DFM
Computer Science Department

Linnæus University

Course Assignments
for

Information Visualization
4DV300 – Fall 10

2nd assignment
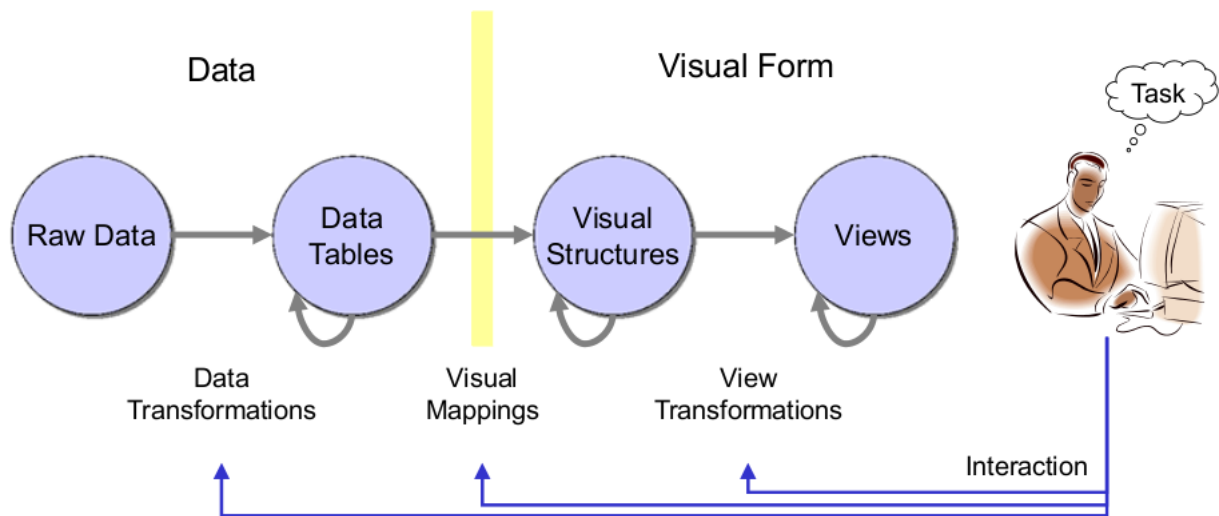Deadline for this assignment is Dec 16, 2010.

Task 1 *Answer the questions*

Answer the following questions:

1. 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.

2. In most of the visualization systems selecting or highlighting of a data object in a specific view leads to a highlight in another view. What is this interaction technique called? What are its advantages?

3. When animating a given change, the number of frames over which the change takes place can have a significant impact on the user's comprehension and satisfaction. Describe the problems that can occur when changes are too fast or too slow?

4. What is the difference between Overview + Details and Focus + Context? Try to describe pros and cons of each approach.

5. What is the difference between the Graphic Fisheye and Logic Fisheye views? Can they be combined? If yes how (an example perhaps)?

6. What are Polyfocal Displays? What are they used for? Draw the transformation function for Polyfocal Displays.

7. Describe the idea behind Hyperbolic Spaces. Describe the possible interactions in Hyperbolic Trees.

Task 2 *Detailed Explanation*
Explain in detail the InfoVis Reference Model. What are the strengths of this model?

Please prepare a report with your results and send it to Ilir Jusufi via email by the given deadline!
Note: Include the course code in the email subject field: 4DV300