PS811 Portfolio

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Contents

```
CIRI %<>%
  mutate(KILL = ifelse(KILL %in% c(-999,-77,-66), NA, KILL)) %>%
  mutate(TORT = ifelse(TORT %in% c(-999,-77,-66), NA, TORT)) %>%
  mutate(SPEECH = ifelse(SPEECH %in% c(-999,-77,-66), NA, SPEECH))
```

```
d  <- CIRI

d %<>%
  group_by(CTRY)%>%
  mutate(mean_KILL = mean(KILL, na.rm = T),
         mean_TORT = mean(TORT, na.rm = T),
         mean_SPEECH = mean(SPEECH, na.rm = T) )

glimpse(d)
```

```
## Observations: 6,262
## Variables: 31
## Groups: CTRY [202]
## $ CTRY        <fct> Afghanistan, Afghanistan, Afghanistan, Afghanistan...
## $ YEAR        <int> 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 19...
## $ CIRI        <int> 101, 101, 101, 101, 101, 101, 101, 101, 101, 101, ...
## $ COW         <int> 700, 700, 700, 700, 700, 700, 700, 700, 700, 700, ...
## $ POLITY      <int> 700, 700, 700, 700, 700, 700, 700, 700, 700, 700, ...
## $ UNCTRY      <int> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,4,...
## $ UNREG       <int> 142, 142, 142, 142, 142, 142, 142, 142, 142, 142, ...
## $ UNSUBREG    <int> 62, 62, 62, 62, 62, 62, 62, 62, 62, 62, 62, 62, 62...
## $ PHYSINT     <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, NA, NA, NA, NA, 0...
## $ DISAP       <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, -77, -77, -77, -7...
## $ KILL        <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, NA, NA, NA, NA, 0...
## $ POLPRIS     <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, -77, -77, -77, -7...
## $ TORT        <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, NA, NA, NA, NA, 0...
## $ OLD_EMPINX  <int> 0, 2, 0, 1, 0, 0, 1, 2, 2, 2, 0, NA, NA, NA, NA, 3...
## $ NEW_EMPINX  <int> 2, 1, 0, 1, 0, 1, 3, 2, 3, 2, 3, NA, NA, NA, NA, 3...
## $ ASSN        <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, -77, -77, -77, -7...
## $ FORMOV      <int> 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 2, -77, -77, -77, -7...
## $ DOMMOV      <int> 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, -77, -77, -77, -7...
## $ OLD_MOVE    <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, -77, -77, -77, -7...
## $ SPEECH      <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, NA, NA, NA, NA, 1...
## $ ELECSD      <int> 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, -77, -77, -77, -7...
## $ OLD_RELFRE  <int> 0, 1, 0, 0, 0, 0, 0, 1, 1, 1, 0, -77, -77, -77, -7...
## $ NEW_RELFRE  <int> 1, 1, 0, 0, 0, 1, 2, 2, 2, 1, 1, -77, -77, -77, -7...
## $ WORKER      <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, -77, -77, -77, -7...
## $ WECON       <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, -77, -77, -77, -7...
## $ WOPOL       <int> 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, -77, -77, -77, -7...
## $ WOSOC       <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, -77, -77, -77, -7...
## $ INJUD       <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, -77, -77, -77, -7...
```

```
## $ mean_KILL   <dbl> 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, ...
## $ mean_TORT   <dbl> 0.08, 0.08, 0.08, 0.08, 0.08, 0.08, 0.08, 0.08, 0....
## $ mean_SPEECH <dbl> 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, ...
```

```
d1 <- d %>%
  select(CTRY, POLITY, mean_KILL, mean_TORT, mean_SPEECH) %>%
  distinct()

glimpse(d1)
```

```
## Observations: 204
## Variables: 5
## Groups: CTRY [202]
## $ CTRY        <fct> Afghanistan, Albania, Algeria, Andorra, Angola, An...
## $ POLITY      <int> 700, 339, 615, 232, 540, 58, 160, 371, 900, 305, 3...
## $ mean_KILL   <dbl> 0.2000000, 1.2307692, 1.0000000, 2.0000000, 0.3666...
## $ mean_TORT   <dbl> 0.08000000, 0.45161290, 0.64516129, 2.00000000, 0....
## $ mean_SPEECH <dbl> 0.2000000, 0.8064516, 0.3225806, 1.9000000, 0.3333...
```

The correlation between Polity score and freedom from speech violations is -0.325773. The correlation between Polity score and freedom from torture violations is 0.0055049 The correlation between Polity score and freedom from political killings is -0.0454884

```
d1 %>%
  ggplot() +
  aes(x = mean_SPEECH,
      y = mean_TORT,
      color = mean_KILL,
      size = POLITY,
      label = CTRY) +
  geom_point(alpha = .3) +
  geom_text(check_overlap = T,
            size = 4)+
  labs(x = "Freedom of Speech",
       y = "Freedom from Torture",
       color = "Freedom from Political Killings")
```