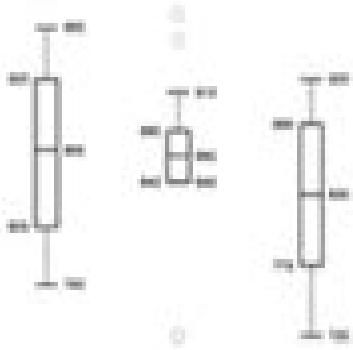
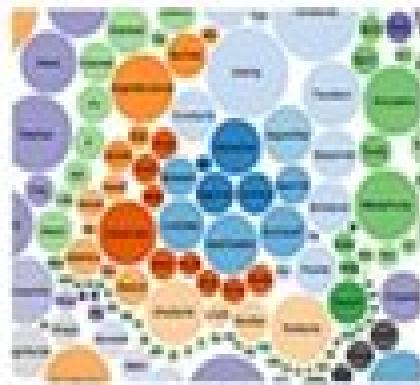


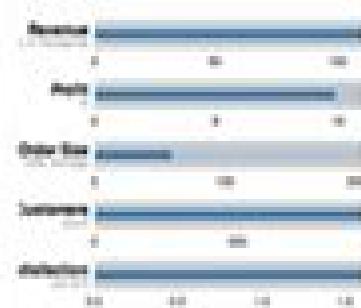
Box Plots



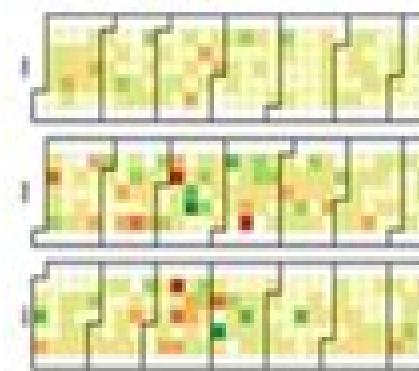
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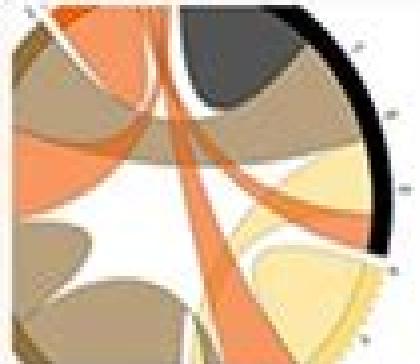
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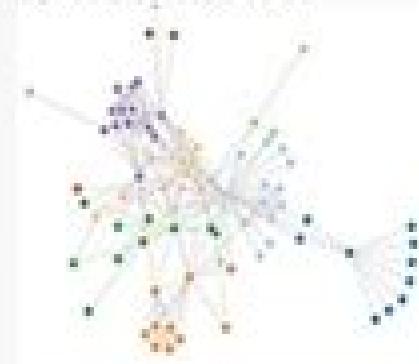
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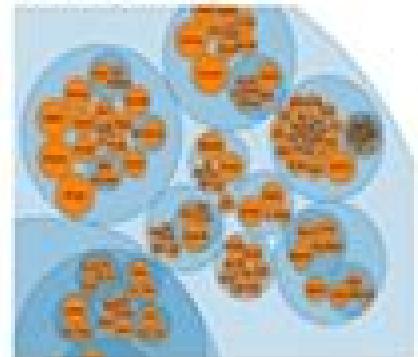
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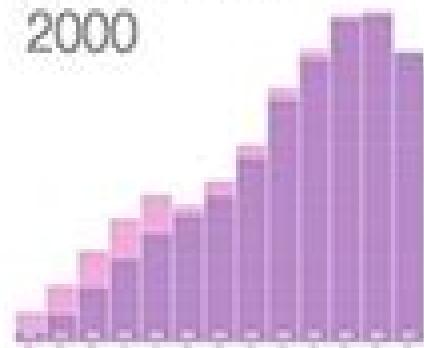
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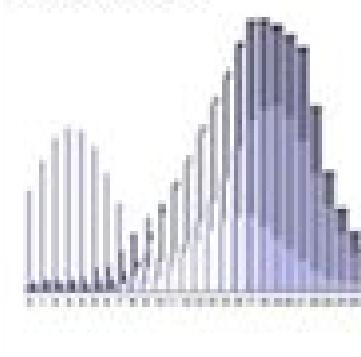
Circle Packing



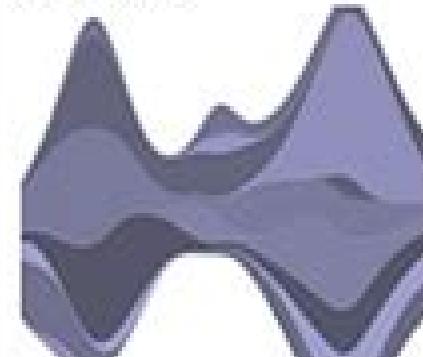
Population Pyramid



Stacked Bars



Streamgraph



# Data Visualization With D3js

**Elijah Meeks**

## Data Visualization With D3js:

**D3.js in Action** Elijah Meeks, 2017-11-17 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.

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.

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*D3.js: Cutting-edge Data Visualization* Andrew H. Rininsland, Michael Heydt, Pablo Navarro Castillo, 2017-03-31

Turn your raw data into real knowledge by creating and deploying complex data visualizations with D3.js.

*About This Book*

Understand how to best represent your data by developing the right kind of visualization. Explore the concepts of D3.js through examples that enable you to quickly create visualizations including charts, network diagrams and maps. Get practical examples of visualizations using real world data sets that show you how to use D3.js to visualize and interact with information to glean its underlying meaning.

*Who This Book Is For*

Whether you are new to data and data visualization, a seasoned data scientist or a computer graphics specialist, this Learning Path will provide you with the skills you need to create web based and interactive data visualizations. Some basic JavaScript knowledge is expected but no prior experience with data visualization or D3.js is required.

*What You Will Learn*

Gain a solid understanding of the common D3 development idioms. Find out how to write basic D3 code for servers using Node.js. Install and use D3.js to create HTML elements within a document. Create and style graphical elements such as circles, ellipses, rectangles, lines, paths and text using SVG. Turn your data into bar and scatter charts and add margins, axes, labels and legends. Use D3.js generators to perform the magic of

creating complex visualizations from data Add interactivity to your visualizations including tool tips sorting hover to highlight and grouping and dragging of visuals Write test and distribute a D3 based charting package Make a real time application with Node and D3 In Detail D3 has emerged as one of the leading platforms to develop beautiful interactive visualizations over the web We begin the course by setting up a strong foundation then build on this foundation as we take you through the entire world of reimagining data using interactive animated visualizations created in D3 js In the first module we cover the various features of D3 js to build a wide range of visualizations We also focus on the entire process of representing data through visualizations By the end of this module you will be ready to use D3 to transform any data into a more engaging and sophisticated visualization In the next module you will learn to master the creation of graphical elements from data Using practical examples provided you will quickly get to grips with the features of D3 js and use this learning to create your own spectacular data visualizations with D3 js Over the last leg of this course you will get acquainted with how to integrate D3 with mapping libraries to provide reverse geocoding and interactive maps among many other advanced features of D3 This module culminates by showing you how to create enterprise level dashboards to display real time data This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Learning D3 js Data Visualization Second Edition by Andrew H Rininsland D3 js By Example by Michael Heydt Mastering D3 js by Pablo Navarro Castillo Style and approach This course provides a comprehensive explanation of how to leverage the power of D3 js to create powerful and creative visualizations through step by step instructions in the form of modules Each module help you skill up a level in creating meaningful visualizations

*Learning D3.js Data Visualization* Andrew Rininsland, Andrew Rininsland, Swizec Teller, 2016 Inject new life into your data by creating compelling visualizations with d3 js About This Book Understand how to best represent your data by developing the right kind of visualization Harness the power of D3 by building interactive and real time data driven web visualizations This book will provide a strong foundation in designing compelling web visualizations with D3 js Who This Book Is For This book is for web developers data scientists and anyone interested in representing data through interactive visualizations on the web with D3 Some basic JavaScript knowledge is expected but no prior experience with data visualization or D3 is required to follow this book What You Will Learn Gain a solid understanding of the common D3 development idioms Be able to input data transform it and output it as a visualization Add simple effects and user interactions to a visualization Find out how to write basic D3 code for server using Node js Automate testing visualizations using Mocha Achieve fluency in ES2015 the most modern version of JavaScript In Detail D3 has emerged as one of the leading platforms to develop beautiful interactive visualizations over the web We begin by setting up a strong foundation then build on this foundation book will take you through the entire world of reimagining data using interactive animated visualizations created in D3 js In addition to covering the various features of D3 js to build a wide range of visualizations we also focus on the entire process of representing data through

visualizations so that developers and those interested in data visualization will get the entire process right We also include chapters that explore a wide range of visualizations through practical use cases By the end of this book you will have unlocked the mystery behind successful data visualizations and will be ready to use D3 to transform any data into a more engaging and sophisticated visualization Style and approach This book has comprehensive explanation on how to leverage the power of D3 js to create powerful and creative visualizations through step by step instruction **Mastering D3.js** Pablo Navarro Castillo,2014-08-25 If you are a software developer working with data visualizations and want to build complex data visualizations this book is for you Basic knowledge of D3 framework is expected With real world examples you will learn how to structure your applications to create enterprise level charts and interactive dashboards [Data Visualization with D3.js](#) Scott Murray,Swizec Teller,2013 This book is a mini tutorial with plenty of code examples and strategies to give you many options when building your own visualizations This book is ideal for anyone interested in data visualization Some rudimentary knowledge of JavaScript is required [Data Visualization with D3 4.x Cookbook](#) Nick Zhu,2017-02-28 Discover over 65 recipes to help you create breathtaking data visualizations using the latest features of D3 About This Book Learn about D3 4 0 from the inside out and master its new features Utilize D3 packages to generate graphs manipulate data and create beautiful presentations Solve real world visualization problems with the help of practical recipes Who This Book Is For If you are a developer familiar with HTML CSS and JavaScript and you wish to get the most out of D3 then this book is for you This book can serve as a desktop quick reference guide for experienced data visualization developers You ll also find this book useful if you re a D3 user who wants to take advantage of the new features introduced in D3 4 0 You should have previous experience with D3 What You Will Learn Get a solid understanding of the D3 fundamentals and idioms Use D3 to load manipulate and map data to any kind of visual representation on the web Create data driven dynamic visualizations that update as the data does Leverage the various modules provided by D3 to create sophisticated dynamic and interactive charts and graphics Create data driven transitions and animations within your visualizations Understand and leverage more advanced concepts such as force touch and Geo data visualizations In Detail This book gives you all the guidance you need to start creating modern data visualizations with D3 4 x that take advantage of the latest capabilities of JavaScript The book starts with the basic D3 structure and building blocks and quickly moves on to writing idiomatic D3 style JavaScript code You will learn how to work with selection to target certain visual elements on the page then you will see techniques to represent data both in programming constructs and its visual metaphor You will learn how map values in your data domain to the visual domain using scales and use the various shape functions supported by D3 to create SVG shapes in visualizations Moving on you ll see how to use and customize various D3 axes and master transition to add bells and whistles to otherwise dry visualizations You ll also learn to work with charts hierarchy graphs and build interactive visualizations Next you ll work with Force which is one of the most awe inspiring techniques you can add to your visualizations and you ll implement a fully

functional Choropleth map a special purpose colored map in D3 Finally you ll learn to unit test data visualization code and test driven development in a visualization project so you know how to produce high quality D3 code Style and approach This step by step guide to mastering data visualizations with D3 will help you create amazing data visualizations with professional efficiency and precision It is a solution based guide in which you learn through practical recipes illustrations and code

samples    **Learn D3.js** Helder da Rocha,2019-05-03 Explore the power of D3 js 5 and its integration with web technologies for building rich and interactive data visualization solutions Key FeaturesExplore the latest D3 js 5 for creating charts plots and force directed graphicsPractical guide for creating interactive graphics and data driven apps with JavaScriptBuild Real time visualization and transition on web using SVG with D3 jsBook 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 learnLearn to use D3 js version 5 and web standards to create beautiful interactive data driven visualizations for the webBind data to DOM elements applying different scales color schemes and configuring smooth animated transitions for data updatesGenerate data structures and layouts for many popular chart formats Apply interactive behaviors to any chartCreate thematic maps based on GIS data using different geographical projections with interactive behaviors Load parse and transform data from JSON and CSV formatsWho 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 CSs and JavaScript

**D3.js 4.x Data Visualization** Andrew Rininsland,Swizec Teller,2017-04-28 Create and publish your own interactive and compelling data visualizations with D3 js 4 x About This Book Build interactive and rich graphics and visualization using JavaScript s powerful library D3 js Learn D3 from the ground up using the all new version 4 of the library Gain insight into producing high quality extensible charts and visualizations using best practices such as writing testable extensible code and strong typing Who This Book Is For This book is for web developers interactive news developers data scientists and anyone

interested in representing data through interactive visualizations on the Web with D3. Some basic knowledge of JavaScript is expected but no prior experience with data visualization or D3 is required to follow this book. What You Will Learn Map data to visual elements using D3's scales Draw SVG elements using D3's shape generators Transform data using D3's collection methods Use D3's various layout patterns to quickly generate various common types of chart Write modern JavaScript using ES2017 and Babel Explore the basics of unit testing D3 visualizations using Mocha and Chai Write and deploy a simple Node.js web service to render charts via HTML Canvas Understand what makes a good data visualization and how to use the tools at your disposal to create accurate charts In Detail Want to get started with impressive interactive visualizations and implement them in your daily tasks This book offers the perfect solution D3.js It has emerged as the most popular tool for data visualization This book will teach you how to implement the features of the latest version of D3 while writing JavaScript using the newest tools and technique You will start by setting up the D3 environment and making your first basic bar chart You will then build stunning SVG and Canvas based data visualizations while writing testable extensible code as accurate and informative as it is visually stimulating Step by step examples walk you through creating integrating and debugging different types of visualization and will have you building basic visualizations such as bar line and scatter graphs in no time By the end of this book you will have mastered the techniques necessary to successfully visualize data and will be ready to use D3 to transform any data into an engaging and sophisticated visualization Style and approach This book follows a tutorial based approach in teaching the world's most powerful data visualization library D3

### **Practical D3.js**

Tarek Amr, Rayna Stamboliyska, 2016-07-04 Your indispensable guide to mastering the efficient use of D3.js in professional standard data visualization projects You will learn what data visualization is how to work with it and how to think like a D3.js expert both practically and theoretically Practical D3.js does not just show you how to use D3.js it teaches you how to think like a data scientist and work with the data in the real world In Part One you will learn about theories behind data visualization In Part Two you will learn how to use D3.js to create the best charts and layouts Uniquely this book intertwines the technical details of D3.js with practical topics such as data journalism and the use of open government data Written by leading data scientists Tarek Amr and Rayna Stamboliyska this book is your guide to using D3.js in the real world add it to your library today You Will Learn How to think like a data scientist and present data in the best way What structure and design strategies you can use for compelling data visualization How to use data binding animations and events scales and color pickers How to use shapes path generators arcs and polygons Who This Book is For This book is for anyone who wants to learn to master the use of D3.js in a practical manner while still learning the important theoretical aspects needed to enable them to work with their data in the best possible way

*D3.js in Action, Third Edition* Elijah Meeks, 2024-07-23 Create stunning web based data

visualizations with D3.js This totally revised new edition of D3.js in Action guides you from simple charts to powerful interactive graphics Chapter by chapter you'll assemble an impressive portfolio of visualizations including intricate networks

maps and even a complete customized visualization layout Plus you ll learn best practices for building interactive graphics animations and integrating your work into frontend development frameworks like React and Svelte In D3 js in Action Third Edition you will learn how to Set up a local development environment for D3 Include D3 in web development projects including Node based web apps Select and append DOM elements Size and position elements on screen Assemble components and layouts into creative data visualizations D3 js in Action Third Edition has been extensively revised for D3 js version 7 and modern best practices for web visualizations Its brand new chapters dive into interactive visualizations cover responsiveness for dataviz and show you how you can improve accessibility Foreword by Andy Kirk About the technology With D3 js you can create sophisticated infographics charts and interactive data visualizations using standard frontend tools like JavaScript HTML and CSS Granting D3 its VIS Test of Time award the IEEE credited this powerful library for bringing data visualization to the mainstream You ll be blown away by how beautiful your results can be About the book D3 js in Action Third Edition is a roadmap for creating brilliant and beautiful visualizations with D3 js Like a gentle mentor it guides you from basic charts all the way to advanced interactive visualizations like networks and maps You ll learn to build graphics create animations and set up mobile friendly responsiveness Each chapter contains a complete data visualization project to put your new skills into action What s inside Fully revised for D3 js v7 Includes 12 complete projects Create data visualizations with SVG and canvas Combine D3 with React Svelte and Angular About the reader For web developers with HTML CSS and JavaScript skills About the author Elijah Meeks was a data visualization pioneer at Stanford and the first Senior Data Visualization Engineer at Netflix Anne Marie Dufour is a Data Visualization Engineer The technical editor on this book was Jon Borgman Table of Contents PART 1 1 An introduction to D3 js 2 Manipulating the DOM 3 Working with data 4 Drawing lines curves and arcs 5 Pie and stack layouts 6 Visualizing distributions PART 2 7 Interactive visualizations 8 Integrating D3 in a frontend framework 9 Responsive visualizations 10 Accessible visualizations PART 3 11 Hierarchical visualizations 12 Network visualizations 13 Geospatial information visualizations PART 4 14 Creating a custom visualization 15 Rendering visualizations with Canvas Appendix A Appendix B Appendix C Appendix D Appendix E

**Data Visualization with D3 and AngularJS** Christoph Körner,2015-04-27 If you are a web developer with experience in AngularJS and want to implement interactive visualizations using D3 js this book is for you Knowledge of SVG or D3 js will give you an edge to get the most out of this book

D3.js: Cutting-edge Data Visualization Aendrew H. Rininsland,Michael Heydt,Pablo Navarro Castillo,2016 **D3.Js by Example** Michael Heydt,2015-12-27 Create attractive web based data visualizations using the amazing JavaScript library D3 jsAbout This Book Learn to use the facilities provided by D3 js to create data driven visualizations Explore the concepts of D3 js through examples that enable you to quickly create visualizations including charts network diagrams and maps Get practical examples of visualizations using real world data sets that show you how to use D3 js to visualize and interact with information to glean its underlying meaningWho This Book Is ForWhether you are

new to data and data visualization a seasoned data scientist or a computer graphics specialist this book will provide you with the skills you need to create web based and interactive data visualizations This book assumes some knowledge of coding and in particular experience coding in JavaScript What You Will Learn Install and use D3 js to create HTML elements within the document Use development tools such as JSBIN and Chrome Developer Tools to create D3 js applications Retrieve JSON data and use D3 js selections and data binding to create visual elements from data Create and style graphical elements such as circles ellipses rectangles lines paths and text using SVG Turn your data into bar and scatter charts and add margins axes labels and legends Use D3 js generators to perform the magic of creating complex visualizations from data Add interactivity to your visualizations including tool tips sorting hover to highlight and grouping and dragging of visualsIn DetailThis book will take you through all the concepts of D3 js starting with the most basic ones and progressively building on them in each chapter to expand your knowledge of D3 js Starting with obtaining D3 js and creating simple data bindings to non graphical HTML elements you will then master the creation of graphical elements from data You ll discover how to combine those elements into simple visualizations such as bar line and scatter charts as well as more elaborate visualizations such as network diagrams Sankey diagrams maps and choropleths Using practical examples provided you will quickly get to grips with the features of D3 js and use this learning to create your own spectacular data visualizations with D3 js Style and approachThis book uses a practical step by step approach that builds iteratively starting with the basic concepts right through to mastery of the technology Each concept is demonstrated using code examples that are interactively available online and can also be run locally and each chapter builds upon the concepts covered in the previous chapter with succinct explanations of what the code does and how it fits into the bigger picture [Building Interactive Data Visualizations with D3.js](#) Alex Simoes,2015 D3 js is a JavaScript library that enables data to drive interactive graphical forms and makes complex data analysis easier Nowadays big data data deluge and analytics are all trending buzzwords so how does D3 js make sense of all this data Simply by using visualizations and defining rules for dynamic graphics engines which allows users to gain rich insights from large and complex datasets Building Interactive Data Visualization with D3 js showcases the D3 JavaScript library built specifically for the use of driving visual elements with data This video course will walk you through the basics of the library by showing its core components and methodologies By following along with the examples in this video you ll become proficient at creating dynamic visualizations driven by user interactivity This course starts with the very basics of frontend web development showing the challenges of incorporating dynamic graphics without using D3 Users learn to combine data with visual elements on the page to create informative visualizations By the end of this section viewers will be comfortable with using the D3 library to create their own custom concept of data driven visualizations We ll see how to use real datasets via APIs to create custom visualizations By leveraging the interactive nature of web programming we ll look at how to incorporate user input to add interactivity to our visualization We ll start with basic scatter plots and slowly build

upon this foundation to create more complicated forms of dynamic data visualizations Eventually we ll end the video course by walking through the process of creating a completely novel form of visualization merging concepts of both a scatter plot and a geographic map Building Interactive Data Visualization with D3 js provides one with the foundation to continue on their journey of creating novel and highly impactful data visualizations Resource description page [D3.js in Action, Third Edition](#) Elijah Meeks,Anne-Marie Dufour,2024-07-30 D3 js in Action Third Edition teaches you how to create an extensive portfolio of visualizations interactive graphics and data driven applications using D3 js This third edition is fully updated to the latest version of D3 It also contains new coverage of the essential aspects of modern digital visualizations [D3.js](#)

**Quick Start Guide** Matthew Huntington,2018-09-27 This book will help you build interactive graphs that are viewable in any web browser using JavaScript D3 js and SVG You will learn how to make a scatter plot a bar graph a pie chart a force directed graph and a map Key FeaturesTakes you through the most common graphs you ll needAdd interactivity to your visualizationsEasy to follow buildsBook Description D3 js is a JavaScript library that allows you to create graphs and data visualizations in the browser with HTML SVG and CSS This book will take you from the basics of D3 js so that you can create your own interactive visualizations to creating the most common graphs that you will encounter as a developer scientist statistician or data scientist The book begins with an overview of SVG the basis for creating two dimensional graphics in the browser Once the reader has a firm understanding of SVG we will tackle the basics of how to use D3 js to connect data to our SVG elements We will start with a scatter plot that maps run data to circles on a graph and expand our scatter plot to make it interactive You will see how you can easily allow the users of your graph to create edit and delete run data by simply dragging and clicking the graph Next we will explore creating a bar graph using external data from a mock API After that we will explore animations and motion with a bar graph and use various physics based forces to create a force directed graph Finally we will look at how to use GeoJSON data to create a map What you will learnBuild a scatter plotBuild a bar graphBuild a pie chartBuild a force directed graphBuild a mapBuild interactivity into your graphsWho this book is for This book is for web developers interactive news developers data scientists and anyone interested in representing data through interactive visualizations on the Web with D3 Some basic knowledge of JavaScript is expected but no prior experience with data visualization or D3 is required to follow this book [Interactive Data Visualization for the Web](#) Scott Murray,2017-08-03 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 [Fullstack D3 and Data Visualization](#) Amelia Wattenberger,2019-02 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

**Interactive Data Visualization for the Web** Scott Murray, 2013-03-15 Create and publish your own interactive data visualization projects on the Web even if you have no experience with either web development or data visualization It's easy with this hands on guide You'll start with an overview of data visualization concepts and simple web technologies and then learn how to use D3 a JavaScript library that lets you express data as visual elements in a web page Interactive Data Visualization for the Web makes these skills available at an introductory level for designers and visual artists without programming experience journalists interested in the emerging data journalism processes and others keenly interested in visualization and publicly available data sources Get a practical introduction to data visualization accessible for beginners Focus on web based tools

that help you publish your creations quickly to a wide audience Learn about interactivity so you can engage users in exploring your data **Learning Data Visualization with D3.js** ,2017 Bring your data to life with D3.js Create interactive visually exciting infographics and visualizations with HTML CSS JavaScript and SVG graphics

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