

bias_analysis

Lindsey Greenhill

12/8/2021

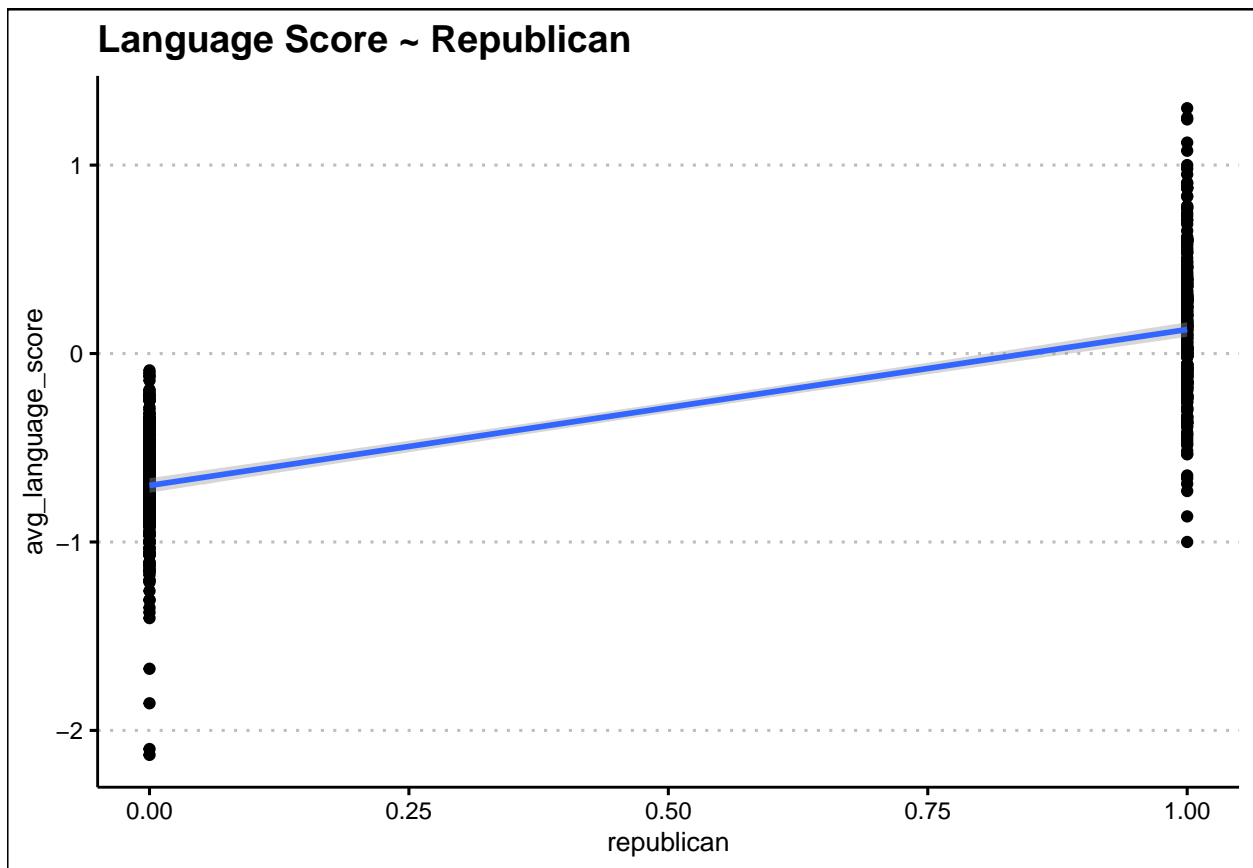
```
# I am now going to give each tweet a score

# dictionary from word dictionary analysis

content_dict <- dictionary(list(republican = c("biden",
        "border",
        "democrat",
        "spend",
        "illeg",
        "china",
        "inflat",
        "pelosi",
        "trillion",
        "afghanistan",
        "polici",
        "southern",
        "communist",
        "bidenbordercrisi",
        "radic",
        "mandat",
        "joe",
        "dem",
        "taxpay",
        "socialist"),
    democrat = c("black",
        "work",
        "payment",
        "violenc",
        "vote",
        "act",
        "childtaxcredit",
        "pandem",
        "democraci",
        "communiti",
        "famili",
        "child",
        "help",
        "buildbackbett",
        "pass",
        "care",
        "invest",
        "climat",
```

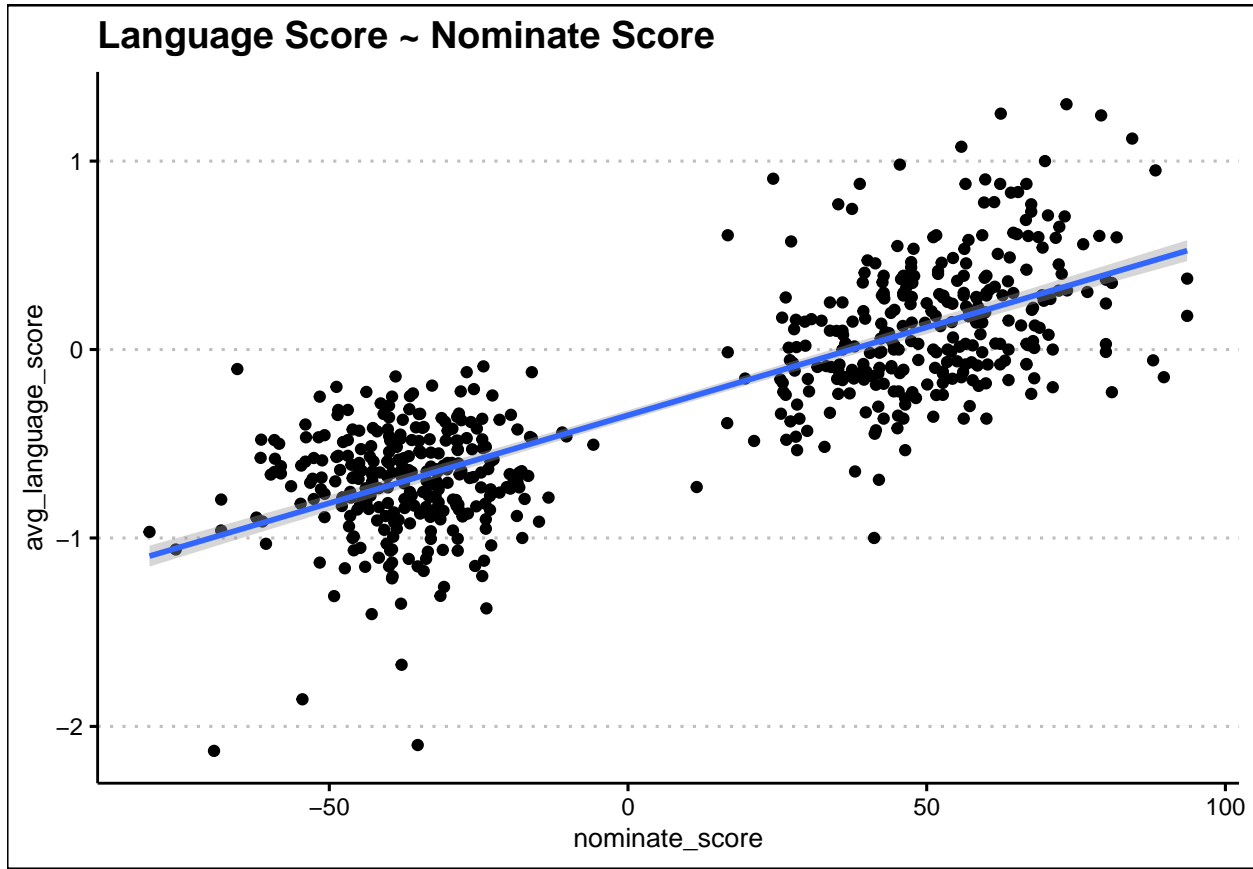
```
"americanrescueplan",  
"health"))))
```

```
# creating text corpus  
  
text_corpus <- corpus(joined_data, text_field = "text")  
  
# creating dfm for content analysis  
  
content_toks <- tokens(text_corpus,  
  remove_punct = TRUE,  
  remove_symbols = TRUE,  
  remove_numbers = TRUE,  
  remove_url = TRUE) %>%  
  tokens_tolower() %>%  
  tokens_remove(pattern=stopwords("en")) %>%  
  tokens_select(min_nchar = 3)  
  
content_dfm <- dfm(content_toks, groups = c("name", "date", "party"))  
  
# selecting words in the dictionaries  
  
content_categories <- dfm_lookup(content_dfm, dictionary = content_dict)  
  
# turning dfm into dataframe  
  
content_df <- convert(content_categories, to = "data.frame")  
  
# changing the quanteda object into a data frame  
  
content_df_cleaned <- content_df %>%  
  mutate(party = substr(doc_id, start = str_length(doc_id), stop = str_length(doc_id)),  
    name = substr(doc_id, start = 1, stop = str_length(doc_id) - 13))
```



```
## Warning: Removed 7 rows containing non-finite values (stat_smooth).
```

```
## Warning: Removed 7 rows containing missing values (geom_point).
```



% Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu
 % Date and time: Wed, Dec 08, 2021 - 15:42:26

Table 1:

| | <i>Dependent variable:</i> | |
|-------------------------|----------------------------|----------------------------|
| | avg_language_score | |
| | (1) | (2) |
| republican | 0.828*** (0.028) | |
| nominate_score | | 0.009*** (0.0003) |
| Constant | -0.700*** (0.020) | -0.349*** (0.013) |
| Observations | 589 | 582 |
| R ² | 0.600 | 0.645 |
| Adjusted R ² | 0.599 | 0.644 |
| Residual Std. Error | 0.339 (df = 587) | 0.320 (df = 580) |
| F Statistic | 879.783*** (df = 1; 587) | 1,053.709*** (df = 1; 580) |

Note:

*p<0.1; **p<0.05; ***p<0.01