**Viz A Thon**

Viz-a-thon: You will work in groups of 3 to go through the process of finding and visualizing a story in the data (link below). You will turn in a mini-poster (8.5 x 11 inches, or 11 x 17 inches) as a pdf document. Speed and design are important! You must finish by the end of class. Do your best on design "wow" factor.

1. Explore the data using R functions we have learned in class: dim(), colnames(), str(), fix(), head(), tail(), table(), tapply(), aggregate and so on
2. Identify 2 related questions that the data can answer that focuses on how some data are related to other data.
3. Use functions like table and aggregate to get the data ready for plot as needed.
4. Create **two** **visualizations, each with 2 or more dimensions,** that answer your questions.
5. Create two or more small single dimension plots that show the distribution of the data you are using in some way.
6. Create the mini-poster (8.5 x 11 inches, or 11 x 17 inches) document in Adobe Illustrator, but **save and turn it in as a pdf!**
7. Import each visualization into your Illustrator document and add

* title
* all team member's names
* context text such as what the data is and what your two questions are
* data source
* your 4 or more plots with context, color, labels and so on.

1. Make sure you spend time with the design. Your mini-poster should be a compelling data story with consistent colors and good layout.

**Note that on this mini-poster your small plots might be very small (example 1.5 by 1.5, or 2 by 2 inches), while for the larger ones you could make one as large as 4 by 4 inches.**

**Each larger visualizations should:**

* Relate 2 or more dimensions of the data
* Be related to each other such that the two tell a story from the data

**Data (TBD)**

* Data file:  Instructor will provide

**Submit - Each member of the group needs to upload:**

* The R script that opens, interrogates and plots the data
* The finalized visualizations arranged on a single page pdf (8.5 x 11 or 11 x 17)**.**

**Rubric**

* All elements listed above are present (2 multiDim and 2 singleDim plots, required text, correct size of pdf): 1 pt
* You have 2 questions from the data and your plots answer the questions: 1 pt
* Wow factor. Use colors, layout and fonts to enhance your story: 1 pt.