



Course Assignments
for
Applied Information Visualization
4DV301 – Spring 12
2nd assignment
Deadline for this assignment is Apr 19, 2012.

Task 1 *Conceptual Design*

Your 2nd task is to design a visualization tool for a multivariate data set (you are encouraged to work in groups of two students). You have to make a conceptual design, which means that you do not need to implement the visualization at this point. You should simply draw a visualization and illustrate interaction ideas on a paper (you can use software tools for drawing if you like). Before you begin to create your visualization, think about the data set and what would people like to do with it. What would one want to know, how can he/she find specific information, what other tasks would one like to perform with the data? Your visualization should help users in performing these tasks. Therefore, you should select what would be the most convenient visualization and interaction techniques to support those tasks.

You should submit a report with detailed images of your visualization and an explanation about it. You should explain how the user is able to perform various tasks. Your tool **should** visually show if there is a correlation between "Children in poor homes" and "Infant mortality" columns in the provided dataset (check the URL below). Your design **should** support at least one other task beside the one specified by us (such as browsing, comparison etc).

Additionally, we would like to have your opinion about the advantages and disadvantages of your design. You should also implement a parser for the dataset. Write a test program (JAVA) for your parser that will print out the complete dataset. However, you are not encouraged to implement the visualization part, since you have to get approval if your conceptual design meets the requirements. The dataset is comprised of different statistical data collected about different countries. There are some missing information so the tool should handle them accordingly.

Please download the dataset from:

<http://stats.oecd.org/Index.aspx?DataSetCode=CWB>

Please, include all your assignment files in *zip archive* and upload the archive to Blackboard by the given deadline!

Note: Include the course code in the email subject field (4DV301) in case you have inquiries about the assignment.