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Data Representations, Transformations, and Statistics for Visual Reasoning

Ross Maciejewski

SYNTHESIS LECTURES ON VISUALIZATION

David Ebert, *Series Editor*

Data Representations Transformations And Statistics For Visual Reasoning Synthesis Lectures On Visualization

Tamara Munzner



Data Representations Transformations And Statistics For Visual Reasoning Synthesis Lectures On Visualization:

Data Representations, Transformations, and Statistics for Visual Reasoning Ross Maciejewski, 2011-05-10

Analytical reasoning techniques are methods by which users explore their data to obtain insight and knowledge that can directly support situational awareness and decision making. Recently the analytical reasoning process has been augmented through the use of interactive visual representations and tools which utilize cognitive design and perceptual principles. These tools are commonly referred to as visual analytics tools and the underlying methods and principles have roots in a variety of disciplines. This chapter provides an introduction to young researchers as an overview of common visual representations and statistical analysis methods utilized in a variety of visual analytics systems. The application and design of visualization and analytical algorithms are subject to design decisions, parameter choices, and many conflicting requirements. As such, this chapter attempts to provide an initial set of guidelines for the creation of the visual representation, including pitfalls and areas where the graphics can be enhanced through interactive exploration. Basic analytical methods are explored as a means of enhancing the visual analysis process, moving from visual analysis to visual analytics. Table of Contents, Data Types, Color Schemes, Data Preconditioning, Visual Representations, and Analysis Summary.

Data Representations, Transformations, and Statistics for Visual Reasoning Ross Maciejewski, 2022-06-01. Analytical reasoning techniques are methods by which users explore their data to obtain insight and knowledge that can directly support situational awareness and decision making. Recently the analytical reasoning process has been augmented through the use of interactive visual representations and tools which utilize cognitive design and perceptual principles. These tools are commonly referred to as visual analytics tools and the underlying methods and principles have roots in a variety of disciplines. This chapter provides an introduction to young researchers as an overview of common visual representations and statistical analysis methods utilized in a variety of visual analytics systems. The application and design of visualization and analytical algorithms are subject to design decisions, parameter choices, and many conflicting requirements. As such, this chapter attempts to provide an initial set of guidelines for the creation of the visual representation, including pitfalls and areas where the graphics can be enhanced through interactive exploration. Basic analytical methods are explored as a means of enhancing the visual analysis process, moving from visual analysis to visual analytics. Table of Contents, Data Types, Color Schemes, Data Preconditioning, Visual Representations, and Analysis Summary.

Interactive GPU-based Visualization of Large Dynamic Particle Data Martin Falk, Sebastian Grottel, Michael Krone, Guido Reina, 2022-05-31. Prevalent types of data in scientific visualization are volumetric data, vector field data, and particle-based data. Particle data typically originates from measurements and simulations in various fields such as life sciences or physics. The particles are often visualized directly, that is, by simple representants like spheres. Interactive rendering facilitates the exploration and visual analysis of the data. With increasing data set sizes in terms of particle numbers, interactive high-quality visualization is a challenging task. This is especially true

for dynamic data or abstract representations that are based on the raw particle data This book covers direct particle visualization using simple glyphs as well as abstractions that are application driven such as clustering and aggregation It targets visualization researchers and developers who are interested in visualization techniques for large dynamic particle based data Its explanations focus on GPU accelerated algorithms for high performance rendering and data processing that run in real time on modern desktop hardware Consequently the implementation of said algorithms and the required data structures to make use of the capabilities of modern graphics APIs are discussed in detail Furthermore it covers GPU accelerated methods for the generation of application dependent abstract representations This includes various representations commonly used in application areas such as structural biology systems biology thermodynamics and astrophysics

Design of Visualizations for Human-Information Interaction Kamran Sedig,Paul Parsons,2022-05-31 Interest in visualization design has increased in recent years While there is a large body of existing work from which visualization designers can draw much of the past research has focused on developing new tools and techniques that are aimed at specific contexts Less focus has been placed on developing holistic frameworks models and theories that can guide visualization design at a general level a level that transcends domains data types users and other contextual factors In addition little emphasis has been placed on the thinking processes of designers including the concepts that designers use while they are engaged in a visualization design activity In this book we present a general holistic framework that is intended to support visualization design for human information interaction The framework is composed of a number of conceptual elements that can aid in design thinking The core of the framework is a pattern language consisting of a set of 14 basic abstract patterns and a simple syntax for describing how the patterns are blended We also present a design process made up of four main stages for creating static or interactive visualizations The 4 stage design process places the patterns at the core of designers thinking and employs a number of conceptual tools that help designers think systematically about creating visualizations based on the information they intend to represent Although the framework can be used to design static visualizations for simple tasks its real utility can be found when designing visualizations with interactive possibilities in mind in other words designing to support a human information interactive discourse This is especially true in contexts where interactive visualizations need to support complex tasks and activities involving large and complex information spaces The framework is intended to be general and can thus be used to design visualizations for diverse domains users information spaces and tasks in different fields such as business intelligence health and medical informatics digital libraries journalism education scientific discovery and others Drawing from research in multiple disciplines we introduce novel concepts and terms that can positively contribute to visualization design practice and education and will hopefully stimulate further research in this area

Image-Based Visualization Christophe Hurter,2022-05-31 Our society has entered a data driven era one in which not only are enormous amounts of data being generated daily but there are also growing expectations placed on the analysis of this

data Some data have become simply too large to be displayed and some have too short a lifespan to be handled properly with classical visualization or analysis methods In order to address these issues this book explores the potential solutions where we not only visualize data but also allow users to be able to interact with it Therefore this book will focus on two main topics large dataset visualization and interaction Graphic cards and their image processing power can leverage large data visualization but they can also be of great interest to support interaction Therefore this book will show how to take advantage of graphic card computation power with techniques called GPGPUs general purpose computing on graphics processing units As specific examples this book details GPGPU usages to produce fast enough visualization to be interactive with improved brushing techniques fast animations between different data representations and view simplifications i e static and dynamic bundling techniques Since data storage and memory limitation is less and less of an issue we will also present techniques to reduce computation time by using memory as a new tool to solve computationally challenging problems We will investigate innovative data processing techniques while classical algorithms are expressed in data space e g computation on geographic locations we will express them in graphic space e g raster map like a screen composed of pixels This consists of two steps 1 a data representation is built using straightforward visualization techniques and 2 the resulting image undergoes purely graphical transformations using image processing techniques This type of technique is called image based visualization The goal of this book is to explore new computing techniques using image based techniques to provide efficient visualizations and user interfaces for the exploration of large datasets This book concentrates on the areas of information visualization visual analytics computer graphics and human computer interaction This book opens up a whole field of study including the scientific validation of these techniques their limitations and their generalizations to different types of datasets

Semantic Interaction for Visual Analytics Alex Endert, 2022-05-31 This book discusses semantic interaction a user interaction methodology for visual analytic applications that more closely couples the visual reasoning processes of people with the computation This methodology affords user interaction on visual data representations that are native to the domain of the data User interaction in visual analytics systems is critical to enabling visual data exploration Interaction transforms people from mere viewers to active participants in the process of analyzing and understanding data This discourse between people and data enables people to understand aspects of their data such as structure patterns trends outliers and other properties that ultimately result in insight Through interacting with visualizations users engage in sensemaking a process of developing and understanding relationships within datasets through foraging and synthesis The book provides a description of the principles of semantic interaction providing design guidelines for the integration of semantic interaction into visual analytics examples of existing technologies that leverage semantic interaction and a discussion of how to evaluate these technologies Semantic interaction has the potential to increase the effectiveness of visual analytic technologies and opens possibilities for a fundamentally new design space for user interaction in visual analytics systems

Interaction for Visualization Christian

Tominski,2022-06-01 Visualization has become a valuable means for data exploration and analysis Interactive visualization combines expressive graphical representations and effective user interaction Although interaction is an important component of visualization approaches much of the visualization literature tends to pay more attention to the graphical representation than to interaction The goal of this work is to strengthen the interaction side of visualization Based on a brief review of general aspects of interaction we develop an interaction oriented view on visualization This view comprises five key aspects the data the tasks the technology the human as well as the implementation Picking up these aspects individually we elaborate several interaction methods for visualization We introduce a multi threading architecture for efficient interactive exploration We present interaction techniques for different types of data e g multivariate data spatio temporal data graphs and different visualization tasks e g exploratory navigation visual comparison visual editing With respect to technology we illustrate approaches that utilize modern interaction modalities e g touch tangibles proxemics as well as classic ones While the human is important throughout this work we also consider automatic methods to assist the interactive part In addition to solutions for individual problems a major contribution of this work is the overarching view of interaction in visualization as a whole This includes a critical discussion of interaction the identification of links between the key aspects of interaction and the formulation of research topics for future work with a focus on interaction

User-Centered Evaluation of Visual Analytics Jean Scholtz,2022-05-31 Visual analytics has come a long way since its inception in 2005 The amount of data in the world today has increased significantly and experts in many domains are struggling to make sense of their data Visual analytics is helping them conduct their analyses While software developers have worked for many years to develop software that helps users do their tasks this task is becoming more and more onerous as understanding the needs and data used by expert users requires more than some simple usability testing during the development process The need for a user centered evaluation process was envisioned in Illuminating the Path the seminal work on visual analytics by James Thomas and Kristin Cook in 2005 We have learned over the intervening years that not only will user centered evaluation help software developers to turn out products that have more utility the evaluation efforts can also help point out the direction for future research efforts This book describes the efforts that go into analysis including critical thinking sensemaking and various analytics techniques learned from the intelligence community Support for these components is needed in order to provide the most utility for the expert users There are a good number of techniques for evaluating software that has been developed within the human computer interaction HCI community While some of these techniques can be used as is others require modifications These too are described in the book An essential point to stress is that the users of the domains for which visual analytics tools are being designed need to be involved in the process The work they do and the obstacles in their current processes need to be understood in order to determine both the types of evaluations needed and the metrics to use in these evaluations At this point in time very few published efforts describe more than informal evaluations The purpose of this

book is to help readers understand the need for more user centered evaluations to drive both better designed products and to define areas for future research Hopefully readers will view this work as an exciting and creative effort and will join the community involved in these efforts

Visualization Analysis and Design Tamara Munzner, 2015 Learn How to Design Effective Visualization Systems Visualization Analysis and Design provides a systematic comprehensive framework for thinking about visualization in terms of principles and design choices The book features a unified approach encompassing information visualization techniques for abstract data scientific visualization techniques for spatial data and visual analytics techniques for interweaving data transformation and analysis with interactive visual exploration It emphasizes the careful validation of effectiveness and the consideration of function before form The book breaks down visualization design according to three questions what data users need to see why users need to carry out their tasks and how the visual representations proposed can be constructed and manipulated It walks readers through the use of space and color to visually encode data in a view the trade offs between changing a single view and using multiple linked views and the ways to reduce the amount of data shown in each view The book concludes with six case studies analyzed in detail with the full framework The book is suitable for a broad set of readers from beginners to more experienced visualization designers It does not assume any previous experience in programming mathematics human computer interaction or graphic design and can be used in an introductory visualization course at the graduate or undergraduate level

Visualizing Time Graham Wills, 2011-12-02 Art or Science Which of these is the right way to think of the field of visualization This is not an easy question to answer even for those who have many years experience in making graphical depictions of data with a view to help people understand it and take action In this book Graham Wills bridges the gap between the art and the science of visually representing data He does not simply give rules and advice but bases these on general principles and provide a clear path between them This book is concerned with the graphical representation of time data and is written to cover a range of different users A visualization expert designing tools for displaying time will find it valuable but so also should a financier assembling a report in a spreadsheet or a medical researcher trying to display gene sequences using a commercial statistical package

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