Visualizing Parliamentary Speeches as Networks: The DYLEN Tool

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Data

● Political discourse…
  ○ across time (1996 - 2017)
  ○ across corpora (media vs. parliamentary speeches)

● ParlAT corpus
  ○ Contains proceedings of the Austrian Parliament
  ○ 376 subcorpora, one per Member of Parliament (MP)
  ○ > 75 million tokens

● Austria Media Corpus
  ○ Contains articles of all major Austrian newspapers and magazines
  ○ > 40 million articles, 10 billion tokens

Wissik & Pirker (2018); Ransmayer et al. (2017)
Networks

- Two types of networks: Ego Networks and General Networks

- Nodes represent lexical words, links connect nodes that share similar contexts (based on pairwise similarities between embeddings)
The DYLEN Tool – Use Case

● Questions to answer:
  ○ Does the general content of MPs’ speeches remain stable, or does it change over time?
  ○ Can these dynamics also be seen via the visualization and comparison of lexical networks of single MPs?

● Subject matter: Dr. Josef Cap
  ○ MP of SPÖ (Social Democratic Party of Austria) from 1983 to 2017
  ○ 2003 in opposition, 2014 governing coalition
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More about the project | Imprint | Helpdesk
Limitations and Future Work

- Network size and performance
- Advanced filtering options
- Visualization of multidimensional data
- Data import functionality
- Keyword in context
Access the DYLEN tool:  
https://dylen-tool.acdh.oeaw.ac.at/

Check out our sister project DYSEN: 
https://dysen-tool.acdh.oeaw.ac.at/

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