Homework 8: Topic Modeling using Latent Dirichlet Allocation

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Date: 3/19/2024

INTRODUCTION

In today's data-driven world, extracting meaningful insights from vast amounts of text data is crucial for informed decision-making. The "110" dataset, encompassing the floor debate transcripts of the 110th Congress (House only), presents a valuable opportunity to leverage advanced analytics techniques like topic modeling.

Topic modeling offers a powerful way to uncover hidden patterns and themes within large text datasets. For businesses, this translates into actionable intelligence that can drive various strategic initiatives such as:

- Policy Analysis: By identifying prevalent topics in congressional debates, policymakers can gain a comprehensive understanding of legislative priorities, enabling them to make informed decisions on policy formulation and amendment.
- Public Opinion Monitoring: Analyzing debates can provide insights into public sentiment and concerns, aiding businesses in understanding societal trends and aligning their strategies accordingly.
- Competitive Intelligence: Topic modeling can uncover key issues and discussions within specific political or demographic groups, offering businesses valuable insights into their competitors' priorities and strategies.
- Content Curation: Understanding the dominant topics in congressional debates helps in curating relevant content for stakeholders, customers, and the public, enhancing engagement and brand perception.
- Risk Management: Detecting emerging topics or controversial discussions allows businesses to proactively address potential risks and challenges, mitigating negative impacts on their operations.

ANALYSIS

Dataset

The dataset used in this analysis, referred to as "110," comprises text documents containing the floor debate of the 110th Congress, focusing on the House of Representatives. The dataset is organized into four subfolders, where "m" denotes male

speakers, "f" denotes female speakers, "d" denotes Democrats, and "r" denotes Republicans. The objective of this analysis is to gain insights into the topics discussed during the floor debates using natural language processing techniques.

```
Female Democrats:
['110_baldwin_x_wi.txt', '110_bean_x_il.txt', '110_berkley_x_nv.txt', '110_boyda_x_ks.txt', '110_brown-waite_x_fl.txt', '110_brown_x_fl.txt', '110_capps_x_ca.txt', '110_castor_x_fl.txt', '110_clarke_x_ny.txt', '110_davis_x_ca.txt']

Female Republicans:
['110_bachmann_x_mn.txt', '110_biggert_x_il.txt', '110_blackburn_x_tn.txt', '110_bono_x_ca.txt', '110_capito_x_wv.txt', '110_cubin_x_wy.txt', '110_davis_jo-ann_va.txt', '110_drake_x_va.txt', '110_emerson_x_mo.txt', '110_fallin_x_ok.txt']

Male Democrats:
['110_abercrombie_x_hi.txt', '110_ackerman_x_ny.txt', '110_allen_x_me.txt', '110_altmire_x_pa.txt', '110_andrews_x_nj.txt', '110_arcuri_x_ny.txt', '110_baca_x_ca.txt', '110_baird_x_wa.txt', '110_barrow_x_ga.txt', '110_becerra_x_ca.txt']

Male Republicans:
['110_aderholt_x_al.txt', '110_akin_x_mo.txt', '110_alexander_x_la.txt', '110_bachus_x_al.txt', '110_baker_x_la.txt', '110_barrow_x_ca.txt', '110_bishop_x_ut.txt']
```

The dataset can be found here:

https://drive.google.com/drive/folders/1hf3ALdntNIm6r-te2z8vAM26e33F0WFt

Data Preparation

The data preparation phase involved combining and cleaning the text data to create a document-term matrix (DTM) suitable for topic modeling. This process included removing irrelevant columns, special characters, and numbers, ensuring that the data is ready for analysis. The text data was vectorized using CountVectorizer() and converted to a dataframe.

Tokenize & Vectorize

```
1 | from sklearn.feature_extraction.text import CountVectorizer
  3 # create CV objects
 4 CV = CountVectorizer(input='filename', stop_words='english', encoding='latin-1')
  6 # create document term matrix
  7 dtm = CV.fit transform(master list)
  9 print(dtm[0])
  (0, 18407)
                 94
  (0, 18419)
  (0, 37175)
                 95
  (0, 7443)
                 94
  (0, 20182)
                 4
  (0, 18111)
                 4
  (0, 22696)
                 10
  (0, 22013)
                 5
1 import re
3 def clean_cols(df):
4
       # drop columns with numbers
 5
       columns_to_drop = [col for col in df.columns if any(char.isdigit() for char in col)]
 6
       df = df.drop(columns = columns_to_drop)
 7
8
       # drop columns with special characters
       pattern = '^[a-zA-Z]+$' # regex pattern to match only letters from a-z or A-Z
9
       columns_to_drop = [col for col in df.columns if not re.match(pattern, col)]
10
11
       df = df.drop(columns = columns_to_drop)
12
       # drop columns that have a length of less than 3 or more than 15
13
       columns_to_drop = [col for col in df.columns if len(col) < 3 or len(col) > 15]
14
15
       df = df.drop(columns = columns_to_drop)
16
17
       # drop columns that have three or more consecutive occurrences of the same letter
       pattern_consecutive = r'([a-zA-Z])\1\1'
18
       columns_to_drop = [col for col in df.columns if re.search(pattern_consecutive, col)]
19
       df = df.drop(columns=columns_to_drop)
20
21
       return df
22
23
24 cleaned_df = clean_cols(df)
25 display(cleaned_df)
```

a	achen	aap	aapg	aapi	aapis	aaron	aaronsen	aaronson	aarp	aarti	 zurich	zury	zvi	zweig	zwilling	zwyer	zwyers	zydeco	zygote	zyuganov
0	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0
424	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0
425	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0
426	0	0	0	0	0	0	0	0	2	0	 0	0	0	0	0	0	0	0	0	0
427	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0
428	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0

429 rows × 57065 columns

Models

The analysis utilized Latent Dirichlet Allocation (LDA) as the main modeling technique. LDA is a probabilistic topic modeling approach that identifies underlying topics within a collection of documents.

The LDA model was set to 100 max iterations and a learning method of 'online' rather than 'batch' so that words and documents were processed one at a time rather than in batches.

```
def run_LDA(df, num_topics, colnames):
    lda_model = LatentDirichletAllocation(n_components=num_topics, max_iter=100, learning_method='online')

# Start the timer
start_time = time.time()

# Fit the model with progress bar
with tqdm(total=len(df)) as pbar:
    lda_fitted = lda_model.fit_transform(df)
    pbar.update(len(df))
```

RESULTS

The LDA model was trained with varying numbers of topics (5, 10, 20, and 30) to explore different levels of granularity in topic identification. The top words representing each topic were extracted, providing insights into the main themes discussed during the floor debates.

5 Topics

Topic #0	Topic #1	Topic #2	Topic #3	Topic #4	
cornwells	simpler	simpler	truncheons	friedberg	
simpler	cornwells	cornwells	hemant	simpler	
coroners	friedberg	coroners	ix	cornwells	
friedberg	coroners	friedberg	madigan	sedan	
rightsize	naacp	1318	ah	rightsize	
sedan	europeans	rightsize	cut	coroners	
plentiful	rightsize	plentiful	lifting	plentiful	
1318	highland	sludge	bleck	handbasket	
firewalls	defines	sedan	centcom	naacp	
naacp	sludge	befalls	hydrographic	1318	
beverage	size	rumsfeld	cottoned	smutty	
handbasket	plentiful	su	beachside	bunk	
smutty	3014	lovelace	baffled	3014	
odious	testicular	incinerator	chains	bossed	
sludge	shiver	breastfeeding	badminton	incinerator	

10 Topics

Topic #0	Topic #1	Topic #2	Topic #3	Topic #4
simpler cornwells coroners friedberg 1318 sedan plentiful rightsize sludge befalls incinerator smutty lovelace madigan breastfeeding	simpler friedberg coroners comwells rightsize naacp 131.8 plentiful bunk 3014 odious rumsfeld sludge smutty sedan	friedberg simpler cornwells coroners europeans nacp nghtsize highland defines size sludge plentiful shiver 3014 testicular	simpler friedberg coroners cornwells sludge plentiful 1318 3014 naacp bunk lifting befalls firewalls sedan rumsfeld	cornwells coroners simpler rightsize friedberg nacp plentful odious firewalls sludge bagpipes handbasket 3014 beverage carrhart
Topic #5	Topic #6	Topic #7	Topic #8	Topic #9
simonson 1318 rightsize simpler coroners comwells incinerator friedberg rumsfeld sedan su sludge 3014 naacp bunk	simpler comwells coroners friedberg naccp nghtsize 1318 sludge plentiful bunk smutty 3014 sedan odious bossed	friedberg comwells simpler coroners rightsize sludge naacp 131.8 incinerator plentiful sedan 301.4 trophy smutty testicular	handbasket rightsize simpler cornwells coroners friedberg naccp testosterone SU sedan rumsfeld madigan sludge odious transparency	naacp rumsfeld su antiaircraft carrhart 3014 highland transparency rightsize simpler cornwells corneers 3011 thornhill imperfectability

20 Topics

Topic #0	Topic #1	Topic #2	Topic #3	Topic #4
coroners simpler comwells friedberg rightsize 3014 sludge bunk naacp 1318	decamped feisal erosions amolds cynthiana david ash presse heins cumbersomeness	lowenberg spews godless membr anticipatory spermatozoa shaun blink berrigan pretensions	tricare klobuchar sponsoring kama chaff emporium ilston medium revel paiute	simpler coroners naacp cornwells rightsize 1318 friedberg sedan plentiful incinerator
plentiful trona smutty highland sedan	privacy adolph technet nice jihadists	kasparian airs fates mementos bowls	gain abridging 1916 glastonbury simpler	firewalls smutty beverage 3014 sludge
Topic #5	Topic #6	Topic #7	Topic #8	Topic #9
simpler comwells coroners friedberg rightsize naacp europeans sludge plentiful defines highland size 3014 bunk testicular	coroners cornwells simpler naccp friedberg rightsize handbasket plentiful sedan sludge 3014 smutty bunk su 1318	coroners simpler cornwells friedberg 1318 rightsize sedan plentiful naccp sludge smutty bunk 3014 trona incinerator	naacp su rumsfeld rightsize transparency 3014 carrhart 3011 simpler testosterone cornwells coroneers highland handbasket exaggerate	coroners simpler cornwells friedberg rightsize 1318 sedan smutty plentiful lovejoy naacp firewalls 3014 bunk sludge
Topic #10	Topic #11	Topic #12	Topic #13	Topic #14
coroners rightsize comwells simpler friedberg naacp 3014 plentiful smutty bunk rumsfeld sedan sludge trophy sin	hammock madeline harerre appellant agronomic fertile antimatter tias hammondsport batteries connectiveness socked asu tsos resent	friedberg coroners simpler rightsize 1318 cornwells rumsfeld sedan 3014 sludge plentiful naacp smutty bunk trona	simpler coroners cornwells rightsize friedberg naacp madigan 3014 sedan plentiful sludge 1318 rumsfeld bunk smutty	cornwells simpler coroners friedberg plentiful rightsize 3014 1318 naacp smutty sludge carrhart bunk sedan lovelace
Topic #15	Topic #16	Topic #17	Topic #18	Topic #19
coroners friedberg simpler comwells sedan naacp plentiful smutty 1318 sludge 3014 rightsize incinerator madigan sin	simpler cornwells coroners friedberg 1318 rightsize sedan plentiful sludge incinerator smutty befalls tovelace madigan handbasket	coroners rightsize comwells simpler friedberg naacp sedan 1318 plentiful smutty bunk handbasket ghim sludge rumsfeld	coroners simpler cornwells friedberg rightsize naacp 1318 sedan sludge bunk plentiful madigan incinerator humane firewalls	cornwells coroners simpler rightsize friedberg 1318 naacp bunk plentiful smutty befalls madigan testicular sedan sludge

Topic #0	Topic #1	Topic #2	Topic #3	Topic #4
coroners	simpler	soothes	su	cornwells
friedberg	cornwells	gear	rumsfeld	coroners
simpler	coroners	frieze	naacp	simpler
cornwells	rightsize	odious	rightsize	rightsize
rightsize	friedberg	1937	transparency	friedberg
naacp	sludge	bourgeois	handbasket	1318
plentiful	incinerator	transitioning	preeclampsia	bunk
1318 smutty	1318 plentiful	hellenic 3011	fulfills exaggerate	sedan 3014
incinerator	madigan	astronautical	testosterone	sludge
madigan	odious	letpp	antiaircraft	naacp
sludge	trophy	nate	simpler	befalls
sedan	handbasket	doster	coroners	madigan
bunk	highland	brewers	madigan	humane
rumsfeld	naacp	saroyan	cornwells	ghim
Topic #5	Topic #6	Topic #7	Topic #8	Topic #9
friedberg	balkanizing	simpler	simpler	friedberg
simpler	masquerading	cornwells	cornwells	simpler
coroners cornwells	athleticism hendry	friedberg coroners	friedberg coroners	cornwells coroners
3014	raceptives	sludge	sedan	rightsize
rightsize	biorefining	plentiful	plentiful	naacp
sludge	jsf	3014	naacp	1318
naacp	carriers	sedan	1318	sludge
plentiful	transformative	rightsize	rightsize	trophy
sedan	allstate	naacp	incinerator	plentiful
handbasket 1318	evacuating gunpowder	1318 incinerator	madigan sludge	europeans madigan
carrhart	dave	smutty	befalls	sedan
incinerator	pffs	highland	firewalls	3014
odious	abhors	handbasket	beverage	smutty
Topic #10	Topic #11	Topic #12	Topic #13	Topic #14
lifting	coroners	cornwells	coroners	coroners
melding	friedberg	coroners	cornwells	simpler
hendry trainmen	simpler cornwells	friedberg simpler	simpler friedberg	cornwells friedberg
godlessness	naacp	rightsize	rightsize	sedan
firewalls	rightsize	3014	plentiful	rightsize
backhanded	plentiful	sludge	naacp	sludge
banc	1318	naacp	1318	plentiful
bunkhouses beverage	incinerator sludge	sedan smutty	sludge madigan	1318 rumsfeld
heterosexual	sedan	plentiful	trona	smutty
bars	handbasket	1318	smutty	incinerator
1842	smutty	bunk	3014	beverage
allstate blockade	bunk madigan	rumsfeld incinerator	firewalls rumsfeld	bunk su
biockade	madigan	incinci acoi	Tuttisicia	34
T : #35	T : "16	T : #27	T : #10	T : #10
Topic #15	Topic #16	Topic #17	Topic #18	Topic #19
cornwells	cornwells	simpler	simpler	coroners
cornwells coroners simpler	cornwells coroners friedberg	simpler coroners cornwells	simpler cornwells coroners	coroners simpler 1318
cornwells coroners simpler friedberg	cornwells coroners friedberg 1318	simpler coroners cornwells friedberg	simpler cornwells coroners rightsize	coroners simpler 1318 friedberg
cornwells coroners simpler friedberg rightsize	cornwells coroners friedberg 1318 rightsize	simpler coroners cornwells friedberg rightsize	simpler cornwells coroners rightsize friedberg	coroners simpler 1318 friedberg cornwells
cornwells coroners simpler friedberg rightsize plentiful	cornwells coroners friedberg 1318 rightsize simpler	simpler coroners cornwells friedberg rightsize naacp	simpler cornwells coroners rightsize friedberg incinerator	coroners simpler 1318 friedberg cornwells rightsize
cornwells coroners simpler friedberg rightsize	cornwells coroners friedberg 1318 rightsize simpler sludge	simpler coroners cornwells friedberg rightsize	simpler cornwells coroners rightsize friedberg incinerator 1318	coroners simpler 1318 friedberg cornwells
cornwells coroners simpler friedberg rightsize plentiful sedan 131.8 naacp	cornwells coroners friedberg 1318 rightsize simpler sludge naacp madigan	simpler coroners cornwells friedberg rightsize naccp bunk 3014 handbasket	simpler cornwells coroners rightsize friedberg incinerator 1318 sludge plentiful	coroners simpler 1318 friedberg comwells rightsize naacp plentiful sedan
cornwells coroners simpler friedberg rightsize plentiful sedan 1318 naacp sludge	cornwells coroners friedberg 1318 rightsize simpler sludge naacp madigan bunk	simpler coroners cornwells friedberg rightsize naacp bunk 3014 handbasket 1318	simpler comwells coroners rightsize friedberg incinerator 1318 sludge plentiful bunk	coroners simpler 1318 friedberg comwells rightsize naccp plentiful sedan bunk
cornwells coroners simpler friedberg rightsize plentiful sedan 1318 naacp sludge incinerator	cornwells coroners friedberg 1318 rightsize simpler sludge nacp madigan bunk sedan	simpler coroners cornwells friedberg rightsize naccp bunk 3014 handbasket 1318 plentiful	simpler comwells coroners rightsize friedberg incinerator 1318 sludge plentiful bunk lovelace	coroners simpler 1318 friedberg comwells rightsize naacp plentiful sedan bunk incinerator
cornwells coroners simpler friedberg rightsize plentiful sedan 1318 naacp sludge incinerator smutty	cornwells coroners friedberg 1318 rightsize simpler sludge naacp madigan bunk sedan smutty	simpler coroners comwells friedberg rightsize nacp bunk 3014 handbasket 1318 plentiful smutty	simpler comwells coroners rightsize friedberg incinerator 1318 sludge plentiful bunk lovelace naacp	coroners simpler 1318 friedberg comwells rightsize naacp plentiful sedan bunk incinerator 3014
cornwells coroners simpler friedberg rightsize plentiful sedan 1318 naacp sludge incinerator	cornwells coroners friedberg 1318 rightsize simpler sludge naacp madigan bunk sedan smutty incinerator plentiful	simpler coroners cornwells friedberg rightsize nacp bunk 3014 handbasket 1318 plentiful smutty sludge madigan	simpler comwells coroners rightsize friedberg incinerator 1318 sludge plentiful bunk lovelace naacp beverage carrhart	coroners simpler 1318 friedberg comwells rightsize naacp plentiful sedan bunk incinerator 3014 beverage sludge
cornwells coroners simpler friedberg rightsize plentiful sedan 1318 naacp sludge incinerator smutty 3014	cornwells coroners friedberg 1318 rightsize simpler sludge naacp madigan bunk sedan smutty incinerator	simpler coroners cornwells friedberg rightsize nacp bunk 3014 handbasket 1318 plentiful smutty sludge	simpler comwells coroners rightsize friedberg incinerator 1318 sludge plentiful bunk lovelace naacp beverage	coroners simpler 1318 friedberg comwells rightsize naacp plentiful sedan bunk incinerator 3014 beverage
cornwells coroners simpler friedberg rightsize plentiful sedan 1318 naacp sludge incinerator smutty 3014 madigan su	cornwells coroners friedberg 1318 rightsize simpler sludge naacp madigan bunk sedan smutty incinerator plentiful firewalls	simpler coroners cornwells friedberg rightsize naccp bunk 3014 handbasket 1318 plentiful smutty sludge madigan sedan	simpler comwells coroners rightsize friedberg incinerator 1318 sludge plentiful bunk lovelace naacp beverage carrhart sedan	coroners simpler 1318 friedberg comwells rightsize naacp plentiful sedan bunk incinerator 3014 beverage sludge befalls
cornwells coroners simpler friedberg rightsize plentiful sedan 131.8 naacp sludge incinerator smutty 301.4 madigan su Topic #20 simpler	cornwells coroners friedberg 1318 rightsize simpler sludge nacp madigan bunk sedan smutty incinerator plentiful firewalls	simpler coroners cornwells friedberg rightsize nacp bunk 3014 handbasket 1318 plentiful smutty sludge madigan sedan	simpler comwells coroners rightsize friedberg incinerator 1318 sludge plentiful bunk lovelace naacp beverage carrhart sedan Topic #23 cornwells	coroners simpler 1318 friedberg cornwells rightsize naacp plentiful sedan bunk incinerator 3014 beverage sludge befalls Topic #24
cornwells coroners simpler friedberg rightsize plentiful sedan 1318 naacp sludge incinerator smutty 3014 madigan su Topic #20	cornwells coroners friedberg 1318 rightsize simpler sludge naacp madigan bunk sedan smutty incinerator plentiful firewalls Topic #21 coroners cornwells	simpler coroners cornwells friedberg rightsize nacp bunk 3014 handbasket 1318 plentiful smutty sludge madigan sedan Topic #22 cornwells friedberg	simpler comwells coroners rightsize friedberg incinerator 1318 sludge plentiful bunk lovelace naacp beverage carrhart sedan Topic #23 comwells simpler	coroners simpler 1318 friedberg comwells rightsize naacp plentiful sedan bunk incinerator 3014 beverage sludge befalls Topic #24 simpler friedberg
cornwells coroners simpler friedberg rightsize plentiful sedan 131.8 naacp sludge incinerator smutty 301.4 madigan su Topic #20 simpler cornwells coroners	cornwells coroners friedberg 1318 rightsize simpler sludge naacp madigan bunk sedan smutty incinerator plentiful firewalls Topic #21 coroners cornwells friedberg	simpler coroners cornwells friedberg rightsize naacp bunk 3014 handbasket 1318 plentiful smutty sludge madigan sedan Topic #22 cornwells friedberg coroners	simpler comwells coroners rightsize friedberg incinerator 1318 sludge plentiful bunk lovelace naacp beverage carrhart sedan Topic #23 comwells simpler coroners	coroners simpler 1318 friedberg comwells rightsize naacp plentiful sedan bunk incinerator 3014 beverage sludge befalls Topic #24 simpler friedberg comwells
cornwells coroners simpler friedberg rightsize plentiful sedan 1318 naacp sludge incinerator smutty 3014 madigan su Topic #20 simpler cornwells coroners friedberg 1318	cornwells coroners friedberg 1318 rightsize simpler sludge naacp madigan bunk sedan smutty incinerator plentiful firewalls Topic #21 coroners cornwells friedberg simpler naacp	simpler coroners cornwells friedberg rightsize naacp bunk 3014 handbasket 1318 plentiful smutty sludge madigan sedan Topic #22 cornwells friedberg coroners simpler rightsize	simpler comwells coroners rightsize friedberg incinerator 1318 sludge plentiful bunk lovelace naacp beverage carrhart sedan Topic #23 cornwells simpler coroners rightsize 1318	coroners simpler 1318 friedberg comwells rightsize naacp plentiful sedan bunk incinerator 3014 beverage sludge befalls Topic #24 simpler friedberg comwells coroners 1318
cornwells coroners simpler friedberg rightsize plentiful sedan 1318 naacp sludge incinerator smutty 3014 madigan su Topic #20 simpler cornwells coroners friedberg 1318 rightsize	cornwells coroners friedberg 1318 rightsize simpler sludge naacp madigan bunk sedan smutty incinerator plentiful firewalls Topic #21 coroners cornwells friedberg simpler naacp 1318	simpler coroners comwells friedberg rightsize naacp bunk 3014 handbasket 1318 plentiful smutty sludge madigan sedan Topic #22 cornwells friedberg coroners simpler rightsize 1318	simpler comwells coroners rightsize friedberg incinerator 1318 sludge plentiful bunk lovelace naacp beverage carrhart sedan Topic #23 comwells simpler coroners rightsize 1318 plentiful	coroners simpler 1318 friedberg comwells rightsize naacp plentiful sedan bunk incinerator 3014 beverage sludge befalls Topic #24 simpler friedberg comwells coroners 1318 plentiful
cornwells coroners simpler friedberg rightsize plentiful sedan 1318 naacp sludge incinerator smutty 3014 madigan su Topic #20 simpler cornwells coroners friedberg 1318 rightsize plentiful	cornwells coroners friedberg 1318 rightsize simpler sludge naacp madigan bunk sedan smutty incinerator plentiful firewalls Topic #21 coroners cornwells friedberg simpler naacp 1318 3014	simpler coroners cornwells friedberg rightsize naacp bunk 3014 handbasket 1318 plentiful smutty sludge madigan sedan Topic #22 cornwells friedberg coroners simpler rightsize 1318 handbasket	simpler comwells coroners rightsize friedberg incinerator 1318 sludge plentiful bunk lovelace naacp beverage carrhart sedan Topic #23 cornwells simpler coroners rightsize 1318 plentiful friedberg	coroners simpler 1318 friedberg comwells rightsize naacp plentiful sedan bunk incinerator 3014 beverage sludge befalls Topic #24 simpler friedberg comwells coroners 1318 plentiful incinerator
cornwells coroners simpler friedberg rightsize plentiful sedan 1318 naacp sludge incinerator smutty 3014 madigan su Topic #20 simpler cornwells coroners friedberg 1318 rightsize plentiful sedan	cornwells coroners friedberg 1318 rightsize simpler sludge naacp madigan bunk sedan smutty incinerator plentiful firewalls Topic #21 coroners cornwells friedberg simpler naacp 1318	simpler coroners comwells friedberg rightsize naacp bunk 3014 handbasket 1318 plentiful smutty sludge madigan sedan Topic #22 cornwells friedberg coroners simpler rightsize 1318 handbasket 3014	simpler comwells coroners rightsize friedberg incinerator 1318 sludge plentiful bunk lovelace naacp beverage carrhart sedan Topic #23 comwells simpler coroners rightsize 1318 plentiful	coroners simpler 1318 friedberg comwells rightsize naacp plentiful sedan bunk incinerator 3014 beverage sludge befalls Topic #24 simpler friedberg comwells coroners 1318 plentiful incinerator rightsize
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CONCLUSIONS

The analysis of the 110th Congress floor debate dataset using topic modeling techniques has yielded significant insights:

- Identified Topics: The analysis successfully identified and categorized topics discussed during the congressional debates, providing a structured view of the key themes and issues addressed.
- Trends and Priorities: The identified topics shed light on the legislative priorities and societal trends during the 110th Congress, offering valuable historical context for policymakers and researchers.
- Public Perception: By understanding the prevalent topics and discussions, businesses and policymakers can gauge public sentiment and concerns, aiding in decision-making and policy formulation.
- Strategic Implications: The insights gained from topic modeling have strategic implications for various sectors, including policy development, public relations, risk management, and content strategy.

In conclusion, leveraging advanced analytics techniques like topic modeling on textual data sets such as the "110" dataset provides a robust framework for understanding complex narratives, uncovering hidden insights, and driving informed decision-making across diverse domains.