

Elections American Style First Memo

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R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
load(url("https://www.dropbox.com/scl/fi/kp1lty1chtgzye8gnuf14/clea_lc_20240419.RData?rlkey=phvtoh91a48"))
```

```
glimpse(clea_lc_20240419)
```

```
## Rows: 1,249,770
## Columns: 33
## $ release <dbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~
## $ id      <dbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~
## $ rg      <chr> "Africa", "Africa", "Africa", "Africa", "Africa", "Africa", "A-
## $ ctr_n   <chr> "Botswana", "Botswana", "Botswana", "Botswana", "Botswana", "B-
## $ ctr     <dbl> 72, 72, 72, 72, 72, 72, 72, 72, 72, 72, 72, 72, 72, 72, 72, 72, ~
## $ yr      <dbl> 1969, 1969, 1969, 1969, 1969, 1969, 1969, 1969, 1969, 1969, 19~
## $ mn      <dbl> 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, ~
## $ sub     <chr> "-990", "-990", "-990", "-990", "-990", "-990", "-990", "-990", "-990"~
## $ cst_n   <chr> "bobirwa", "bobirwa", "bobirwa", "boteli", "boteli", "francist~
## $ cst     <dbl> 1, 1, 1, 2, 2, 3, 3, 4, 4, 4, 5, 5, 5, 6, 6, 6, 7, 7, 8, 8, 8, ~
## $ mag     <dbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~
## $ pty_n   <chr> "botswana independence party", "botswana peoples party", "bots~
## $ pty     <dbl> 4, 6, 3, 4, 3, 3, 4, 6, 5, 3, 3, 6, 5, 5, 3, 6, 3, 6, 4, 5, 3, ~
## $ can     <chr> "-990", "-990", "-990", "-990", "-990", "-990", "-990", "-990", "-990"~
## $ pev1    <dbl> 7546, 7546, 7546, 7246, 7246, 3400, 3400, 2614, 2614, 2614, 50~
## $ vot1    <dbl> -990, -990, -990, -990, -990, -990, -990, -990, -990, -990, -9~
## $ vv1     <dbl> 3955, 3955, 3955, 3423, 3423, 1674, 1674, 1179, 1179, 1179, 24~
## $ ivv1    <dbl> -990, -990, -990, -990, -990, -990, -990, -990, -990, -990, -9~
## $ to1     <dbl> -990, -990, -990, -990, -990, -990, -990, -990, -990, -990, -9~
## $ cv1     <dbl> -990, -990, -990, -990, -990, -990, -990, -990, -990, -990, -9~
## $ cvs1    <dbl> -990, -990, -990, -990, -990, -990, -990, -990, -990, -990, -9~
## $ pv1     <dbl> 1390, 987, 1578, 1923, 1500, 1022, 652, 260, 46, 873, 2131, 13~
## $ pvs1    <dbl> 0.35145387, 0.24955752, 0.39898863, 0.56178790, 0.43821210, 0.~
## $ pev2    <dbl> -990, -990, -990, -990, -990, -990, -990, -990, -990, -990, -9~
## $ vot2    <dbl> -990, -990, -990, -990, -990, -990, -990, -990, -990, -990, -9~
## $ vv2     <dbl> -990, -990, -990, -990, -990, -990, -990, -990, -990, -990, -9~
## $ ivv2    <dbl> -990, -990, -990, -990, -990, -990, -990, -990, -990, -990, -9~
```

```
## $ to2      <dbl> -990, -990, -990, -990, -990, -990, -990, -990, -990, -990, -9~
## $ cv2      <dbl> -990, -990, -990, -990, -990, -990, -990, -990, -990, -990, -9~
## $ cvs2     <dbl> -990, -990, -990, -990, -990, -990, -990, -990, -990, -990, -9~
## $ pv2      <dbl> -990, -990, -990, -990, -990, -990, -990, -990, -990, -990, -9~
## $ pvs2     <dbl> -990, -990, -990, -990, -990, -990, -990, -990, -990, -990, -9~
## $ seat     <dbl> 0, 0, 1, 1, 0, 1, 0, 0, 0, 1, 1, 0, 0, 0, 0, 1, 0, 1, 0, 0, 1,~
```

- Chosen Country: Germany
- 1907

```
germany_1907 <- clea_lc_20240419 %>%
  filter(ctr_n == "Germany", yr == 1907)

germany_1907_district1 <- germany_1907

germany_1907_district1 <- germany_1907_district1 %>%
  group_by(cst) %>%
  summarise(enp_v = 1/sum(pvs1^2),
            enp_s = 1/sum((seat/mag)^2))
```

- 1903

```
germany_1903 <- clea_lc_20240419 %>%
  filter(ctr_n == "Germany", yr==1903)

germany_1903_district1 <- germany_1903

germany_1903_district1 <- germany_1903_district1 %>%
  group_by(cst) %>%
  summarise(enp_v = 1/sum(pvs1^2),
            enp_s =1/sum((seat/mag)^2))
```

-