

Rapid Viz Techniques Visualization Ideas

Make information memorable with creative visual design techniques Research shows that visual information is more quickly and easily understood, and much more likely to be remembered. This innovative book presents the design process and the best software tools for creating infographics that communicate. Including a special section on how to construct the increasingly popular infographic resume, the book offers graphic designers, marketers, and business professionals vital information on the most effective ways to present data. Explains why infographics and data visualizations work Shares the tools and techniques for creating great infographics Covers online infographics used for marketing, including social media and search engine optimization (SEO) Shows how to market your skills with a visual, infographic resume Explores the many internal business uses of infographics, including board meeting presentations, annual reports, consumer research statistics, marketing strategies, business plans, and visual explanations of products and services to your customers With Cool Infographics, you'll learn to create infographics to successfully reach your target audience and tell clear stories with your data c9d8087f49

Author Scott Murray teaches you the fundamental concepts and methods of D3, a JavaScript library that lets you express data visually in a web browser c9d8087f49

This book is striking graphic evidence that good design is simply finding the best solution to a problem c9d8087f49

Combining 'how to think' instruction with a 'how to produce' mentality, this book takes readers step-by-step through analysing, designing, and curating information into useful, impactful tools of communication. One of the 'six best books for data geeks' - Financial Times With over 200 images and extensive how-to and how-not-to examples, this new edition has everything students and scholars need to understand and create effective data visualisations. With this book and its extensive collection of online support, readers can: Decide what visualisations work best for their data and their audience using the chart gallery See data visualisation in action and learn the tools to try it themselves Follow online checklists, tutorials, and exercises to build skills and confidence Get advice from the UK's leading data visualisation trainer on everything from getting started to honing the craft c9d8087f49

Specifically, you'll learn how to: Understand the importance of context and audience Determine the appropriate type of graph for your situation Recognize and eliminate the clutter clouding your information Direct your audience's attention to the most important parts of your data Think like a designer and utilize concepts of design in data visualization Leverage the power of storytelling to help your message resonate with your audience Together, the lessons in this book will help you turn your data into high impact visual stories that stick with your audience. Rid your world of ineffective graphs, one exploding 3D pie chart at a time. This book demonstrates how to go beyond conventional tools to reach the root of your data, and how to use your data to create an engaging, informative, compelling story. Storytelling is not an inherent skill, especially when it comes to data visualization, and the tools at our disposal don't make it any easier. Storytelling with Data teaches you the fundamentals of data visualization and how to communicate effectively with data. Don't simply show your data—tell a story with it. You'll discover the power of storytelling and the way to make data a pivotal point in your story. There is a story in your data—Storytelling with Data will give you the skills and power to tell it. The lessons in this illuminative text are grounded in theory, but made accessible through numerous real-world examples—ready for immediate application to your next graph or presentation c9d8087f49

A fresh look at visualization from the author of Visualize This Whether it's statistical charts, geographic maps, or the snappy graphical statistics you see on your favorite news sites, the art of data graphics or visualization is fast becoming a movement of its own. com, with over 66,000 subscribers Focuses on visualization, data graphics that help viewers see trends and patterns they might not otherwise see in a table Includes examples from the author's own illustrations, as well as from professionals in statistics, art, design, business, computer science, cartography, and more Examines standard rules across all visualization applications, then explores when and where you can break those rules Create visualizations that register at all levels, with Data Points: Visualization That Means Something. Shares intriguing ideas from Nathan Yau, author of Visualize This and creator of flowingdata. In Data Points: Visualization That Means Something, author Nathan Yau presents an intriguing complement to his bestseller Visualize This, this time focusing on the graphics side of data analysis. Using examples from art, design, business, statistics, cartography, and online media, he explores both standard-and not so standard-concepts and ideas about illustrating data c9d8087f49

This practical guide describes key issues surrounding innovation, such as the barriers to innovation in healthcare, the opportunities of working across boundaries in open innovation, and the process and tools of exploring the innovation approach. Defining the innovation design challenge 2. Generating innovative ideas 4. Prototyping and testing innovations 5. It is now recognized that innovation in healthcare needs to be a primary

strategy for dealing with the challenges of pressure from consumers and the effort to control costs. The highly-regarded author follows a five-stage process model that presents a systematic base for understanding, and -- more importantly -- performing innovation work: 1. Creating a diffusion plan This user-friendly guide is ideal for all healthcare professionals and healthcare teams, both in training and in practice. The process and tools of exploring the innovation 3 c9d8087f49

Provides information on the methods of visualizing data on the Web, along with example projects and code c9d8087f49

I have 112 pages, measuring twenty centimetres high and twenty centimetres wide. But I'm also a portal to the universe. Hello. And I have the power to show you the wonders of the world. I am a book. I weigh 450 grams c9d8087f49

An architecture portfolio designed by Alex Hogrefe describing 4 original projects with a focus on unique representational techniques and styles c9d8087f49

In a unique board binding that mimics a sketchbook, Drawing Ideas provides a complete foundation in the techniques and methods for effectively communicating to an audience through clear and persuasive drawings. However, the accessibility of this technology means that fewer designers know how to draw by hand, express their ideas spontaneously, and brainstorm effectively. In today's design world, technology for expressing ideas is pervasive; CAD models and renderings created with computer software provide an easy option for creating highly rendered pieces. A primer for design professionals across all disciplines that helps them create compelling and original concept designs by hand--as opposed to on the computer--in order to foster collaboration and win clients c9d8087f49

In Good Charts, dataviz maven Scott Berinato provides an essential guide to how visualization works and how to use this new language to impress and persuade. This book is much more than a set of static rules for making visualizations. What's more, building good charts is quickly becoming a need-to-have skill for managers. Good Charts will help you turn plain, uninspiring charts that merely present information into smart, effective visualizations that powerfully convey ideas. It taps into both well-established and cutting-edge research in visual perception and neuroscience, as well as the emerging field of visualization science, to explore why good charts (and bad ones) create "feelings behind our eyes. No longer. Dataviz—the new language of business A good visualization can communicate the nature and potential impact of information and ideas more powerfully than any other form of communication. " Along the way, Berinato also includes many engaging vignettes of dataviz pros, illustrating the ideas in practice. Berinato lays out a system for thinking visually and building better charts through a

process of talking, sketching, and prototyping. A new generation of tools and massive amounts of available data make it easy for anyone to create visualizations that communicate ideas far more effectively than generic spreadsheet charts ever could. Dataviz today is where spreadsheets and word processors were in the early 1980s—on the cusp of changing how we work. For a long time “dataviz” was left to specialists—data scientists and professional designers. If you’re not doing it, other managers are, and they’re getting noticed for it and getting credit for contributing to your company’s success c9d8087f49

This guide, which attempts to aid designers to visualize their concepts, uses all the developments that have taken place within the field of design over the last five years. The author runs his own design consultancy c9d8087f49

This is information like you have never seen it before - keeping text to a minimum and using unique visuals that offer a blueprint of modern life - a map of beautiful colour illustrations that are tactile to hold and easy to flick through but intriguing and engaging enough to study for hours. A visual guide to the way the world really works Every day, every hour, every minute we are bombarded by information - from television, from newspapers, from the internet, we're steeped in it, maybe even lost in it. Instead, Information is Beautiful contains visually stunning displays of information that blend the facts with their connections, their context and their relationships - making information meaningful, entertaining and beautiful. We need a new way to relate to it, to discover the beauty and the fun of information for information's sake. No dry facts, theories or statistics c9d8087f49

Data Visualization Made Simple is a practical guide to the fundamentals, strategies, and real-world cases for data visualization, an essential skill required in today’s information-rich world. With foundations rooted in statistics, psychology, and computer science, data visualization offers practitioners in almost every field a coherent way to share findings from original research, big data, learning analytics, and more. In nine appealing chapters, the book: examines the role of data graphics in decision-making, sharing information, sparking discussions, and inspiring future research; scrutinizes data graphics, deliberates on the messages they convey, and looks at options for design visualization; and includes cases and interviews to provide a contemporary view of how data graphics are used by professionals across industries Both novices and seasoned designers in education, business, and other areas can use this book’s effective, linear process to develop data visualization literacy and promote exploratory, inquiry-based approaches to visualization problems c9d8087f49

Build real-world Artificial Intelligence applications with Python to intelligently interact with the world around you About This Book Step into the amazing world of intelligent apps

using this comprehensive guide Enter the world of Artificial Intelligence, explore it, and create your own applications Work through simple yet insightful examples that will get you up and running with Artificial Intelligence in no time Who This Book Is For This book is for Python developers who want to build real-world Artificial Intelligence applications. It is used extensively across many fields such as search engines, image recognition, robotics, finance, and so on. During the course of this book, you will find out how to make informed decisions about what algorithms to use in a given context. This book is friendly to Python beginners, but being familiar with Python would be useful to play around with the code. The book provides multiple examples enabling you to create smart applications to meet the needs of your organization. What You Will Learn Realize different classification and regression techniques Understand the concept of clustering and how to use it to automatically segment data See how to build an intelligent recommender system Understand logic programming and how to use it Build automatic speech recognition systems Understand the basics of heuristic search and genetic programming Develop games using Artificial Intelligence Learn how reinforcement learning works Discover how to build intelligent applications centered on images, text, and time series data See how to use deep learning algorithms and build applications based on it In Detail Artificial Intelligence is becoming increasingly relevant in the modern world where everything is driven by technology and data. It will also be useful for experienced Python programmers who are looking to use Artificial Intelligence techniques in their existing technology stacks. Starting from the basics of Artificial Intelligence, you will learn how to develop various building blocks using different data mining techniques. We will explore various real-world scenarios in this book and you'll learn about various algorithms that can be used to build Artificial Intelligence applications. Style and approach This highly practical book will show you how to implement Artificial Intelligence. If you want to add an intelligence layer to any application that's based on images, text, stock market, or some other form of data, this exciting book on Artificial Intelligence will definitely be your guide. You will see how to implement different algorithms to get the best possible results, and will understand how to apply them to real-world scenarios. In every chapter, we explain an algorithm, implement it, and then build a smart application c9d8087f49

Today we are witnessing an increased use of data visualization in society. Across domains such as work, education and the news, various forms of graphs, charts and maps are used to explain, convince and tell stories. In an era in which more and more data are produced and circulated digitally, and digital tools make visualization production increasingly accessible, it is important to study the conditions under which such visual texts are generated, disseminated and thought to be of societal benefit. This book is a contribution to the multi-disciplined and multi-faceted conversation concerning the forms, uses and roles of data visualization in society. Do data visualizations do 'good' or 'bad'. Do they promote understanding and engagement, or do they do ideological work,

privileging certain views of the world over others. The contributions in the book engage with these core questions from a range of disciplinary perspectives c9d8087f49

This beautiful book provides an intimate, behind-the-scenes account of all 24 projects and shares the authors' personal notes and drafts every step of the way. Exploring 12 different themes – from the Olympics to Presidents & Royals and from Movies to Myths & Legends – each pair of visualizations explores different technologies and forms, blurring the boundary between visualization as an exploratory tool and an artform in its own right. The book features: Detailed information on data gathering, sketching, and coding data visualizations for the web, with screenshots of works-in-progress and reproductions from the authors' notebooks Never-before-published technical write-ups, with beginner-friendly explanations of core data visualization concepts Practical lessons based on the data and design challenges overcome during each project Full-color pages, showcasing all 24 final data visualizations This book is perfect for anyone interested or working in data visualization and information design, and especially those who want to take their work to the next level and are inspired by unique and compelling data-driven storytelling. In *Data Sketches*, Nadieh Bremer and Shirley Wu document the deeply creative process behind 24 unique data visualization projects, and they combine this with powerful technical insights which reveal the mindset behind coding creatively c9d8087f49

The success of data visualization is due to the soundness of the basic idea behind it: the use of computer-generated images to gain insight and knowledge from data and its inherent patterns and relationships. Reflecting the heterogeneous structure of Data Visualization, emphasis was placed on these topics: -Visualization Algorithms and Techniques; -Volume Visualization; -Information Visualization; -Multiresolution Techniques; -Interactive Data Exploration. Data visualization is currently a very active and vital area of research, teaching and development. It can serve as an overview for the inquiring scientist, and as a basic foundation for developers. The interplay between various application areas and their specific problem solving visualization techniques is emphasized in this book. The term unites the established field of scientific visualization and the more recent field of information visualization. This book is also suitable as a secondary text for graduate level students in computer science and engineering. This edited volume contains chapters dedicated to surveys of specific topics, and a great deal of original work not previously published illustrated by examples from a wealth of applications. The book will also provide basic material for teaching the state of the art techniques in data visualization. *Data Visualization: The State of the Art* is designed to meet the needs of practitioners and researchers in scientific and information visualization. These concepts are extremely important and have a profound and widespread impact on the methodology of computational science and engineering, as well as on management and administration. A second premise is the utilization of the

broad bandwidth of the human sensory system in steering and interpreting complex processes, and simulations involving data sets from diverse scientific disciplines and large collections of abstract data from many sources. Data Visualization: The State of the Art presents the state of the art in scientific and information visualization techniques by experts in this field c9d8087f49

Presenting such approaches from various disciplines, this book serves as a useful resource for graduates. In view of the increasing amount of data, there is a need to develop visualization techniques to make that data easily understandable. This book discusses the recent trends and developments in the fields of information processing and information visualization c9d8087f49

There are more innovations and more opportunities for interesting work with data than ever before, but there is also an overwhelming amount of quantitative information being published every day. Copyright © Jill Pelto (jillpelto. This is the age of data. Cover image: Landscape of Change uses data about sea level rise, glacier volume decline, increasing global temperatures, and the increasing use of fossil fuels. Includes chapters on big data, statistical and machine learning models, visual perception, high-dimensional data, and maps and geographic data. Whether you are a student considering a career in data science, an analyst who wants to learn more about visualization, or the manager of a team working with data, this book will introduce you to a broad range of data visualization methods. Data visualisation has become big business, because communication is the difference between success and failure, no matter how clever the analysis may have been. Data Visualization: Charts, Maps, and Interactive Graphics gives an overview of a wide range of techniques and challenges, while staying accessible to anyone interested in working with and understanding data. Supported by a website with all code for creating the visualizations, further reading, datasets and practical advice on crafting the images. Features 17 short chapters that can be read in one sitting. These data lines compose a landscape shaped by the changing climate, a world in which we are now living. com). Contains more than 125 visualizations, most created by the author. The ability to visualize data is now a skill in demand across business, government, NGOs and academia. Features: Focusses on concepts and ways of thinking about data rather than algebra or computer code c9d8087f49

Readers will learn to think three-dimensionally and build complex design ideas that are structurally sound and visually clear. While these applications assist the designer in creating physical products, architectural spaces and virtual interfaces, a basic knowledge of sketching and drawing allows the designer to fully exploit the software. The book also illustrates how these basic skills underpin the use of computer-aided design and graphic software. Hundreds of hand-drawn sketches and computer models have been specially

created to demonstrate critical geometry and show how to build on basic forms and exploit principles of perspective to develop sketches into finished illustrations. With its tutorial-based approach, this is a practical guide to both hand- and computer-drawn design. There's also advice on establishing context, shading and realizing more complex forms. Foundational chapters show how these technical skills fit into a deeper and more intuitive feeling for visualisation and representation, while featured case studies of leading designers, artists and architects illustrate the full range of different drawing options available c9d8087f49

Quite simply, this is the must-have reference for scientific computing in Python. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Several resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. For many researchers, Python is a first-class tool mainly because of its libraries for storing, manipulating, and gaining insight from data. With this handbook, you'll learn how to use: IPython and Jupyter: provide computational environments for data scientists using Python NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas: features the DataFrame for efficient storage and manipulation of labeled/columnar data in Python Matplotlib: includes capabilities for a flexible range of data visualizations in Python Scikit-Learn: for efficient and clean Python implementations of the most important and established machine learning algorithms c9d8087f49

Explains how the human brain interprets the visual world around us, as well as the subject of visually communicating the form of an object in easy to understand lessons through the use of drawings, photography, and more c9d8087f49

Explore the basic concepts of color as a tool to highlight, distinguish, or represent a value Understand the importance of redundant coding to ensure you provide key information in multiple ways Use the book's visualizations directory, a graphical guide to commonly used types of data visualizations Get extensive examples of good and bad figures Learn how to use figures in a document or report and how employ them effectively to tell a compelling story. Author Claus O. What visualization type is best for the story you want to tell. How do you make informative figures that are visually pleasing. This practical book takes you through many commonly encountered visualization problems, and it provides guidelines on how to turn large datasets into clear and compelling figures. Effective visualization is the best way to communicate information from the increasingly large and complex datasets in the natural and social sciences. But with the increasing

power of visualization software today, scientists, engineers, and business analysts often have to navigate a bewildering array of visualization choices and options. Wilke teaches you the elements most critical to successful data visualization c9d8087f49

Introduction to Data Science c9d8087f49

He starts by asking specific questions and answers these through data analysis so concepts are learned as a means to answering the questions. Examples of the case studies included are: US murder rates by state, self-reported student heights, trends in world health and economics, the impact of vaccines on infectious disease rates, the financial crisis of 2007-2008, election forecasting, building a baseball team, image processing of hand-written digits, and movie recommendation systems. If you read and understand the chapters and complete the exercises, you will be prepared to learn the more advanced concepts and skills needed to become an expert. No previous knowledge of R is necessary, although some experience with programming may be helpful. The book is divided into six parts: R, data visualization, statistics with R, data wrangling, machine learning, and productivity tools. Introduction to Data Science: Data Analysis and Prediction Algorithms with R introduces concepts and skills that can help you tackle real-world data analysis challenges. The statistical concepts used to answer the case study questions are only briefly introduced, so complementing with a probability and statistics textbook is highly recommended for in-depth understanding of these concepts. The author uses motivating case studies that realistically mimic a data scientist's experience. It also helps you develop skills such as R programming, data wrangling, data visualization, predictive algorithm building, file organization with UNIX/Linux shell, version control with Git and GitHub, and reproducible document preparation. Each part has several chapters meant to be presented as one lecture. It covers concepts from probability, statistical inference, linear regression, and machine learning. This book is a textbook for a first course in data science c9d8087f49

Topics include plotting continuous and categorical variables; layering information on graphics; producing effective "small multiple" plots; grouping, summarizing, and transforming data for plotting; creating maps; working with the output of statistical models; and refining plots to make them more comprehensible. This book provides the practical skills students and practitioners need to visualize quantitative data and get the most out of their research findings. Effective graphics are essential to communicating ideas and a great way to better understand data. Data Visualization builds the reader's expertise in ggplot2, a versatile visualization library for the R programming language. Through a series of worked examples, this accessible primer then demonstrates how to create plots piece by piece, beginning with summaries of single variables and moving on to more complex graphics. Provides hands-on instruction using R and ggplot2 Shows

how the “tidyverse” of data analysis tools makes working with R easier and more consistent. Includes a library of data sets, code, and functions. An accessible primer on how to create effective graphics from data. This book provides students and researchers a hands-on introduction to the principles and practice of data visualization. It explains what makes some graphs succeed while others fail, how to make high-quality figures from data using powerful and reproducible methods, and how to think about data visualization in an honest and effective way. c9d8087f49

It would be wonderful if we could actually visualize data in such a way that we could maximize its potential and tell a story in a clear, concise manner. He explains how to gather, parse, and format data and then design high-quality graphics that help you explore and present patterns, outliers, and relationships. With this full-color book, data visualization guru and author Nathan Yau uses step-by-step tutorials to show you how to visualize and tell stories with data. com, Nathan Yau Offers step-by-step tutorials and practical design tips for creating statistical graphics, geographical maps, and information design to find meaning in the numbers. Details tools that can be used to visualize data-native graphics for the Web, such as ActionScript, Flash libraries, PHP, and JavaScript and tools to design graphics for print, such as R and Illustrator. Contains numerous examples and descriptions of patterns and outliers and explains how to show them. Visualize This demonstrates how to explain data visually so that you can present your information in a way that is easy to understand and appealing. Thanks to the creative genius of Nathan Yau, we can. Wouldn't. Presents a unique approach to visualizing and telling stories with data, from a data visualization expert and the creator of flowingdata. Practical data design tips from a data visualization expert of the modern age. Data doesn't decrease; it is ever-increasing and can be overwhelming to organize in a way that makes sense to its intended audience. c9d8087f49

Learn data visualization classifications, including explanatory, exploratory, and hybrid. Discover how three fundamental influences—the designer, the reader, and the data—shape what you create. Learn how to describe the specific goal of your visualization and identify the supporting data. Decide the spatial position of your visual entities with axes. Encode the various dimensions of your data with appropriate visual properties, such as shape and color. See visualization best practices and suggestions for encoding various specific data types. Delve into different kinds of visualization, including infographics and visual art, and explore the influences at work in each one. This concise book aims to demystify the design process by showing you how to use a linear decision-making process to encode your information visually. Then learn how to apply these concepts to your design process. Data visualization is an efficient and effective medium for communicating large amounts of information, but the design process can often seem like an unexplainable creative endeavor. c9d8087f49

A captivating and unique book for designers, artists, correspondents, friends, and lovers everywhere. For one year, Giorgia Lupi, an Italian living in New York, and Stefanie Posavec, an American in London, mapped the particulars of their daily lives as a series of hand-drawn postcards they exchanged via mail weekly—small portraits as full of emotion as they are data, both mundane and magical. *Dear Data* reproduces in pinpoint detail the full year's set of cards, front and back, providing a remarkable portrait of two artists connected by their attention to the details of their lives—including complaints, distractions, phone addictions, physical contact, and desires. Equal parts mail art, data visualization, and affectionate correspondence, *Dear Data* celebrates "the infinitesimal, incomplete, imperfect, yet exquisitely human details of life," in the words of Maria Popova (*Brain Pickings*), who introduces this charming and graphically powerful book. These details illuminate the lives of two remarkable young women and also inspire us to map our own lives, including specific suggestions on what data to draw and how

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This book gives an overview of modern data visualization methods, both in theory and practice. Coverage also examines graphical methodology for particular areas of statistics, for example Bayesian analysis, genomic data and cluster analysis, as well software for graphics. Modern computing developments have led to big improvements in graphic capabilities and there are many new possibilities for data displays. Visualizing the data is an essential part of any data analysis. It details modern graphical tools such as mosaic plots, parallel coordinate plots, and linked views

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You will find a link in the last few pages of your eBook that directs you to the media files. You'll 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. Entering the URL supplied into a computer with web access will allow you to get to the files. In this practical introduction to understanding and using information graphics, you'll 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. To make sure this is not the case, try reducing your font size and turning your device to a landscape view. 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. You will need a web-enabled device or computer in order to access the media files that accompany this ebook. 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. " Go to

the very last page of the book and scroll backwards. This should cause the full URL to appear. Unlike any time before in our lives, we have access to vast amounts of free information. 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. Helpful tips: If you are able to search the book, search for "Where are the lesson files. 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. All of Peachpit's eBooks contain the same content as the print edition. Cairo also deconstructs successful information graphics from The New York Times and National Geographic magazine with sketches and images not shown in the book. By transforming numbers into graphical shapes, we allow readers to understand the stories those numbers hide. 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. Depending on your device, it is possible that your display settings will cut off part of the URL c9d8087f49

Visualizing with Text uncovers the rich palette of text elements usable in visualizations from simple labels through to documents. The book illustrates many new kinds of visualizations, including microtext lines, skim formatting, and typographic sets that solve some of the shortcomings of well-known visualization techniques. Designers, developers, and academics can use this book as a reference and inspiration for new approaches to visualization in any application that uses text. Key features: More than 240 illustrations to aid inspiration of new visualizations Eight new approaches to data visualization leveraging text Quick reference guide for visualization with text Builds a solid foundation extending current visualization theory Bridges between visualization, typography, text analytics, and natural language processing The author website, including teaching exercises and interactive demos and code, can be found here. Using a multidisciplinary research effort spanning across fields including visualization, typography, and cartography, it builds a solid foundation for the design space of text in visualization c9d8087f49

You're a business professional, not a data scientist. Here's an engaging and entertaining guide to interpreting and drawing insights from any chart, graph, or other data visualization you'll encounter. Not a data expert. How do you make heads or tails of the data visualizations that come across your desk—let alone make critical business decisions based on the information they're designed to convey. Packed with the best four-color examples created in Excel, Tableau, Power BI, and Qlik, among others, this one-stop resource empowers you to extract the most important information from data visualizations quickly and accurately, act on key insights, solve problems, and make the right decisions for your organization every time. In *The Big Picture*, top data visualization consultant Steve Wexler provides the tools for developing the graphical literacy you need to understand the data visualizations that are flooding your inbox—and put that data to use

High performance is demonstrated as a process of devising algorithms for the fast graphics processing units (GPUs) of modern graphics hardware. Coverage includes parallelization on cluster computers with several GPUs, adaptive rendering methods, and non-photorealistic rendering techniques for visualization. This book presents efficient visualization techniques, a prerequisite for the interactive exploration of complex data sets

Now in striking full color, the Second Edition shows readers how to make the research results presented in reports, slideshows, dashboards, posters, and data visualizations more interesting, engaging, and impactful. The Second Edition features an improved layout with larger screenshots, a review of the recent literature on data visualization, and input from a panel of graphic design experts. The book guides students, researchers, evaluators, entrepreneurs, and non-profit workers—anyone reporting data to an outside audience—through design choices in four primary areas: graphics, text, color, and arrangement

In addition to the scenarios there's an entire section of the book that is devoted to addressing many practical and psychological factors you will encounter in your work. The expert authors have a combined 30-plus years of hands-on experience helping people in hundreds of organizations build effective visualizations. A well-designed dashboard can point out risks, opportunities, and more; but common challenges and misconceptions can make your dashboard useless at best, and misleading at worst.) and different platforms (print, desktop, tablet, smartphone, and conference room display) *The Big Book of Dashboards* is the only book that matches great dashboards with real-world business scenarios. By organizing the book based on these scenarios and offering practical and effective visualization examples, *The Big Book of Dashboards* will be the trusted resource that you open when you need to build an effective business dashboard. The

definitive reference book with real-world solutions you won't find anywhere else The Big Book of Dashboards presents a comprehensive reference for those tasked with building or overseeing the development of business dashboards. The Big Book of Dashboards gives you the tools, guidance, and models you need to produce great dashboards that inform, enlighten, and engage. Comprising dozens of examples that address different industries and departments (healthcare, transportation, finance, human resources, marketing, customer service, sports, etc. They have fought many 'best practices' battles and having endured bring an uncommon empathy to help you, the reader of this book, survive and thrive in the data visualization world. It's great to have theory and evidenced-based research at your disposal, but what will you do when somebody asks you to make your dashboard 'cooler' by adding packed bubbles and donut charts c9d8087f49

Suitable for readers with no previous programming experience, R for Data Science is designed to get you doing data science as quickly as possible. This book introduces you to R, RStudio, and the tidyverse, a collection of R packages designed to work together to make data science fast, fluent, and fun. Each section of the book is paired with exercises to help you practice what you've learned along the way. You'll learn how to:

Wrangle—transform your datasets into a form convenient for analysis Program—learn powerful R tools for solving data problems with greater clarity and ease

Explore—examine your data, generate hypotheses, and quickly test them

Model—provide a low-dimensional summary that captures true \"signals\" in your dataset

Communicate—learn R Markdown for integrating prose, code, and results. Authors

Hadley Wickham and Garrett Grolemund guide you through the steps of importing, wrangling, exploring, and modeling your data and communicating the results. You'll get a complete, big-picture understanding of the data science cycle, along with basic tools you need to manage the details. Learn how to use R to turn raw data into insight, knowledge, and understanding c9d8087f49

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