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# INTERACTIVE DATA VISUALIZATION

FOUNDATIONS, TECHNIQUES, AND APPLICATIONS

MATTHEW WARD | GEORGES GRINSTEIN | DANIEL KEIM

# Interactive Data Visualization Foundations Techniques And Applications

**Min Chen, Helwig Hauser, Penny  
Rheingans, Gerek Scheuermann**



## **Interactive Data Visualization Foundations Techniques And Applications:**

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Improving Usability, Safety and Patient Outcomes with Health Information Technology John A. Bartle-Clar, Gerry Bliss, Elizabeth M. Borycki, Karen L. Courtney, Alex Mu-Hsing Kuo, Andre Kushniruk, 2019-03-15 Information technology is revolutionizing healthcare and the uptake of health information technologies is rising but scientific research and industrial and governmental support will be needed if these technologies are to be implemented effectively to build capacity at regional national and global levels This book Improving Usability Safety and Patient Outcomes with Health Information Technology presents papers from the Information Technology and Communications in Health conference ITCH 2019 held in Victoria Canada from 14 to 17 February 2019 The conference takes a multi perspective view of what is needed to move technology forward to sustained and widespread use by transitioning research findings and approaches into practice Topics range from improvements in usability and training and the need for new and improved designs for information systems user interfaces and interoperable solutions to governmental policy mandates initiatives and the need for regulation The knowledge and insights gained from the ITCH 2019 conference will surely stimulate fruitful discussions and collaboration to bridge research and practice and improve usability safety and patient outcomes and the book will be of interest to all those associated with the development implementation and delivery of health IT solutions

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*Foundations of Data Visualization* Min Chen, Helwig Hauser, Penny Rheingans, Gerik Scheuermann, 2020-08-11 This is the first book that focuses entirely on the fundamental questions in visualization Unlike other existing books in the field it contains discussions that go far beyond individual visual representations and individual visualization algorithms It offers a collection of investigative discourses that probe these questions from different perspectives including concepts that help frame these questions and their potential answers mathematical methods that underpin the scientific reasoning of these questions empirical methods that facilitate the validation and falsification of potential answers and case studies that stimulate hypotheses about potential answers while providing practical evidence for such hypotheses Readers are not instructed to follow a specific theory but their attention is brought to a broad range of schools of thoughts and different ways of investigating fundamental questions As such the book represents the by now most significant collective effort for gathering a large collection of discourses on the foundation of data visualization Data visualization is a relatively young scientific discipline Over the last three decades a large collection of computer supported visualization techniques have been developed and the merits and benefits of using these techniques have been evidenced by numerous applications in practice These technical advancements have given rise to the scientific curiosity about some fundamental questions such as why and how visualization works when it is useful or effective and when it is not what are the primary factors affecting its usefulness and effectiveness and so on This book signifies timely and exciting opportunities to answer such fundamental questions by building on the wealth of knowledge and experience accumulated in developing and deploying visualization technology in practice

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