

Milestone 4

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Contents

1	Intro	1
2	Bibliography (and associated references):	1
3	A footnote	1
4	A table	2
5	A regression table	3
	References	3

1 Intro

Please find my repo at: https://github.com/Alex1005-stack/Gov_1006_final_project

2 Bibliography (and associated references):

To determine whether county government websites meet OGI content requirements, web pages are analyzed using a Latent Dirichlet Allocation (LDA) topic model (Blei and Jordan 2003).

Table 1 lists the labeled topics alongside the information categories mandated by OGI (Cai 2004).

3 A footnote

The unit of analysis is the county.¹

¹China is administered through a hierarchical single-party structure from top to bottom: central level, provincial level, prefectural (city) level, county (district) level, and township level. This study focuses on the county level, including those rural and urban areas.

4 A table

Comment: The following code creates the desired table. Ever since I have updated the gt package, visualizing the table in the PDF, results in an error where the LaTeX file compiles, but then the PDF based on that LaTeX file doesn't. This error says: There's no line here to end, which means that somewhere in the LaTeX file there is an inappropriately based double backslash. After spending hours trying to resolve this, I come to the conclusion that the additional insight from finding a solution does not warrant the effort that is going into it and hope to learn it in class.

```
county100 <- read.csv("raw-data/countywebsites_sampled100.csv", sep="\t")

# Table 2: Distribution of Year in Office
# Creating a count table based on the number of counties in which the mayor has been in office for a ce

distr <- county100 %>%
  group_by(mayor_tenure2) %>%
  summarise(`Number of Counties` = n()) %>%
  drop_na()

# Creating proportion table based on the number of years in office split by the status the mayor is in

prop <- county100 %>%
  group_by(mayor_tenure2, mayor_status) %>%
  summarise(`Number of Counties` = n()) %>%
  drop_na() %>%
  spread(key = mayor_status, value = `Number of Counties`) %>%
  mutate(`in office` = ifelse(is.na(`in office`), 0, `in office`),
         promotion = ifelse(is.na(promotion), 0, promotion),
         retired_demoted = ifelse(is.na(retired_demoted), 0, retired_demoted),
         Total = `in office` + promotion + retired_demoted,
         `Stayed in Same Position` = round(`in office`/Total, 2),
         Promoted = round(promotion/Total, 2),
         `Retired or Demoted` = round(retired_demoted/Total, 2)) %>%
  select(`Stayed in Same Position`, Promoted, `Retired or Demoted`, mayor_tenure2)

table <- bind_cols(prop, distr) %>%
  select (-mayor_tenure2)

gt_table <-
  table %>%
  gt(
    rowname_col = "mayor_tenure2",
    groupname_col = "group"
  )

test_table <- gt_table %>%
  tab_header(
    title = "Table 2: Distribution of Year in office" %>%
    tab_stubhead(label = "Years in Office" %>%
    fmt_percent(
      columns = vars("Stayed in Same Position", "Promoted", "Retired or Demoted"),
      decimals = 0) %>%
    cols_align("center")
```

5 A regression table

Table 1:		
	<i>Dependent variable:</i>	
	Competence	
	(1)	(2)
mayor_first	0.043 (0.043)	0.050 (0.048)
mayor_last	0.146*** (0.052)	0.139** (0.054)
X2009_gdppc_cny		−0.00000 (0.00000)
X2010_illiterateprop		−0.004 (0.004)
itemploy		−0.0001* (0.0001)
linksall		0.00000 (0.00000)
county_mediaexp		0.00000 (0.00000)
Constant	0.161*** (0.025)	0.195*** (0.049)
Observations	71	70
R ²	0.105	0.161
Adjusted R ²	0.079	0.066
Residual Std. Error	0.157 (df = 68)	0.159 (df = 62)
F Statistic	3.985** (df = 2; 68)	1.699 (df = 7; 62)
<i>Note:</i> *p<0.1; **p<0.05; ***p<0.01		

References

- Blei, Andrew Ng, David M., and Michael Jordan. 2003. *Latent Dirichlet Allocation*. JMLR.
- Cai, Yongshun. 2004. *Irresponsible State: Local Cadres and Image-Building in China*. Journal of Communist Studies; Transition Politics.