

DSAA 5024 Data Exploration and Visualization

Assignment 3

- Posting date: 11 Oct. 2022
 - Due date: 11:59 PM (Beijing time) on Monday, 17 Oct. 2022.
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Colormap

- Data: *full_data.csv* (latest data can be found in <https://github.com/owid/covid-19-data/tree/master/public/data/jhu>) describes the number of COVID-19 new, total, and weekly cases and deaths, per country/region. Each row represents daily updates, and each row contains 10 columns: *date*, *location*, *new_cases*, *new_deaths*, *total_cases*, *total_deaths*, *weekly_cases*, *weekly_deaths*, *bi_weekly_cases*, *biweekly_deaths*.
- Task: This assignment is a follow-up for Assignment 2. You can extend your code for the previous assignment.
 - Question
 1. What is the data attribute type for *new_cases* attribute? What colormap type (categorical, sequential, diverging) would you choose to encode *new_cases*? (20 points)
 2. What is the data attribute type for *location* attribute? What colormap type (categorical, sequential, diverging) would you choose to encode *location*? (20 points)
 - Coding: Create a scatter plot (https://en.wikipedia.org/wiki/Scatter_plot) to visualize *total_cases* and *total_deaths* on the latest day as in the data.
 1. Choose an appropriate colormap and assign colors to the points in the scatterplot you have created based on *new_cases*. (20 points)
 2. Choose an appropriate colormap and assign colors to the points in the scatterplot you have created based on *location*. (20 points)

3. Coding 2 follow-up: With colors assigned to *location*, adjust the point size based on *new_cases*. You can refer to the video of [Hans Rosling](#) when developing the visualizations. (20 points)
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TURNIN instructions:

- You can code using either html and d3.js, or Tableau, or others. Your code should be executable, and you are required to include a README file to describe how to run your code.
- Zip your code and report in a single file, named as *A3_studnet ID_name.zip*.