FTK
Department of Computer Science
Linnæus University

Fall 2013 – LP2

Course Assignments for Information Visualization 4DV300 – Fall 13

2nd assignment

Deadline for this assignment is Dec 3, 2013.

Task 1 *Answer the questions*

Answer the following questions. The questions are part of the next two 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?

Task 2 *Implementing a scatter plot*
Your task is to implement a scatter plot visualization. You can use whatever programming language you want, however a **runnable (executable)** application should be provided together with a source code and a short *readme.txt* file with the instructions on how to run the program. Your application should be able to load and visualize similar data such as the one found in Moodle and here:

http://cs.lnu.se/isovis/courses/fall13/4dv300/assignments/data.csv

The scatter plot axes range should be normalized automatically based on the data values presented on the file. There is one attribute of categorical nature. You might want to use color or shape to distinguish such attributes. Do you notice something interesting regarding this dataset?

Please put all files in an archive (*.zip*) and upload it in Moodle before the given deadline! If you have questions about the assignments you can contact Björn Zimmer via email (bjorn.zimmer@lnu.se).
Note: Do not forget to include the course code in the email subject field (4DV300).