RMPS I: Assignment 4

2015-10-28

Research Methods in Political Science I – Homework Assignment 4

Due: 9am on 4 November 2015

How to submit: Send as an email attachment

Email subject: Research Methods 1, Assignment 4

File name: hw04-YourName.xxx (xxx is either html or pdf)

Assignment

Do the following five tasks. If you answered that you could not explain how

OLS works in Homework Assignment 1, you are allowed to skip 3 and 4. You are

expected to create beautiful tables and figures, where "beautiful" means that your

readers can easily understand what your tables and figures tell. Turn in an HTML

file created from an R markdown file or a PDF file.

For this assignment, use the data set hr96-09.csv (Asano and Yanai 2013),

which is available at

http://www2.kobe-u.ac.jp/~yyanai/jp/quant-methods-stata/data/hr96-09.csv.

1. From the data set, extract the 2005 election and make two cross tables with

variables of you choice.

2. Transform one of your cross tables into a mosaic plot. (You do not have to

use ggplot2.)

3. Run a regression (linear regression, logit, probit, etc. It doesn't have to be a

"correct" model) and report the result in a table.

4. Report the result of the regression by a caterpillar plot (Again, you do not

have to use ggplot2).

5. Compare your figures with your tables, and discuss the pros and cons of figures

and tables.

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Tips

- Each of your tables and figures must have a caption. Write a caption so that your readers can understand what the table (figure) is created for. A table caption should be placed on top of the table, and a figure caption at the bottom.
- Give each of tables and figures a serial number. Tables and figures should be numbered independently (i.e., both Table 1 and Figure 1 should exit if you have at least one table and one figure) in the sequence in which you refer to them in the text. (Numbering is automatically done in LATEX. It is one of many reasons you should use LATEX.) If you submit your results by an HTML file created from R Markdown file, you can ignore this tip for now.
- Don't forget to add meaningful axis labels to figures.
- You should specify the size (width and height) of the figure when you make it in R. If you created a huge (tiny) figure in R and reduced (enlarged) it afterward, the font size of characters in the figure would be too small (big).