

## Writing Assignment 3: An analysis

FYOS 1001: Data Science

*Rationale.* Part of scholarship is the application of conceptual frameworks to understanding particular events, processes, or questions of scholarly interest. For us, the tools and practices of data science are the conceptual framework. We have analyzed these tools and discussed their applications during the semester. This exercise will undertake the final step of application to a real world problem.

*Learning objectives.* Student will demonstrate ability to state a data-answerable question. Student will identify data with which to answer the question. Student will use the data to provide an answer in the form of statistical or graphical analysis and written summary of analytic results.

*Assignment.* Identify a data-answerable question. Find some data that you think will enable you to answer the question. Perform an analysis of these data using techniques we have discussed in class and/or methods which you learned independently. Write a four page essay reporting and discussing your findings. What did you learn from your analysis? How confident are you about your conclusions? Should other people be convinced by your analysis? How will you persuade them that your analysis is fair?

*Assessment.* Essays will be evaluated according to the following writing rubric.

Due: November 7, 2016

	Excellent	Good	Competent	Ineffective
Clear statement of data-answerable question and selection of data for analysis				
Data analysis				
Mechanics of writing (use of paragraphs, clear thesis, logical argument, spelling/grammar); following directions of the assignment				