Data Visualization with D3 and AngularJS

Build dynamic and interactive visualizations from real-world data with D3 on AngularJS

Christoph Körner

Data Visualization With D3 And Angularjs

Rob Larsen

Data Visualization With D3 And Angularjs:

   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   **Data Visualization with D3 and Angularjs** Christoph Korner,2015-04-30   **D3.js: Cutting-edge Data Visualization** Ændrew 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   **Learning Responsive Data Visualization** Christoph Korner,2016-03-23 Master the art of building responsive visualizations on the Web About This Book Learn the techniques for building data visualizations that work well for all screen sizes Implement responsive techniques with popular libraries to get to grips with building responsive visualizations that work in the real world Incorporate responsive workflow in your data visualization process to build visualizations that take a mobile first approach Who This Book Is For Web developers and data science professionals who want to make their visualizations work for smaller screen sizes Some basic knowledge of JavaScript and Data visualization is expected What You Will Learn Get familiar with responsive design for data visualizations Understand the main concepts of D3 js to create interactive visualizations Unleash the power of Bootstrap to create stunning and responsive visualizations for all screen resolutions Implement Touch and Mouse interactions for mobile first applications Design Transitions and Animations that impress in portrait and landscape Build a Responsive World Map using GeoJSON and D3 js In Detail Using D3 js and Responsive Design principles you will not just be able to implement visualizations that look and feel awesome across all devices and screen resolutions but you will also boost your productivity and reduce development time by making use of Bootstrap the most popular framework for developing responsive web applications This book teaches the basics of scalable vector graphics SVG D3 js and Bootstrap while focusing on Responsive Design as well as mobile first visualizations the reader will start by discovering Bootstrap and how it can be used for creating responsive applications and then implement a basic bar chart in D3 js You will learn about loading parsing and filtering data in JavaScript and then dive into creating a responsive visualization by using Media Queries responsive interactions for Mobile and Desktop devices and transitions to bring the visualization to life In the following chapters we build a fully responsive interactive map to display geographic data using GeoJSON and set up integration testing with Protractor to test the application across real devices using a mobile API gateway such as AWS Device Farm You will finish the journey by discovering the caveats of mobile first applications and learn how to master cross browser complications Style and approach As the world shifts to mobile devices for consuming data on the Web developers are faced with the unique challenge of making data visualizations work for their smaller screens The growth of responsive web design enabled developers to adopt page layouts and media for smaller screens but there is still little information available on how to adapt data visualizations for the smaller screens This book fills this important gap and shows how responsive web design principles can be extended to create visualizations that work well regardless of the screen size thereby allowing developers to build user friendly visualizations that work well on all devices In addition to covering some of the popular techniques and design patterns for building responsive visualizations the book also shows readers how to

implement these techniques with the help of some popular tools and libraries **Pro Hadoop Data Analytics** Kerry Koitzsch,2016-12-29 Learn advanced analytical techniques and leverage existing tool kits to make your analytic applications more powerful precise and efficient This book provides the right combination of architecture design and implementation information to create analytical systems that go beyond the basics of classification clustering and recommendation Pro Hadoop Data Analytics emphasizes best practices to ensure coherent efficient development A complete example system will be developed using standard third party components that consist of the tool kits libraries visualization and reporting code as well as support glue to provide a working and extensible end to end system The book also highlights the importance of end to end flexible configurable high performance data pipeline systems with analytical components as well as appropriate visualization results You ll discover the importance of mix and match or hybrid systems using different analytical components in one application This hybrid approach will be prominent in the examples What You ll Learn Build big data analytic systems with the Hadoop ecosystem Use libraries tool kits and algorithms to make development easier and more effective Apply metrics to measure performance and efficiency of components and systems Connect to standard relational databases noSQL data sources and more Follow case studies with example components to create your own systems Who This Book Is For Software engineers architects and data scientists with an interest in the design and implementation of big data analytical systems using Hadoop the Hadoop ecosystem and other associated technologies **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 **Mastering Qlik Sense** Juan Ignacio Vitantonio,Martin Mahler,2018-03-16 Master the capabilities of Qlik Sense to design and deploy solutions that address all the Business Intelligence needs of your organization Key Features Create compelling dashboards and visualizations with your data by leveraging Qlik Sense s self service model Perform data loading and model efficient solutions with faster performance and better governance Master Qlik Sense s APIs and develop powerful mashups and fantastic extensions for visualizations and other components that run across all platforms Book Description Qlik Sense is a powerful self servicing Business Intelligence tool for data discovery analytics and visualization It allows you to create personalized Business Intelligence solutions from raw data and get actionable insights from it This book is your one stop guide to mastering Qlik Sense catering to all your organizational BI needs You ll see how you can seamlessly navigate through tons of data from multiple sources and take advantage of the various APIs available in Qlik and its components for guided analytics You ll also learn how to embed visualizations into your existing BI solutions and extend the capabilities of Qlik Sense to create new visualizations and dashboards that work across all platforms We also cover other advanced concepts such as porting your Qlik View applications to Qlik Sense and working with Qlik Cloud Finally you ll implement enterprise wide

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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 **Visualizing Streaming Data** Anthony Aragues,2018-06-01 While tools for analyzing streaming and real time data are gaining adoption the ability to visualize these data types has yet to catch up Dashboards are good at conveying daily or weekly data trends at a glance though capturing snapshots when data is transforming from moment to moment is more difficult but not impossible With this practical guide application designers data scientists and system administrators will explore ways to create visualizations that bring context and a sense of time to streaming text data Author Anthony Aragues guides you through the concepts and tools you need to build visualizations for analyzing data as it arrives Determine your company s goals for visualizing streaming data Identify key data sources and learn how to stream them Learn practical methods for processing streaming data Build a client application for interacting

with events logs and records Explore common components for visualizing streaming data Consider analysis concepts for developing your visualization Define the dashboard s layout flow direction and component movement Improve visualization quality and productivity through collaboration Explore use cases including security IoT devices and application data **D3.js 4.x Data Visualization** Ændrew 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 **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 *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

Building Data Visualizations with D3 and Angular 2 Matt Dionis,2017 This practical tutorial gives real world solutions to how your data can be brought to life by harnessing the power of D3 js and using it in tandem with Angular 2 The course

begins by showing you how to connect data effectively to SVG elements using D3 js and provides an introduction to making D3 data visualizations interactive It then moves on to creating a basic Angular 2 application complete with components services data and event binding and a testing infrastructure Finally you will learn how to integrate D3 js into an Angular 2 application You will build a data dashboard out of flexible Angular 2 components Towards the end of this volume you will learn to leverage a few advanced features and functionalities such as incorporating real time data streams and adding interactivity and animations This course will provide you with the knowledge base and skill set to visualize virtually any data set and allow your audience to interact with these visualizations to gain deeper insight Resource description page *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

AI-Based Data Analytics Kiran Chaudhary,Mansaf Alam,2023-12-29 This book covers various topics related to marketing and business analytics It explores how organizations can increase their profits by making better decisions in a

timely manner through the use of data analytics This book is meant for students practitioners industry professionals researchers and academics working in the field of commerce and marketing big data analytics and organizational decision making Highlights of the book include The role of Explainable AI in improving customer experiences in e commerce Sentiment analysis of social media Data analytics in business intelligence Federated learning for business intelligence AI based planning of business management An AI based business model innovation in new technologies An analysis of social media marketing and online impulse buying behaviour AI Based Data Analytics Applications for Business Management has two primary focuses The first is on analytics for decision making and covers big data analytics for market intelligence data analytics and consumer behavior and the role of big data analytics in organizational decision making The book s second focus is on digital marketing and includes the prediction of marketing by consumer analytics web analytics for digital marketing smart retailing and leveraging web analytics for optimizing digital marketing strategies   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   Mastering SVG Rob Larsen,2018-09-21 SVG is considered an important aspect of animating your web applications Its cross platform markup along with the combination of modern web technologies proves to be a great combination for web designers and developers This book will show you the different facets of SVG and the various considerations and prerequisites for animating with SVG   D3.js: Cutting-edge Data Visualization Aendrew H. Rininsland,Michael Heydt,Pablo Navarro Castillo,2016   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

Adopting the Track of Expression: An Mental Symphony within **Data Visualization With D3 And Angularjs**

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Data Visualization With D3 And Angularjs Introduction

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