Political Science 406: Lab 6: Missing Data

Due on May 17, 2024

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Problem 1

Democracy and Inequality

Return to the inequality data set from Lab 1. Repeat the following analysis using multiple imputation to handle missing data. How, if at all, do the results differ? What can we conclude?

```
ineqlm3 <- lm(Gini ~ Polity + log(GDP) + Polity:log(GDP), data=inequality)
```

Try to put together a Tobit-2 selection model instead, positing an explanation for missingness the best that you can with the available data. Describe your assumptions and explain your results.

Problem 2

Rainfall, War, and Missing Data

Repeat the rainfall and civil wars analysis from Lab 5, multiply imputing the data. How, if at all, do your results change using multiple imputation? What do the results mean?