

COIS 3510H
Assignment 2
Due Friday, Nov 6 (noon)

Question 1 (25 points in total)

Visit the Periodic Table of Visualization methods at

http://www.visual-literacy.org/periodic_table/periodic_table.html Choose two of the **compound** visualization techniques.

- a) (10 points) Describe each technique (including which combination of methods it uses),
- b) (5 points) compare it to one technique we discussed in class and
- c) (10 points) describe two things you like and/or dislike about the technique.

Question 2 (25 points)

Find two different visualization techniques for multivariate or univariate data that we did not discuss and that are not included on the periodic chart of visualization methods, excluding visualization techniques for time series. Describe the techniques, and include advantages and disadvantages.

Question 3 (25 points)

For this question, we will use real-world data which came from a report to the Board of Governors in 2014. There are csv files on the learning system you can use that show revenue and expense as absolute and relative values.

Using R:

- a) show two different graphs that make the data look good
- b) show two different graphs that make the data look bad
- c) show two different graphs that show things are pretty much the same over those 5 years

For all graphs, use labels as appropriate. Submit the documented source code and screen shots for your graphs. Include a justification for why you think the graphs make the data look good, bad or indifferent. Any transformation of the data or scaling of the graphs is valid.

Question 4 (25 points)

Visualize the LifeCycleSavings dataset from R, and three different glyph (icon) -based visualizations. Compare the results. Submit the source code if you chose R, screen shots for your graphs, and a discussion of the results.