Presentation HW 1
Due Date: Varies between April 30 and May 7
[Proposals for presentations should be submitted at least 3 days before the due date]
details later in this document
(10 points + Bonus Points + Early Effort Reward)

The objective of this presentation is to make a presentation in class on a topic to demonstrate excellent understanding of
(i) an existing D3 code in version V4 or higher,
(ii) one specific D3 command (preferably a D3 command that is the most challenging in the code that you choose to present and has not been discussed in-depth in class).

The topic (code) and the D3 command must be approved by the instructor. Each student must choose a different topic. Ideally, each D3 command should also be chosen by no more than 1 student (if the command is easy), by no more than 2 students (if command is of medium difficulty), and by 3-4 students (if command is difficult).

To this purpose, you will submit a suggested topic using a Google Form for which a link will be sent to you (you must use your ucsc.edu email address) to submit your suggestion. This suggestion will be reviewed by the instructor and a response will be sent no later than 72 hours (most likely sooner). You will be able to see the topics that your classmates have chosen; so, you can avoid choosing a topic that has already been selected by somebody else. Once the topic is approved, you are all set for making the presentation on the date you choose. There are three dates available: May 1, May 3, and May 8. Further details on the approval process are described later in this handout.

Since no topic will be repeated, there is some advantage to choosing the topic early. Also, students choosing an early date for presentation will also be rewarded (described later). The presentation link will be made active on Saturday, 7:00pm, allowing everybody 48 hours to choose a topic.

Suggestions for Choosing a Topic:
1. Outstanding Examples on the web mostly using D3 Advanced layout (simple layouts such as pie chart, or stacked bar chart are *not* appropriate choices. Force layout, cluster layouts, chord diagrams).

2. Outstanding Examples on the web using innovative visualization techniques and principles such as brushing, small multiples, parallel coordinates, 3D surfaces

3. D3 Excellent Past Project from a prior class. Links are provided below:
To be Provided

4. GeoSpatial Mapping (I plan to cover this topic in class during the week of April 30. Topics covered in class will not be eligible. If you plan to choose a geospatial mapping topic, you may need to check with me as soon as possible to see if the suggested topic will be acceptable).

5. A topic that focuses on a specific task such as creating different types of sliders or buttons or timelines or legends or setting up different types of scales (log scale) along with legends or coloring scheme choices.

Approval Process

Topics will be awarded on a first-cum-first-serve basis. No example/topic will be repeated. You will be required to propose the topic by filling out a Google form:

To be Provided

The google form is set to **accept submissions using your ucsc email**. You can submit once, and make modifications to your submissions afterwards.

You can view (but not edit) the submissions by all students at the following Google spreadsheet:

To be Provided

In addition, you are welcome to discuss the topic with the instructor in person before-during-after the class or during office hours.

Presentation

All class presentations will occur during one of the following three class timings: May 1 (Tuesday), May 3 (Thursday), or May 8 (Tuesday). Due to limited class time, the presentation time may vary for each presentation from somewhere from 2 minutes to 5 minutes. You should plan on a 5 min presentation. The instructor, at his discretion, may reduce the presentation time to 2 minutes.

Bonus Points

1. **Conversion from V3 to V4 (*may* get bonus points)**: Although this assignment does *not* require or expect that you will change the existing code, extra credit may be awarded if you take up the task of converting an existing V3 version of the code and change it to V4 for presentation (and a V4 version code does not exist on the web). Please consult with the instructor if you are attempting to do this.

2. **Additional Code for Presentation (up to 3 bonus points):**

(i) In order to illustrate the existing code better or explore the parameters associated with the code, you may want to create a step-by-step or intermediate level code that illustrated the function of the code much better.

(ii) Similarly, in order to illustrate the D3 command better, you may choose to create additional code (or step-by-step code) that may make it very easy for the reader to understand the purpose of the D3 command.

(iii) create a new data set with a new application domain that extends the utility of the code beyond the existing example.

(iv) any significant challenge (such as extracting a new GeoJson file) you needed to overcome in order to create this presentation.

Submission Requirements (on canvas):

1. **Code** (D3 Version V4) added with extensive *comments* to demonstrate your understanding of the code + extensive *console.log* statements added to demonstrate the outcome of intermediate steps.

2. **Tutorial** (a text file) on the chosen specific D3 Command *in your own words* at an introductory level along with a very **simple example code** (to work with very simple data set that you will also provide) to illustrate how this command works.
(approx. half to one page tutorial).

3. **Presentation** on the code (3-5 slides but at most 7 slides) + tutorial (1-2 slides but at most 3 slides); total 4-7 slides but at most 10 slides

4. **Weblinks** (of all the code that you used for your presentation/preparation). These are likely to be the same as the ones you used for your proposal, but may have additional links here.

5. **Bonus Effort (optional)**: If you attempted bonus points, please submit a few sentences (*and no more*) describing your effort such as (i) converting code from D3 V3 to D3 V4, (ii) creating simpler step-by-step version to demonstrate the effect of each parameter, (iii) creating a step-by-step tutorial with code to explain the D3 command, (iv) creating a new data set to extend the utility of the code to new application domains, or (v) any other significant challenge that you overcame.

Evaluation (10 points + Bonus Points + Early Effort Reward)
Choose a topic or an example commensurate with your skills. Easy topics may earn only partial credit.

Early Effort Reward
Students aspiring to receive an A+ or A grade should suggest a topic to be presented on May 1. In order to achieve this goal, it is recommended that you should have the topic approved by the instructor on or before April 26, Thursday, 7pm; so, you should propose the topic by April 25, Wednesday.

Students aspiring to receive an A- or B+ grade should suggest a topic to be presented on May 3. In order to achieve this goal, it is recommended that you should have the topic approved by the instructor on or before May 1, 7pm; so, you should propose the topic by April 29, Sunday.

All students must propose the topic on or before May 3, Wednesday so that their topic can be approved by May 3, Thursday, 7:00pm.

Students who meet the following 3 criteria will be awarded 3 Bonus Early Effort Reward Points:
1. Choose a challenging topic or an example. If unsure, ask the instructor.
2. Propose the topic to be presented on May 1 (and preferably have it approved on or before April 26).
3. The presentation must be of highest quality attempting at least some bonus points from any of the categories mentioned above.

Late Penalty
If you do not make a presentation by May 8 (the last date for presentation) and/or do not make a sincere effort to have your topic approved at least 72 hours before, then you will accrue -10 (negative 10) penalty points and you will be at the risk of failing this class.