MHI 5250 Final Project

Poster Presentation (40 points total)

Design a poster that presents visualizations based on your dataset and an accompanying interactive digital visualization (using either Tableau, or working with R packages like plotly, shiny, metricsgraphics, *etc*.). This project may include graphs or text used in previous assignments so long as they fit in the poster narratively and visually. The poster and accompanying visualization files will be turned in, as well as a Panopto presentation where you walk through and explain the sections of your poster and then display some interactive elements of your digital visualization.

An easy way to make a poster (digitally) is with a 1-slide presentation in Microsoft PowerPoint. Use the "Page Setup..." menu item to set a custom slide size of at least 36 inches wide and 24 inches tall and up to 48 inches wide and 36 inches tall (probably start with the largest size, add content, then shrink the size when you're done to balance the amount of white space). Please note that this is a larger area than can be composed within Tableau, which is limited to 4000x4000 pixels, so if you're using Tableau charts, you should be exporting graphics from the worksheets themselves rather than from a dashboard.

Create a title for the poster related to your data and what you'd like to show about it. Include your name, affiliation (St. Catherine University) and contact info (email address) as though you are presenting this at a conference. Posters (in English) are typically read from top to bottom starting with the left column and moving to the right. 3 or 4 columns each with 2 or more sections are expected. Required sections include a text introduction, a summary of how and when the data was collected, 4 or more charts including at least 3 different chart types (like those we've named in class), a conclusion verbally summarizing all the data shown, recommendations for further study, and references/acknowledgements (include the source website of your data here).

The charts must be appropriately chosen for the data they represent. They must share a visual style, and if the same data is shown in multiple charts, the color or symbol schemes should stay the same. Please make sure data and axes are labeled appropriately.

Frame your display of the interactivity as though someone asked you a follow up question about a chart on your poster, *i.e.* what would the distribution look like with only one category (*e.g*. male/female)? was there much regional variation in this measure? can you tell me what each dot represents in this scatter plot? *etc*. Please come up with a question and then walk through the interactive visual to answer it.

Grading:

Following directions and maintaining an overall coherent visual style will account for 16 points. The three best charts of differing types will each be graded out of 8 points (*i.e.* the charts are the most important part of this project). The narrative element of this assignment is not being graded as a major

component—I hope you have interesting data, and I'd like to hear about it, but you will not be penalized if your dataset doesn't show interesting results. This grade is more about how visually appealing the product is overall, would it draw attention from across a room, for instance. While the total grade will be scored out of a maximum of 40 points, I will also reward up to 5 points if you seamlessly incorporate charts from both Tableau and R (so receiving 40+ out of 45 possible points is graded as 100%).

What to turn in:

- The .ppt file of your poster.
- The tableau .twbx file of your worksheets/dashboard and/or the R files including code and plots.
- A Panopto screen capture video with audio where you briefly walk through each element of your poster and show the interactivity motivated by a potential follow up question.

Please save your files as [lastname]_final.[twbx/ppt/etc].