

#### 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)** 

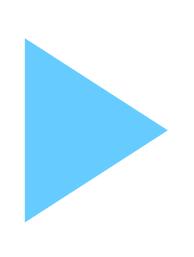
### STM Expert Talk



**Expert Talk: STM** 

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

## STM Approach



**Demo 7: STM** 

#### 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 8: Keyword-Based TE** 

**Literature and References** 

https://www.apalyticgyidhya.com/blog/2015/10/baginnar.guida.wah.comping.bagytiful

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mining and statistical analysis for non-structured text data applications, Academic Press. (text normalization