



Interactive Data Visualization: Foundations, Techniques, and Applications, Second Edition (360 Degree Business)

By Matthew O. Ward, Georges Grinstein, Daniel Keim

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An Updated Guide to the Visualization of Data for Designers, Users, and Researchers

Interactive Data Visualization: Foundations, Techniques, and Applications, Second Edition provides all the theory, details, and tools necessary to build visualizations and systems involving the visualization of data. In color throughout, it explains basic terminology and concepts, algorithmic and software engineering issues, and commonly used techniques and high-level algorithms. Full source code is provided for completing implementations.

New to the Second Edition

- New related readings, exercises, and programming projects
- Better quality figures and numerous new figures
- New chapter on techniques for time-oriented data

This popular book continues to explore the fundamental components of the visualization process, from the data to the human viewer. For developers, the book offers guidance on designing effective visualizations using methods derived from human perception, graphical design, art, and usability analysis. For practitioners, it shows how various public and commercial visualization systems are used to solve specific problems in diverse domains. For researchers, the text describes emerging technology and hot topics in development at academic and industrial centers today.

Each chapter presents several types of exercises, including review questions and problems that motivate readers to build on the material covered and design alternate approaches to solving a problem. In addition, programming projects encourage readers to perform a range of tasks, from the simple implementation of

algorithms to the extension of algorithms and programming techniques.

Web Resource

A supplementary website includes downloadable software tools and example data sets, enabling hands-on experience with the techniques covered in the text. The site also offers links to useful data repositories and data file formats, an up-to-date listing of software packages and vendors, and instructional tools, such as reading lists, lecture slides, and demonstration programs.

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Editorial Review

Review

Praise for the First Edition:

A 2010 *CHOICE* Outstanding Academic Title

"College-level collections strong in concepts and theory surrounding data visualization will find **Interactive Data Visualization: Foundations, Techniques, and Applications** to be a powerful addition, covering all the details and tools needed for building visualizations around data. From math and statistical graphs to cartography and scientific displays, this offers plenty of details for creating visual displays of data, offering color illustrations throughout and plenty of refinement details."

?*The Midwest Book Review*, August 2011

"With chapters on elaborating on the importance of visualization, understanding the data without it, the relation to the human eyes and mind, what technology has brought in the avenues of displaying and interacting data, no concept is really left untouched. Enhanced with example data, samples, a history of computer graphics, and more, **Interactive Data Visualization** is a solid text to have on hand for any community or college library collection."

?James A. Cox, *The Midwest Book Review*, August 2010

About the Author

Matthew O. Ward was a professor in the Department of Computer Science at Worcester Polytechnic Institute. Dr. Ward's research focused on computer graphics, animation, image processing, computer vision, and data and information visualization.

Georges Grinstein is a professor in the Department of Computer Science and director of both the Institute for Visualization and Perception Research and the Center for Biomolecular and Medical Informatics at the University of Massachusetts Lowell. Dr. Grinstein's research encompasses visual analytics, human computing, perceptual computing, information computing, and visualization systems engineering.

Daniel Keim is a professor in the Department of Computer and Information Science and head of the Data Analysis and Visualization group at the University of Konstanz. Dr. Keim's research interests include databases, data mining, information visualization, and visual analytics.

Users Review

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Christina Epp:

This Interactive Data Visualization: Foundations, Techniques, and Applications, Second Edition (360 Degree Business) book is simply not ordinary book, you have it then the world is in your hands. The benefit you

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Carissa Ware:

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