

**Title:** Web-based Information Visualization

**Critical Resources:** An internet-enabled computer with MS Word, access to myCourses.

**Learning Objectives:**

The learning objectives of this assignment are:

- Understand how to create basic web information visualizations
- Understand how to fuse digital data into a web information visualization tool

**Deliverables:**

A write-up of your response to the instruction questions in MS Word format (no PDFs). Be sure to include your name within your submission. Use the following naming convention for your file before posting:

{your\_last\_name}\_{first\_initial}\_assignment\_5.doc (or docx). For example:

Golen\_E\_assignment\_5.doc. Upload your write-up to the Assignment 5 dropbox on myCourses.

**Instructions:**

Create a single web-based visualization tool that combines three information visualization tools from Google charts. The three tools must incorporate digital data (hint – you may use your indicator data from the last assignment, the waveform data, or a data set of your choosing). The three tools *do not need to interact with one another*. Image exports from Tableau do not count. I am looking to assess your technical abilities to work with web-based visualization tools. **You will receive a 10 point bonus if you successfully include a visualization tool from a d3js source in place of one of the Google charts.**

Your web visualization tool must be publicly available on people.rit.edu.

Write a **one page**<sup>1</sup> essay where you:

1. Provide a link to your web visualization tool.
2. Provide a brief description of what your tool does.
3. Show a *relatively* interesting pattern that you were able to visually detect in your data (with a screen capture included for reference).
4. Describe how you used one or more visual thinking algorithms from Ware Chapter 11 while using your visualization tool to detect the interesting pattern.
5. Given more time (and maybe expertise), describe one visual thinking algorithm that you would like to make possible through your visualization tool and why you would want to do this.

Comments:

- You will still receive credit if you cannot get your tool to work. If this is the case, explain the problems you faced.

<sup>1</sup> 1 page is defined as 12-point font, 1.5 lines spacing, 1" margins.