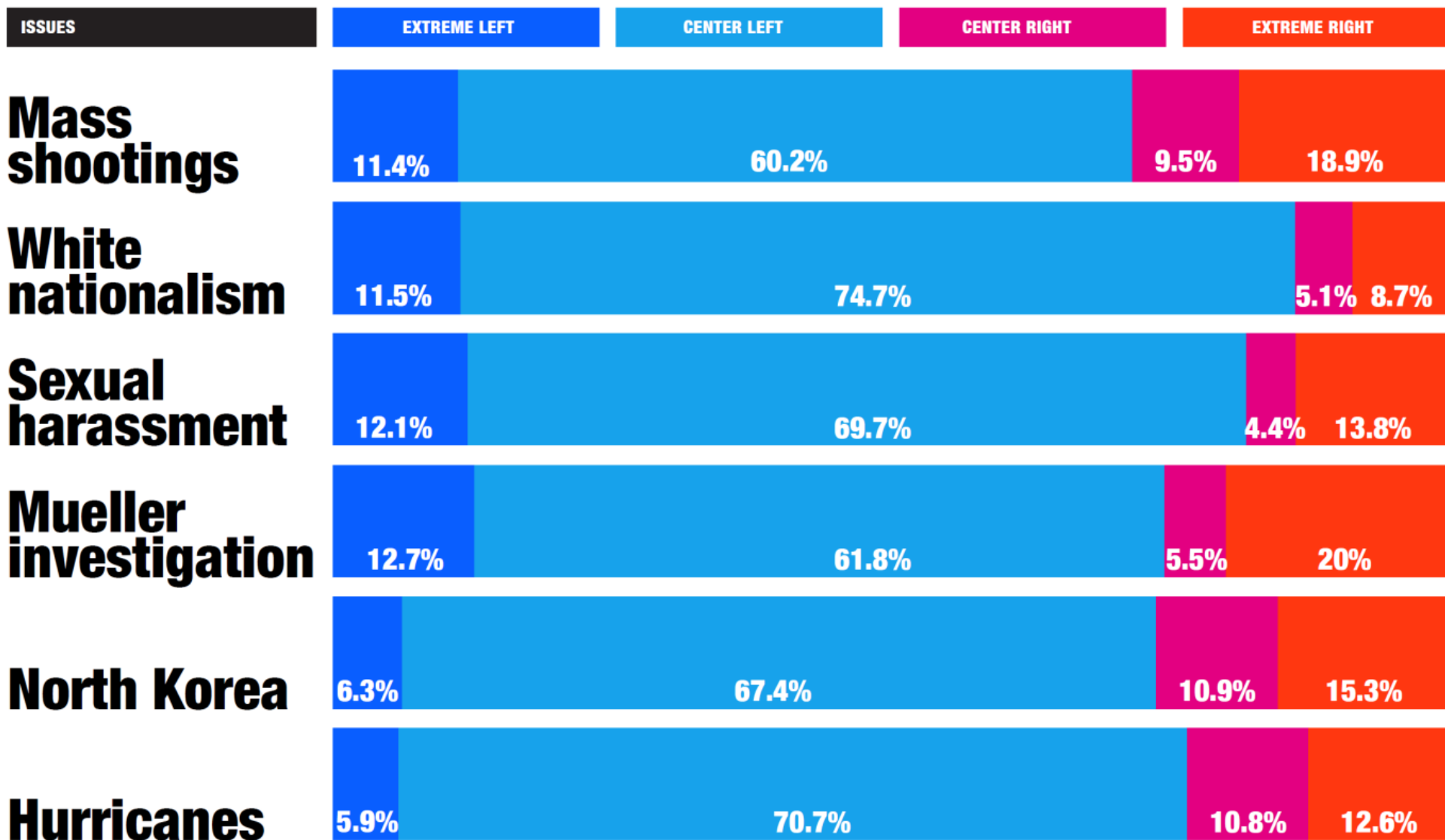
- Four ideology categories:
 - Far/extreme left (less than -1)
 - Center left (-1 to 0)
 - Center right (0 to 1)
 - Far right (greater than 1)

Sample influencers and their ideology scores

Screen name	Description	Ideology score	Segment
@MomsDemand	Moms Demand Action (gun control advocacy group)	-1.66	EXTREME LEFT
@repjohnlewis	John Lewis (D-GA, House representative for GA's 5th district and civil rights leader)	-1.44	
@LeoDiCaprio	Leonardo DiCaprio (actor and environmental activist)	-0.87	CENTER LEFT
@sen_joemanchin	Joe Manchin (D-WV, senior senator of West Virginia, known for his bipartisanship)	-0.26	
@sendeanheller	Dean Heller (R-NV, former senator from Nevada, a moderate who initially repudiated President Trump and later embraced him)	0.31	CENTER RIGHT
@FoxNews	Fox News Channel (conservative-leaning US cable news network)	0.76	
@Heritage	The Heritage Foundation (conservative think tank)	1.17	EXTREME RIGHT
@WayneDupreeShow	Wayne Dupree (conservative radio show host and USAF veteran)	1.58	

Finding cluster 1

- Center left dominates across baseline and issues, less so for news
- The far left and center right are tiny (usually around or below 10%)
- Far right is best represented among respondents to Fox News



NEWS OUTLET

EXTREME LEFT

CENTER LEFT

CENTER RIGHT

EXTREME RIGHT

New York Times

9.4%

58.4%

11.2%

20.9%

Washington Post

8.2%

61.2%

13.9%

16.6%

CNN

5.1%

47.9%

12%

35%

Yahoo! News

4.9%

49%

13.8%

32.4%

Fox News

1.9%

34.9%

12.5%

50.5%

3:30 PM

BASELINE (SEE FIGURE 1)

10%

57%

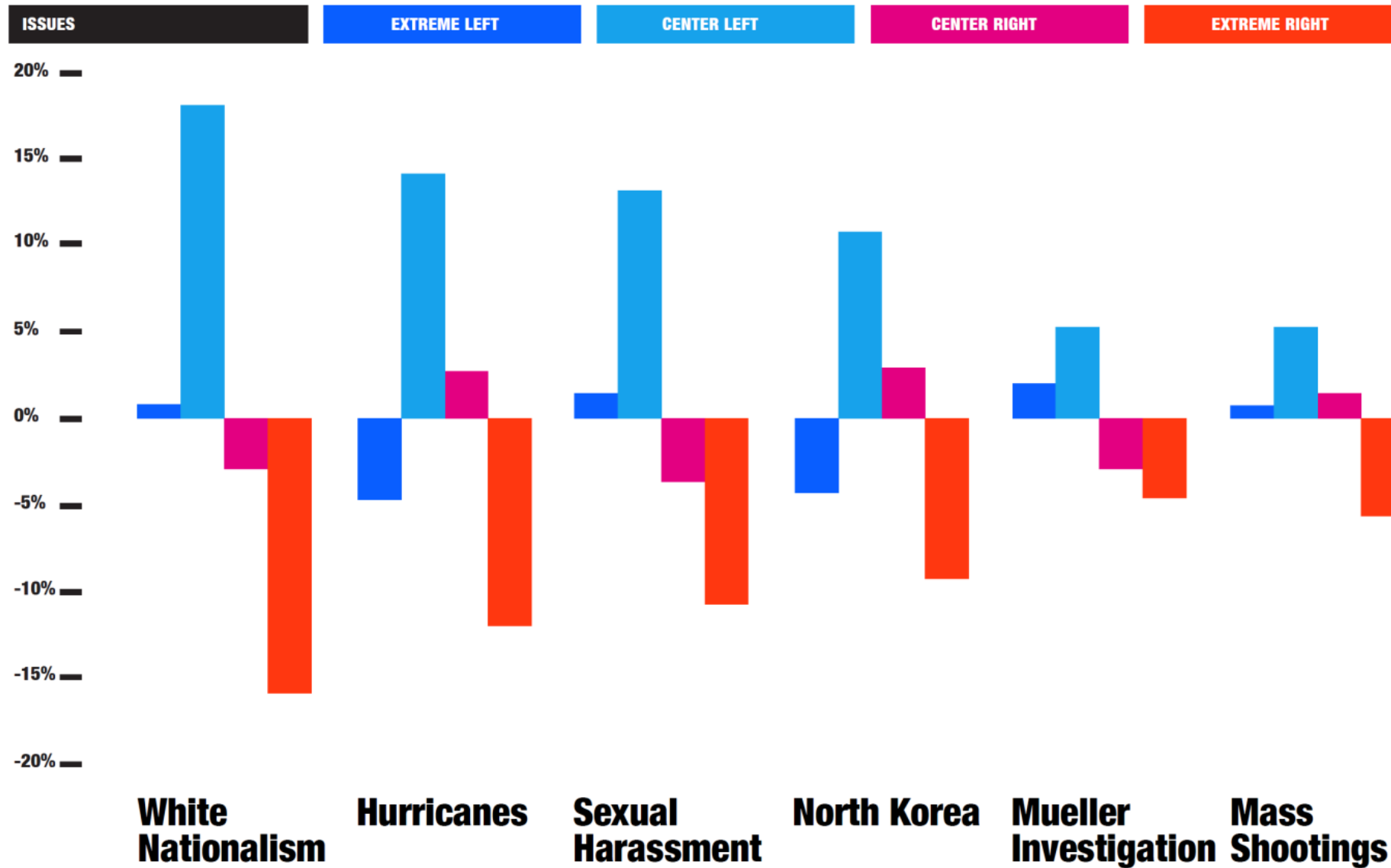
8%

25%

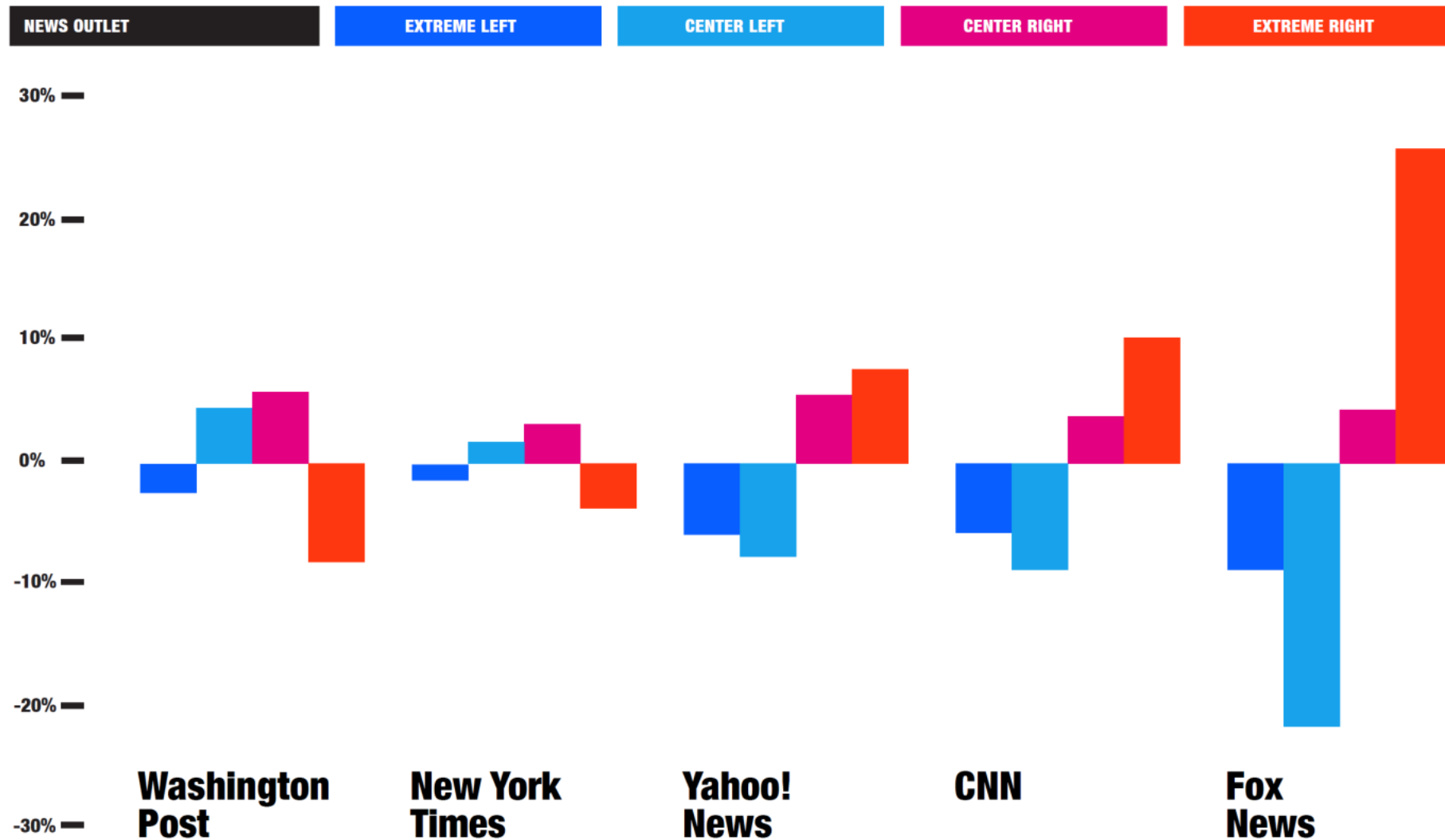
Finding cluster 2

- For the issues, the center left is overrepresented relative to baseline (6/6 issues) and the far right is underrepped (6/6)
- For the news outlets, the far right is generally overrepresented relative to baseline (3/5 outlets) while the far left is underrepped (3/5)

Deviation from baseline, issues



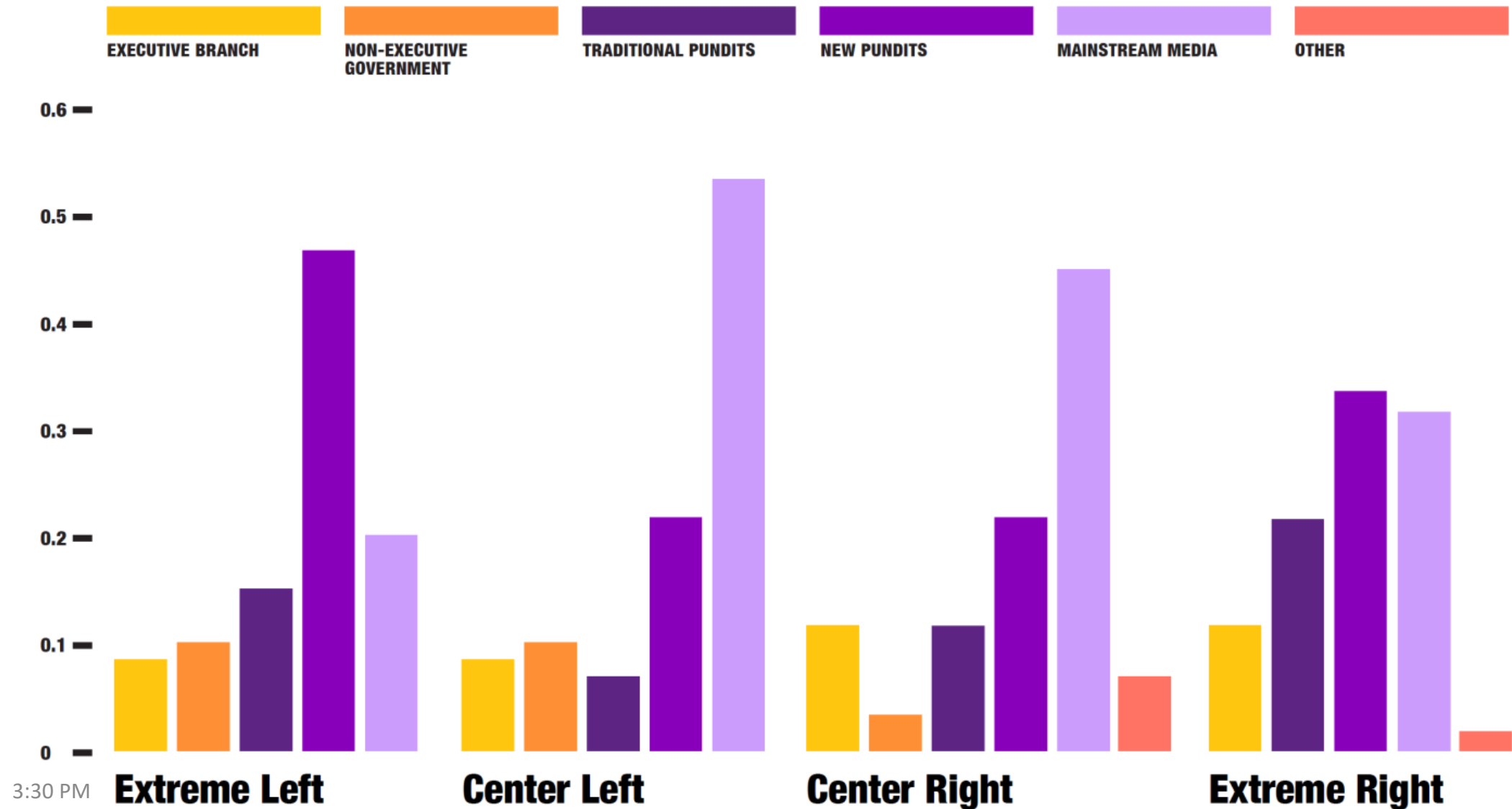
Deviation from baseline, news



Finding cluster 3

- The extremes are more interested in punditry (new and traditional)
- The center is more interested in traditional news content

Top 10 most popular mentions by segment

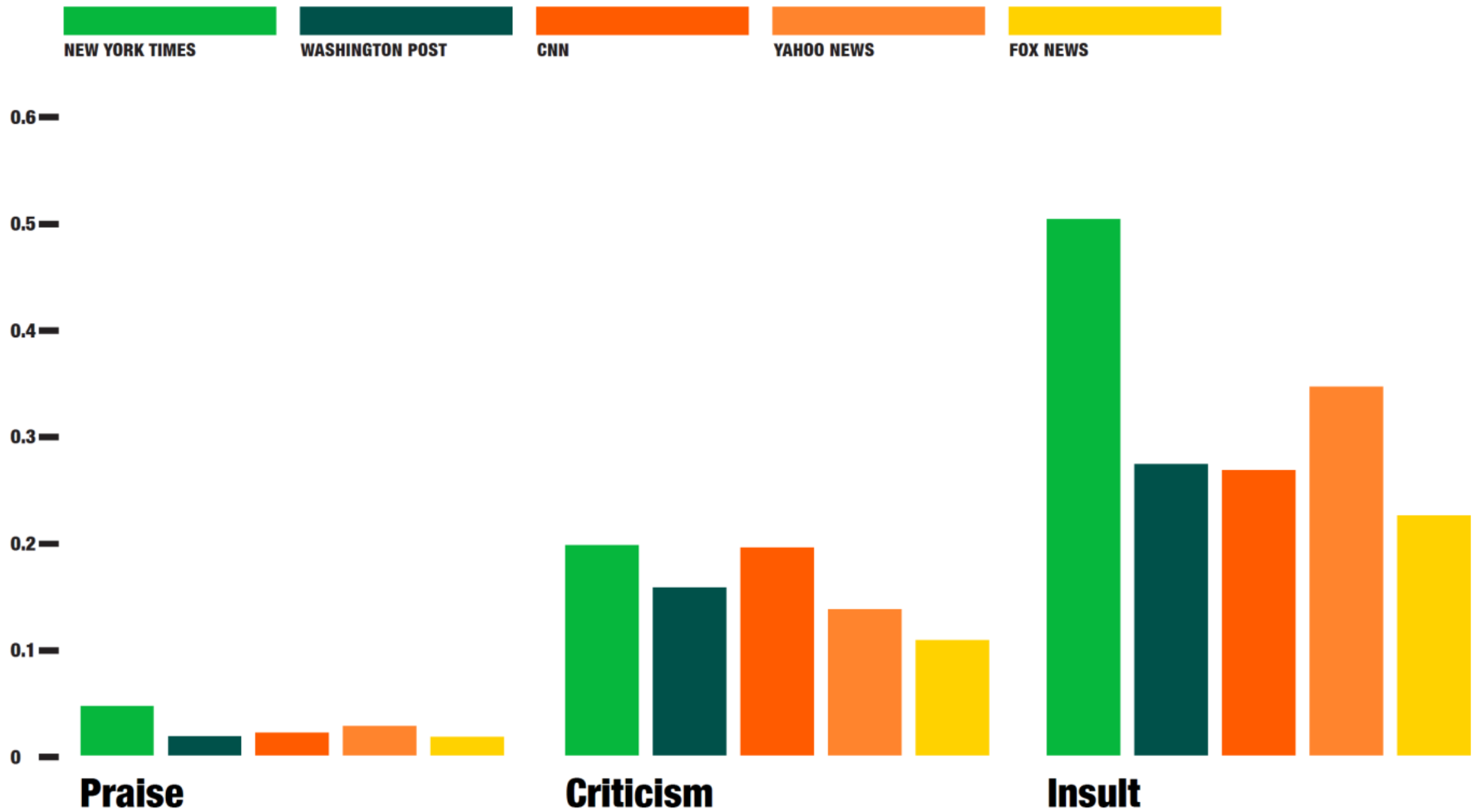


Methods 4: Content analysis

- Used to detect tone of reactions to news outlets
- Four raters read each of 5000 sampled tweets (1000 per outlet) looking for:
 - Praise
 - Substantive critique
 - Insults
- Tweets had to get at least 3 out of 4 agreements to be rated as containing each reaction

Finding cluster 4

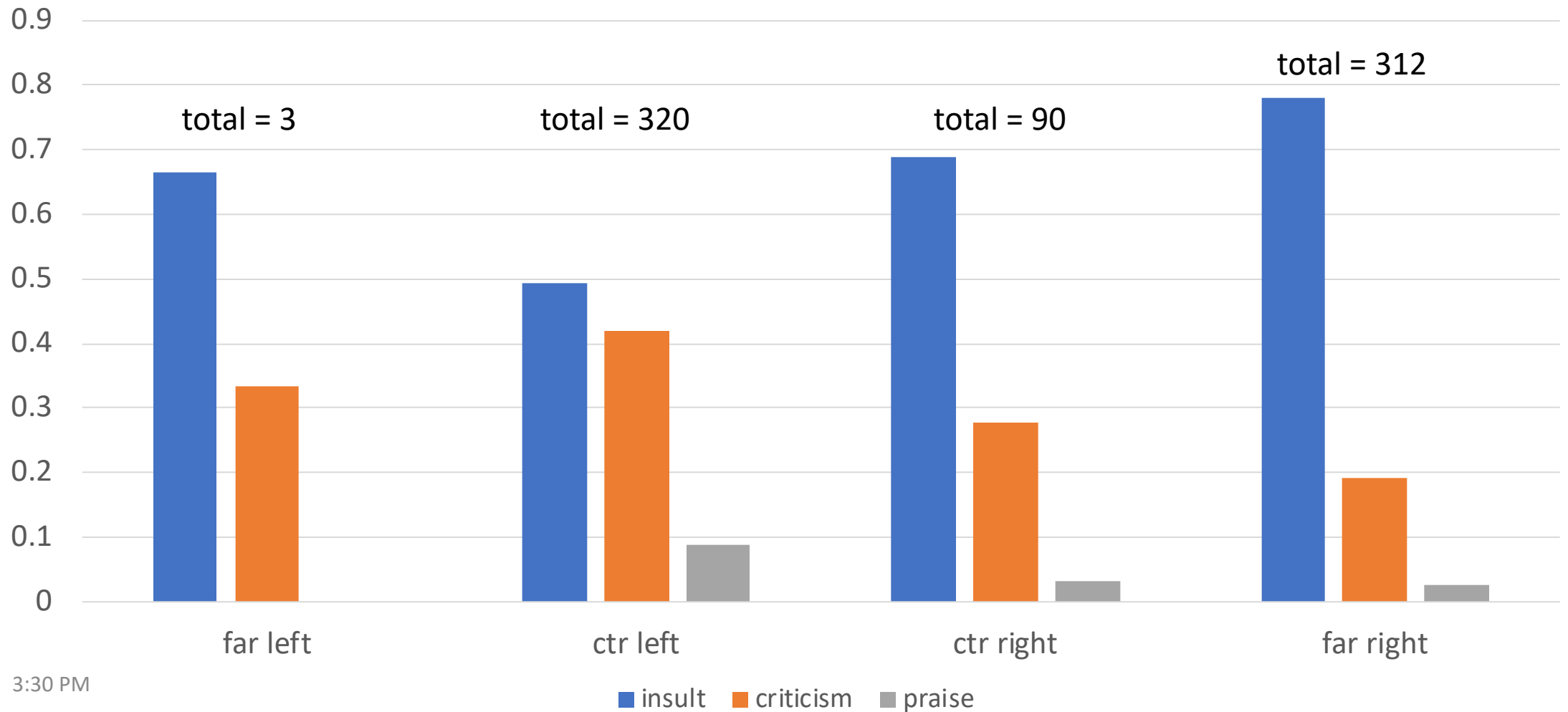
- Insulting was the most common reaction
- Then substantive criticism
- Followed by praise, which was almost nonexistent
- Minor deviations by news outlet



Finding cluster 5

- The center left was most likely to praise and criticize, and least likely to insult.
- The far right was most likely to insult and second least likely to praise.
- Only three far left tweets across all outlets were rated as having any of the three reactions, none of which were praise.

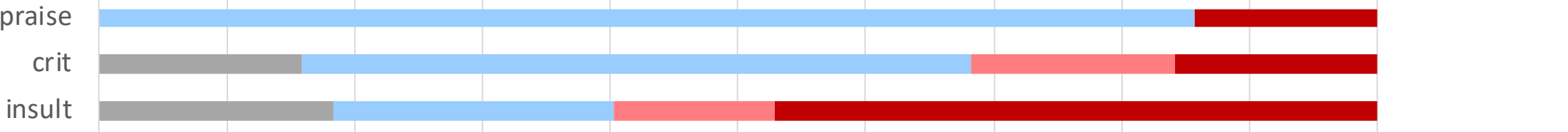
Reactions by ideology



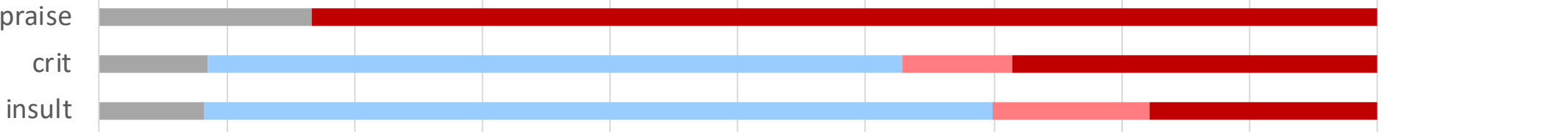
Finding cluster 6

- Most of four of the five outlets' praise came from the center left
- Most of Fox's praise came from the far right
- The far right provided more insults to all outlets except Fox
- But it was also the second most insulting of Fox after the center left

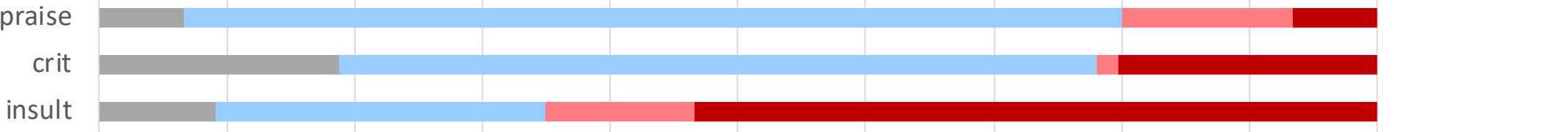
CNN



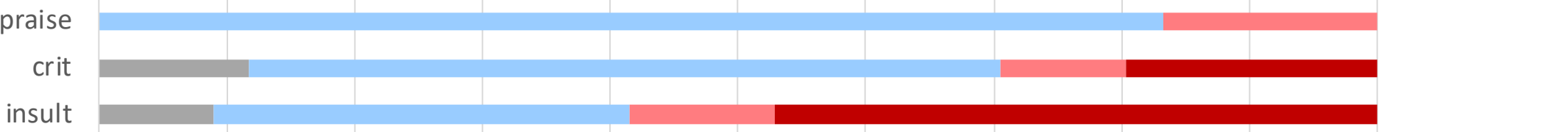
FOX



NYT



WPS



YHN



Conclusions and lingering questions 1

- Since the Trump administration, Twitter has leaned left. Why?
- The far right is much larger than the far left. Why?
- The center left is much bigger than the center right. Why?
- There seems to be one more or less unified left, but the center right and far right differ greatly from one another. Why?

Thanks!

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Conclusions and lingering questions 2

To what extent are these findings artifacts of our current political moment vs. an enduring aspect of Twitter (and possibly other social media services)?