# **COMM313 Final Project**

# Computational Text Analysis of #MeToo Movement Rhetoric

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# 10 May 2019

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In [6]: %run 'COMM 313 Final Project (1).ipynb'
        Extracting the-new-york-times-a-sexual-encounter -4b36d050-58f1-11e9-a271-0242ac130002.txt
        Extracting the-new-york-times-harvey-weinstein-indicted-49e638c6-58f1-11e9-a271-0242ac130002.txt
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        Extracting the-new-york-times-'whose-side-are-4b1b8b74-58f1-11e9-a271-0242ac130002.txt
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        Extracting the-new-york-times-5-ways-harvey-4aa60fc0-58f1-11e9-a271-0242ac130002.txt
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```

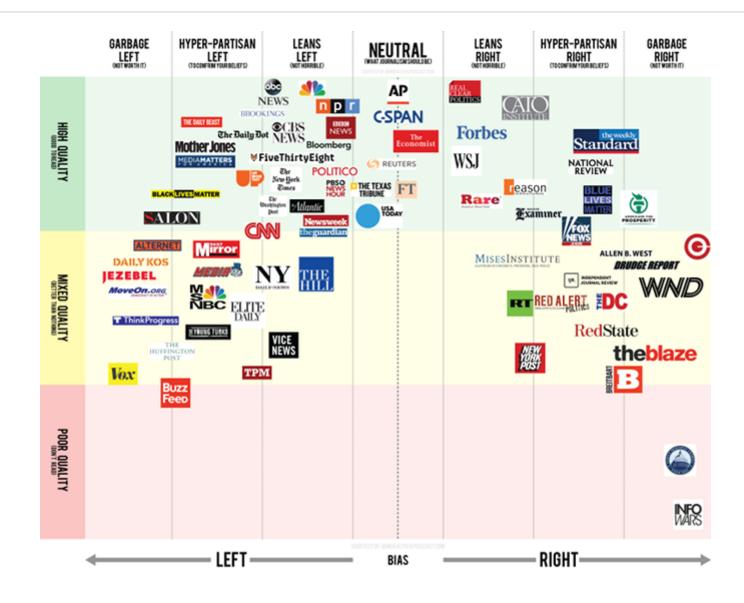


After a series of high-profile sexual assault allegations against now infamous Hollywood producer Harvey Weinstein flooded the news media in late 2017, the #MeToo movement began to spread virally.

The movement began as a hashtag on social media in an attempt to demonstrate the widespread prevalence of sexual assault and harassment, especially in the workplace. Tarana Burke, an American social activist and community organizer, began using the phrase 'Me Too' as early as 2006, and the phrase was later popularized by American actress Alyssa Milano, on Twitter in 2017.

Since the conception of the movement, hundreds of women (and men) have stepped into the spotlight to share their personal experiences of sexual harassment and assault with celebrities, partners, and coworkers alike. For several months, the mainstream news media was consumed with stories on these allegations. But the coverage of such a politicized modern social problem wasn't always objective.

#### For this project, I chose to delve deeply into the rhetorical choices made by journalists writing for media outlets positioned on opposite ends of the political spectrum: Fox News Network and The New York Times. The blog post that follows will explain how I accomplished this.

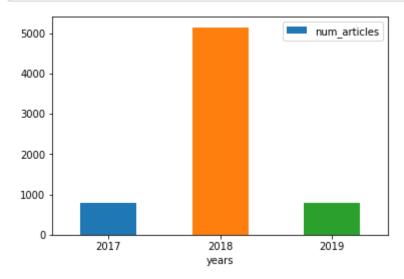


# **The Data**

I used the LexisNexis bulk download tool to accumulate a database of articles from Fox and The New York Times. The parameters of my search necessitates that articles contained the search term "#MeToo" as well as a number of characterizations of sexual assault (including victim, assault, accusation, etc.). The timeframe I set was January 2017 to present day, and the resulting corpus contained 6737 distinct documents.

Over the three years that the corpus spans, #MeToo was mentioned most in 2018. This makes sense because the movement didn't really take off until late in 2017 and it's only halfway through 2019. However, viewing the chart below it is clear that the number of articles mentioning #MeToo within the first five months of 2018 is much greater than in the first 5 months of 2019.

```
In [3]: import pandas as pd
import matplotlib
df = pd.DataFrame({'years':[2017, 2018, 2019], 'num_articles':[789, 5149, 799]})
ax = df.plot.bar(x='years', y='num_articles', rot=0)
```



# **Collocation analysis**

After tokenizing my data and adding key-value pairs for article texts and article tokens to each article in the corpus, the next step was embarking on collocation analysis.

Since my objective is comparing and contrasting linguistic choices of these two publications, I needed to divide my corpus into two subcorpora. Then I was able to investigate the collocates of words relevant to my research question for both publications. I started by comparing the lists of most commonly used tokens.

#### THE NEW YORK TIMES

### FOX NEWS NETWORK

```
('what', 32261),
                                                                       ('not', 34984),
                                                  [('the', 406017),
[('the', 272769),
                    ('--', 32185),
                                                                       ('an', 34354),
                                                   ('to', 203843),
 ('to', 168468),
                    ('about', 31039),
                                                                       ('had', 33678),
 ('and', 148462),
                                                   ('of', 202026),
                    ("it's", 27098),
                                                                       ('has', 33336),
                                                   ('a', 196463),
 ('a', 120829),
                                                                       ('but', 32916),
                    ('all', 26744),
                                                   ('and', 186798),
 ('of', 117484),
                    ('think', 26559),
                                                                       ('from', 30731),
 ('that', 114284),
                                                   ('in', 157514),
                    ('know', 24525),
                                                                       ('be', 30326),
                                                   ('that', 109491),
 ('you', 87602),
                    ('at', 24229),
                                                                       ('women', 30157),
                                                   ('for', 74473),
 ('is', 87498),
                    ('as', 22778),
                                                                       ('ms', 29975),
                                                   ('on', 65885),
 ('i', 84050),
                                                                       ('are', 29506),
                    ('going', 22621),
                                                   ('was', 63618),
 ('in', 81602),
                    ('do', 22492),
                                                                       ('about', 28662),
 ('this', 64871),
                                                   ('mr', 62736),
                    ('president', 22090),
                                                                       ('they', 28512),
                                                   ('is', 60955),
 ('it', 59602),
                    ('there', 21772),
                                                                       ('sexual', 28336),
                                                   ('said', 57835),
 ('for', 47577),
                    ('people', 21218),
                                                                       ('this', 27619),
                                                   ('he', 51288),
 ('on', 45774),
                    ('if', 20142),
                                                                       ('new', 23423),
                                                   ('with', 49989),
 ('we', 44576),
                    ('now', 20009),
                                                                       ('or', 22855),
 ('they', 44176),
                                                   ('she', 48765),
                    ('who', 19841),
                                                                       ('their', 22253),
                                                   ('as', 45926),
 ('he', 42977),
                    ('has', 19470),
                                                                       ('been', 20705),
                                                   ('it', 45279),
 ('have', 42870),
                    ('from', 19302),
                                                                       ('one', 19791),
('are', 41249),
                                                   ('her', 44576),
                    ('just', 19064),
                                                                       ('were', 19716),
                                                   ('by', 41527),
 ('was', 38485),
                    ('right', 18287),
                                                                       ('when', 19113),
 ('but', 36539),
                                                   ('who', 40619),
                    ('she', 17793),
                                                   ('his', 39409),
                                                                       ('you', 19032),
 ('not', 35975),
                    ("that's", 17671),
                                                                       ('more', 18295),
                                                   ('at', 39200),
 ('with', 34147),
                    ("don't", 17133),
                                                                       ('-', 18183),
                                                   ('have', 37107),
 ('be', 33493),
                    ('his', 17064)]
                                                                       ('what', 17600)]
                                                   ('i', 35177),
 ('so', 32532),
```

Then I went on to compare the most common collocates of the words "weinstein" and "blasey" in both the NYT and FOX corpora. I found that

• NYT uses "Mr." in reference to HW more often than just "Harvey" or "Harvey Weinstein"

"Mr" did not appear in the top ten collocates for "Weinstein"

In reference to "Blasey" (as in Christine Blasey Ford, the witness who alleged that she was sexually assaulted by then-prospective Supreme COurt Justice Brett Kavanaugh)...

- NYT uses "Dr" most commonly to refer to CBF
- Fox uses "Christine" most commonly to refer to CBF

This pattern implies that there my be a distinction between the ways that Fox and The Times choose to refer women who come forward with allegations of sexual assault. The decision not to use a doctor's prefix indicates less of a sense of respect for that person. This is acutally a broader societal trend, as <u>several studies have indicated (https://www.liebertpub.com/doi/full/10.1089/jwh.2016.6044)</u> that female doctors are referred to by their first names as opposed to their titles more often than male doctors.

I then conducted a series of KWIC analyses of the words "allegation", "accusation", "claim", and "against" with the goal of finding patterns as to how instances of sexual assault are described by these outlets.

#### THE NEW YORK TIMES

```
accusations against brett kavanaugh
                                  against harvey weinstein
         man who commits offenses against her
assault and inappropriate behavior against him
                 sex-crime claims against him
                unanimous opinion against him judge
           galvanizing opposition against
                                           him
           harassment allegations against
                      accusations against
                                           judge
                      allegations against
                                           judge
     accusation of sexual assault against
                      accusations against judge
                      allegations against justice
                       accusation against mr
                       accusation against mr
```

```
accusation of sexual misconduct against
                                         judge
                  she came out against
                                         judge
                   accusations against kavanaugh
            the new york times
                                against kavanaugh
              for them to vote
                               against kavanaugh is a mistake
 no corroboration no witnesses
                                against poor brett kavanaugh
           women that came out against weinstein
                    cautioning
                                against a rush to judgment
 sexual misconduct allegations
                                against candidate
 sexual misconduct allegations
                                against
       is now being weaponized against him in a way
      were being thrown around against this esteemed judge
own ordinance by discriminating
                                against chick-fil-a based on the
 no corroboration no witnesses
                                against
                                        poor brett kavanaugh these
          the system is rigged against them listen this is
```

The vast majority of the ways that The Times and FOX characterized instances of sexual assault in articles that spoke of #MeToo and Harvey Weinstein were standard and uninteresting. But I did notice a few distinctions as well. While both the Times and Fox used phrases like "accusations against" and "allegations against," when referring to the cases against Weinstein or Kavanaugh, the Times never used the phrase "sexual misconduct" to describe the instances of assault that occurred. Fox, on the other hand, used that phrase frequently. Personally, I feel that using the phrase "sexual misconduct" to describe an instance of sexual assault or rape seems to me like a significant downplaying of the severity of the action that took place.

## Typical Rhetoric Used

Fox News Network	The New York Times
accusations against	accusations against
allegations of misconduct	allegations against
accusation of sexual misconduct against	accusation of sexual assault against

From conducting KWIC analysis on the word "claim", it is interesting to note, that in the NYT sample, many of the times "claim" was used were situations in which the credibility of that statement was questionable or proven false. In comparisson, the Fox "claim"s were not associated with particularly dubious statements, but rather more generally used.

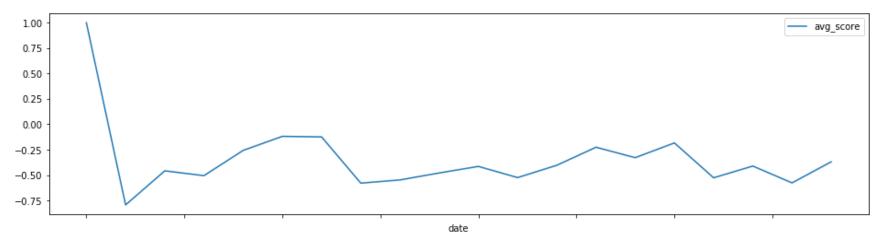
Since I am using a corpus of news articles which can sometimes be more noisy and less relevant to the research question at hand, I conducted a series of spot tests and concluded that because I used so many search parameters in addition to #MeToo during my LexisNexis search that the vast majority of the articles specifically pertain to my research question. I then conducted VADER analyses on text from both the NYT and Fox corpora.

# **VADER Polarity Scores**

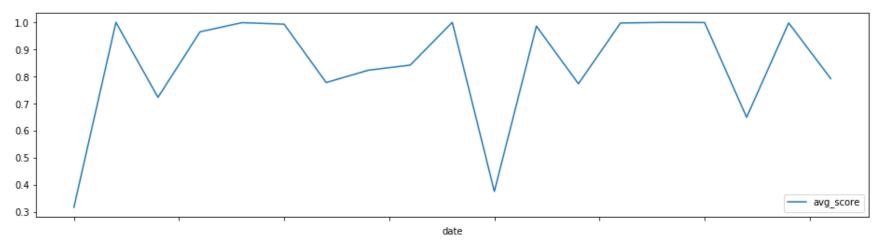
#### The New York Times Fox News Network

 $-0.3883453621981673 \quad 0.8390683060109336$ 

### VADER Sentiment Analysis of NYT Coverage of the MeToo Movement



VADER Sentiment Analysis of Fox Coverage of the MeToo Movement



From these charts, we can see an interesting trend in the compound polarity scores of the texts about the #MeToo movement respectively. All of these patterns alone are inconclusive, but together they begin to paint a picture representing the general feeling towards the #MeToo movement held by journalists and executives at these two top publications.

The use of the word "claim" in addition to "allegation" and "accusation" imples a dubiousness about the truthfullness of the story. Referring to a female doctor by her first name as opposed to her official title connotes a lack of respect if intentional and gender-based discrimination if subconscious. Lastly, a positive sentiment score when describing allegations of sexual assault may be indicative of indifference or dubiousness in place of using sympathetic language that emphasizes the gravity of the alleged crimes.

These were all trends noted in the Fox News Network subcorpus, supporting my theory that identity politics surrounding the #MeToo movement influence the way that conservative media outlets describe sexual assault.