
Course Assignments
for

Information Visualization in Practice
1DV801 – Fall 2021

Assignment 3

Deadline for this assignment is Oct 11, 2021 at 23:55.

Task 1 *Answer the questions*

Answer the following questions. Some of them are related to the next several lectures, so you might want to listen to the lectures first. But you can already start with task 2.

1. Explain in **detail** the InfoVis Reference Model. What are the strengths of this model?
 2. What kind of interactions are supported by Range Sliders? Is there a way to improve them in order to show more information? Make a short list of pros and cons.
 3. In most of the visualization systems selecting or highlighting a data object in a specific view leads to a highlight in another view. What is this interaction technique called? What are its advantages?
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Task 2 *Generating a scatter plot*

Your task is to create a scatter plot visualization using Tableau software (<https://www.tableau.com/academic/students>). What are the functionalities that Tableau supports for exploring the following data sets? Are there any interaction capabilities available?

<http://cs.lnu.se/isovis/courses/fall21/1dv801/assignments/data1.csv>

<http://cs.lnu.se/isovis/courses/fall21/1dv801/assignments/data2.csv>

Note that you are not allowed to modify the format or the contents of the provided data set files! There is one attribute of categorical nature. You might want to use color or shape to distinguish such attributes. Do you notice anything interesting regarding these datasets?

Please, prepare a report (PDF) with your results and upload it to Moodle by the given deadline! Also, do not forget to include screenshots of your scatter plot. If you have questions, you can contact Angelos Chatzimparmpas via email (angelos.chatzimparmpas@lnu.se). You will have to present your work on Oct 12, 15:15-17:00, online via Zoom.

Please note: any kind of plagiarism is not acceptable!