Week 2 Lab

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The data we are exploring consists of twelve variables related to 14 countries that have been democracies since World War II

1. Percent Reduction of Gini Coefficient(Gini_Reduction): The average percent reduction of the gini coefficient is reported for each county. The gini coefficient is a measure of inequality. It varies from 0 to 1. The value is 0 when income is evenly distributed. The value is 1 when all income is held by the top decile.

2. Pretax and Transfer Inequality(Wage_Ineq): This is measured as the proportion of an earner in the 90th percentile of the earners with median income.

3. Partinsanship: The measure of partinsanship varies from 0 to 1, with left being 0 and right being 1. A perfectly balanced government would have a measure of 0.5.

4. Voter Turnout: The percent of eligible citizens who actually vote in elections.

5. Unionization: This is a measure of union density within the country.

6. Constitutional Veto Points (Veto_Points):This is a composite measure of availability of a veto option, based on the structure of government.

7. Electoral System: Each country's government was categorized as majoritarian or proportional. A country with a majoritarian system had a value of 0 and proportional had a 1.

8. Left Fragmentation (Left_Frag): This is calculated by one minus the sum of the squared seat shares of left-wing parties.

9. Right Overrepresentation (Right_Over): The difference between the legistlative seat share of right-wing parties and thier share of the vote.

10. Real per capita Income (Inc_per_Capita): This is the income per capita in 1985 dollars.

11. Female Labor Force Participation (Fem_Labor):This is the percentage of female workforce participants in the working age population.

12. Unemployment: This is the unemployment rate.

Below you will find the data frame for all the variables:

```
mydata
```

```
##        Country Gini_Reduction Wage_Ineq Partinsanship Voter_Turnout
## 1    Australia          23.97      1.70          0.47            84
## 2      Austria             NA        NA          0.30            87
## 3      Belgium          35.56      1.64          0.36            88
## 4       Canada          21.26      1.82          0.36            68
## 5      Denmark          37.89      1.58          0.35            84
## 6      Finland          35.17      1.68          0.30            79
## 7       France          25.36      1.94          0.40            66
## 8      Germany          18.70      1.70          0.39            81
## 9      Ireland             NA        NA          0.42            75
## 10       Italy          12.13      1.63          0.37            93
## 11       Japan             NA        NA          0.78            71
## 12 Netherlands          30.59      1.64          0.31            85
## 13 New Zealand             NA        NA          0.43            85
## 14      Norway          27.52      1.50          0.15            80
## 15      Sweden          37.89      1.58          0.17            84
## 16        U.K.          22.67      1.78          0.52            76
## 17        U.S.          17.60      2.07          0.40            56
##    Unionization Veto_Points Electoral_System Left_Frag Right_Over
## 1            46           3                0     -0.39       0.10
## 2            54           1                1     -0.18       0.04
## 3            48           1                1     -0.34       0.27
## 4            30           2                0      0.18      -0.11
## 5            67           0                1     -0.40       0.07
## 6            53           1                1     -0.18       0.09
## 7            18           1                0      0.10       0.09
## 8            34           4                1     -0.13       0.15
## 9            48           0                0     -0.33       0.70
## 10           34           1                1      0.20       0.08
## 11           31           1                0      0.22       0.28
## 12           33           1                1      0.18      -0.36
## 13           23           0                0     -0.40       0.98
## 14           54           0                1     -0.02      -0.32
## 15           67           0                1     -0.40      -0.03
## 16           42           0                0      0.08       0.07
## 17           23           5                0      0.00      -0.17
##    Inc_Per_Capita Fem_Labor Unemployment
## 1          109099        46         4.63
## 2            8311        51         2.76
## 3            8949        43         7.89
## 4           11670        48         6.91
## 5            9982        63         6.83
## 6            8661        66         4.48
## 7            9485        51         4.57
## 8            9729        51         4.86
## 9            5807        37         9.09
## 10           7777        38         8.12
## 11           7918        56         1.77
## 12           9269        35         4.62
## 13             NA        47           NA
## 14           9863        52         2.28
## 15           9982        63         6.83
```

```
## 16                9282            54              5.01
## 17                13651           53              5.74
```

Here are some summary statistics of Unemployment:

```
mean(na.omit(mydata$Unemployment))
```

```
## [1] 5.399375
```

```
median(na.omit(mydata$Unemployment))
```

```
## [1] 4.935
```

```
max(na.omit(mydata$Unemployment))
```

```
## [1] 9.09
```

Here are some summary statistics of Real Income Per Capita:

```
mean(na.omit(mydata$Inc_Per_Capita))
```

```
## [1] 15589.69
```

```
median(na.omit(mydata$Inc_Per_Capita))
```

```
## [1] 9383.5
```

```
max(na.omit(mydata$Inc_Per_Capita))
```

```
## [1] 109099
```

Below you will find a table of summary statistics for all twelve variables:

```
stargazer(mydata, type = "text", title = "Descriptive Statistics", digits = 1, median =
TRUE, out = "table.txt")
```

```
##
## Descriptive Statistics
## =======================================================
## Statistic        N     Mean    St. Dev.   Min   Median     Max
## -------------------------------------------------------
## Gini_Reduction  13    26.6      8.3      12.1    25.4     37.9
## Wage_Ineq       13     1.7      0.2       1.5     1.7      2.1
## Partinsanship   17     0.4      0.1       0.1     0.4      0.8
## Voter_Turnout   17    78.9      9.4        56      81       93
## Unionization    17    41.5     14.8        18      42       67
## Veto_Points     17     1.2      1.5         0       1        5
## Left_Frag       17    -0.1      0.2      -0.4    -0.1      0.2
## Right_Over      17     0.1      0.3      -0.4     0.1      1.0
## Inc_Per_Capita  16 15,589.7 24,994.4   5,807 9,383.5  109,099
## Fem_Labor       17    50.2      8.9        35      51       66
## Unemployment    16     5.4      2.1       1.8     4.9      9.1
## -------------------------------------------------------
```