

Outline

- i. Overview
- ii. Topic Modeling Approaches
- iii. Structural Topic Model (STM)
- iv. Keyword-Based Topic Extraction

Overview

Overview Topic Modeling Goal

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Topic Modeling Approaches

Approaches Fooooooo

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Structural Topic Model (STM)

STM Expert Talk



Expert Talk: STM

Patrick Schulze & Simon Wiegrebe: **Twitter in the Parliament – A Text-based Analysis of German Political Entities**

STM Exercise



Exercise 4: Analyzing Topics

Keyword-Based Topic Extraction

Keyword-Based TE Idea

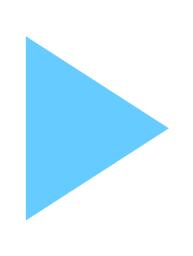
Situation:

- (Statistical) topic modeling not always producing meaningful topics
- Quite some human input required still
- Also, unsupervised approach not always appropriate
- Idea: specify keywords & find related documents

Approach:

- Specify list of keywords.
- Find similar words (both morphologically & semantically).
- Assign all documents using these words to the associated topic.

Keyword-Based TE Approach



Demo 7: Keyword-Based TE

Literature and References

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