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Course Assignments  
for  
Applied Information Visualization  
4DV301 – Spring 10

1st assignment

Deadline for this assignment is Apr 29, 2010.

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**Task 1** *Conceptual Design*

Your first assignment 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 task 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 images of your visualization and an explanation about it. You should explain how the user is able to perform various tasks (your visualization should support at least two tasks). Also, we would like to have your opinion about the advantages and disadvantages of your design. You should also implement a parser for the dataset (given in XML format), which is a list of attributes of various mobile phones. Write a test program 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.

Dataset:

[http://phonescomplete.com/phones/search?frequency\\_900=true](http://phonescomplete.com/phones/search?frequency_900=true)

For an overview about the dataset check:

<http://phonescomplete.com/phones>

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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: 4DV301