Information visualization

Joel Lanir  
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10h00-13h00  
Room 7 – Palazzo Piomarta – Corso Bettini, 84 – Rovereto  

Abstract: Information visualization is the process of representing abstract data in a graphical way in order to be able to better analyze, understand and present the data. For example, the most well-known visualization charts are the bar chart, line chart, and pie chart, which are commonly used in presenting simple data. The purpose of the visualization is to be able to reveal the basic structure of big or abstract data using a visual representation, making use of the strong processing capabilities of human perception, so the user can understand the underlying structures behind the data. This workshop will introduce the basic principles of information visualization, teach which chart to use under which conditions, how (not) to lie with visualizations, and show several known and less-known visualization techniques to represent various types of data including temporal, spatial, and multi-dimensional data. In addition, if we have time, we will also learn how to use Tableau, a powerful and intuitive tool to visualize data.  

About the speaker: Joel Lanir is a senior lecture and faculty member in the Information Systems department at the University of Haifa, Israel, where he leads the Haifa human-computer interaction and visualization lab. His research interests lie in the general areas of human-computer interaction and information visualization. More specifically Joel is doing research in the topics of mobile and context-aware computing and the design and evaluation of novel technologies such as augmented reality, wearable computing and smart environments. Within the information visualization, Joel is focusing mostly on the evaluation of information visualization techniques. Dr. Lanir received his PhD in computer science from the University of British Columbia. His research was supported by the European Union (FP7), Israel Science Foundation, Israel’s chief scientist and more. Joel regularly publishes in top-tier HCI conferences and journals (CHI, CSCW, HCI journal, IJHCS) and has received the CHI best paper among other awards.  

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