

Download Free D3 Js In Action By Elijah Meeks Pdf File Free

D3.js in Action D3.js in Action D3. Js in Action Data Sketches Storytelling with Data The Big Book of Dashboards Toward Spatial Humanities Data Feminism Son of the Great River Landscape and Power in Early China Assembling Çatalhöyük Digital Methods in the Humanities The Sayings of the Desert Fathers Placing Names Cool Infographics God's Crucible: Islam and the Making of Europe, 570-1215 Congressional Record Learn D3.js House of the Rising Sun Visualizing Graph Data The Path of Individual Liberation The Big Picture: How to Use Data Visualization to Make Better Decisions—Faster Chuang Tzu Interactive Data Visualization for the Web Annual Review of Cultural Heritage Informatics The French Book Trade in Enlightenment Europe Data Points Atlas of Forecasts New Challenges for Data Design Paths ORBIS W. E. B. Du Bois's Data Portraits Jewish Childhood in the Roman World Exploring Big Historical Data: The Historian's Macroscope (Second Edition) The Spatial Humanities Archangel's Heart Interactive Data Visualization for the Web Azure Bonds All-of-a-kind Family Fullstack D3 and Data Visualization

Selling enlightenment traces the output and dissemination of books and how reading tastes changed in the years 1769-1794. Mapping the book trade of the Société Typographique de Neuchâtel (STN), a Swiss publisher-wholesaler which operated throughout Europe, the author reconstructs the cosmopolitan elite culture of the later enlightenment, incorporating many engaging case studies. Enlightenment bestsellers is a comparative study of reading tastes in the final years of old regime Europe. Based on extensive research in the account books of the Swiss publishers, the Société Typographique de Neuchâtel (STN), and related archives, it charts the dissemination of literature and reading tastes across Europe in the years leading up to the French revolution. The companion volumes are the fruit of a five-year database project, the STN database under the French Book Trade in Enlightenment Europe (FBTEE) project. Applying the analytical tools of GIS to new fields of research "Assembling ?alh??k, like archaeological remains, can be read in a number of ways. At one level the volume reports on the exciting new discoveries and advances that are being made in the understanding of the 9000 year-old Neolithic site of ?alh??k. The site has long been central to debates about early village societies and the formation of mega-sites in the Middle East. The current long-term project has made many advances in our understanding of the site that impact our wider understanding of the Neolithic and its spread into Europe from the Middle East. These advances concern use of the environment, climate change, subsistence practices, social and economic organization, the role of religion, ritual and symbolism.

At another level, the volume reports on methodological advances that have been made by team members, including the development of reflexive methods, paperless recording on site, the integrated use of 3D visualization, and interactive archives. The long-term nature of the project allows these various innovations to be evaluated and critiqued. In particular, the volume includes analyses of the social networks that underpin the assembling of data, and documents the complex ways in which arguments are built within quickly transforming alliances and allegiances within the team. In particular, the volume explores how close inter-disciplinarity, and the assembling of different forms of data from different sub-disciplines, allow the weaving together of information into robust, distributed arguments." Every vampire has heard rumor of the mythical place where their kind can daywalk. But what no vampire knows is that this City of Eternal Night actually exists. And its name is New Orleans. For centuries, the fae have protected the city from vampire infestation. But when the bloodsuckers return, the fragile peace in New Orleans begins to crumble. Carefree playboy Augustine, and Harlow, a woman searching for answers about her absent father, are dragged into the war. The fate of the city rests on them --- and their fae blood that can no longer be denied. Book one in the brand new, action-packed urban fantasy Crescent City series, from award winning, House of Comarre author Kristen Painter! This open access book explores the amazing similarity between paths taken by people and many other things in life, and its impact on the way we live, teach and learn. Offering insights into the new scientific field of paths as part of the science of networks, it entertainingly describes the universal nature of paths in large networked structures. It also shows the amazing similarity in the ways humans and other - even nonliving - things navigate in a complex environment, to allow readers to easily grasp how paths emerge in many walks of life, and how they are navigated. Paths is based on the authors recent research in the area of paths on networks, which points to the possible birth of the new science of "paths" as a natural consequence 'and extension) of the science of "networks." The approach is essentially story-based, supported by scientific findings, interdisciplinary approaches, and at times, even philosophical points of view. It also includes short illustrative anecdotes showing the amazing similarities between real-world paths and discusses their applications in science and everyday life. Paths will appeal to network scientists and to anyone interested in popular science. By helping readers to step away from the "networked" view of many recent popular scientific books and start to think of longer paths instead of individual links, it sheds light on these problems from a genuinely new perspective. The path is the goal. The essence behind this short sentence is known to many people around the world, expressed through the interpretations of some of the greatest thinkers like Lao-Tze and Gandhi. It means that it is the journey that counts, not the destination. When speaking about such subjective and intangible things, philosophy and religion are some of the only approaches that are addressed. In this book, the authors address this conventional wisdom from the perspective of natural science. They explore a sequence of steps that leads the reader closer to the nature of paths and accompany him on the search for "the path to paths". Summary D3.js in Action, Second Edition is completely revised and updated for D3 v4 and ES6. It's a practical tutorial for creating interactive graphics and data-driven applications using D3. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats

from Manning Publications. About the Technology Visualizing complex data is hard. Visualizing complex data on the web is darn near impossible without D3.js. D3 is a JavaScript library that provides a simple but powerful data visualization API over HTML, CSS, and SVG. Start with a structure, dataset, or algorithm; mix in D3; and you can programmatically generate static, animated, or interactive images that scale to any screen or browser. It's easy, and after a little practice, you'll be blown away by how beautiful your results can be! About the Book D3.js in Action, Second Edition is a completely updated revision of Manning's bestselling guide to data visualization with D3. You'll explore dozens of real-world examples, including force and network diagrams, workflow illustrations, geospatial constructions, and more. Along the way, you'll pick up best practices for building interactive graphics, animations, and live data representations. You'll also step through a fully interactive application created with D3 and React. What's Inside Updated for D3 v4 and ES6 Reusable layouts and components Geospatial data visualizations Mixed-mode rendering About the Reader Suitable for web developers with HTML, CSS, and JavaScript skills. No specialized data science skills required. About the Author Elijah Meeks is a senior data visualization engineer at Netflix. Table of Contents PART 1 - D3.JS FUNDAMENTALS An introduction to D3.js Information visualization data flow Data-driven design and interaction Chart components Layouts PART 2 - COMPLEX DATA VISUALIZATION Hierarchical visualization Network visualization Geospatial information visualization PART 3 - ADVANCED TECHNIQUES Interactive applications with React and D3 Writing layouts and components Mixed mode rendering `Give me a word, Father', visitors to early desert monks asked. The responses of these pioneer ascetics were remembered and in the fourth century written down in Coptic, Syriac, Greek, and later Latin. Their Sayings were collected, in this case in the alphabetical order of the monks and nuns who uttered them, and read by generations of Christians as life-giving words that would help readers along the path to salvation. New York Times bestselling author Nalini Singh takes us into a dangerous and exhilarating world where a deadly, beautiful archangel and his once-mortal consort are caught in a fury of twisted darkness... "Raphael and Elena are the heart of this series...they are what keep me coming back for more."—Fiction Vixen One of the most vicious archangels in the world has disappeared. No one knows if Lijuan is dead or has chosen to Sleep the long sleep of an immortal. But with her lands falling into chaos under a rising tide of vampiric bloodlust, a mysterious and ancient order of angels known as the Luminata calls the entire Cadre together to discuss the fate of her territory. Accompanying her archangelic lover Raphael to the Luminata compound, guild hunter-turned-angel Elena senses that all is not as it seems. Secrets echo from within the stone walls of the compound, and the deeper Elena goes, the uglier the darkness. But neither Raphael nor Elena is ready for the brutal truths hidden within—truths that will change everything Elena thinks she knows about who she is... Nothing will ever be the same again. Summary D3.js in Action is a practical tutorial for creating interactive graphics and data-driven applications using D3.js. You'll start with in-depth explanations of D3's out-of-the-box layouts, along with dozens of practical use cases that align with different types of visualizations. Then, you'll explore practical techniques for content creation, animation, and representing dynamic data—including interactive graphics and data streamed

live over the web. The final chapters show you how to use D3's rich interaction model as the foundation for a complete web application. In the end, you'll be ready to integrate D3.js into your web development process and transform any site into a more engaging and sophisticated user experience. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the Technology D3.js is a JavaScript library that allows data to be represented graphically on a web page. Because it uses the broadly supported SVG standard, D3 allows you to create scalable graphs for any modern browser. You start with a structure, dataset, or algorithm and programmatically generate static, interactive, or animated images that responsively scale to any screen.

About the Book D3.js in Action introduces you to the most powerful web data visualization library available and shows you how to use it to build interactive graphics and data-driven applications. You'll start with dozens of practical use cases that align with different types of charts, networks, and maps using D3's out-of-the-box layouts. Then, you'll explore practical techniques for content design, animation, and representation of dynamic data—including interactive graphics and live streaming data.

What's Inside Interacting with vector graphics Expressive data visualization Creating rich mapping applications Prepping your data Complete data-driven web apps in D3 Readers need basic HTML, CSS, and JavaScript skills. No experience with D3 or SVG is required.

About the Author Elijah Meeks is a senior data visualization engineer at Netflix. His D3.js portfolio includes work at Stanford University and with well-known companies worldwide.

Table of Contents PART 1 D3.JS FUNDAMENTALS An introduction to D3.js Information visualization data flow Data-driven design and interaction PART 2 THE PILLARS OF INFORMATION VISUALIZATION Chart components Layouts Network visualization Geospatial information visualization Traditional DOM manipulation with D3 PART 3 ADVANCED TECHNIQUES Composing interactive applications Writing layouts and components Big data visualization D3.js on mobile (available online only) Every day, more and more kinds of historical data become available, opening exciting new avenues of inquiry but also new challenges. This updated and expanded book describes and demonstrates the ways these data can be explored to construct cultural heritage knowledge, for research and in teaching and learning. It helps humanities scholars to grasp Big Data in order to do their work, whether that means understanding the underlying algorithms at work in search engines or designing and using their own tools to process large amounts of information. Demonstrating what digital tools have to offer and also what 'digital' does to how we understand the past, the authors introduce the many different tools and developing approaches in Big Data for historical and humanistic scholarship, show how to use them, what to be wary of, and discuss the kinds of questions and new perspectives this new macroscopic perspective opens up. Originally authored 'live' online with ongoing feedback from the wider digital history community, Exploring Big Historical Data breaks new ground and sets the direction for the conversation into the future. Exploring Big Historical Data should be the go-to resource for undergraduate and graduate students confronted by a vast corpus of data, and researchers encountering these methods for the first time. It will also offer a helping hand to the interested individual seeking to make sense of genealogical data or digitized newspapers, and even the local historical society who are trying to see the value in digitizing their

holdings. 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. Comprising dozens of examples that address different industries and departments (healthcare, transportation, finance, human resources, marketing, customer service, sports, etc.) 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. 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. 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? The expert authors have a combined 30-plus years of hands-on experience helping people in hundreds of organizations build effective visualizations. 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. 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. The Big Book of Dashboards gives you the tools, guidance, and models you need to produce great dashboards that inform, enlighten, and engage. From the two-time Pulitzer Prize-winning author, God's Crucible brings to life "a furiously complex age" (New York Times Book Review). Resonating as profoundly today as when it was first published to widespread critical acclaim a decade ago, God's Crucible is a bold portrait of Islamic Spain and the birth of modern Europe from one of our greatest historians. David Levering Lewis's narrative, filled with accounts of some of the most epic battles in world history, reveals how cosmopolitan, Muslim al-Andalus flourished—a beacon of cooperation and tolerance—while proto-Europe floundered in opposition to Islam, making virtues out of hereditary aristocracy, religious intolerance, perpetual war, and slavery. This masterful history begins with the fall of the Persian and Roman empires, followed by the rise of the prophet Muhammad and five centuries of engagement between the Muslim imperium and an emerging Europe. Essential and urgent, God's Crucible underscores the importance of these early, world-altering events whose influence remains as current as today's headlines. The application of Geographic Information Systems (GIS) to issues in history is among the most exciting developments in both digital and spatial humanities. Describing a wide variety of applications, the essays in this volume highlight the methodological and substantive implications of a spatial approach to history. They illustrate how the use of GIS is changing our understanding of the geographies of the past and has become the basis for new ways to study history. Contributors focus on current developments in the use of historical sources and explore the insights gained by applying GIS to develop historiography. Toward Spatial Humanities is a compelling demonstration of how GIS can contribute to our historical understanding. Provides information on using D3, a JavaScript library, to create and publish interactive data

visualization projects on the Web. Explore the power of D3.js 5 and its integration with web technologies for building rich and interactive data visualization solutions

Key Features

Explore the latest D3.js 5 for creating charts, plots, and force-directed graphics

Practical guide for creating interactive graphics and data-driven apps with JavaScript

Build Real-time visualization and transition on web using SVG with D3.js

Book Description

This book is a practical hands-on introduction to D3 (Data-driven Documents): the most popular open-source JavaScript library for creating interactive web-based data visualizations. Based entirely on open web standards, D3 provides an integrated collection of tools for efficiently binding data to graphical elements. If you have basic knowledge of HTML, CSS and JavaScript you can use D3.js to create beautiful interactive web-based data visualizations. D3 is not a charting library. It doesn't contain any pre-defined chart types, but can be used to create whatever visual representations of data you can imagine. The goal of this book is to introduce D3 and provide a learning path so that you obtain a solid understanding of its fundamental concepts, learn to use most of its modules and functions, and gain enough experience to create your own D3 visualizations. You will learn how to create bar, line, pie and scatter charts, trees, dendograms, treemaps, circle packs, chord/ribbon diagrams, sankey diagrams, animated network diagrams, and maps using different geographical projections. Fundamental concepts are explained in each chapter and then applied to a larger example in step-by-step tutorials, complete with full code, from hundreds of examples you can download and run. This book covers D3 version 5 and is based on ES2015 JavaScript. What you will learn

Learn to use D3.js version 5 and web standards to create beautiful interactive data-driven visualizations for the web

Bind data to DOM elements, applying different scales, color schemes and configuring smooth animated transitions for data updates

Generate data structures and layouts for many popular chart formats

Apply interactive behaviors to any chart

Create thematic maps based on GIS data using different geographical projections with interactive behaviors

Load, parse and transform data from JSON and CSV formats

Who this book is for

The book is intended for web developers, web designers, data scientists, artists, and any developer who wish to create interactive data visualization for the Web using D3. The book assumes basic knowledge of HTML, CSSs, and JavaScript.

Digital Humanities is a transformational endeavor that not only changes the perception, storage, and interpretation of information but also of research processes and questions. It also prompts new ways of interdisciplinary communication between humanities scholars and computer scientists. This volume offers a unique perspective on digital methods for and in the humanities. It comprises case studies from various fields to illustrate the challenge of matching existing textual research practices and digital tools. Problems and solutions with and for training tools as well as the adjustment of research practices are presented and discussed with an interdisciplinary focus. 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. A timely translation by David Hinton of a classic text from the golden age of Chinese philosophy. Chuang Tzu stands alongside the Tao Te Ching as a founding classic of Taoism. The Inner Chapters are the only sustained sections of this text widely believed to be the work of Chuang Tzu himself, dating back to the fourth century BC. Witty and poetic, Chuang Tzu's Taoist insights are timely, eternal and deeply engaged with spiritual ecology. A new way of thinking about data science and data ethics that is informed by the ideas of intersectional feminism. Today, data science is a form of power. It has been used to expose injustice, improve health outcomes, and topple governments. But it has also been used to discriminate, police, and surveil. This potential for good, on the one hand, and harm, on the other, makes it essential to ask: Data science by whom? Data science for whom? Data science with whose interests in mind? The narratives around big data and data science are overwhelmingly white, male, and techno-heroic. In *Data Feminism*, Catherine D'Ignazio and Lauren Klein present a new way of thinking about data science and data ethics—one that is informed by intersectional feminist thought. Illustrating data feminism in action, D'Ignazio and Klein show how challenges to the male/female binary can help challenge other hierarchical (and empirically wrong) classification systems. They explain how, for example, an understanding of emotion can expand our ideas about effective data visualization, and how the concept of invisible labor can expose the significant human efforts required by our automated systems. And they show why the data never, ever “speak for themselves.” *Data Feminism* offers strategies for data scientists seeking to learn how feminism can help them work toward justice, and for feminists who want to focus their efforts on the growing field of data science. But *Data Feminism* is about much more than gender. It is about power, about who has it and who doesn't, and about how those differentials of power can be challenged and changed. This volume of the *Annual Review of Cultural Heritage Informatics (ARCHI)* is the polestar publication for cultural heritage scholars, professionals, and students. Featuring fourteen original works selected by the distinguished editorial board of international scholars, ARCHI presents a broad spectrum of the cultural heritage informatics field. The adventures of five sisters growing up in a Jewish family in New York in the early twentieth century. Not a data expert? Here's an engaging and entertaining guide to interpreting and drawing insights from any chart, graph, or other data visualization you'll encounter. You're a business professional, not a data scientist. 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? 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. 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. Saffu is forced to leave his tribe for the land of cities and kings. He befriends an indomitable girl and a boy mercenary serving a cursed emperor in a story of princesses, witchcraft, war, glory, and corruption. Build beautiful data visualizations with D3 The Fullstack D3 book is the complete guide to D3. With dozens of code examples showing each step, you can gain new insights into your data by creating visualizations. Learn how to quickly turn data into insights with D3 We have the data. But it needs to be understood by humans. The best way to convert this data into an understandable format is to mold it into a data visualization. And D3 is the best tool for job if you need to create custom data visualizations. With Fullstack D3 and Data Visualization you and your team will be able to share key insights, uncover problems before they start, and impress your boss by creating gorgeous visualizations. What's Inside Chapter 0: Introduction When would you want to use D3.js? There is a spectrum of libraries to create charts on the web: on one end, you have easy-to-use, basic libraries that will create a standard chart type. Chapter 1: Making your first chart In this chapter we make a line chart. Line charts are a great starting place because of their popularity, but also because of their simplicity. Chapter 2: Making a scatterplot When looking at the relationship between two metrics, a scatterplot is a good choice. In this chapter we show how to create a scatterplot. Chapter 3: Making a bar chart In this chapter we cover how to create a histogram, which is a bar chart that shows the distribution of one metric, with the metric values on the x axis and the frequency of values on the y axis. Chapter 4: Animations and Transitions When we update our charts, we can animate elements from their old to their new positions. These animations can be visually exciting, but more importantly, they have functional benefits. Chapter 5: Interactions The biggest advantage of creating charts with JavaScript is the ability to respond to user input. Chapter 6: Making a map Maps are also uniquely good at answering geography-based questions. In this chapter, we'll build a map and learn how to plot values within a location. Chapter 7: Data Visualization Basics Now that we're comfortable with how to create a chart, we should zoom out a bit and talk about what chart to create. Chapter 8: Common Charts In this chapter, we talk about common chart types and when to use them. Chapter 9: Dashboard Design A dashboard is any web interface that makes sense out of dynamic data, and in this chapter we learn how to make one. Chapter 10: Advanced Visualization: Marginal Histogram First, we'll focus on enhancing a chart we've already made: our scatter plot. This chart will have multiple goals, all exploring the daily temperature ranges in our weather dataset. Chapter 11: Advanced Visualization: Radial Weather Chart We talked about radar charts in Chapter 10. For this project, we'll build a more complex radar chart. Chapter 12: Advanced Visualization: Animated Sankey Diagram In this project, we'll be simulating real data and creating an animated diagram to engage our viewers. Chapter 13: D3 and React What's the best way to draw a chart within React? It turns out that there is a fair bit of overlap in functionality between a React and D3 - we'll discuss how we can create blazing fast charts using the two together. Chapter 14: D3 and

Angular In this chapter we show how to create optimized SVG charts using D3 and Angular. Well before the innovation of maps, gazetteers served as the main geographic referencing system for hundreds of years. Consisting of a specialized index of place names, gazetteers traditionally linked descriptive elements with topographic features and coordinates. Placing Names is inspired by that tradition of discursive place-making and by contemporary approaches to digital data management that have revived the gazetteer and guided its development in recent decades. Adopted by researchers in the Digital Humanities and Spatial Sciences, gazetteers provide a way to model the kind of complex cultural, vernacular, and perspectival ideas of place that can be located in texts and expanded into an interconnected framework of naming history. This volume brings together leading and emergent scholars to examine the history of the gazetteer, its important role in geographic information science, and its use to further the reach and impact of spatial reasoning into the digital age. The colorful charts, graphs, and maps presented at the 1900 Paris Exposition by famed sociologist and black rights activist W. E. B. Du Bois offered a view into the lives of black Americans, conveying a literal and figurative representation of "the color line." From advances in education to the lingering effects of slavery, these prophetic infographics —beautiful in design and powerful in content—make visible a wide spectrum of black experience. W. E. B. Du Bois's Data Portraits collects the complete set of graphics in full color for the first time, making their insights and innovations available to a contemporary imagination. As Maria Popova wrote, these data portraits shaped how "Du Bois himself thought about sociology, informing the ideas with which he set the world ablaze three years later in *The Souls of Black Folk*." 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. Summary Visualizing Graph Data teaches you not only how to build graph data structures, but also how to create your own dynamic and interactive visualizations using a variety of tools. This book is loaded with fascinating examples and case studies to show you the real-world value of graph visualizations. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Assume you are doing a great job collecting data about your customers and products. Are you able to turn your rich data into important insight? Complex relationships in large data sets can be difficult to recognize. Visualizing these connections as graphs makes it possible to see the patterns, so you can find meaning in an otherwise over-whelming sea of facts. About the Book Visualizing Graph Data teaches you how to understand graph data, build graph data structures, and create meaningful visualizations. This engaging book gently introduces graph data visualization through fascinating examples and compelling case studies. You'll discover simple, but effective, techniques to model your data, handle big data, and depict temporal and spatial data. By the end, you'll have a conceptual foundation as well as the practical skills to explore your own data with confidence. What's Inside Techniques for creating effective visualizations Examples using the Gephi and KeyLines visualization packages Real-world case studies About the Reader No prior experience with graph data is required. About the Author Corey Lanum has decades of experience building visualization and analysis applications for companies and government agencies around the globe. Table of Contents PART 1 - GRAPH VISUALIZATION BASICS Getting to know graph

visualization Case studies An introduction to Gephi and KeyLines PART 2 VISUALIZE YOUR OWN DATA Data modeling How to build graph visualizations Creating interactive visualizations How to organize a chart Big data: using graphs when there's too much data Dynamic graphs: how to show data over time Graphs on maps: the where of graph visualization Second volume of a compilation of Ch'ogyam Trungpa Rinpoche's Vajradhatu Seminary teachings in three volumes. 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. 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. Shares intriguing ideas from Nathan Yau, author of Visualize This and creator of flowingdata.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. 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. 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. 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. 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. The ascendancy of the Western Zhou in Bronze Age China, 1045–771 BC, was a critical period in the development of Chinese civilisation and culture. This book addresses the complex relationship between geography and political power in the context of the crisis and fall of the Western Zhou state. Drawing on the latest archaeological discoveries, the book shows how inscribed bronze vessels can be used to reveal changes in the political space of the period and explores literary and geographical evidence to produce a coherent understanding of the Bronze Age past. By taking an interdisciplinary approach which embraces archaeology, history and geography, the book thoroughly reinterprets late

Western Zhou history and probes the causes of its gradual decline and eventual fall. Supported throughout by maps created from the GIS datasets and by numerous on-site photographs, *Landscape and Power in Early China* gives significant insights into this important Bronze Age society. Don't simply show your data—tell a story with it! *Storytelling with Data* teaches you the fundamentals of data visualization and how to communicate effectively with data. You'll discover the power of storytelling and the way to make data a pivotal point in your story. 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. 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. 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. 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. There is a story in your data—*Storytelling with Data* will give you the skills and power to tell it!

Forecasting the future with advanced data models and visualizations. To envision and create the futures we want, society needs an appropriate understanding of the likely impact of alternative actions. Data models and visualizations offer a way to understand and intelligently manage complex, interlinked systems in science and technology, education, and policymaking. *Atlas of Forecasts*, from the creator of *Atlas of Science* and *Atlas of Knowledge*, shows how we can use data to predict, communicate, and ultimately attain desirable futures. Using advanced data visualizations to introduce different types of computational models, *Atlas of Forecasts* demonstrates how models can inform effective decision-making in education, science, technology, and policymaking. The models and maps presented aim to help anyone understand key processes and outcomes of complex systems dynamics, including which human skills are needed in an artificial intelligence-empowered economy; what progress in science and technology is likely to be made; and how policymakers can future-proof regions or nations. This Atlas offers a driver's seat-perspective for a test-drive of the future.

Summary D3.js in Action, Second Edition is completely revised and updated for D3 v4 and ES6. It's a practical tutorial for creating interactive graphics and data-driven applications using D3. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the Technology Visualizing complex data is hard. Visualizing complex data on the web is darn near impossible without D3.js. D3 is a JavaScript library that provides a simple but powerful data visualization API over HTML, CSS, and SVG. Start with a structure, dataset, or algorithm; mix in D3; and you can programmatically generate static, animated, or interactive images that scale to any screen or browser. It's easy, and after a little practice, you'll be blown away by how beautiful your results can be!

About the Book

D3.js in Action, Second Edition is a completely updated revision of Manning's bestselling guide to data visualization with D3. You'll explore dozens of real-world examples, including force and network diagrams, workflow illustrations, geospatial constructions, and more. Along the way, you'll pick up best practices for building interactive graphics, animations, and live data representations. You'll also step through a fully interactive application created with D3 and React. What's Inside Updated for D3 v4 and ES6 Reusable layouts and components Geospatial data visualizations Mixed-mode rendering About the Reader Suitable for web developers with HTML, CSS, and JavaScript skills. No specialized data science skills required. About the Author Elijah Meeks is a senior data visualization engineer at Netflix. Table of Contents PART 1 - D3.JS FUNDAMENTALS An introduction to D3.js Information visualization data flow Data-driven design and interaction Chart components Layouts PART 2 - COMPLEX DATA VISUALIZATION Hierarchical visualization Network visualization Geospatial information visualization PART 3 - ADVANCED TECHNIQUES Interactive applications with React and D3 Writing layouts and components Mixed mode rendering The first full treatment of Jewish childhood in the Roman world. Explores the lives of minors both inside and outside the home. The present work provides a platform for leading Data designers whose vision and creativity help us to anticipate major changes occurring in the Data Design field, and pre-empt the future. Each of them strives to provide new answers to the question, "What challenges await Data Design?" To avoid falling into too narrow a mind-set, each works hard to elucidate the breadth of Data Design today and to demonstrate its widespread application across a variety of business sectors. With end users in mind, designer-contributors bring to light the myriad of purposes for which the field was originally intended, forging the bond even further between Data Design and the aims and intentions of those who contribute to it. The first seven parts of the book outline the scope of Data Design, and presents a line-up of "viewpoints" that highlight this discipline's main topics, and offers an in-depth look into practices boasting both foresight and imagination. The eighth and final part features a series of interviews with Data designers and artists whose methods embody originality and marked singularity. As a result, a number of enlightening concepts and bright ideas unfold within the confines of this book to help dispel the thick fog around this new and still relatively unknown discipline. A plethora of equally eye-opening and edifying new terms, words, and key expressions also unfurl. Informing, influencing, and inspiring are just a few of the buzz words belonging to an initiative that is, first and foremost, a creative one, not to mention the possibility to discern the ever-changing and naturally complex nature of today's datasphere. Providing an invaluable and cutting-edge resource for design researchers, this work is also intended for students, professionals and practitioners involved in Data Design, Interaction Design, Digital & Media Design, Data & Information Visualization, Computer Science and Engineering.

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