German Political Speeches Sentiment Analysis





Table of contents

01

02

Data &

Context Analysis

Motivation &

03

Reflection





01

Motivation & Context



What led me to this project?

- Wanting to work with German
- Interest in political language

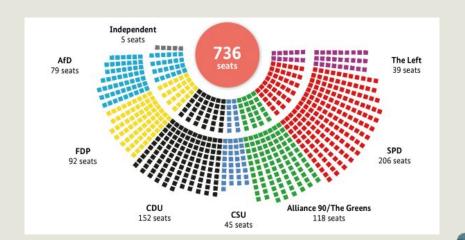






What the heck is the German political system?

 Lots of parties!(sadly not the fun kind:/)

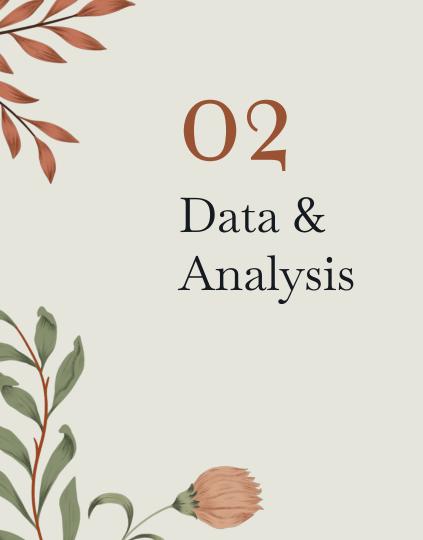






- Are there any trends across the sentiment of different parties?
- Do other factors, like gender or office, have any correlation with average sentiment score?
- How do the sentiment scores of different parties change over time?









- Found the German Political Speeches Corpus!
 - Has 6685 speeches from 71 different speakers
- Lots of value adding(had to go internet stalk a bunch of German politicians)
 - Political party
 - Gender
 - Position





Stats after cleaning & value-adding

- 6619 speeches by 71 speakers
- Spanning from 1984–2017
- Coming from 5 parties
 - Parteilos(partiless), CDU, SPD,FDP, Grünen(Greens)
- 61.28% of the speeches were made by men and 38.72% by women
- 44 positions are represented(I will not be listing them all)





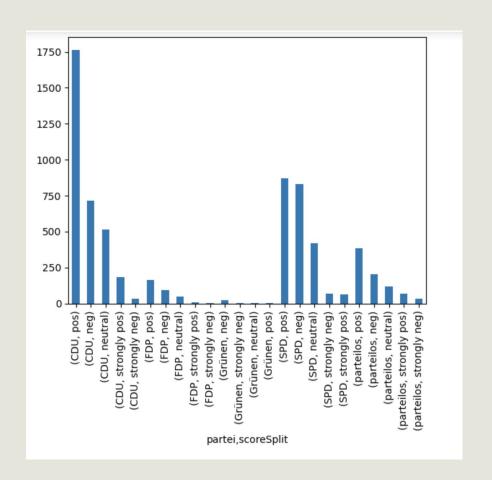
Sentiment Analysis Time!

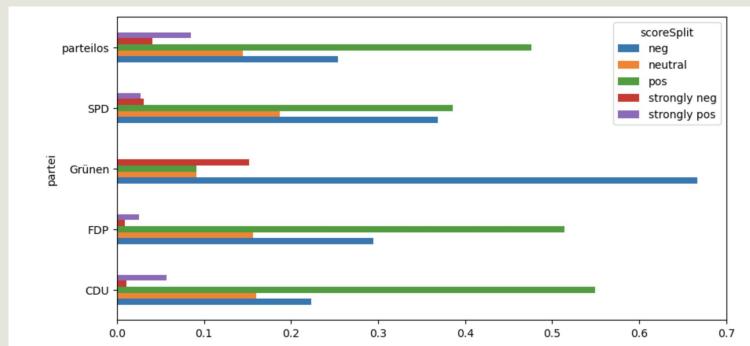
- Used SentiWS(German sentiment analysis resource)
 - Contains around 1,650 positive and 1,800 negative words, which sum up to around 16,000 positive and 18,000 negative word forms including their inflections
- Lil demo



CDU	3213
SPD	2250
parteilos	804
FDP	319
Grünen	33

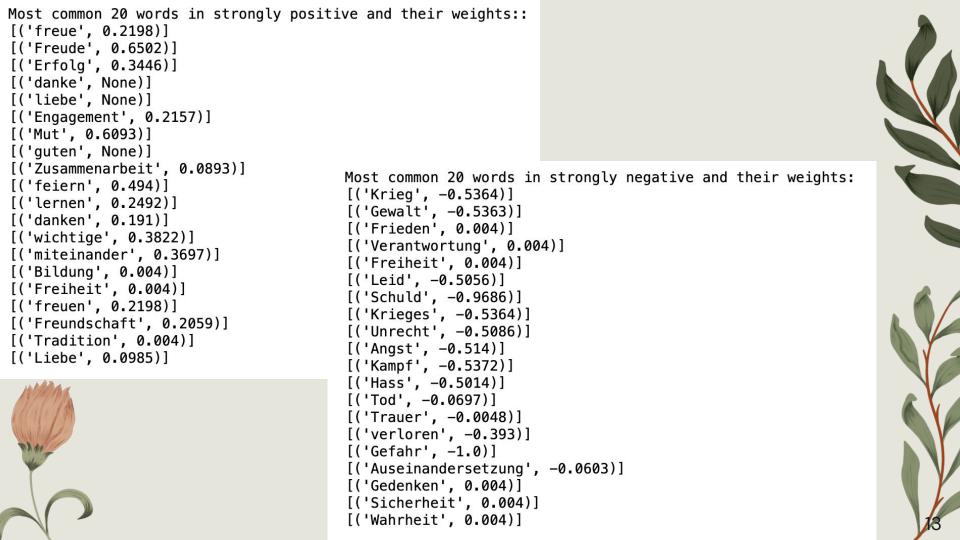








(Checked for statistical significance)





03

Reflection





Reflection

- Room for improvement
 - SentiWS number of scored words is lacking
 - Skewed data because party representation is uneven
- Possible Future Goals
 - Doing similar analysis with the party websites
 - Try another larger German sentiment analyzer



