EDA

About the data file

- Initially is a JSON-file (hacked, contents of the file had to be manually reformatted so that python libraries (like json, pandas) could process the proper JSON-file)
- Further, in order to avoid rewriting some existing methods for data analysis, the reformatted .JSON file is read via pandas

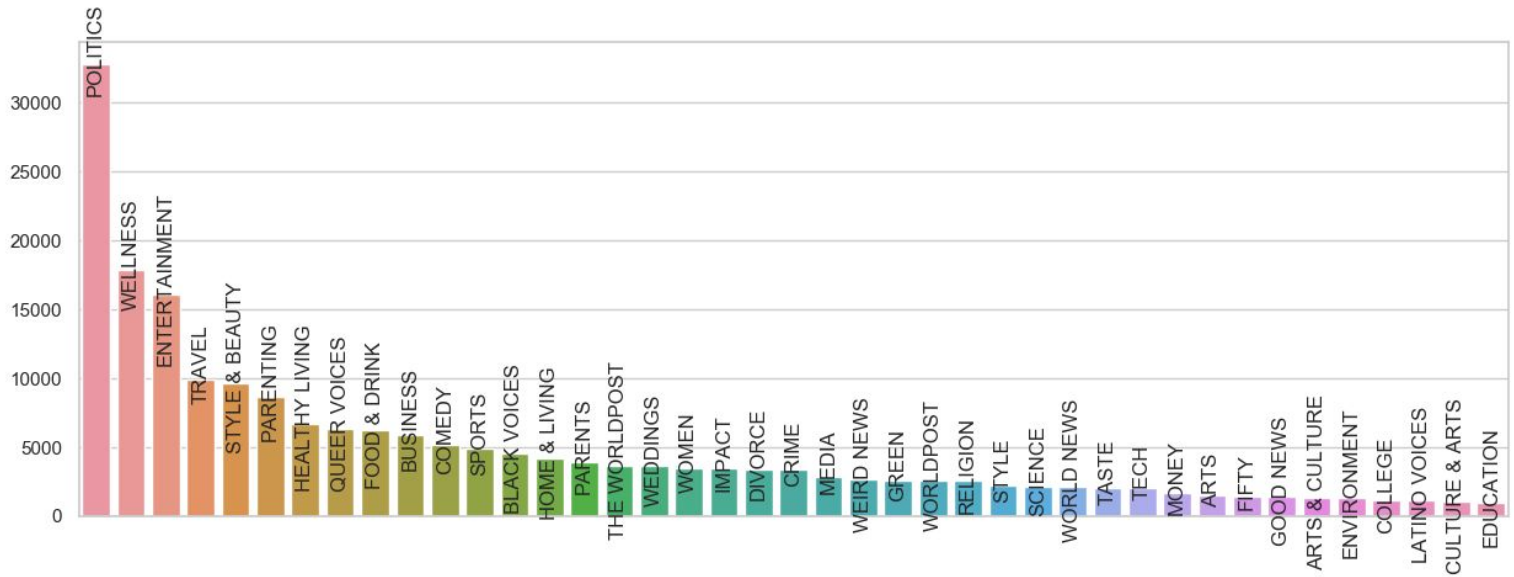
Initial info about the data

- Data has 6 columns: category, headline, authors, link, short_description, date
- Total number of news (length of the dataframe) is 200853 (news from 28/01/2012 to 26/05/2018
- There are no missing values in any of the column vectors

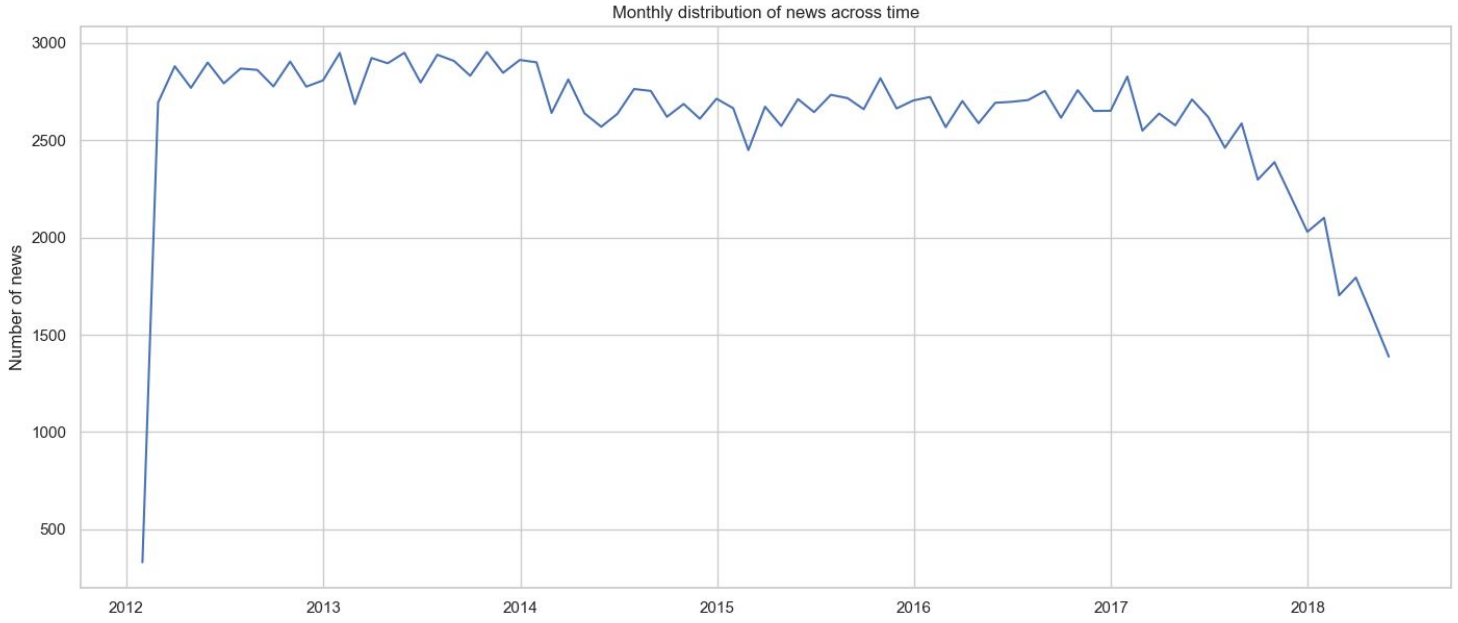
```
df = pd.read_json('data/final_news_category_dataset.json', orient='split')
print(df.info())
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 200853 entries, 0 to 200852
Data columns (total 6 columns):
category              200853 non-null object
headline              200853 non-null object
authors               200853 non-null object
link                  200853 non-null object
short_description     200853 non-null object
date                  200853 non-null datetime64[ns]
dtypes: datetime64[ns](1), object(5)
memory usage: 9.2+ MB
None
```

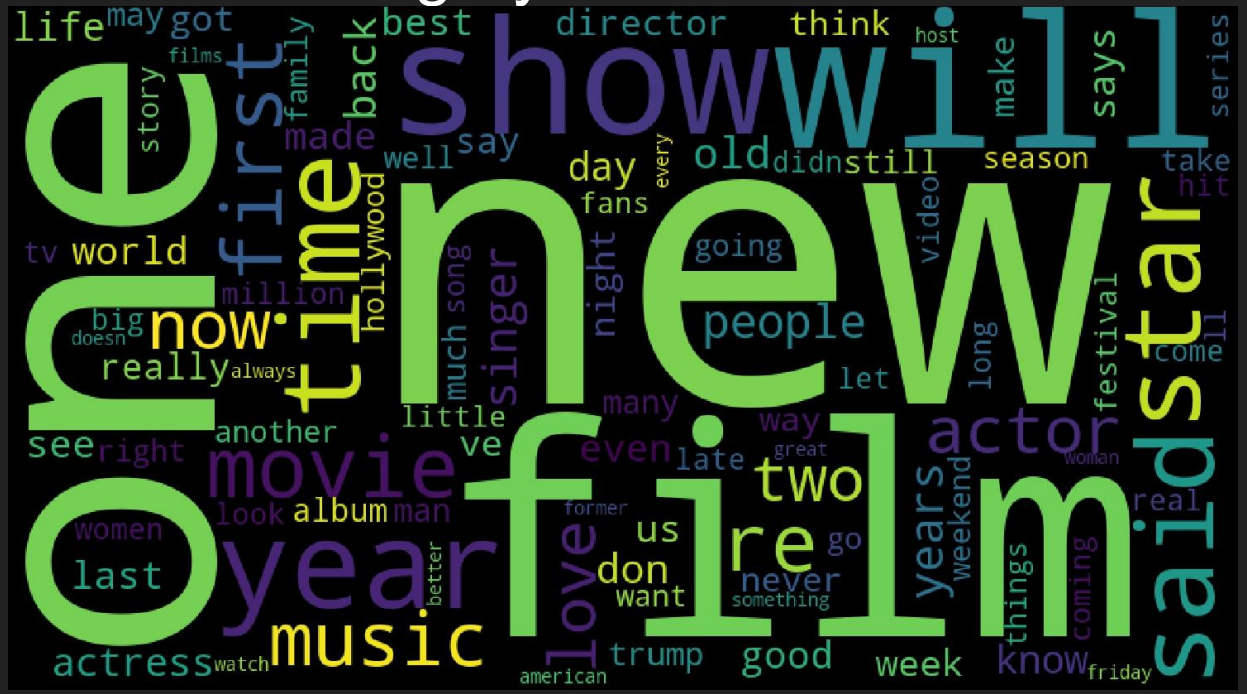
Distribution of news across categories



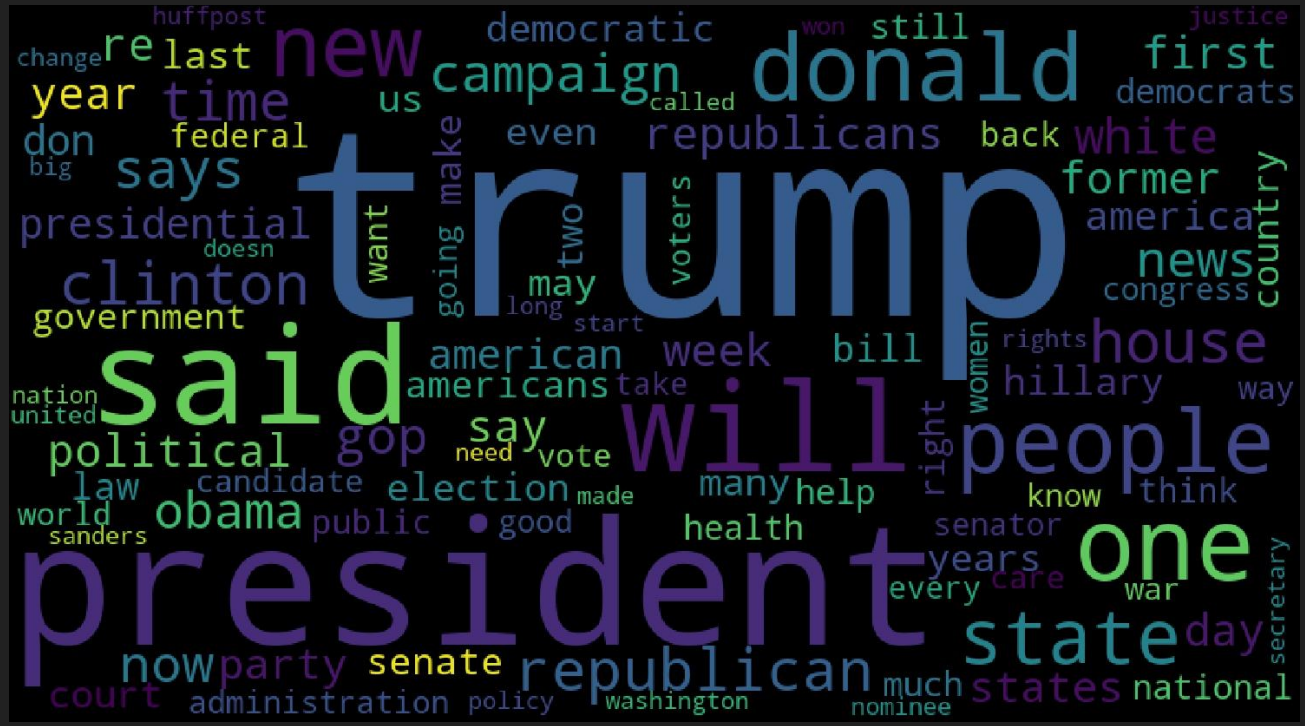
Distribution of news through time



Wordclouds, consisting of 100 most common words, (for the three most frequent categories), starting for Entertainment category of news



For Politics category



For Wellness category of news