## **Online Appendix**

### Government websites as data:

# A methodological pipeline with application to the websites of municipalities in the United States

November 16, 2020

#### **Abstract**

A local government's website is an important source of information about policy priorities, procedures, and debates. Existing research on government websites has relied on manual methods of website content collection and processing, limiting the scale and scope of website content analysis. In this research note, we propose that the automated collection of website content from large samples of government websites can can compliment more targeted manual methods, and offer contributions through comparative analyses. We also provide software to ease the use of this data collection method. In our application, we collect a new and innovative dataset—the websites of over two hundred municipal governments in the United States—to study how website content is associated with mayoral partisanship. Using topic modeling methods, we find that cities with Democratic mayors provide more information on policy deliberation and crime control, whereas Republicans prioritize basic utilities and services such as water, electricity, and fire safety.

#### 1 Overview

In this online appendix we include supporting information about our data, the data collection process, and some additional analyses. In the first section, we present additional details on data collection, along with some additional descriptive statistics. In the second section, we provide additional details on, and results from, our topic modeling analysis.

#### 2 Data collection methods and sources

We acquired the municipal website URLs from two sources: One, we scraped the URLs of city websites from their respective Wikipedia pages, which we found from lists of cities contained

within each state. Two, the General Services Administration (GSA) maintains all '.gov' addresses, and provides a complete list of all such domains to the public.¹ The data from the GSA contains the following variables: (1) domain name, specifically, the all-uppercase version of domain and top-level domain (for example, 'ABERDEENMD.GOV'); (2) the type of government entity to which the domain is registered, such as city, county, federal agency, etc; (3) for federal agencies, the name is specified; (4) the city in which the domain is registered. Naturally, the GSA's list does not contain cities which do not use a '.gov' website (or, in many cases, a city owns a registered '.gov' address, but uses a different one). Furthermore, some of the links are non-functional, and some of the county websites on the list are incorrectly marked as city websites (and vice versa). Since the GSA data is less complete and less reliable than the URLs found on Wikipedia, we mainly rely on the latter and only supplement them with the GSA data if a specific city doesn't have a URL recorded on Wikipedia, or our tests (see below) find it to be non-functional.

Not all of the URLs contained in these archives are functional. To test the URLs' functionality, we use a web driver-controlled browser - a browser that is automatically controlled by a program rather than a human user. We use the Python bindings for the program Selenium, which we use to control Firefox through the web driver Geckodriver. This is advantageous compared to conventional scraping tools such as Beautiful Soup or Rvest because most websites are designed to be explored by browsers. Modern browsers perform a lot of actions behind the scenes, such as URL resolution and redirection. The use of a web driver-controlled browser is necessary in our case because a) some city websites simply don't work, but they don't always output an error code correctly (this can fail, for example, if a webmaster simply stops maintaining a site without removing it entirely) which would throw off an automatic scraper, and more often, b) cities sometimes change their websites' URLs, in which case they redirect from the old to the new URL. A web driver-controlled browser, unlike the more rigid conventional scraping tools, will simply

<sup>&</sup>lt;sup>1</sup>The dataset is made available at https://github.com/GSA/data/tree/gh-pages/dotgov-domains. This list is updated once per month—we rely on the version released on January 16, 2017.

follow this redirection. This allows us to subsequently record and use the new URL for the actual website scraping. Consequently, an automated browser allows us to robustly answer the following questions: Is the website actually there? Does it work? If not, is it somewhere else or is it broken? We record this information and construct a list of verified URLs.

To download the websites, we rely on the Unix command line tool wget.<sup>2</sup> This program is used to download files from the Internet, and with the use of a recursive option, acts like a web crawler and scraper. This means that wget downloads HTML files, parses them and then follows the links contained therein. Then it follows those links and repeats the process until it has constructed a complete tree of the website (note that the program is instructed to stay on the same domain, i.e. it does not follow external links). This way, all the files that make up a website are downloaded. For some cities, whose websites make heavy use of JavaScript to serve content dynamically, such content is not reachable with our methodology and would require additional steps to obtain. For this paper, we ignore such sites and restricted our corpus to cities with at least three successfully downloaded pages.<sup>3</sup>

The partisanship of the mayor of each city is coded in different ways, depending on the state.

<sup>&</sup>lt;sup>2</sup>An alternative source of web data which has attained some popularity within the digital humanities is the Internet Archive's Wayback Machine (https://archive.org/), which preserves snapshots of websites over time. In theory, this would be very useful to projects such as ours, since it would allow us to measure the evolution of websites over time, in response to changes in city executives. However, the Wayback Machine suffers from some limitations that, in our eyes, inhibit its usefulness for scientific research in general, and our project in particular. First of all, the Internet Archive does not conduct all of its web crawling itself. Rather, third parties donate their crawling data to the Internet Archive. This means that the source of the data varies and the crawling process often remains opaque, which is a problem with respect to scientific transparency. Second, this also means that the crawling isn't done in regular intervals unless the website in question is extremely prominent. Our research is focused on municipal websites, many of which are fairly obscure, preventing the Wayback Machine from being useful to us. For example, as of the time of writing, the website of Attica, IN, has only been crawled 25 times since the Wayback Machine's inception in 1996 (and in this case, all of these crawls are from 2014 on). By contrast, the website of New York City has been crawled over 7,000 times. Third, webcrawls are not instant and are not always done on an entire website at the same time. This means that for example, a website's frontpage might have been scraped one day, and its page on the city's mayor only a month later – within the same crawl. Once again, this problem is exacerbated for small, less prominent websites. While we appreciate the Internet Archive's efforts to preserve snapshots of the web and recommend its API to practitioners who can work around the limitations outlined here, these problems preclude its usefulness for our purposes.

<sup>&</sup>lt;sup>3</sup>There is a possibility that this leads to a small bias in selecting against cities with the resources to build more elaborate websites. However, given that our sample is generally more on the wealthy side, this, if anything, should lead to a more balanced sample.

For Indiana, where elections are nominally partisan, this information is accessible through the state government's website<sup>4</sup>. For Louisiana, we received data on the outcomes of mayoral elections from the Local Elections in America Project (LEAP) (Marschall and Shah 2013). For the other states, where mayoral elections are not nominally partisan (but the partisanship of the mayor is still well-known), we employed different means: For New York and Washington, we searched the state campaign finance websites, and coded the parties of the candidates based on the party committees from which they received donations. For California and Texas, where our data consists of highly populated cities, partisanship information was acquired from Ballotpedia<sup>5</sup>. Finally, we also scraped mayoral partisanship from the cities' Wikipedia pages. When compared to the other data sources above, (and manual searches in case of conflicts) Wikipedia proved to be very reliable and added additional cases to our dataset even for Indiana and Louisiana. Generally speaking, we found data scraped from Wikipedia, aided by manual corrections in case of missing or conflicting data, to be more reliable than data from governmental sources.<sup>6</sup>

Information on other covariates (population and median household income - from the American Community Survey 5-Year Data (2015)) was acquired through the API of the U.S. Census Bureau<sup>7</sup>.

Tables 1 and 2 provide additional information about the data collected for this project. In Table 1, we present the state-by-state breakdown of the mayoral partisanship of the cities collected in the respective state. In Table 2, we present the distribution of file extensions before and after processing.

<sup>&</sup>lt;sup>4</sup>http://www.in.gov/apps/sos/election/general/general2015?page=office&countyID=1&officeID=32&districtID=-1&candidate=

<sup>&</sup>lt;sup>5</sup>https://ballotpedia.org/List\_of\_current\_mayors\_of\_the\_top\_100\_cities\_in\_the\_United\_States

<sup>&</sup>lt;sup>6</sup>In Indiana, the data includes only cities - incorporated municipalities with at least 2,000 inhabitants - as opposed to towns.

<sup>&</sup>lt;sup>7</sup>https://www.census.gov/data/developers/data-sets.html

State	Democratic	Republican
California	9	6
Indiana	46	54
Louisiana	28	17
New York	36	16
Texas	2	7
Washington	11	2

Table 1: Descriptive statistics on the partisanship of the cities in the corpus.

Filetype	Occurances Before	Occurances After
html	211682	887362
pdf	464842	638802
jpg	0	36958
xml	0	29638
Other	162681	9475
ics	435	8950
png	0	8863
doc	6972	8430
txt	317	6025
	793990	5234
docx	3137	4319
TOTAL	1644056	1644056

Table 2: Number of files per type, before and after detecing them via their magic number. The table shows that a lot of files originally have the wrong type, and that converting them correctly has a large impact on how many of them end up being usable.

## 3 Supplemental Informational on Topic Modeling Application

The structural topic model is implemented in the R package STM (Roberts et al. 2018). We use 60 topics—the number recommended by the authors<sup>8</sup> for medium- to large-sized corpora.<sup>9</sup> We use four covariates: First, *party*, to estimate the difference in topic prevalence based on whether mayors are Republican or Democratic. Second, *city population*, which the literature frequently emphasizes

 $<sup>^{8}</sup>$ For this recommendation, see the documentation for the function stm() in version 1.3.0 of the R package stm (Roberts et al. 2018).

<sup>&</sup>lt;sup>9</sup>Since our corpus is at the larger end of that spectrum, we also estimated a model with 120 topics, but found no notable differences.

as a determinant of the issues a city faces (see, for example, Guillamón et al. (2013)). Third, we control for wealth by relying on *median income* as a covariate, which we use as a proxy for the tax base in a city. Fourth and finally, we include state dummy variables, which should account for language that is associated with state-specific issues, and general background variables that vary across states.<sup>10</sup>

#### 3.1 Supplemental results

In Table 3, we present topic results from an STM, and mayoral party effect, estimated on data processed using a minimal HTML parser, implemented as the 'KeepEvertything' algorithm in the boilerpipeR package. An illustration of the content removed by the full boilerpipe procedure is given by Topic 56. This is the fourth-most Republican topic, and is a website boilerplate topic, with top words 'click', 'reserved', 'trademark', 'password', 'search', and 'connected'. As further illustration, the second-most Democratic topic is another website boilerplate topic, with top words 'sitemap', 'clerk', 'calendar', 'online', 'bureau', and 'alert'. We do not see any clear boilerplate topics when using data processed using boilerpipe.

In Tables 4 and 5, we present results of the STM with 120 topics organized according to the effect of mayoral partisanship on topic prevalence. The partisan themes in the 120-topic STM mirror those in the 60-topic model, with cities led by Democratic mayors focused disproportionately on finances (e.g., Topics 75, 71, 61) and social problems (e.g., Topics 93, 101, 39, 52), and cities led by Republican mayors focused disproportionately on basic services and utilities (e.g., Topics 114, 11, 86, 116).

In Tables 6 and 7, we present the topics ordered according to the effects of median income and population, respectively. Considering income-based variation in topics, there are several top-

<sup>&</sup>lt;sup>10</sup>The "Fightin' Words" methodology developed by Monroe et al. (2008) could also be used to analyze word-frequency differences between cities based on mayors' partisanship, but we elected to use the structural topic model since, unlike "Fightin' Words", the structural topic model enables us to adjust for several other features through multiple regression.

ics prevalent in more wealthy cities that focus on initiatives that go well-beyond standard city services—downtown and building revitalization (Topics 39 and 12), renewable energy (Topic 20), bike/pedestrian-oriented development (Topic 60), wildlife conservation (Topic 3). Such topics cannot be found among those that are more prevalent in less wealthy cities. When it comes to population, more populous cities deal disproportionately with issues related to public health (Topics 2 and 11), crime (Topic 59), homelessness (Topic 52), and diversity (Topic 6).

In Figure 1, we present a quantitative assessment of relative topic quality for our main model, using two metrics, semantic coherence and exclusivity. Semantic coherence (Mimno et al. 2011) describes the extent to which the 10 top words in a topic model belong to the same underlying concept. Exclusivity (Bischof and Airoldi 2012; Roberts et al. 2014) measures whether the top 10 words in one topic feature primarily in this topic, rather than being dispersed across a range of topics. As coherence tends to be outright better in models with fewer topics, the comparison with exclusivity creates a trade-off. Figure 1 shows that the model performs well in this regard, as most topics have both high coherence and exclusivity. Even topic 11, which does worst in terms of coherence, looks like a good topic upon manual inspection, as its top words all pertain to obesity.

#### References

Bischof, J. and E. Airoldi (2012). Summarizing topical content with word frequency and exclusivity. *Proceedings of the 29th International Conference on Machine Learning, ICML 2012 1.* 

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Marschall, M. and P. Shah (2013). Local elections in america project. *Center for Local Elections in American Politics. Kinder Institute for Urban Research, Rice University.* (Database).

Mimno, D., H. M. Wallach, E. Talley, M. Leenders, and A. McCallum (2011). Optimizing seman-

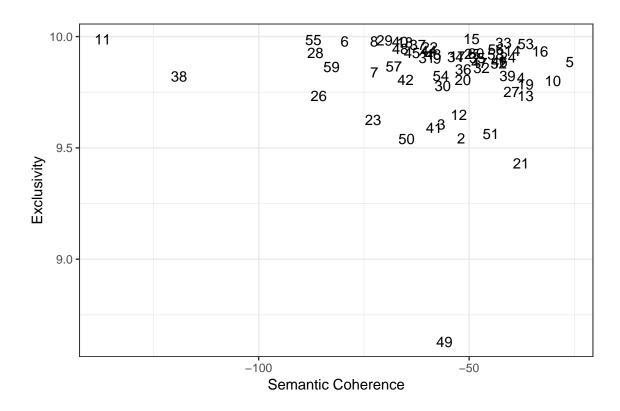


Figure 1: Semantic coherence and exclusivity for each of the 60 topics in our main structural topic model. Coherence describes the extent to which the 10 top words in a topic model belong to the same underlying concept. Exclusivity measures whether the top words in one topic feature primarily in this topic, rather than being dispersed across a range of topics. The model performs well in this trade-off, as both coherence and exclusivity are high for most topics.

- tic coherence in topic models. *Proceedings of the 2011 Conference on Empirical Methods in Natural Language Processing* (2), 262–272.
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#	Top Word 1	Top Word 2	Top Word 3	Top Word 4	Top Word 5	Top Word 6	Tokens assigned
30	riverfront	department	authority	transit	police	enjoy	212
55	posted	dream	celebration	broadcast	ballpark	football	544 📥
5	trust	revocable	leisure	learn	mfr	living	327
56	click	reserved	trademark	password	search	connected	387
49	chair	agenda	subcommittee	briefing	presentation	committee	416
47	motion	second	adjourn	carry	whiting	unanimous	451
51	storm	drain	sanitary	water	sewer	infiltration	391
43	article	subsection	shall	provision	chapter	unlawful	467
2	virus	tuberculosis	infection	influenza	hepatitis	cannabis	2555
1	councilman	whereas	alderman	resolved	yea	resolution	576
59	subcontractor	proposer	bidder	bid	consultant	subcontract	508
33	eff	inf	effluent	ether	batch	isomer	1240
54	dwelling	alteration	plumbing	canceled	plumb	mechanical	311
12	think	something	somebody	appreciate	seem	everything	2911
21	artist	ceremony	jazz	celebrate	prize	yoga	3326
11	disaster	evacuation	marshal	apparatus	tornado	aircraft	1174
4	craftsman	architecture	facade	distinctive	architectural	historic	1634
34	contributor	filer	officeholder	political	payee	candidate	272
17	assessor	informal	taxpayer	doc	viewing	determination	442
18	setback	variance	plat	height	thence	frontage	472
19	findings	tank	carcinogen	string	qty	yon	247
3	vend	meat	utensil	towel	fat	cheese	2791
38	application	applicant	must	copy	tenant	mail	390
60	wetland	shoreline	vernal	riparian	habitat	marsh	1986
26 7	student obesity	teacher	classroom	beech drink	academic sensible	doe ounce	832 98
20	•	sugary	epidemic				
31	garland credit	invoice docket	assoc bbl	rouge	baton month	vendor	524
				agent		app	61
40	slideshow	arrow	printer	stumble	blogger	google	189
8	deductible	outpatient	prescription	coinsurance	copay	inpatient	809
41	playground	park	tennis	picnic	viewpoint	ravine	405
45	taxable	res	deed	value	homestead	star	106
36	thickness	fitting	conduit	conductor	ductile	trench	1756
22	noise	mitigation	impact	significant	adverse	sensitive	346
35	householder	universe	margin	poverty	race	census	251
15	imp	amt	micron	rend	land	sustain	117
16	dist	applied	col	occupancy	monoxide	valuation	123
58	pickup	bag	recyclable	bin	landfill	curbside	651
46	contracted	medicare	allocation	subtotal	unencumbered	payroll	236
14	perm	queue	delay	peak	adj	volume	232
39	successor	franchisee	covenant	redemption	bankruptcy	obligation	678
44	prune	circumference	tree	planting	shrub	root	1798
23	tax	increment	deduction	abatement	assessed	levy	397
6	fugitive	exhaust	renewable	bio	emission	coal	859
57	savings	costs	capital	ltd	improvement	excise	172
27	density	mixed	planned	infill	orient	retail	365
52	bicycle	pedestrian	bike	route	bus	curb	572
48	actuarial	asset	governmental	assets	investment	debt	342
37	supervisor	technician	aide	incumbent	employee	trainee	758
32	introduced	absent	councilor	preside	digest	legislator	615
28	persona	para	sin	ante	junta	combo	2376
24	audit	procedure	effectiveness	ensure	software	timely	497
42	budget	endorse	revenue	endorsed	balance	expenditure	232
13	homeless	affordable	affordability	housing	supportive	homelessness	380
10	impound	taxicab	license	cat	dog	neuter	700
9	strategy	stakeholder	focus	goal	engagement	outreach	732
25	profile	executive	bend	sustainability	cleanup	rates	110
53	theft	burglary	fwy	aggravated	aggravate	robbery	253
29	sitemap	clerk	calendar	online	bureau	alert	124
50	arrest	complainant	allegation	shooting	homicide	victim	1665
		1		10			

Table 3: Top words from a structural topic model with 60 topics and FREX scoring, with data processed using a minimal HTML parser. Colors depict partisanship based on coefficient size. White cells are non-significant topics.

#	Top Word 1	Top Word 2	Top Word 3	Top Word 4	Top Word 5	Top Word 6	Tokens assigned
96	subcommittee	agenda	forum	speaker	item	adjournment	217
49	prize	celebration	ceremony	parade	follower	favorite	2043
102	motion	second	adjourn	unanimous	carry	whiting	207
73	legislator	player	football	leg	town	stadium	695
95	online	email	website	browser	contact	server	351
70	election	ballot	lobbyist	voter	candidate	campaign	407
74	tentative	conditional	approval	grading	attachment	deviation	177
79	snow	remember	plow	lock	scam	sure	888
28	craftsman	revival	historic	gabled	bungalow	historical	882
114	park	playground	recreation	picnic	mesa	trail	235
11	tuberculosis	infection	hepatitis	overdose	influenza	vaccine	1515
21	think	something	want	thing	talk	everybody	1155
86	sewer	sanitary	water	pipeline	drinking	wastewater	176
59	fort	worth	plot	tad	falls	demo	192
20	subsection	licensee	article	chapter	sec	shall	214
47	inf	micron	effluent	eff	sludge	isomer	591
62	bid	buyer	seller	bidder	price	quote	357
48	contributor	instruction	filer	political	officeholder	payee	79
46 04	provisions	subcontractor	surety	rev	bidder	supplementary	232
27	breach	franchisee	hereunder	agreement	remedy	agree	213
12	youth	camp	teach	teen	lesson	yoga	722
23	dog	rabies	euthanasia	euthanized	pet		1710
25 35	-	revocable	mfr			spay	
33 16	trust		mir null	apportionment	living	assn fire	
	emergency	preparedness		dispatch	rescue		
80	energy	efficiency	customer	saving	rebate	renewable	382
13	proud	leadership	honor	pleased	grateful	passion	1168
18	garland	invoice	assoc	check	firefighter	association	152
81	page	last	sub	update	prime	award	17
2	mosquito	insecticide	spray	bait	repellent	pesticide	997
20	project	improvement	funding	justification	completion	acquisition	47 I
.05	thence	plat	easement	annexation	pud	westerly	255
18	comment	concern	suggest	clarify	suggestion	dear	307
34	library	campus	doe	branch	center	arena	208
40	portfolio	treasury	investment	maturity	yield	liquidity	250
15	masonry	plaster	joist	stud	sheathing	ceiling	875
53	department	authority	dpt	correction	citywide	transit	109
3	vend	utensil	meat	fat	cheese	salad	1325
8	assessor	taxpayer	determination	informal	petition	notification	39
58	recycling	bag	garbage	recycle	recyclable	recyclables	318
87	sign	billboard	pole	speeding	illuminate	banner	472
31	student	elementary	school	college	graduate	academic	233
32	dwelling	alteration	plumbing	plumb	canceled	mechanical	143
51	combustible	vent	piping	conductor	duct	flammable	517
91	app	credit	download	post	issued	agent	57 1
66	wetland	vernal	riparian	habitat	specie	species	1040
44	findings	string	tank	carcinogen	qty	lust	128
42	contamination	spill	remediation	groundwater	asbestos	hazardous	343
99	prep	batch	qualifier	analytical	surrogate	sample	313
84	airport	facility	aviation	maintenance	operation	aircraft	150
19	accessory	height	dwell	frontage	setback	subsection	218
6	householder	poverty	disability	married	husband	universe	93
98	obesity		epidemic	soda	sensible	drink	65
98 33	•	sugary			boulevard		98
	avenue	street	west	east		south	
10	deductible	copay	prescription	coinsurance	outpatient	inpatient	488
50	ductile	trench	pipe	manhole	coupling	compaction	705
17	margin	error	occupied	race	occupy	islander	79
5	earthquake	flood	floodplain	flooding	landslide	fault	723
76	variance	setback	yard	exception	fence	front	94
16	business	marijuana	cannabis	manufacturing	industry	collective	319
.08	fugitive	bio	exhaust	unmitigated	noise	receptor	262

Table 4: Top words from a structural topic model with 120 topics (first 60 topics displayed here) and FREX scoring. Colors depict partisanship based on coefficient size. White cells are non-significant topics.

Jahor   Jaho		T 337 1.1	T W 10	T W 12	TD 337 1.4	TD 337 1.5	T W 16	TT 1	
discharge pollutant inspection inspect pollution inspector 109 curb curb pavement sidewalk ramp gutter asphalt 390 curb pavement sidewalk ramp gutter asphalt 390 curb darft update process review staff progress 67 curb pavement sidewalk ramp gutter asphalt 390 curb darft update process review staff progress 67 curb darft update process and process darft update undistributed industrial 107 curb darft update process review staff progress 67 curb darft update progress 67 curb darft update process progress 67 curb darft update progress 67 curb darft update process progress 67 curb darft update progress 67 curb darft update progress 67 curb darft update process progress 67 curb darft update process 19 curb darft update progress 67 curb darft update process 19 curb darft update 19 curb darft update process 19 curb darft	#	Top Word 1	Top Word 2	Top Word 3	Top Word 4	Top Word 5	Top Word 6		assigned
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24   landlord   tenant   renewal   rent   clease   contract   firm   subcontinator   179   subcontinator   170   subcontinator   1	77	curb	pavement	sidewalk	ramp	gutter	asphalt	390	
consultant   proposer   procurement   contract   firm   subcontractor   179   taxable   res   deed   value   homestead   star   41   1   1   1   1   1   1   1   1	65	draft	update	process	review	staff	progress	67	1
consultant   proposer   procurement   contract   firm   subcontractor   179   taxable   res   deed   value   homestead   star   41   1   1   1   1   1   1   1   1	24	landlord	tenant	renewal	rent	lease	expired	255	
Blanket   medicare   payroll   premium   undistributed   res   deed   value   homestead   star   41   15   18   19   19   19   19   19   19   19							•		
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Table 5: Top words from a structural topic model with 120 topics (second 60 topics displayed here) and FREX scoring. Colors depict partisanship based on coefficient size. White cells are non-significant topics.

#	Top Word 1	Top Word 2	Top Word 3	Top Word 4	Top Word 5	Top Word 6		Tokens assigned
46	chair	subcommittee	speaker	agenda	committee	commission	446	_
19	setback	variance	zoning	height	yard	accessory	453	_
5	draft	comment	review	revision	clarify	process	356	_
58	budget	revenue	adopted	balance	transfer	expenditure	176	•
39	downtown	mixed	retail	waterfront	orient	density	419	_
50	trench	manhole	ductile	excavation	pipe	grout	1436	
9	trust	revocable	planned	mfr	apportionment	exhibit	361	-
1	absent	preside	authorize	ordained	int	tag	377	-
4	audit	auditor	procedure	timely	implemented	oversight	472	_
25	mitigation	impact	significant	adverse	environmental	measure	217	•
45	governmental	asset	actuarial	liability	financial	statement	235	•
47	effluent	inf	eff	infiltration	discharge	sludge	751	
12	craftsman	architecture	brick	distinctive	revival	storefront	1731	
10	grievance	deductible	coinsurance	dependent	employee	copay	583	_
36	respondent	compare	figure	trend	appendix	satisfied	696	
20	customer	renewable	efficiency	energy	saving	conservation	652	_
48	contributor	filer	officeholder	political	rouge	payee	293	-
56	savings	neighborhood	village	excise	ltd	matrix	131	7
60	bicycle	bike	pedestrian	route	sidewalk	bicyclist	561	_
3	wetland			vernal		•	2293	
28		specie	species association		ecological duke	riparian	480	
	garland	assoc	flammable	firefighter		xerox		
51	vent	combustible		egress	ceiling	extinguisher	1160	
43	medicare	payroll	blanket	contractual	undistributed	dept	322	_
52	homeless	homelessness	affordable	supportive	housing	affordability	394	
31	student	teacher	preschool	academic	kindergarten	youth	855	_
22	allocation	subtotal	admin	cost	yon	allocate	190	•
32	canceled	dwelling	suite	ave	tad	alteration	491	_
29	margin	error	disability	speak	employed	language	180	•
7	fugitive	bio	emission	coal	unmitigated	exhaust	773	
11	obesity	sugary	epidemic	drink	calorie	sensible	96	1
34	playground	recreation	picnic	park	restroom	Z00	546	_
40	amt	invoice	acct	exp	unencumbered	encumbrance	116	•
53	applied	col	dist	occupancy	monoxide	valuation	128	•
18	perm	queue	delay	peak	adj	flt	187	•
55	taxable	deed	res	homestead	value	book	87	I .
6	race	householder	islander	census	occupied	female	160	•
24	mail	fax	application	click	applicant	copy	367	
8	imp	assessor	taxpayer	petition	preliminary	determination	91	1
17	portfolio	micron	maturity	treasury	yield	investment	538	
35	redemption	bond	increment	obligation	proceeds	lease	339	
38	para	persona	horas	bud	contracted	ante	1334	
44	findings	tank	string	carcinogen	lust	sic	255	•
30	subcontractor	bid	bidder	proposer	subcontract	bidding	512	_
27	article	subsection	shall	franchisee	paragraph	meaning	658	
15	credit	docket	app	post	download	month	61	1
37	endorsed	endorse	rescue	assistant	analyst	technician	355	_
14	accomplishment	grantee	narrative	outcome	grant	recipient	255	•
54	license	licensee	citation	tow	fee	taxicab	710	
13	initiative	outreach	strategy	leadership	engagement	focus	502	_
33	thence	east	south	corner	west	avenue	340	_
42	incumbent	prep	batch	qualifier	analytical	examination	1091	_
57	councilman	introduced	alderman	whereas	resolved	councilwoman	615	_
23	bag	recyclable	recyclables	reusable	vegetable	bait	2254	
2	influenza	infection	vaccine	patient	tuberculosis	hepatitis	2980	
21	everybody	think	something	thing	try	want	2609	
26	mesa	canyon	via	odd	unidentified	paradise	1886	
49	artist	fun	music	beginner	player	prize	4565	
16	motion	second	adjourn	carry	unanimous	chairman	419	
41	complainant	allegation	defendant	offender	commander	complaint	1695	
59	burglary	robbery	theft	homicide	murder	gunshot	945	
	- mg.m. j			13		54.101.01	7.5	_ <del></del> _

Table 6: Top words from a structural topic model with 60 topics and FREX scoring. Colors depict city median income based on coefficient size (wealthier cities are orange, poorer cities are teal). White cells are non-significant topics.

#	Top Word 1	Top Word 2	Top Word 3	Top Word 4	Top Word 5	Top Word 6		Tokens assigned
2	influenza	infection	vaccine	patient	tuberculosis	hepatitis	2980	
38	para	persona	horas	bud	contracted	ante	1334	
59	burglary	robbery	theft	homicide	murder	gunshot	945	
52	homeless	homelessness	affordable	supportive	housing	affordability	394	-
24	mail	fax	application	click	applicant	сору	367	•
29	margin	error	disability	speak	employed	language	180	•
36	respondent	compare	figure	trend	appendix	satisfied	696	
41	complainant	allegation	defendant	offender	commander	complaint	1695	
13	initiative	outreach	strategy	leadership	engagement	focus	502	
6	race	householder	islander	census	occupied	female	160	<u> </u>
10	grievance	deductible	coinsurance	dependent	employee	copay	583	_
31	student	teacher	preschool	academic	kindergarten	youth	855	
22	allocation	subtotal	admin	cost	yon	allocate	190	
11 44	obesity	sugary	epidemic	drink	calorie	sensible	96 255	<u></u>
23	findings	tank	string recyclables	carcinogen reusable	lust	sic bait	2254	<u> </u>
23 17	bag	recyclable			vegetable		538	
4	portfolio audit	micron auditor	maturity	treasury	yield implemented	investment oversight	558 472	=
42	incumbent		procedure batch	timely qualifier	analytical	examination	1091	_
27	article	prep subsection	shall	franchisee	paragraph	meaning	658	
15	credit	docket	app	post	download	month	61	_
26	mesa	canyon	via	odd	unidentified	paradise	1886	
51	vent	combustible	flammable	egress	ceiling	extinguisher	1160	
7	fugitive	bio	emission	coal	unmitigated	exhaust	773	
18	perm	queue	delay	peak	adj	flt	187	-
54	license	licensee	citation	tow	fee	taxicab	710	_
53	applied	col	dist	occupancy	monoxide	valuation	128	
48	contributor	filer	officeholder	political	rouge	payee	293	•
25	mitigation	impact	significant	adverse	environmental	measure	217	•
9	trust	revocable	planned	mfr	apportionment	exhibit	361	_
8	imp	assessor	taxpayer	petition	preliminary	determination	91	•
20	customer	renewable	efficiency	energy	saving	conservation	652	
33	thence	east	south	corner	west	avenue	340	•
56	savings	neighborhood	village	excise	ltd	matrix	131	1
28	garland	assoc	association	firefighter	duke	xerox	480	_
12	craftsman	architecture	brick	distinctive	revival	storefront	1731	
21	everybody	think	something	thing	try	want	2609	
35	redemption	bond	increment	obligation	proceeds	lease	339	-
45	governmental	asset	actuarial	liability	financial	statement	235	•
30	subcontractor	bid	bidder	proposer	subcontract	bidding	512	-
40	amt	invoice	acct	exp	unencumbered	encumbrance	116	1
55	taxable	deed	res .	homestead	value	book 	87	1
3	wetland	specie	species	vernal	ecological	riparian	2293	
37	endorsed	endorse	rescue	assistant	analyst	technician	355	<u> </u>
32	canceled	dwelling	suite	ave	tad	alteration	491	_
47 5	effluent draft	inf	eff review	infiltration revision	discharge	sludge	751 256	
5 14	accomplishment	comment		outcome	clarify	process recipient	356 255	-
39	downtown	grantee mixed	narrative retail	waterfront	grant orient	density	233 419	•
43	medicare	payroll	blanket	contractual	undistributed	dept	322	•
60	bicycle	bike	pedestrian	route	sidewalk	bicyclist	561	_
58	budget	revenue	adopted	balance	transfer	expenditure	176	7
50	trench	manhole	ductile	excavation	pipe	grout	1436	
19	setback	variance	zoning	height	yard	accessory	453	
34	playground	recreation	picnic	park	restroom	zoo	546	_
1	absent	preside	authorize	ordained	int	tag	377	<b>=</b>
46	chair	subcommittee	speaker	agenda	committee	commission	446	_
57	councilman	introduced	alderman	whereas	resolved	councilwoman	615	
16	motion	second	adjourn	carry	unanimous	chairman	419	_
49	artist	fun	music	beginner	player	prize	4565	
				14				

Table 7: Top words from a structural topic model with 60 topics and FREX scoring. Colors depict city population based on coefficient size (larger cities are cyan, smaller cities are magenta). White cells are non-significant topics.