

Interactive And Dynamic Graphics For Data Analysis With R And Ggobi

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bringing together scholars from around the world this collection examines many of the historical developments in making data visible through charts graphs thematic maps and now interactive displays today we are used to seeing data portrayed in a dizzying array of graphic forms virtually any quantified knowledge from social and physical science to engineering and medicine as well as business government or personal activity has been visualized yet the methods of making data visible are relatively new innovations most stemming from eighteenth and nineteenth century innovations that arose as a logical response to a growing desire to quantify everything from science economics and industry to population health and crime innovators such as playfair alexander von humboldt heinrich berghaus john snow florence nightingale francis galton and charles minard began to develop graphical methods to make data and their relations more visible in the twentieth century data design became both increasingly specialized within new and existing disciplines science engineering social science and medicine and at the same time became further democratized with new forms that make statistical business and government data more accessible to the public at the close of the twentieth century and the beginning of the twenty first an explosion in interactive digital data design has exponentially increased our access to data the contributors analyze this fascinating history through a variety of critical approaches including visual rhetoric visual culture genre theory and fully contextualized historical scholarship

the handbook of computational statistics concepts and methods second edition is a revision of the first edition published in 2004 and contains additional comments and updated information on the existing chapters as well as three new chapters addressing recent work in the field of computational statistics this new edition is divided into 4 parts in the same way as the first edition it begins with how computational statistics became the backbone of modern data science ch 1 an overview of the field of computational statistics how it emerged as a separate discipline and how its own development mirrored that of hardware and software including a discussion of current active research the second part chs 2 15 presents several topics in the supporting field of statistical computing emphasis is placed on the need for fast and accurate numerical algorithms and some of the basic methodologies for transformation database handling high dimensional data and graphics treatment are discussed the third part chs 16 33 focuses on statistical methodology special attention is given to smoothing iterative procedures simulation and visualization of multivariate data lastly a set of selected applications chs 34 38 like bioinformatics medical imaging finance econometrics and network intrusion detection highlight the usefulness of computational statistics in real world applications

annotation an easy to follow tutorial that introduces developers programmers and designers to scalable vector graphics svg micah laaker is the art director of a leading new york development firm that implemented battlebots com the first commercial application of svg distribution of the adobe svg viewer is expected to exceed 50 million by the end of 2001 provides a clear introduction to svg a technology that is set to revolutionize the way graphics function on the sams teach yourself svg in 24 hours provides a thorough understanding of the technology complete with working examples and practical answers to common development questions the book focuses on how to create imagery in svg for static and dynamic graphics micah laaker is the art director of iguana studios inc a leading new york city based creative digital services firm iguana received a contract from adobe systems to create the first commercial application of svg battlebots com laaker and iguana have won numerous awards for design and development including the 2000 marketing association award he has lectured on new media topics at new york s fordham university and serves as a judge of advertising for the annual new york festivals award committee his corporate and entertainment clients have included disney channel sprint pcs lockheed martin and adobe systems

although no one is probably too enthused about the idea it is a fact that the development of most empirical sciences to a great extent depends on the development of data analysis methods and techniques which due to the necessity of application of computers for that purpose actually means that it practically depends on the advancement and orientation of computer statistics every other year the international association for statistical computing sponsors the organization of meetings of individual s professional77y involved in computational statistics since these meetings attract professionals from all over the world they are a good sample for the estimation of trends in this area which some believe is a statistics proper while others claim it is computer science it seems though that an increasing number of colleagues treat it as an independent scientific or at least technical discipline this volume contains six invited papers 41 contributed papers and finally two papers which are formally software descriptions but it was agreed by the program committee that they should be included in a separate section entitled notes about new developments in statistical software due to their special significance for current trends in computational statistics

this book is about using interactive and dynamic plots on a computer screen as part of data exploration and modeling both alone and as a partner with static graphics and non graphical computational methods the area of interactive and dynamic data visualization emerged within statistics as part of research on exploratory data analysis in the late 1960s and it remains an active subject of research today as its use in practice continues to grow it now makes substantial contributions within computer science as well as part of the growing fields of information visualization and data mining especially visual data mining the material in this book includes an introduction to data visualization explaining how it differs from other types of visualization a description of four toolboxes of interactive and dynamic graphical methods an approach for exploring missing values in

data an explanation of the use of these tools in cluster analysis and supervised classification an overview of additional material available on the web a description of the data used in the analyses and exercises the book's examples use the software R and ggobi R Ihaka Gentleman 1996 R Development Core Team 2006 is a free software environment for statistical computing and graphics it is most often used from the command line provides a wide variety of statistical methods and includes high quality static graphics rare in the statistics department of the University of Auckland and is now developed and maintained by a global collaborative effort

this groundbreaking book defines the emerging field of information visualization and offers the first ever collection of the classic papers of the discipline with introductions and analytical discussions of each topic and paper the authors' intention is to present papers that focus on the use of visualization to discover relationships using interactive graphics to amplify thought this book is intended for research professionals in academia and industry new graduate students and professors who want to begin work in this burgeoning field professionals involved in financial data analysis statistics and information design scientific data managers and professionals involved in medical bioinformatics and other areas features full color reproduction throughout author power team an exciting and 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

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