**Assignment #2: Data Visualization – From Past to Present**

1. **Due Date**

January 22, @6:00 PM CST

1. **Requirements**
2. Select a chart type that you are interested to explore. It could be a chart that has a long history (e.g., bar chart) or a newer type of visualization (e.g., slopegraph).
3. Research the history of the graph.
4. Write an overview of the history of the graph, including best practices. When should data analysts and data scientists use this type of graph? When should data analysts and data scientists not use the type of graph that you researched?
5. Find a public data set (possible sources below) that you could use to visualize the type of chart that you researched.
6. Specify a business problem/question and a potential audience for your visualization.
7. Create a graph in Tableau. Pay attention to design elements (e.g., color, position). Add an insightful title. Include a link to the data source.

Your submission will include:

1. A Word or PowerPoint document in which you review the history and best practices of the chart type that you chose (minimum 400 words)
2. Minimum one chart in Tableau (submit file in .twbx format)
3. **Grading Rubric**

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| **TABLEAU DATA VISUALIZATION**  Your graph incorporates the learnings from your research in terms of best practices and use cases, as well as learnings from readings and class lectures. | 3 points |
| **HISTORICAL REVIEW IN WORD OR POWERPOINT** |  |
| You provide a comprehensive review of the history of the chart type that you chose. | 3 points |
| You incorporate best practices and use cases. | 2 points |
| You specify your audience and the business problem/question for your graph. | 1 point |
| Ideas are logically organized.  Correctness of grammar and spelling. | 1 point |
|  | **10 points** |

**4. Possible Data Sources**

[https://catalog.data.gov (Links to an external site.)](https://catalog.data.gov" \t "_blank)

[http://www.census.gov/data.html (Links to an external site.)](http://www.census.gov/data.html)

[https://datacatalog.worldbank.org/ (Links to an external site.)](https://datacatalog.worldbank.org/)

[http://data.europa.eu/euodp/en/data/ (Links to an external site.)](http://data.europa.eu/euodp/en/data/)

[https://data.gov.in/catalogs (Links to an external site.)](https://data.gov.in/catalogs)

[https://www.gapminder.org/data/ (Links to an external site.)](https://www.gapminder.org/data/)

[https://github.com/awesomedata/awesome-public-datasets (Links to an external site.)](https://github.com/awesomedata/awesome-public-datasets)

[https://www.pewresearch.org/download-datasets/ (Links to an external site.)](https://www.pewresearch.org/download-datasets/)

[https://www.propublica.org/datastore/ (Links to an external site.)](https://www.propublica.org/datastore/)[(Links to an external site.)](https://datacatalog.worldbank.org/)

<https://www.springboard.com/blog/free-public-data-sets-data-science-project/>