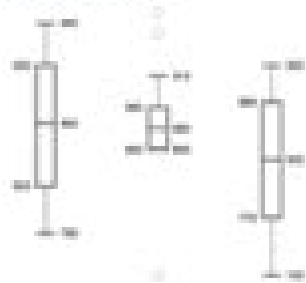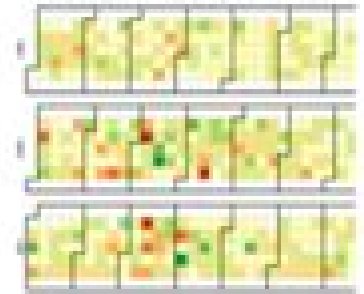## Box Plots

Bubble Chart

Bullet Charts

Calendar View

Non-contiguous Cartogram
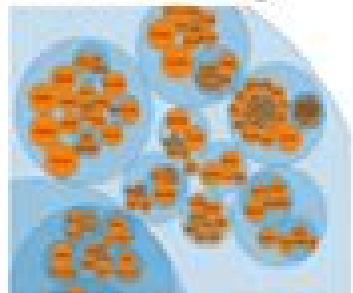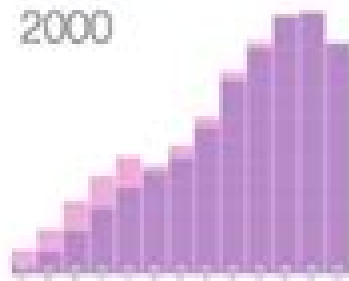
Chord Diagram

Dendrogram
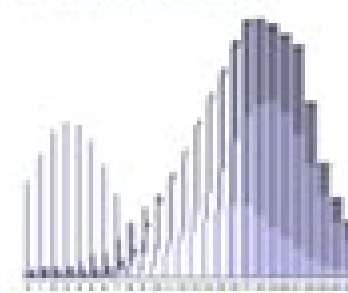
Force-Directed Graph

Circle Packing

Population Pyramid
2000

Stacked Bars

Streamgraph

Data Visualization With Javascript

Sudipta Mukherjee

Data Visualization With Javascript:

Data Visualization with JavaScript Stephen A. Thomas,2015-03-15 You ve got data to communicate But what kind of visualization do you choose how do you build your visualizations and how do you ensure that they re up to the demands of the Web In Data Visualization with JavaScript you ll learn how to use JavaScript HTML and CSS to build practical visualizations for your data Step by step examples walk you through creating integrating and debugging different types of visualizations and you ll be building basic visualizations like bar line and scatter graphs in no time You ll also learn how to Create tree maps heat maps network graphs word clouds and timelines Map geographic data and build sparklines and composite charts Add interactivity and retrieve data with AJAX Manage data in the browser and build data driven web applications Harness the power of the Flotr2 Flot Chronoline js D3 js Underscore js and Backbone js libraries If you already know your way around building a web page but aren t quite sure how to build a good visualization Data Visualization with JavaScript will help you get your feet wet without throwing you into the deep end You ll soon be well on your way to creating simple powerful data visualizations **D3.js: Cutting-edge Data Visualization** Æendrew 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 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 **Data Visualization with JavaScript** Stephen A. Thomas,2015 This book shows how to use JavaScript HTML and CSS to build the most practical visualizations for your data Step by step examples walk you through creating integrating and debugging different types of visualizations and will have you building basic visualizations like bar line and scatter graphs in no time Advanced topics include tree maps heat maps network graphs word clouds and timelines map geographic data sparklines and composite charts adding interactivity and retrieving data with AJAX managing data in the browser and building data driven web applications Flotr2 Flot Chronoline js D3 js Underscore js and Backbone js libraries **Data Visualization with Python and JavaScript** Kyran Dale,2022-12-07 How do you turn raw unprocessed or malformed data into dynamic interactive web visualizations In this practical book author Kyran Dale shows data scientists and analysts as well as Python and JavaScript developers how to create the ideal toolchain for the job By providing engaging examples and stressing hard earned best practices this guide teaches you how to leverage the power of best of breed Python and JavaScript libraries Python provides accessible powerful and mature libraries for scraping cleaning and processing data And while JavaScript is the best language when it comes to programming web visualizations its data processing abilities can t compare with Python s Together these two languages are a perfect complement for creating a modern web visualization toolchain This book gets you started You ll learn how to Obtain data you need programmatically using scraping tools or web APIs Requests Scrapy Beautiful Soup Clean and process data using Python s heavyweight data processing libraries within the NumPy ecosystem Jupyter notebooks with pandas Matplotlib Seaborn Deliver the data to a browser with static files or by using Flask the lightweight Python server and a RESTful API Pick up enough web development skills HTML CSS JS to get your visualized data on the web Use the data you ve mined and refined to create web charts and visualizations with Plotly D3 Leaflet and other libraries JavaScript and jQuery for Data Analysis and Visualization Jon Raasch,Graham Murray,Vadim Ogievetsky,Joseph Lowery,2014-11-14 Go beyond design concepts build dynamic data visualizations using JavaScript

JavaScript and jQuery for Data Analysis and Visualization goes beyond design concepts to show readers how to build dynamic best of breed visualizations using JavaScript the most popular language for web programming The authors show data analysts developers and web designers how they can put the power and flexibility of modern JavaScript libraries to work to analyze data and then present it using best of breed visualizations They also demonstrate the use of each technique with real world use cases showing how to apply the appropriate JavaScript and jQuery libraries to achieve the desired visualization All of the key techniques and tools are explained in this full color step by step guide The companion website includes all sample codes used to generate the visualizations in the book data sets and links to the libraries and other resources covered Go beyond basic design concepts and get a firm grasp of visualization approaches and techniques using JavaScript and jQuery Discover detailed step by step directions for building specific types of data visualizations in this full color guide Learn more about the core JavaScript and jQuery libraries that enable analysis and visualization Find compelling stories in complex data and create amazing visualizations cost effectively Let JavaScript and jQuery for Data Analysis and Visualization be the resource that guides you through the myriad strategies and solutions for combining analysis and visualization with stunning results **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 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 Data Visualization with Python and JavaScript Kyran Dale,2016 Learn how to turn

raw data into rich interactive web visualizations with the powerful combination of Python and JavaScript With this hands on guide author Kyran Dale teaches you how build a basic dataviz toolchain with best of breed Python and JavaScript libraries including Scrapy Matplotlib Pandas Flask and D3 for crafting engaging browser based visualizations As a working example throughout the book Dale walks you through transforming Wikipedia s table based list of Nobel Prize winners into an interactive visualization You ll examine steps along the entire toolchain from scraping cleaning exploring and delivering data to building the visualization with JavaScript s D3 library If you re ready to create your own web based data visualizations and know either Python or JavaScript this is the book for you Learn how to manipulate data with Python Understand the commonalities between Python and JavaScript Extract information from websites by using Python s web scraping tools BeautifulSoup and Scrapy Clean and explore data with Python s Pandas Matplotlib and Numpy libraries Serve data and create RESTful web APIs with Python s Flask framework Create engaging interactive web visualizations with JavaScript s D3 library **Data Visualization With Javascript** William Jayden,2017-06 You ve got data to communicate But what kind of visualization do you choose how do you build it and how do you ensure that it s up to the demands of the Web In Data Visualization with JavaScript you ll learn how to use JavaScript HTML and CSS to build the most practical visualizations for your data Step by step examples walk you through creating integrating and debugging different types of visualizations and will have you building basic visualizations like bar line and scatter graphs in no time **Visual Storytelling with D3** Ritchie S. King,2014-08-23 Master D3 Today s Most Powerful Tool for Visualizing Data on the Web Data driven graphics are everywhere these days from websites and mobile apps to interactive journalism and high end presentations Using D3 you can create graphics that are visually stunning and powerfully effective Visual Storytelling with D3 is a hands on full color tutorial that teaches you to design charts and data visualizations to tell your story quickly and intuitively and that shows you how to wield the powerful D3 JavaScript library Drawing on his extensive experience as a professional graphic artist writer and programmer Ritchie S King walks you through a complete sample project from conception through data selection and design Step by step you ll build your skills mastering increasingly sophisticated graphical forms and techniques If you know a little HTML and CSS you have all the technical background you ll need to master D3 This tutorial is for web designers creating graphics driven sites services tools or dashboards online journalists who want to visualize their content researchers seeking to communicate their results more intuitively marketers aiming to deepen their connections with customers and for any data visualization enthusiast Coverage includes Identifying a data driven story and telling it visually Creating and manipulating beautiful graphical elements with SVG Shaping web pages with D3 Structuring data so D3 can easily visualize it Using D3 s data joins to connect your data to the graphical elements on a web page Sizing and scaling charts and adding axes to them Loading and filtering data from external standalone datasets Animating your charts with D3 s transitions Adding interactivity to visualizations including a play button that cycles through different views of your data Finding D3 resources and getting

involved in the thriving online D3 community About the Website All of this book s examples are available at ritchiesking com book along with video tutorials updates supporting material and even more examples as they become available   Learn Chart.js Helder da Rocha,2019-02-28 Design interactive graphics and visuals for your data driven applications using the popular open source Chart js data visualization library Key FeaturesHarness the power of JavaScript HTML and CSS to create interactive visualizationsDisplay quantitative information efficiently in the form of attractive charts by using Chart js A practical guide for creating data driven applications using open source JavaScript libraryBook Description Chart js is a free open source data visualization library maintained by an active community of developers in GitHub where it rates as the second most popular data visualization library If you want to quickly create responsive Web based data visualizations for the Web Chart js is a great choice This book guides the reader through dozens of practical examples complete with code you can run and modify as you wish It is a practical hands on introduction to Chart js If you have basic knowledge of HTML CSS and JavaScript you can learn to create beautiful interactive Web Canvas based visualizations for your data using Chart js This book will help you set up Chart js in a Web page and show how to create each one of the eight Chart js chart types You will also learn how to configure most properties that override Chart s default styles and behaviors Practical applications of Chart js are exemplified using real data files obtained from public data portals You will learn how to load parse filter and select the data you wish to display from those files You will also learn how to create visualizations that reveal patterns in the data This book is based on Chart js version 2 7 3 and ES2015 JavaScript By the end of the book you will be able to create beautiful efficient and interactive data visualizations for the Web using Chart js What you will learnLearn how to create interactive and responsive data visualizations using Chart jsLearn how to create Canvas based graphics without Canvas programmingCreate composite charts and configure animated data updates and transitionsEfficiently display quantitative information using bar and line charts scatterplots and pie chartsLearn how to load parse and filter external files in JSON and CSV formatsUnderstand the benefits of using a data visualization frameworkWho this book is for The ideal target audience of this book includes web developers and designers data journalists data scientists and artists who wish to create interactive data visualizations for the Web Basic knowledge of HTML CSS and JavaScript is required No Canvas knowledge is necessary

Pro Data Visualization Using R and JavaScript Tom Barker,2013-06-17 Pro Data Visualization using R and JavaScript makes the R language approachable and promotes the idea of data gathering and analysis You ll see how to use R to interrogate and analyze your data and then use the D3 JavaScript library to format and display that data in an elegant informative and interactive way You will learn how to gather data effectively and also how to understand the philosophy and implementation of each type of chart so as to be able to represent the results visually With the popularity of the R language the art and practice of creating data visualizations is no longer the preserve of mathematicians statisticians or cartographers As technology leaders we can gather metrics around what we do and use data visualizations to communicate that information

Pro Data Visualization using R and JavaScript combines the power of the R language with the simplicity and familiarity of JavaScript to display clear and informative data visualizations Gathering and analyzing empirical data is the key to truly understanding anything We can track operational metrics to quantify the health of our products in production We can track quality metrics of our projects and even use our data to identify bad code Visualizing this data allows anyone to read our analysis and easily get a deep understanding of the story the data tells What you ll learn A rich understanding of how to gather and analyze empirical data How to tell a story with data using data visualizations What types of data visualizations are best to use for the story that you want to tell with your data A comprehensive introduction to the R language covering all the essentials Exploration of how to construct interactive data visualizations using JavaScript and JavaScript libraries Who this book is for Developers at all levels interested in data visualization beginning to intermediate engineering managers statisticians mathematicians economists and any others interested in data visualization Table of Contents Techniques for Data Visualization The R Language A Deeper Dive into R Data Visualization with D3 Visualizing Spatial Information from Access Logs Data Maps Visualizing Defects over Time Time Series Bar Charts Correlation Analysis with Team Dynamics Scatterplot and Bubble Chart Balancing Delivery with Quality Parallel Coordinates Chart **Data Visualization with Python and JavaScript** Kyran Dale,2016-06-30 Learn how to turn raw data into rich interactive web visualizations with the powerful combination of Python and JavaScript With this hands on guide author Kyran Dale teaches you how build a basic dataviz toolchain with best of breed Python and JavaScript libraries including Scrapy Matplotlib Pandas Flask and D3 for crafting engaging browser based visualizations As a working example throughout the book Dale walks you through transforming Wikipedia s table based list of Nobel Prize winners into an interactive visualization You ll examine steps along the entire toolchain from scraping cleaning exploring and delivering data to building the visualization with JavaScript s D3 library If you re ready to create your own web based data visualizations and know either Python or JavaScript this is the book for you Learn how to manipulate data with Python Understand the commonalities between Python and JavaScript Extract information from websites by using Python s web scraping tools BeautifulSoup and Scrapy Clean and explore data with Python s Pandas Matplotlib and Numpy libraries Serve data and create RESTful web APIs with Python s Flask framework Create engaging interactive web visualizations with JavaScript s D3 library **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 **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

Pro Data Visualization Using R and JavaScript Tom Barker,Jon Westfall,2021-10-29 Use R 4 RStudio Tidyverse and Shiny to interrogate and analyze your data and then use the D3 JavaScript library to format and display that data in an elegant informative and interactive way You will learn how to gather data effectively and also how to understand the philosophy and implementation of each type of chart so as to be able to represent the results visually With the popularity of the R language the art and practice of creating data visualizations is no longer the preserve of mathematicians statisticians or cartographers As technology leaders we can gather metrics around what we do and use data visualizations to communicate that information Pro Data Visualization Using R and JavaScript combines the power of the R language with the

simplicity and familiarity of JavaScript to display clear and informative data visualizations Gathering and analyzing empirical data is the key to truly understanding anything We can track operational metrics to quantify the health of our products in production We can track quality metrics of our projects and even use our data to identify bad code Visualizing this data allows anyone to read our analysis and easily get a deep understanding of the story the data tells This book makes the R language approachable and promotes the idea of data gathering and analysis mostly using web interfaces What You Will Learn Carry out data visualization using R and JavaScript Use RStudio for data visualization Harness Tidyverse data pipelines Apply D3 and R Notebooks towards your data Work with the R Plumber API generator Shiny and more Who This Book Is For Programmers and data scientists analysts who have some prior experience with R and JavaScript **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 *Learning D3.js Data Visualization* AEndrew Rininsland,ndrew Rininsland,Swizec Teller,2016 Inject new life into your data by creating compelling visualizations with d3 jsAbout 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 jsWho This Book Is ForThis 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 JavaScriptIn DetailD3 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 approachThis book has comprehensive explanation on how to leverage the power of D3 js to create powerful and creative visualizations through step by step instruction **Expert Data Visualization** Jos Dirksen,2017-04-24 Breathe life into your data by learning how to use D3 js V4 to visualize information About This Book

Create complex visualizations powered by D3 js and open data Provides an extensive set of visualizations that explore all the functionality provided by D3 js V4 Shows how to set up an easy to use environment to create stunning visualizations Who This Book Is For The typical target audience of this book is JavaScript developers designers and visual artists who have some basic JavaScript programming knowledge and who now want to master pro level techniques to create interactive data visualizations using web standards which work on desktop as well as mobile devices What You Will Learn Learn how D3 js works to declaratively define visualizations Create charts from scratch by using SVG and the D3 js APIs See how to prepare data for easy visualization using D3 js Visualize hierarchical data using chart types provided by D3 js Explore the different options provided by D3 js to visualize linked data such as graphs Spice up your visualizations by adding interactivity and animations Learn how to use D3 js to visualize and interact with Geo and Gis related information sources Create visualization by streaming data over WebSockets In Detail Do you want to make sense of your data Do you want to create interactive charts data trees info graphics geospatial charts and maps efficiently This book is your ideal choice to master interactive data visualization with D3 js V4 The book includes a number of extensive examples that to help you hone your skills with data visualization Throughout nine chapters these examples will help you acquire a clear practical understanding of the various techniques tools and functionality provided by D3 js You will first setup your D3 JS development environment and learn the basic patterns needed to visualize your data After that you will learn techniques to optimize different processes such as working with selections animating data transitions creating graps and charts integrating external resources static as well as streaming visualizing information on maps working with colors and scales utilizing the different D3 js APIs and much more The book will also guide you through creating custom graphs and visualizations and show you how to go from the raw data to beautiful visualizations The extensive examples will include working with complex and realtime data streams such as seismic data geospatial data scientific data and more Towards the end of the book you will learn to add more functionality on top of D3 js by using it with other external libraries and integrating it with Ecmascript 6 and Typescript Style and approach This book will have a real world case study approach where you will be given data sets from different domains These data sets will have different visualization goals some might need 2D or 3D charts some might need automated workflows others might require interactive maps While you fulfill these goals you will learn different techniques and best practices which will enable you to perform data visualization tasks on your own   **Data Visualization Toolkit** Barrett Clark,2016-08-04 Create Beautiful Visualizations that Free Your Data to Tell Powerful Truths The depth of Barrett Clark s knowledge shines through in his writing clear concise and confident Barrett has been practicing all of this stuff in his day job for many years Postgres D3 GIS all of it The knowledge in this book is real world and hard earned From the Foreword by Obie Fernandez Data Visualization Toolkit is your hands on practical and holistic guide to the art of visualizing data You ll learn how to use Rails jQuery D3 Leaflet PostgreSQL and PostGIS together creating beautiful visualizations and maps that give your data a voice

and to make it dance Barrett Clark teaches through real world problems and examples developed specifically to illuminate every technique you need to generate stunningly effective visualizations You ll move from the absolute basics toward deep dives mastering diverse visualizations and discovering when to use each Along the way you ll build three start to finish visualization applications using actual real estate weather and travel datasets Clark addresses every component of data visualization your data database application server visualization libraries and more He explains data transformations presents expert techniques in JavaScript Ruby and SQL and illuminates key concepts associated with both descriptive statistics and geospatial data Throughout everything is aimed at one goal to help you cut through the clutter and let your data tell all it can This guide will help you Explore and understand the data visualization technology stack Master the thought process and steps involved in importing data Extract transform and load data in usable reliable form Handle spotty data or data that doesn t line up with what your chart expects Use D3 to build pie and bar charts scatter and box plots and more Work effectively with time series data Tweak Ruby and SQL to optimize performance with large datasets Use raw SQL in Rails window functions subqueries and common table expressions Build chord diagrams and time series aggregates Use separate databases or schema for reporting databases Integrate geographical data via geospatial SQL queries Construct maps with Leaflet and Rails Query geospatial data the Rails way and the raw SQL way *Source Code Analytics With Roslyn and JavaScript Data Visualization* Sudipta Mukherjee,2016-12-20 Learn how to build an interactive source code analytics system using Roslyn and JavaScript This concise 150 page book will help you create and use practical code analysis tools utilizing the new features of Microsoft s Roslyn compiler to understand the health of your code and identify parts of the code for refactoring Source code is one of the biggest assets of a software company However if not maintained well it can become a big liability As source code becomes larger more complex and accessed via the cloud maintaining code quality becomes even more challenging The author provides straightforward tools and advice on how to manage code quality in this new environment Roslyn exposes a set of APIs which allow developers to parse their C and VB NET code and drastically lower the barrier to entry for Meta programming in NET Roslyn has a dedicated set of APIs for creating custom refactoring for integrating with Visual Studio This title will show readers how to use Roslyn along with industry standard JavaScript visualization APIs like HighCharts D3 js etc to create a scalable and highly responsive source code analytics system What You Will Learn Understand the Roslyn Syntax API Use Data Visualization techniques to assist code analysis process visually Code health monitoring matrices from the standard of Code Query Language Code mining techniques to identify design patterns used in source code Code forensics techniques to identify probable author of a given source code Techniques to identify duplicate near duplicate code Who This Book is For NET Software Developers and Architects

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