

Practice Problems on Measurement

1. Load the data set `nominate.csv` available [here](#).
2. Plot a histogram of the variable `ideology_score`.
3. Plot a histogram of `ideology_score` for Republicans and Democrats separately.
4. Plot a histogram of `ideology_score` for Republicans and Democrats separately in the 100th and 113th Congresses, also separately. Is one party moving away from the other and becoming more ideologically extreme?
5. Plot a boxplot `ideology_score` with separate “box-and-whiskers” for Republicans and Democrats (e.g., the right panel of the figure at the bottom of *QSS* p. 73).
6. Try out the snippet of code below that uses *ggplot2* to create a matrix of histograms? What do these plots show? Is ideology in either party becoming less variable over time? Is either party become more extreme?

```
# extra ggplot
ggplot(nominate, aes(x = ideology_score)) +
  geom_histogram() +
  facet_grid(congress ~ party)
```