USING NATURAL LANGUAGE PROCESSING METHODS TO ANALYZE THE EVOLUTION OF PARTY POSITIONS IN THE GERMAN BUNDESTAG

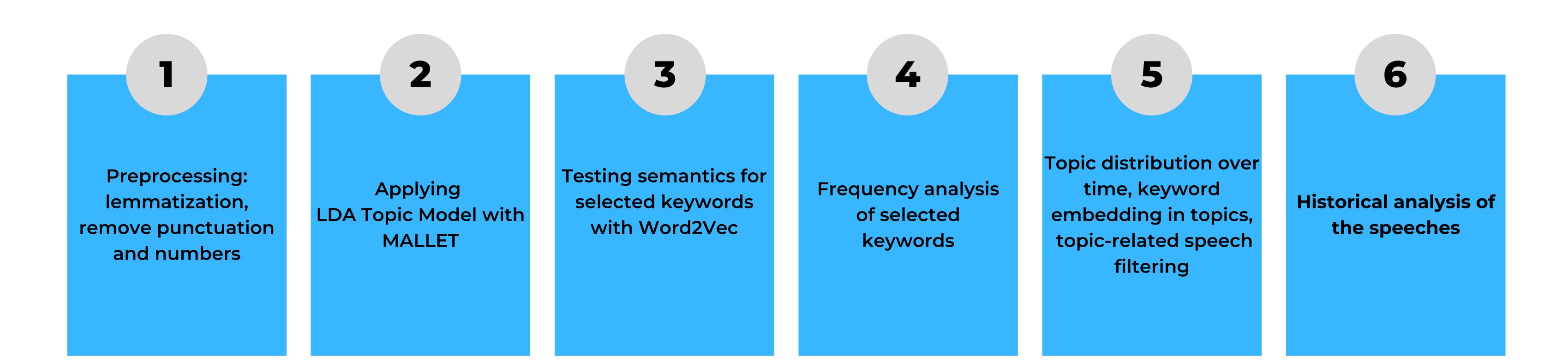
ABSTRACT

Migration has always been a politically provocative and emotionally charged issue. At the same time, it is one of the most important core political issues in recent history. This project examines how the debate in the German Bundestag has been influenced by the parties' normative positions on migration. A mixed-methods approach was used in this study. In order to get an overview of the patterns in the debates, computational methods such as term frequency analysis, LDA topic modeling and keyword embedding analysis are used. The methodological extension of historical source analysis in the digital humanities is practically demonstrated in this project.

DATA BASE

The project used the <u>Open Discourse</u> corpus data. The corpus consists of five main tables: "speeches", "factions", "politicians", "electoral term", "contributions simplified" and "contributions extended". "speeches" table contains all speeches held in parliament with meta information. 907644 observations and 12 variables.

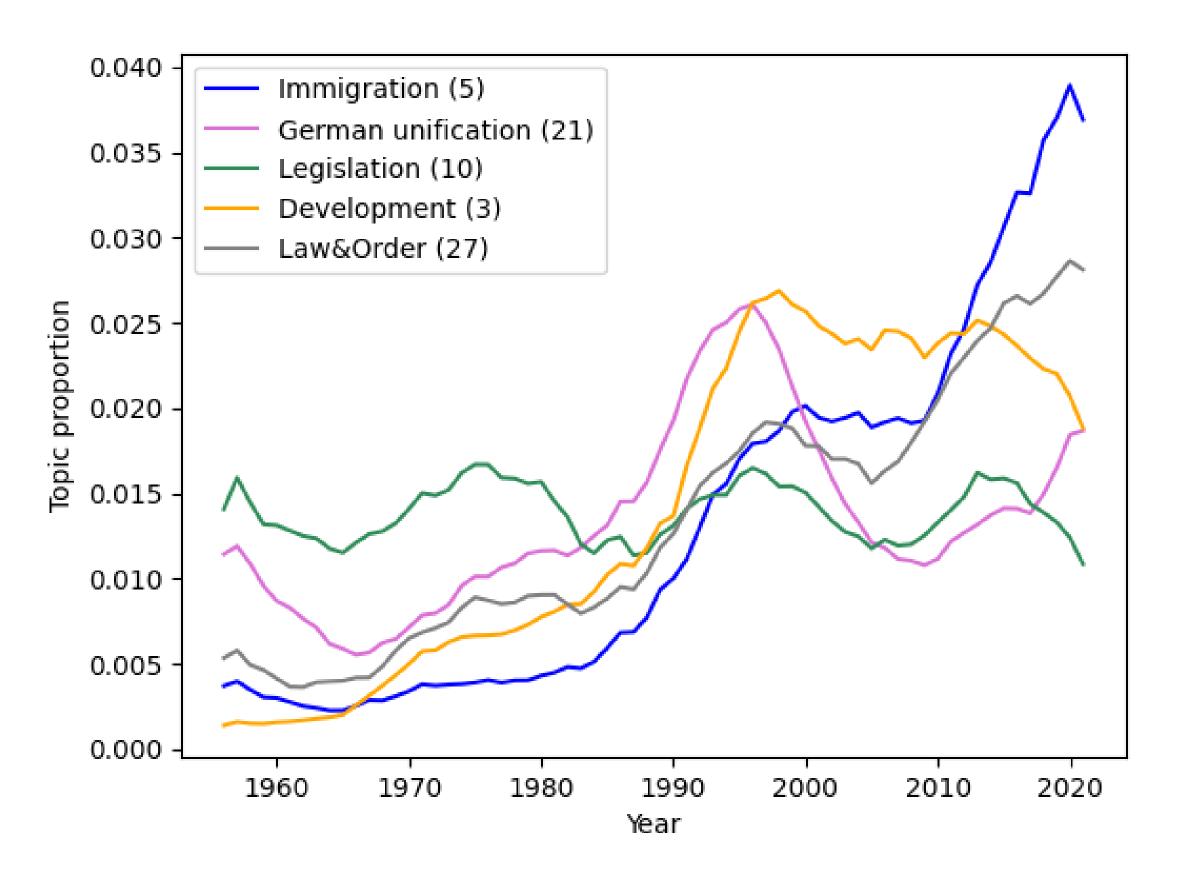
For more information see: Open Discourse Data Dump



CONCLUSION

This analysis highlights the advantages of a mixed-methods approach. It showed that migration debates in the Bundestag vary in importance through quantitative analysis. In addition, there was evidence that trends in party discourse could be approximated. The theoretically derived attitudes of the SPD and the CDU/CSU in the sources were confirmed in the first analysis. In line with previous historical research, topic modeling made it possible to visualize thematic connections in the speech content. This method opens up many possibilities for analyzing the corpus. In this study, the focus was on speeches in which the topic of migration was the most important issue. This approach proved feasible given the size of the corpus.

Output of topic distribution over time



More examples of the visualization of the results can be found on the website of the project: https://reebmaren.github.io/thesis-bundestag-debate/index.html

MAREN REEB