

BST 5930 Data Visualization
Fall 2018 Homework #2
Due October 15, 11:59 pm

Look at the concept of ACCENT (Apprehension, Clarity, Consistency, Efficiency, Necessity, and Truthfulness) on pp. 11-12 of Keen's book. This assignment is based on problems 6 and 7 in Chapter 1.

Review one issue of a journal in your field for graphics that are used.

1. What is the journal and the year/issue?
2. How many papers are in this issue and how many graphs are there?
3. How many graphs involve plotting raw data (as opposed to things like regression lines that are *computed* from raw data)? (Some graphs may have both.)
4. Describe the clarity of titles and labels. For text within the plot (as opposed to the text in the caption) what font sizes are used? (Just approximate this using the information below.) What is the minimum size used?

12 point – This is 12 point type.

11 point – This is 11 point type.

10 point – This is 10 point type.

9 point – This is 9 point type.

8 point – This is 8 point type.

7 point – This is 7 point type.

6 point – This is 6 point type.

12 point – This is 12 point type.

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10 point – This is 10 point type.

9 point – This is 9 point type.

8 point – This is 8 point type.

7 point – This is 7 point type.

6 point – This is 6 point type.

5. Select one graph from the issue of the journal you chose. Copy and paste this graph in your Word file. Analyze this graph with regard to the ACCENT principle.
6. If you removed the graph with its caption, could it stand alone and make its point without the accompanying text?
7. Suggest how the graph might be improved. If the graph cannot stand alone, what additional information would be needed to make it be able to stand alone?
8. From the journal/year/issue, select five graphs at random and for each approximate the height/width ratio. Compare these with the golden ratio 0.618.
9. Select one table from the same year/issue of the journal. Copy and paste it into your Word file. Describe the purpose of the table, and whether you think it achieves its purpose.
10. Describe the use of lines (both horizontal and vertical) in the table.

Type your name at the top of your file. Answer these questions and give the graph and table requested. Then, do a page break at the end of your file and paste the graph and table again on the last page. We will look at these in class, so do not give any identifying information on this last page.

Save your Word file in both Word format, and as a PDF. Upload the PDF only. (Do not upload a Word file.)