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timely collaboration between the field's pioneering, most-respected names The only book on Information Visualization with the depth necessary for use as a text or as a reference for the information professional Text includes the classic source papers as well as a collection of cutting edge work

Since the beginning of the computer age, researchers from many disciplines have sought to facilitate people's use of computers and to provide ways for scientists to make sense of the immense quantities of data coming out of them. One gainful result of these efforts has been the field of information visualization, whose technology is increasingly applied in scientific research, digital libraries, data mining, financial data analysis, market studies, manufacturing production control, and data discovery. This book collects 38 of the key papers on information visualization from a leading and prominent research lab, the University of Maryland's Human-Computer Interaction Lab (HCIL). Celebrating HCIL's 20th anniversary, this book presents a coherent body of work from a respected community that has had many success stories with its research and commercial spin-offs. Each chapter contains an introduction specifically written for this volume by two leading HCI researchers, to describe the connections among those papers and reveal HCIL's individual approach to developing innovations. \*Presents key ideas, novel interfaces, and major applications of information visualization tools, embedded in inspirational prototypes. \*Techniques can be widely applied in scientific research, digital libraries, data mining, financial data analysis, business market studies, manufacturing production control, drug discovery, and genomic studies. \*Provides an "insider" view to the scientific process and evolution of innovation, as told by the researchers themselves. \*This work comes from the prominent and high profile University of Maryland's Human Computer Interaction Lab

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"This is a book about what the science of perception can tell us about visualization. There is a gold mine of information about how we see to be found in more than a century of work by vision researchers. The purpose of this book is to extract from that large body of research literature those design principles that apply to displaying information effectively"--

The overall goal of research in Human-Computer Interaction (HCI) is to improve the experience of people using computers, making that experience more efficient and intuitive. The University of Maryland's Human-Computer Interaction Lab (HCIL) has repeatedly found that the most effective way to improve the human-computer experience is through the visual sense. Information visualization, the branch of research that studies the human-computer visual interface, has become a major theme during the past 10 years at HCIL. This book collects for the first time 38 of the key papers on information visuali.

This full-color text shows readers how to transform data into something meaningful - information. It is meant for anyone interested in the art and science of communicating data to others. Drawing on the author's years of practice and teaching, it bridges the two worlds in ways everyone can participate in and appreciate the beautiful in information.

Information visualization is not only about creating graphical displays of complex and latent information structures. It also contributes to a broader range of cognitive, social, and collaborative activities. This is the first book to examine information visualization from this perspective. This 2nd edition continues the unique and ambitious quest for setting information visualization and virtual environments in a

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unifying framework. It pays special attention to the advances made over the last 5 years and potentially fruitful directions to pursue. It is particularly updated to meet the need for practitioners. The book is a valuable source for researchers and graduate students.

Information Visualization is a relatively young field that is acquiring more and more consensus in both academic and industrial environments. 'Information Visualization' explores the use of computer-supported interactive graphical representations to explain data and amplify cognition. It provides a means to communicate ideas or facts about the data, to validate hypotheses, and facilitates the discovery of new facts via exploration. This book introduces the concepts and methods of Information Visualization in an easy-to-understand way, illustrating how to pictorially represent structured and unstructured data, making it easier to comprehend and interpret. Riccardo Mazza focuses on the human aspects of the process of visualization rather than the algorithmic or graphic design aspects.

This book is the outcome of the Dagstuhl Seminar on "Information Visualization -- Human-Centered Issues in Visual Representation, Interaction, and Evaluation" held at Dagstuhl Castle, Germany, from May 28 to June 1, 2007. Information Visualization (InfoVis) is a relatively new research area, which focuses on the use of visualization techniques to help people understand and analyze data. This book documents and extends the findings and discussions of the various sessions in detail. The seven contributions cover the most important topics: There are general reflections on the value of information visualization; evaluating information visualizations; theoretical foundations of information visualization; teaching information visualization. And specific

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Aspects on creation and collaboration: engaging new audiences for information visualization; process and pitfalls in writing information visualization research papers; and visual analytics: definition, process, and challenges.

A guide to fundamental issues in designing interactive visualizations, exploring ideas of inquiry, design, structured data, and usability. Interactive visualization is emerging as a vibrant new form of communication, providing compelling presentations that allow viewers to interact directly with information in order to construct their own understandings of it. Building on a long tradition of print-based information visualization, interactive visualization utilizes the technological capabilities of computers, the Internet, and computer graphics to marshal multifaceted information in the service of making a point visually. This book offers an introduction to the field, presenting a framework for exploring historical, theoretical, and practical issues. It is not a "how-to" book tied to specific and soon-to-be-outdated software tools, but a guide to the concepts that are central to building interactive visualization projects whatever their ultimate form. The framework the book presents (known as the ASSERT model, developed by the author), allows the reader to explore the process of interactive visualization in terms of choosing good questions to ask; finding appropriate data for answering them; structuring that information; exploring and analyzing the data; representing the data visually; and telling a story using the data. Interactive visualization draws on many disciplines to inform the final representation, and the book reflects this, covering basic principles of inquiry, data structuring, information design, statistics, cognitive theory, usability, working with spreadsheets, the Internet, and storytelling.

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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

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