Constitutions

2022-10-30

R Markdown

```
library(tidyverse)
## -- Attaching packages ------ tidyverse 1.3.2 --
## v ggplot2 3.3.6 v purrr 0.3.5
## v tibble 3.1.8
                   v dplyr 1.0.10
## v tidyr 1.2.1 v stringr 1.4.1
## v readr 2.1.2 v forcats 0.5.2
## -- Conflicts ----- tidyverse conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
library(dplyr)
library(infer)
constitution <- read_csv("ccpcnc_v4_small.csv")</pre>
## Warning: One or more parsing issues, see 'problems()' for details
## Rows: 21341 Columns: 1194
## -- Column specification ------
## Delimiter: ","
      (22): country, regions, hosname, hosterm, hogterm, depname, agterm, 1h...
## dbl (1172): cowcode, year, wg, sample_deviation_type, syst, systid, systyear...
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
constitution <- constitution |>
 drop_na(em) |>
 select(country:evnttype, em:emother_98) |>
 filter(year > "1988")
liberal <- read_csv("V-Dem.csv")</pre>
## Rows: 27380 Columns: 1818
## Delimiter: ","
## chr
         (3): country_name, country_text_id, histname
```

```
## dbl (1814): country_id, year, project, historical, codingstart, codingend, ...
## date
           (1): historical_date
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
liberal <- liberal |>
  select(country_name, year, v2x_libdem, v2mecenefm,
         v2mecenefi, v2mecrit, v2mebias) |>
 filter(year > "1988")
```

Finding differences in country names to prevent errors in inner_join

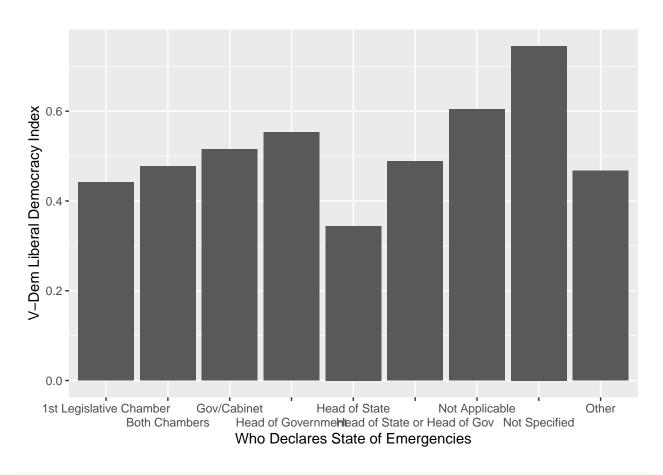
```
#unique(liberal$country_name)
#unique(constitution$country)
liberal <- liberal |>
  rename(country = country_name)
##Filtering out duplicate data in constitution
##This filters out all Serbia data, why isn't the "and" function (&) not working
constitution <- constitution |>
  filter(country != "Serbia" & year != "2006")
##Left Join
joined <- constitution |>
  left_join(liberal) |>
  select(country, year, v2x_libdem, em, emdecl, emappr_1, emappr_2)
## Joining, by = c("country", "year")
##Summarizing variables
```

```
joined <- joined |>
  mutate(emdecl = case_when(
    emdecl == 1 ~ "Head of State",
    emdecl == 2 ~ "Head of Government",
    emdecl == 3 ~ "Head of State or Head of Gov",
    emdecl == 4 ~ "Gov/Cabinet",
    emdecl == 5 ~ "1st Legislative Chamber",
   emdecl == 6 ~ "2nd Legislative Chamber",
    emdecl == 7 ~ "Both Chambers",
   emdecl == 90 ~ "Left to law",
   emdecl == 96 ~ "Other",
   emdecl == 97 ~ "Unknown",
   emdecl == 98 ~ "Not Specified",
    emdecl == 99 ~ "Not Applicable"
  ))
```

```
target_data <- joined |>
  group_by(emdecl) |>
  summarize(mean_liberal = mean(v2x_libdem, na.rm = TRUE)) #/>
  #pivot_wider(names_from = emdecl, values_from = mean_liberal)
target_data
```

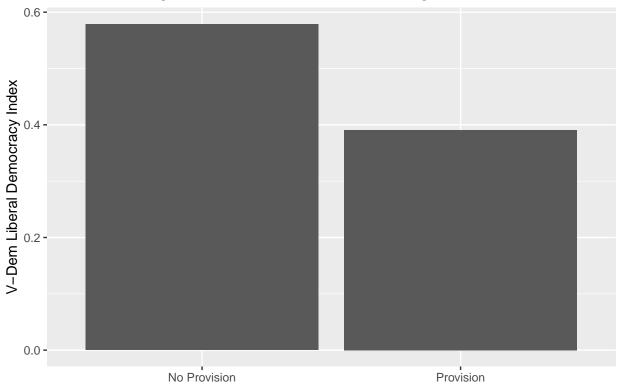
```
## # A tibble: 9 x 2
##
   emdecl
                                 mean_liberal
     <chr>>
                                         <dbl>
## 1 1st Legislative Chamber
                                         0.441
## 2 Both Chambers
                                        0.477
## 3 Gov/Cabinet
                                        0.516
## 4 Head of Government
                                        0.553
## 5 Head of State
                                        0.344
## 6 Head of State or Head of Gov
                                        0.489
                                        0.604
## 7 Not Applicable
## 8 Not Specified
                                        0.745
## 9 Other
                                        0.468
```

Bar Plot



```
joined <- joined |>
  mutate(em = case_when(
    em == 1 ~ "Provision",
    em == 2 ~ "No Provision",
    em == 96 ~ "Other",
    em == 97 ~ "unknown")
      )
target_data2 <- joined |>
  group_by(em) |>
  summarize(mean_liberal = mean(v2x_libdem, na.rm = TRUE)) |>
  filter(!row_number() %in% (2))
target_data2
## # A tibble: 2 x 2
##
     em
                  mean_liberal
##
     <chr>>
                         <dbl>
## 1 No Provision
                         0.579
## 2 Provision
                         0.391
target_data2 |>
  ggplot(aes(x = em, y = mean_liberal)) +
  geom_bar(stat = "identity") +
  labs(x = "Provision on Calling a State of Emergency in the Constitution",
       y = "V-Dem Liberal Democracy Index",
       title = "Effect of Having a Provision About State of Emergencies on Liberal Democracy")
```

Effect of Having a Provision About State of Emergencies on Liberal Democı



Provision on Calling a State of Emergency in the Constitution