## Government Websites As Data: Understanding how Mayoral Partisanship Shapes Municipal Website Content

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#### **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.

# Government Websites As Data: Understanding how Mayoral Partisanship Shapes Municipal Website Content

#### 1 Introduction

Government websites convey voluminous information about all aspects of government policy priorities, policy implementation, and public deliberation. The vital role of official websites in connecting the government and the governed has motivated a wave of research on the contents of government websites, focusing in particular on textual contents (e.g., Grimmelikhuijsen 2010; Wang et al. 2005; Osman et al. 2014). The conventional approach to data collection in projects focused on government websites involves manual content extraction from each website in the dataset. Though accurate, the manual approach to data collection is costly for large-scale analysis. We propose the use of automatic web-scraping to gather and process government websites in order to build datasets that can be used for text analysis, as well as the solutions we adopt. We apply this approach to build a novel dataset of U.S. municipal government website contents, and analyze how the textual contents of city government websites in six American states correlate with the partisanship of the city mayor.

Our contributions are two-fold. First, we propose, and provide software to apply, the large-scale automated collection of textual data from government websites—covering entire contents including the plain HTML files, and linked files in various formats (e.g., DOC, PDF, and TXT) into plain text for analysis. Second, we gather and analyze a dataset that covers the textual contents of websites from over two hundred municipal governments in the United States. By studying the covariation of topical contents on these websites with the partisanship of the city mayors, we both illustrate the utility of automated web content collection from government websites, and present new findings on the relationship between government website concepts and executive partisanship.

### 2 Politics and Government Website Content

Though government websites serve largely instrumental service-delivery purposes, they also offer officials a prime venue via which to communicate policy goals and accomplishments, which

inevitably reflect officials' politics. In the current paper, we focus on the running example of the reflection of mayoral partisanship on municipal government websites. A substantial body of research has found that the partisanship of the mayor affects city governance along multiple dimensions of spending and policy attention (e.g., Gerber and Hopkins 2011; de Benedictis-Kessner and Warshaw 2016; Einstein and Glick 2016). Official city websites allow mayors to present their views and policy priorities to the public. In local politics, where campaign funds are low, this lends incumbents a crucial advantage in becoming more well-known among their constituencies (Stanyer 2008). Local government websites are frequently visited by the public (Thomas and Streib 2003). City websites can be used to communicate the stance of a mayor on social or economic programs. Consider the screenshot of the Gary, Indiana homepage in Figure 1. This provides a clear example of the utility of a city website for communicating the mayor's policy priorities and accomplishments.

#### [Figure 1 about here.]

The existing research that uses scraped websites provides an indication of the theoretical value of empirical analysis of web contents. Research on 'e-governance' evaluates government websites in terms of accessibility, ease-of-use, and function (e.g., McNeal et al. 2003; Tolbert et al. 2008; McNutt 2010). As an example, Grimmelikhuijsen and Welch (2012) study local government websites of Dutch municipalities to measure government transparency regarding air quality in the municipalities. The websites of politicians and their parties have also been the object of research (Druckman et al. 2009, 2010; Esterling et al. 2011; Esterling and Neblo 2011; Norris 2003). For example, Druckman et al. (2010) analyze the issues engaged on websites for candidates in U.S. Congressional elections, and find that candidates strategically engage just a few issues based on the priorities in their districts and the characteristics of their opponents.

## 3 Data: US Municipal Government Website Text

For data availability reasons when it comes to mayoral partisanship, we focus our analysis of municipal websites on six states—Indiana, Louisiana, New York, Washington, California, and Texas. The websites were scraped in March 2018. The selection of states and cities is largely

dictated by the presence of partisan mayors. Municipal elections in Indiana and Louisiana are partisan across the board, so our sample is primarily focused on these two states. For Indiana and Louisiana, all cities with a website are included, resulting in a considerably larger sample than for the other four states. New York and Washington do not have nominally partisan elections, but for a subset of cities, partisanship can be determined through contribution data (see supplementary material for more detail). California and Texas contain a number of large cities whose mayors are sufficiently well-known for their partisanship to be available. Our sample is well-balanced on a number of theoretically important dimensions. One, each of the four Census regions are represented with at least one state. Two, we have a fairly well-balanced sample with respect to the urban/rural cleavage. Furthermore, the sample is politically balanced—we have three blue states, and three red states. The partisan breakdown of city websites by state is provided in the supplementary material. This dataset of city website contents represents a contribution in the growing area of cross-municipality datasets covering local governments (e.g., Marschall and Shah 2013; ?). Details on the sources and methods of raw data collection can be found in the supplementary material.

## 4 Partisan Language on Municipal Websites

City mayors use government websites to present their policy priorities to the public. Consider an example; (Formicola et al. 2003, p.55) document a significant website content change during a transition in mayoral administrations in the city of Indianapolis. Under the Republican mayor Stephen Goldsmith, voluminous content was added to the city website in connection with the Front Porch Alliance—a faith-based initiative to create partnerships with religious organizations for the use and administration of city resources. Faith-based initiatives represent a type of public-private partnership that is popular with Republicans (Saperstein 2003). When Democrat Bart Peterson took office in 2000, the material related to the Front Porch Alliance was removed from the website. We consider whether the partisan manipulation of city website contents documented in this example holds in a large-scale and more recent sample of city websites. We illustrate the analysis of municipal website content by studying how differences in website content correlate with the

partisanship of the city's mayor. As we reviewed above, the partisanship of the mayor has been found in past research to affect several features of city governance. However, Gerber and Hopkins (2011) note that, due to the constraints of state and national policies, municipalities lack discretion in many domains of governance. These constraints do not apply to website contents. City governments have great discretion in composing their websites, modifying website content is low cost relative to other policy changes, and city websites provide an effective and often-used means of communication with city residents.

We use well established web-scraping and text-processing tools to go from a list of municipal website URLs to a corpus of clean text to analyze. The first step is to automatically download the entire file contents of municipal websites, which we do using the Unix tool wget (Glez-Peña et al. 2013). Step two is to convert each file (including, e.g., HTML, DOC, PDF) into a plain text file, which we do using the readtext R package (Benoit and Obeng 2019). Step three is to discard website boilerplate text (e.g., navigation menus), which we do using the "boilerpipe" algorithm (Kohlschütter et al. 2010), which is implemented in the R package boilerpipeR. The fourth step is a final processing wave applied to the resulting text corpus, which includes, e.g., removing strings that are not English words. This web-scraping and processing pipeline is described in greater detail in the supplementary material, and we have implemented all but the first step in a new R package (gov2test).

To study content differences between government websites based on mayoral partisanship, we draw upon a recently-developed model for text, the structural topic model (STM), developed by Roberts et al. (2014). Building on the conception of "topics" in conventional topic models (Valdez et al. 2018), in the STM a topic is a multinomial distribution defined on the word types in the corpus dictionary. The log-odds of the topic probabilities in each document-specific multinomial distribution over topics are drawn from a multivariate normal distribution in which the topic-specific means are determined by a linear regression function that associates document-attributed covariates with topics. For example, in the context of municipal website content, the structural topic model can be used to estimate a regression coefficient that defines the linear relationship between

the log-odds of the municipality's population and the log-odds of each topic. For our primary empirical investigation, the STM provides a tool to estimate the relationship between the party of the city's mayor and the prevalence of each topic. We also include the municipality's population and median income as covariates. Further details on and results from our STM specification can be found in the supplementary material.

#### 4.0.1 Structural topic model results

The results are shown in Table 1. First, it is notable that the 95% credible interval includes zero (indicated by rows with white backgrounds) in only seven of the sixty topics. This suggests that the topics discussed on city websites varies systematically with the partisanship of the mayor. Many of the topics associated with Democrats fit with what we understand to be national party priorities. Topic 52, on affordable housing, clearly resonates with the Democratic party's appeal to low-income voters. Topic 6 ('race', 'islander', 'census, 'female') covers racial and gender identity issues. Similarly, employee rights and benefits are represented in topics 10 and 29. Democrats also exhibit a strong preference for words related to public finances, such as Topic 58 ('budget', 'revenue', 'expenditure'), Topic 45 ('asset', 'actuarial', 'liability', 'financial'), Topic 35 ('bond', 'obligation', 'proceeds') as well as Topic 55 ('taxable', 'deed', 'value'). We suspect that the association of Democratic mayors with finance-related terms is indicative of a greater willingness to emphasize the city's efforts to raise and spend money, and take credit for those efforts (e.g., the Gary, IN example in Figure 1). This finding is consistent with Einstein and Kogan (2015), who show that Democratic mayors tend to favor greater spending. A second, consistent Democratic focus appears to be law enforcement: The most Democratic topic, 59 ('burglary', 'robbery', 'theft', 'homicide') is clearly focused on crime. On the one hand, Democratic partisans have a more negative perception of the police, rating it considerably more negatively on the appropriate use of force and the equal treatment of minorities (Brown 2017). On the other hand, the literature has also shown that cities with a higher Democratic vote share spend more on law enforcement, even after controlling for crime (Einstein and Kogan 2015).

City websites with Republican mayors, meanwhile, exhibit a pronounced focus on the essential

functions of government. Basic utilities such as energy (Topic 20), fire protection (Topic 51), vaccination (Topic 2), and sanitation (Topic 47), are prevalent among cities with Republican mayors. These basic service issues cannot be found among topics prevalent in cities with Democratic mayors. Similarly, zoning issues figure prominently in the set of republican topic (Topic 19), which fits with the findings of Sorens (2018) that Republicans are more supportive of restrictive residential zoning rules. The Democratic topics also include one that is somewhat focused on zoning, Topic 39 ('downtown', 'mixed', 'density'), but emphasizes mixed-use zoning—a loosening of conventional single-use zoning rules.

#### [Table 1 about here.]

## 5 Conclusion

We have proposed the automatic collection and processing of government websites for comparative content analysis. We have produced an R package gov2text, in which we have implemented and wrapped the core components of the methods we use. This methodology holds the potential to vastly scale up the data collection efforts underpinning the growing body of research that is focused on government website analysis. Through an application to the analysis of municipal websites in six different states, we show how our pipeline is capable of gathering corpora that shed light on the forms and functions of local government. We find that government website contents are associated with the partisanship of the mayor in ways that would be expected based on the parties' national priorities and past research on the effects of mayoral partisanship on city governments.

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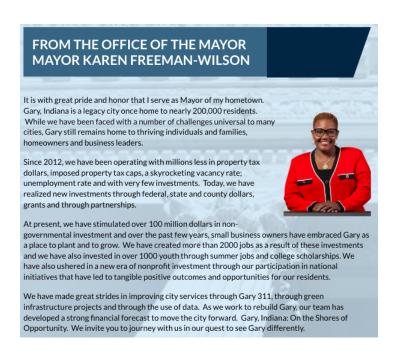


Figure 1: Screenshot from the homepage at https://garyin.us/, accessed on 05/22/2019. Image depicts Democratic mayor of Gary, IN, Karen Freeman-Wilson.

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| 1 absent preside authorize ordained int tag 377  |    | •          |             | *           |            |             | •          |     | •               |
|  |    |            |             |             |            |             |            |     |                 |
| 59 burglary robbery theft homicide murder gunshot 945  |    |            | 1           |             |            |             |            |     |                 |
|  | 59 | burglary   | robbery     | theft       | nomicide   | murder      | gunshot    | 945 |                 |

Table 1: Top words from a structural topic model with 60 topics and FREX scoring. Colors depict partisanship based on coefficient size. White cells are non-significant topics.