

Final Project Requirements (due May 9th, 2016 by 11:59 PM, submission via email):

The Final Project should include an analysis as substantial as the analysis required for the second midterm. We have covered more material, and your group sizes are larger (all of your groups are bigger than one person per group), so the report should be at least as thorough, involved, and complex. Make sure to include all relevant tables, figures, and plots. Generally speaking, as mentioned in class, this should be a substantial undertaking which demonstrates your knowledge and ability across a wide range of methods, techniques, and theory we have discussed over the course of the semester. Specifically required:

- 1) Answer the following two “preliminary” questions:
 - a. Why can’t you just do t -tests on the data you are analyzing?
 - b. What is the general difference between nonparametric and parametric analytical methods?
- 2) Perform *at least* one analysis from each of the following:
 - a. Material covered before the first midterm (Chapters 0, 1, and 2)
 - b. Material covered between the first and second midterm (Chapter 3)
- 3) Perform *at least* two analyses from:
 - a. Material covered after the second midterm (Chapters 4, 5, and 8)
- 4) Follow the report form:
 - a. Introduction
 - i. Include your motivation (or a contextual motivation) for asking the questions in the first place
 - ii. Introduce the project questions you will be answering here
 - iii. Answer the two preliminary questions here
 - b. Summary of data for analysis
 - c. Discussion of statistical tests or methodology to be used and why, including discussion of assumptions if they are required to perform any mentioned test
 - i. Describe more at length the questions you will be answering here
 - ii. Ensure it is clear which test you are applying (and why) to each question you are asking
 - d. Results of applications of statistical tests to respective data
 - e. Discussion of results
 - f. Conclusion and summarizing remarks
 - g. R Software/Code Appendix

The Final Project is due to me via email on May 9th, 2016 by 11:59 PM. Please let me know if you have any questions. Best of luck.