



the functional art

**an introduction to
information graphics
and visualization**

alberto cairo

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Includes a complete introductory information graphics video course

The Functional Art An Introduction To Information Graphics And Visualization

Sarah K. C. Mauldin



The Functional Art An Introduction To Information Graphics And Visualization:

The Functional Art Alberto Cairo, 2012-08-22 Unlike any time before in our lives we have access to vast amounts of free information. With the right tools we can start to make sense of all this data to see patterns and trends that would otherwise be invisible to us. By transforming numbers into graphical shapes we allow readers to understand the stories those numbers hide. In this practical introduction to understanding and using information graphics you will learn how to use data visualizations as tools to see beyond lists of numbers and variables and achieve new insights into the complex world around us. Regardless of the kind of data you're working with, business, science, politics, sports, or even your own personal finances, this book will show you how to use statistical charts, maps, and explanation diagrams to spot the stories in the data and learn new things from it. You will also get to peek into the creative process of some of the world's most talented designers and visual journalists, including Condé Nast Traveler's John Grimwade, National Geographic Magazine's Fernando Baptista, The New York Times' Steve Duenes, The Washington Post's Hannah Fairfield, Hans Rosling of the Gapminder Foundation, Stanford's Geoff McGhee, and European superstars Moritz Stefaner, Jan Willem Tulp, Stefanie Posavec, and Gregor Aisch. The book also includes a DVD-ROM containing over 90 minutes of video lessons that expand on core concepts explained within the book and includes even more inspirational information graphics from the world's leading designers. The first book to offer a broad hands-on introduction to information graphics and visualization, *The Functional Art* reveals why data visualization should be thought of as functional art rather than fine art. How to use color, type, and other graphic tools to make your information graphics more effective, not just better looking. The science of how our brains perceive and remember information. Best practices for creating interactive information graphics. A comprehensive look at the creative process behind successful information graphics. An extensive gallery of inspirational work from the world's top designers and visual artists. On the DVD-ROM. In this introductory video course on information graphics, Alberto Cairo goes into greater detail with even more visual examples of how to create effective information graphics that function as practical tools for aiding perception. You will learn how to incorporate basic design principles in your visualizations, create simple interfaces for interactive graphics, and choose the appropriate type of graphic forms for your data. Cairo also deconstructs successful information graphics from The New York Times and National Geographic magazine with sketches and images not shown in the book. All of Peachpit's eBooks contain the same content as the print edition. You will find a link in the last few pages of your eBook that directs you to the media files. Helpful tips: If you are able to search the book, search for "Where are the lesson files." Go to the very last page of the book and scroll backwards. You will need a web-enabled device or computer in order to access the media files that accompany this eBook. Entering the URL supplied into a computer with web access will allow you to get to the files. Depending on your device, it is possible that your display settings will cut off part of the URL. To make sure this is not the case, try reducing your font size and turning your device to a landscape view. This should cause the full URL to appear. [The Functional Art](#) Alberto Cairo, 2012. In this

introductory video course on information graphics Alberto Cairo goes into greater detail with even more visual examples of how to create effective information graphics that function as practical tools for aiding perception You ll learn how to incorporate basic design principles in your visualizations create simple interfaces for interactive graphics and choose the appropriate type of graphic forms for your data Cairo also deconstructs successful information graphics from The New York Times and National Geographic magazine with sketches and images not shown in the book Resource description page

Data Visualizations and Infographics Sarah K. C. Mauldin,2015-08-16 Graphics which visually represent data or complex ideas are oftentimes easier for people to understand and digest than standalone statistics A map shaded with different colors to represent religious affiliations or income levels enables researchers to quickly identify trends and patterns New free tools and applications offer librarians the opportunity to organize and manipulate data to quickly create these helpful graphics Learn how to overlay data sets on maps create infographics for library services and instruction use mindmapping for group brainstorming sessions produce detailed timelines process flowcharts diagrams and much more in this complete how to guidebook This complete how to guidebook provides you with the tools and inspiration you need to use infographics and data visualization techniques in your library to knock your audience s socks off as you tell your story in a visual format that can be consumed and understood at a glance You will learn how to use the tools you already have to create a simple infographic create a library services infographic using Piktochart create instructional infographics with Easel ly create interactive timelines mindmap your brainstorming meetings create library flowcharts and diagrams using Creately create interactive maps with imported data andcreate complex data visualizations **The Best American Infographics**

2014 Gareth Cook,2014-10-07 Year two of this fresh timely beautiful addition to the Best American series introduced by Nate Silver The rise of infographics across virtually all print and electronic media reveals patterns in our lives and worlds in fresh and surprising ways As we find ourselves in the era of big data where information moves faster than ever infographics provide us with quick often influential bursts of art and knowledge to digest tweet share go viral Best American Infographics 2014 captures the finest examples from the past year of this mesmerizing new way of seeing and understanding our world Guest introducer Nate Silver brings his unparalleled expertise and lively analysis to this visually compelling new volume

International Encyclopedia of Human Geography ,2019-11-29 International Encyclopedia of Human Geography Second Edition Fourteen Volume Set embraces diversity by design and captures the ways in which humans share places and view differences based on gender race nationality location and other factors in other words the things that make people and places different Questions of for example politics economics race relations and migration are introduced and discussed through a geographical lens This updated edition will assist readers in their research by providing factual information historical perspectives theoretical approaches reviews of literature and provocative topical discussions that will stimulate creative thinking Presents the most up to date and comprehensive coverage on the topic of human geography Contains

extensive scope and depth of coverage Emphasizes how geographers interact with understand and contribute to problem solving in the contemporary world Places an emphasis on how geography is relevant in a social and interdisciplinary context

The Best American Infographics 2015 Maria Popova,2015 The latest addition to the celebrated Best American series featuring the most creative and effective visualizations of data from the past year introduced by Brain Pickings creator Maria Popova

Designing News Francesco Franchi,2013 Francesco Franchi s perceptive book about the future of the news and media industries in our digital age

The Truthful Art Alberto Cairo,2015-12-15 The Truthful Art is an introduction to data reasoning and statistical and cartographical representation written for anyone who wishes to communicate effectively including journalists graphic designers scientists and business professionals A follow up to The Functional Art it goes into the specifics of how to design appealing credible and informative infographics and data visualizations Part 1 in The Truthful Art provides a broad introduction to statistics written with journalists and designers in mind Cairo avoids using jargon and formulas focusing instead on how to manage and interpret data sets and how to extract stories from them In Part 2 Cairo gets down to business giving specific advice on how to use charts and maps in infographics and visualization Readers will learn what kind of statistical charts exist and how to use them correctly how to talk about maps with an introduction to cartography terms such as projection scale and symbolization the basics of making maps including how to create locator maps and the main kinds of thematic maps choropleth isopleth proportional symbol etc and how to use them In Part 3 Cairo leaves the classroom and enters the real world with an in depth look at how information graphics and visualization teams are organized at publications around the world including The New York Times La Naci n Costa Rica Estado de S o Paulo Brazil and more He also explains how to develop a successful style book for graphics using sample pages from several real style books as examples Part 4 the last section of the book features interviews with leading designers of charts and maps including the talented Jer Thorp Amanda Cox Ben Fry and more

Proceedings, Information Visualization Steve Eick,Nahum Gershon,1995 Contains the proceedings of the October 1995 symposium organized by session visualizing diagrams and functional designs four papers visualizing information spaces four papers and visualizing hierarchies and data bases three papers The final section offers seven case studies Includes 18 p

Undergraduate and Graduate Courses and Programs Iowa State University,2009

Documentation Abstracts ,1995

Artbibliographies Modern ,1990 Abstracts of journal articles books essays exhibition catalogs dissertations and exhibition reviews The scope of ARTbibliographies Modern extends from artists and movements beginning with Impressionism in the late 19th century up to the most recent works and trends in the late 20th century Photography is covered from its invention in 1839 to the present A particular emphasis is placed upon adding new and lesser known artists and on the coverage of foreign language literature Approximately 13 000 new entries are added each year Published with title LOMA from 1969 1971

6th International Workshop on Digital Image Processing and Computer Graphics (DIP-97) Emanuel Wenger,Leonid Dimitrov,1998

Pacific

Symposium on Biocomputing ,1996 Courses and Programs Iowa State University,1999 *Proceedings: Tutorials*
National Computer Graphics Association (U.S.). Conference and Exposition,1988 Data Bases and Data Base Systems
Related to NASA's Aerospace Program United States. National Aeronautics and Space Administration. Scientific and
Technical Information Branch,1983 Resources in Human-computer Interaction ,1990 **Proceedings of the ... IEEE**
Conference on Visualization ,1990 **Presentation Graphics** Richard Langendorf,1995 Planning professionals and
educators need to communicate effectively in written work before small informal groups and in large formal meetings
Graphic aids improve your ability to communicate ideas clearly and effectively Presentation Graphics will help all planners
who make presentations or use computer software to create graphics to support such presentations This report is based on
an extensive review of software for creating presentation graphics It addresses the reasons that planners should know about
presentation graphics as well as issues such as user interfaces organization and layout aids color choice and typographic
control It also shows how to organize manage and design a presentation select font libraries and clip art and manage and
compress image files Illustrations are found throughout the book with screens from different programs printed for guidance
and comparison Appendices include information for planners with a more technical background

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