**Assignment name:** *i*Viz Three

**Due date:** ~~April 15, 11:59 pm EST.~~

**Due date (new):** April 18, 11:59 pm EST.

**How to submit it:** Students need to submit their assignments via Blackboard

**Assignment summary:** Please provide a two-page narrative describing your project and include the following sections. Figures and charts to not count toward the two pages. Students should not use the data sources or visualizations that they used in class or in previous assignments because new data sources and new visualizations help students to apply their skills in new contexts to increase their learning.

1. **Introduction and background.**Discuss your motivation for picking your topic. Please include any sources that inspired you.  Give context and relevance. For example, you may be interested in understanding climate change and discovering what we can do to respond.
2. **Objectives and goals.** What do you want to learn and accomplish?  What questions do you want to answer?  How will your project benefit others?
3. **Datasets.** Describe at least one data set that you intend to use. For each dataset include:

* Where did you find the dataset?
* Why was the data created and for what purpose? Who collected the data?
* What is the timeline or lineage of the data?
* How large is the dataset (cases, variables)?

Some data sources are listed here, but you are more than welcome to use any dataset that you like.

1. Sample datasets for Gephi

<https://github.com/gephi/gephi/wiki/Datasets>

1. Sample datasets for VOS viewer

* You can use Web of Science which is accessible via Thomas Cooper Library. You can go to this link <https://guides.library.sc.edu/az.php?a=w> and find “Web of Science Core Collection”.
* To search in Web of Science and export data for VOS viewer, please see this short video that I posted on Bb before <https://youtu.be/EIKdq8mBllo?t=66>
* You can pick any topics that you like to search in Web of Science. You need to do the analysis in 2000 records or more

1. **Visualization Plan.** Please include the following:

* Students need to make two visualizations from different. One of the visualizations should utilize visualizing techniques for **text-mining/co-word analysis with VOS viewer**. For another visualization, student must use **Network analysis visualization** methods (refer to **weeks 12 and 13**).
* Students must briefly discuss the rationale behind choosing the visualization types. For instance, why do you think that specific visualization is the best one to visualize your data? The rationale should be based on the lectures and readings.
* Students need to apply principles of good visualizations that have been discussed in the course.
* Students should use color effectively in their visualizations based on the concepts discussed in readings and lectures.
* Students need to provide details about variables so that readers/ audiences can follow the ideas easily.
* Students should NOT use basic and easy visualizations! The more advanced the better!

1. **References.** Pease use in-text citations in your paper and use APA style (or preferred style). Please use at least six credible sources in your paper. References can be the data that you cite or the justifications that you in the describing the visualization techniques
2. **Assignment Rubrics**

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| **Criteria** | **Accomplished (A)** | **Competent (B+)** | **Developing (B)** | **Beginning (C or lower)** |
| **Applying the principle of data visualization and storytelling** | Develops and applies most of visualization principles and storytelling techniques | Correctly describes and applies some visualization principles and storytelling techniques | Recognizes and applies limited aspects of visualization principles and storytelling techniques | Does not recognize and apply visualization principles and storytelling techniques |
| **Selecting text-mining and network analysis visualization techniques effectively** | Integrates and applies different visualization types effectively and discusses rationale to use them | Accurately expresses concepts related to different visualization types and use them in correct contexts | Shows basic use and application of different visualization types | Does not recognize or apply visualization types |
| **Encoding text-mining and network analysis in visualizations** | Demonstrates comprehension of the text-mining and network analysis effectively | Interprets and applies text-mining and network analysis correctly | Provides simplistic explanations of encoding data using text-mining and network analysis | Does not recognize or apply encoding data using text-mining and network analysis |
| **Application of advanced visualization techniques** | Demonstrates comprehension of temporal data and geo visualization techniques and illustrates with clear examples | Correctly describes and applies temporal data and geo visualization techniques  with clear examples | Uses vocabulary related to temporal data and geo visualization techniques  or shows simple conceptualization and applications | Does not recognize or apply temporal data and geo visualization techniques |