Online Appendix

Government websites as data:

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

October 10, 2019

Abstract

Objective: Existing social science research that uses government website content has relied on manual methods of website content collection, limiting the scale and scope of website content analysis. Our objectives and corresponding contributions are two-fold. First, we develop a methodological pipeline to gather, process, and analyze website content, along with an R package implementation of the pipeline. Second, we illustrate the pipeline through the collection and analysis of the websites of over two hundred municipal governments in the United States.

Methods: We propose and utilize a pipeline consisting of tools for web-scraping, text parsing and cleaning, and text analysis.

Results: Our pipeline is effective in extracting large-scale meaningful substantive text from government websites. We identify a strong relationship between the topical content on municipal websites and the partisanship of the mayor.

Conclusion: The pipeline we develop, associated software, and dataset of municipal websites, represent valuable research tools for social scientists.

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. 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

¹The 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.

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 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.² 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

²An 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.

this paper, we ignore such sites and restricted our corpus to cities with at least three successfully downloaded pages.³

The partisanship of the mayor of each city is coded in different ways, depending on the state. For Indiana, where elections are nominally partisan, this information is accessible through the state government's website⁴. 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 Ballotpedia⁵. 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.⁶

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 Bureau⁷.

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

³There 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.

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

⁵https://ballotpedia.org/List_of_current_mayors_of_the_top_100_cities_in_the_United_States

⁶In Indiana, the data includes only cities - incorporated municipalities with at least 2,000 inhabitants - as opposed to towns.

⁷https://www.census.gov/data/developers/data-sets.html

in the respective state. In Table 2, we present the distribution of file extensions before and after processing.

| 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 authors⁸ for medium- to large-sized corpora.⁹ 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 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.¹⁰

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 ef-

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

⁹Since our corpus is at the larger end of that spectrum, we also estimated a model with 120 topics, but found no notable differences.

¹⁰The "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.

fect 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 topics 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.

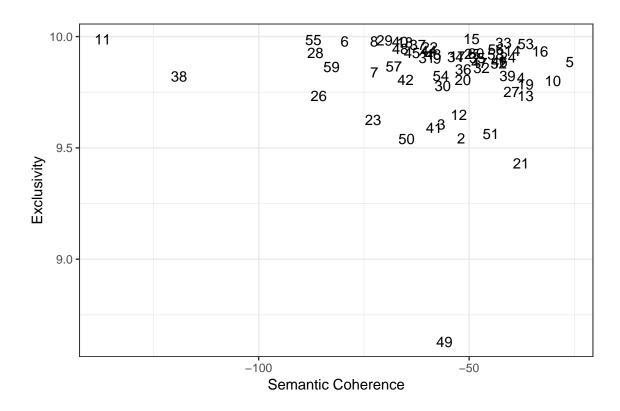


Figure 1: Semantic coherence and exclusivity for each of the 60 topics in our main structural topic model. Coherence describes the extent to which the 10 top words in a topic model belong to the same underlying concept. Exclusivity measures whether the top words in one topic feature primarily in this 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.

References

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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 |
| contractual parts duke outside postage receipts 274 curb pawenet sidewalk ramp gutter asphalt 300 consultant update process review staff progress 67 curb pawenet sidewalk ramp gutter asphalt 300 consultant proposer procurement contract part of the consultant proposer procurement | | | | | 1 . | _ | | | 1 |
| | | _ | 1 | | | | 1 | | 1 |
| draft update process review staff progress 67 planed from the process of the proc | | contractual | parts | duke | outside | postage | | 274 | |
| 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 | | | | | | | • | | |
| urban mixed density redevelopment development industrial 115 taxable res deed value homestead star 41 1 119 cost estimate estimated initial costs change 52 1 119 cost estimated sitaridal costs change 52 1 119 respondent satisfied dissatisfied satisfied survey satisfaction disagree 403 are survey satisfaction disagree 403 are served initial costs change 52 1 119 respondent satisfied dissatisfied survey satisfaction disagree 403 are served in satisfied dissatisfied survey satisfaction disagree 403 are served in satisfied dissatisfied survey satisfaction disagree 403 are served in satisfied dissatisfied survey satisfaction disagree 403 are served in satisfied abatement 171 are served fill are served fill abatement 171 are served fill are served fill abatement 171 are served fill are s | | | 1 1 | | | | | | |
| taxable res deed value homestead star 41 1 109 respondent estimate estimated initial costs change 52 109 respondent satisfied dissatisfied survey satisfaction dissgree 403 109 respondent satisfied dissatisfied survey satisfaction dissgree 403 109 respondent satisfied dissatisfied survey satisfaction dissgree 403 100 respondent satisfied dissatisfied survey satisfaction dissgree 403 100 respondent satisfied dissatisfied survey satisfaction dissgree 403 101 respondent satisfied dissatisfied survey satisfaction dissgree 403 102 respondent satisfied dissatisfied survey satisfaction dissgree 403 103 respondent satisfied survey satisfaction dissgree 403 103 respondent satisfied dissatisfied survey satisfaction dissgree 403 104 respondent satisfied survey satisfaction dissgree 403 105 respondent satisfied dissatisfied survey satisfaction dissgree 403 107 respondent satisfied dissatisfied survey satisfaction dissgree 403 108 respondent satisfied dissatisfied survey satisfaction dissgree 403 109 respondent satisfied dissatisfied survey satisfaction dissgree 403 100 respondent satisfied dissatisfied survey satisfaction dissgreed from the 476 100 mitigation impact addition satisfied survey satisfaction survey satisfaction district soning maker vacancy data compile 193 respondent surveys and surveys significant satisfied surveys speaker planner 45 107 rouge parish baton thereto sewerage adjudicate 464 108 romplainant allegation allege complaint doe minisconduct briefing advisory 187 109 savings litd village neighborhood excise costs 81 100 ritumbent examination supervision knowledge exam ability 336 100 recomplainant resolved whereas resolution deet manischief 116 100 resolved surveys apportive sonosidated special decline rend recession average rate percentage 126 100 receds redemption debt reassition port boat 184 100 resolved substrain port boat 184 101 revenue balance expenditure reserve forecast budget 101 101 resolved substrain port boat 184 102 recent planned circumference gross density infill 211 103 redeman assert | | | | 1 2 | | | | | |
| 83 building demolition story demolish floor build 82 1 109 respondent satisfied dissatisfied survey satisfaction disagree 403 109 respondent satisfied dissatisfied survey satisfaction disagree 403 139 respondent satisfied dissatisfied survey satisfaction disagree 403 139 respondent satisfied dissatisfied survey satisfaction disagree 403 139 respondent submission 139 respondent satisfied dissatisfied survey satisfaction disagree 403 139 respondent submission 130 respondent 130 responden | | | | • | • | | | | |
| 109 respondent satisfied dissatisfied survey satisfaction disagree 403 109 respondent satisfied dissatisfied survey satisfaction disagree 403 109 respondent satisfied dissatisfied survey satisfaction disagree 403 100 respondent satisfied dissatisfied survey satisfaction disagree 403 100 tax deduction amt assessed bill abatement 171 101 tax deduction amt assessed bill abatement 171 102 tax deduction amt assessed bill abatement 171 103 tax deduction amt assessed bill abatement 171 104 tax deduction amt assessed bill abatement 171 105 tax deduction 476 107 tax deduction 476 108 tax deduction 476 109 tax deduction 476 100 tax deduction val cove acct glen subtotal 79 101 tax delay perm queue peak fit detector 113 101 delay perm queue peak fit mignemented procedure 222 100 mitigation impact significant adverse significant procedure 222 101 mitigation impact significant adverse significant eu avoidable 136 102 tax deduction auditor auditing internal implemented procedure 222 102 tax deduction auditor auditing internal immigration religion 859 101 district zoning maker vacancy speaker planner 45 102 tarist artwork art arts mural sculpture 1055 103 tarist artwork art arts mural sculpture 1055 104 contracted encumbrance unencumbered exp expend bud 71 107 tax delay perish baton thereto severage adjudicate 464 107 savings lid village neighborhood excise costs 81 108 tax deduction allege complaint doc misconduct 963 108 tax deduction allege neighborhood excise costs 81 109 tax deduction allege neighborhood excise costs 81 100 bike beside beivglist pedestrian route mobility 336 101 tax detector 113 102 tax devu | | | | | | | | | 1 |
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| 110 rouge parish baton thereto sewerage adjudicate 464 46 commissioner chair commission committee briefing advisory 187 85 sch min tin hump carpool qua 390 15 complainant allegation allege complaint doc misconduct 963 30 incumbent examination supervision knowledge exam ability 410 107 savings ltd village neighborhood excise costs 81 172 imp burglary theft testify petitioner mischief 116 108 bike bicycle bicyclist pedestrian route mobility 336 82 accomplishment narrative grantee outcome objective mod 101 136 decline trend recession average rate percentage 265 152 homeless homelessness supportive consolidated transitional counseling 193 1 alderman resolved whereas resolution authorizing authorize 245 109 concept design realm visual character conceptual 433 11 bond obligation proceeds redemption debt series 174 157 dist applied col occupancy valuation monoxide 62 158 scenario figure appendix assume assumption model 162 159 scenario figure appendix assume assumption model 162 150 waterfront shoreline marina beach port boat 844 150 revenue balance expenditure reserve forecast budget 101 150 revenue balance expenditure reserve forecast budget 101 150 revenue balance expenditure reserve forecast budget 101 150 revenue balance employee retirement bargaining actuary 250 150 real advisory 150 retirement bargaining actuary 250 151 revenue bedroom 150 retirement bargaining actuary 250 152 retirement bargaining actuary 250 153 returned affordability homeowner income bedroom 150 150 returned from the first part of fiender crime patrol 511 150 revenue balance introduced ordain ordinance digest yea 244 151 revenue balance employee retirement bargaining actuary 250 153 returned fiender crime patrol 511 154 returned fiender crime patrol 511 155 returned fiender crime patrol 511 155 returned fiender crime patrol 511 150 returned fiender crime patrol 511 150 returned fiender crime patrol 511 | 12 | artist | artwork | art | arts | mural | sculpture | 1055 | |
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| oconcept design realm visual character conceptual 433 lond obligation proceeds redemption debt series 174 dist applied col occupancy valuation monoxide 62 scenario figure appendix assume assumption model 162 scenario figure appendix assume assumption model 162 scenario figure appendix assume assumption model 162 waterfront shoreline marina beach port boat 844 revenue balance expenditure reserve forecast budget 101 source process statement pension 142 redevance endorsed budget proposed adopted adopt 111 redevance employee retirement bargaining actuary 250 actuarial grievance employee retirement bargaining actuary 250 are applied col occupancy valuation monoxide 62 I conceptual 433 I conceptua | | | | 1.1 | | | | | |
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| dist applied col occupancy valuation monoxide 62 scenario figure appendix assume assumption model 162 scenario figure appendix assume assumption model 162 federal agency entity recipient grant eligible 90 scenario shoreline marina beach port boat 844 for revenue balance expenditure reserve forecast budget 101 for governmental asset liability assets statement pension 142 for governmental asset planned circumference gross density infill 211 for governmental grievance employee retirement bargaining actuary 250 for governmental grievance employee governmental grievance grievance employee governmental grievance | | * | - | | | | | | |
| 25 scenario figure appendix assume assumption model 162 138 horas persona para yon sou ante 1350 14 federal agency entity recipient grant eligible 90 156 waterfront shoreline marina beach port boat 844 161 revenue balance expenditure reserve forecast budget 101 157 governmental asset liability assets statement pension 142 158 159 159 159 159 159 159 159 159 159 159 | | | _ | • | * | | | | |
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| federal agency entity recipient grant eligible 90 leads waterfront shoreline marina beach port boat 844 leads for evenue balance expenditure reserve forecast budget 101 leads governmental asset liability assets statement pension 142 leads for endorse endorsed budget proposed adopted adopt 111 leads for evenue planned circumference gross density infill 211 leads for education ordinance digest yea 244 leads for each grievance employee retirement bargaining actuary 250 leads for ave combo blossom pearl cir olive 1091 leads strategy goal strategic stakeholder focus initiative 162 leads for absent int preside ordained tag numbers 194 leads for a shooting suspect pronounce gunshot flee shoot 730 leads for a shooting suspect pronounce gunshot flee shoot 730 leads for a shooting suspect pronounce gunshot flee shoot 730 leads for a strategine shoot 730 leads for a shooting suspect pronounce gunshot flee shoot 730 leads for a shooting suspect pronounce gunshot flee shoot 730 leads for a strategine shoot 730 leads for a shooting suspect pronounce gunshot flee shoot 730 leads for a shooting suspect pronounce gunshot flee shoot 730 leads for a shooting suspect pronounce gunshot flee shoot 730 leads for a shooting suspect pronounce gunshot flee shoot 730 leads for a shooting suspect pronounce gunshot flee shoot 730 leads for a shooting suspect pronounce gunshot flee shoot 730 leads for a shooting suspect pronounce gunshot flee shoot 730 leads for a shooting suspect for a shooting flee shooting suspect for a shooting flee shooting suspect for a shootin | | scenario | figure | appendix | assume | assumption | model | | |
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| 56waterfrontshorelinemarinabeachportboat84461revenuebalanceexpenditurereserveforecastbudget101■75governmentalassetliabilityassetsstatementpension142■37endorseendorsedbudgetproposedadoptedadopt111■69treeplannedcircumferencegrossdensityinfill211■90councilmanintroducedordainordinancedigestyea244■97actuarialgrievanceemployeeretirementbargainingactuary250■39affordablehousingaffordabilityhomeownerincomebedroom150■55avecomboblossompearlcirolive1091■13strategygoalstrategicstakeholderfocusinitiative162■57absentintpresideordainedtagnumbers194■101violentgangfirearmoffendercrimepatrol511■93shootingsuspectpronouncegunshotfleeshoot730 | 14 | federal | agency | entity | recipient | grant | eligible | 90 | 1 |
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| 90 councilman introduced ordain ordinance digest yea 244 97 actuarial grievance employee retirement bargaining actuary 250 39 affordable housing affordability homeowner income bedroom 150 55 ave combo blossom pearl cir olive 1091 13 strategy goal strategic stakeholder focus initiative 162 57 absent int preside ordained tag numbers 194 101 violent gang firearm offender crime patrol 511 93 shooting suspect pronounce gunshot flee shoot 730 | | | | | | • | | | |
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| 55 ave combo blossom pearl cir olive 1091 13 strategy goal strategic stakeholder focus initiative 162 57 absent int preside ordained tag numbers 194 101 violent gang firearm offender crime patrol 511 93 shooting suspect pronounce gunshot flee shoot 730 | | | • | 1 - | | 0 0 | • | | |
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| 93 shooting suspect pronounce gunshot flee shoot 730 | | | | * | | | | | |
| | | | | | | | • | | |
| 12 | 93 | shooting | suspect | pronounce | | flee | shoot | 730 | |

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 | _ _ |

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 | = |
| 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.