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**DSC 106 Checkout Sheet** PID: A13438127

URL or submission info:

<https://infogram.com/peace-1h706exgdqvj25y?live>

<http://acsweb.ucsd.edu/~zjliao/website/>

**Verbal summary of the idea of my final project:**

Our idea for the final project is based on some military expenditure data that we gathered. We wanted to show that the world, although seems to be peaceful, is actually stocking up in unpeaceful activities. The world has great economic growth. But at the same time, the world is also spending more on its military.

**My role in creating the final project included the following tasks/steps:**

* Coming up with a story line
* Clean some of the data
* Create some charts
* Insert pictures / gif
* Organize the animations
* Try to implement some priming techniques
* Use Infogram and create a simple website

**I roughly spent approximately 13 hours producing this project**

**The most important lessons I think I learned doing this project was ….**

That Infogram is actually a very neat tool to use for visualization. Aside from the tools used to create data visualizations, it actually takes a lot of considerations when trying to create a visualization that can speak to the audience. Things such as whether the chart is meaningful and what colors to use are picked with careful thought and purpose.

**Now that this course is done answer these questions with your answers. Do not work with**

**others, these are your words and you may be asked such things by employers and others?**

“What is data visualization?”

Data Visualization is a technique that tries to communicate an insight learned from data to the consumer.

“Why is data visualization useful to a data scientist?”

Data scientists can find out all the new knowledge, but these knowledges are useless if data scientists cannot communicate their findings to the public. So, producing good and informative data visualization can help communicate expert knowledge to the public who may not have the domain knowledge.

“Why is data visualization hard to do well?”

Data visualization is hard to do well because there are multiple tools that you can choose from and they all have a learning curve. Also, tools change, so it is important that you understand the fundamental concepts of charts. It is hard because even with a lot of different knowledge of good charts, you need to think about how to design a chart and what story you want to tell.

“How should you produce a data visualization?”

* Decide on a topic that is interesting
* Decide on what and how you want to tell your story
* Gather your data
* Clean your data
* Sketch out how you want your data visualization to look like
  + Figure out what charts to use
* Choose the tool that you want to use
* Make you visualization

**In retrospect, if you could change one thing to make the class better for the next quarter what would you suggest we do?**

I suggest that the homework start out in mini-chunks. Since we do not have experience in JavaScript, HTML, and CSS, it is hard and time-consuming to finish the homework. Although we want to learn about the concepts of how to make data visualizations, but we still need to learn some basic skills to at least make some charts in order to demonstrate our understanding of charts.

**Finally, to not ruin what worked well in the class what one thing would you really want to make sure we keep next quarter?”**

I really like the fact that later lectures were uploaded in smaller file sizes. For example, there were different files for the different types of charts. This makes it easy to navigate between the different concepts learned.

**Extra Credit**: On the lecture before the holiday, the professor showed us a little animation of a turkey running and a guy chasing the turkey. It ended with “Happy Thanksgiving.” The animation was made using a charting library. I don’t exactly remember, but maybe it was Zingcharts.