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Data Visualization
With D3 And

***Data Visua
lization
With D3
And
Angularjs***

Master D3,
Today ' s Most
Powerful Tool for
Visualizing Data

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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

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Angularjs

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

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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

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Angularjs

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

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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,

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Angularjs

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

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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

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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

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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

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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 ritchies

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king.com/book,
along with video
tutorials, updates,
supporting
material, and even
more examples, as
they become
available.

Breathe life into
your data by
learning how to
use D3.js V4 to

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visualize
Angularis

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

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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,

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Angularjs

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

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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

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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

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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

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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,

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Angularjs

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

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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.

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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

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working with
selections;
animating data
transitions;
creating graphs and
charts, integrating
external resources
(static as well as
streaming);
visualizing
information on
maps; working with

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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

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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,

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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-

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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

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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

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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-

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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

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Angularjs

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

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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

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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

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With D3 And
using Node.js-
Angularis

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

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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

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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

File Type PDF Data Visualization With D3 And

representing data
Angularjs
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

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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

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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

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Angularjs

and creative
visualizations
through step by
step instruction
This book will help
you build
interactive graphs
that are viewable
in any web
browser using
JavaScript, D3.js,
and SVG. You will

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learn how to make a scatter plot, a bar graph, a pie chart, a force directed graph, and a map. Key Features Takes you through the most common graphs you'll need Add interactivity to your

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Data Visualization
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visualizations Easy
Angularjs
to follow

builds Book

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

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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,

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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

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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

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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

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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

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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

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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

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knowledge of
JavaScript is
expected, but no
prior experience
with data
visualization or D3
is required to
follow this book.

Data Visualization
with D3 4. X
Cookbook -
Second Edition

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Mastering D3.Js

Learning D3.js

Data Visualization

Data Visualization

with D3 and

Angularjs

Scrape, Clean,

Explore &

Transform Your

Data

Create attractive web-
based data

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visualizations using
the amazing
JavaScript library
D3.js About 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,

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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,

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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

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With D3 And

Angularjs

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

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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

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to your visualizations, including tool-tips, sorting, hover-to-highlight, and grouping and dragging of visuals In Detail This 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

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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

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bar, line, and scatter charts, as well as more elaborate visualizations such as network diagrams, Sankey diagrams, maps, and choreopleths. Using practical examples provided, you will quickly get to grips with the features of D3.js and use this learning to create

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your own spectacular data visualizations with D3.js. Style and approach This 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

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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. Create and publish your own interactive

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data visualization projects on the web—even if you have little or no experience with data visualization or web development. It's inspiring and fun with this friendly, accessible, and practical hands-on introduction. This fully updated and expanded second edition takes you

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through the fundamental concepts and methods of D3, the most powerful JavaScript library for expressing data visually in a web browser. Ideal for designers with no coding experience, reporters exploring data journalism, and anyone who wants to visualize and share

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data, this step-by-step guide will also help you expand your web programming skills by teaching you the basics of HTML, CSS, JavaScript, and SVG. Learn D3 4.x—the latest D3 version—with downloadable code and over 140 examples Create bar charts, scatter plots, pie charts, stacked

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bar charts, and force-directed graphs Use smooth, animated transitions to show changes in your data Introduce interactivity to help users explore your data Create custom geographic maps with panning, zooming, labels, and tooltips Walk through the creation of a complete visualization

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project, from start to finish Explore inspiring case studies with nine accomplished designers talking about their D3-based projects Bring your data to life with D3.js. Create interactive, visually exciting infographics and visualizations with HTML, CSS,

File Type PDF Data Visualization With D3 And JavaScript, and SVG Angularjs graphics.

Summary Visualizing
Graph Data teaches
you not only how to
build graph data
structures, but also
how to create your
own dynamic and
interactive
visualizations using a
variety of tools. This
book is loaded with
fascinating examples

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and case studies to show you the real-world value of graph visualizations.

Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Assume you are doing a great job collecting data about

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your customers and products. Are you able to turn your rich data into important insight? Complex relationships in large data sets can be difficult to recognize. Visualizing these connections as graphs makes it possible to see the patterns, so you can find meaning in an

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otherwise overwhelming sea of facts.

About the Book

Visualizing Graph

Data teaches you how to understand graph data, build graph data structures, and create meaningful

visualizations. This engaging book gently introduces graph data visualization through fascinating examples

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and compelling case studies. You'll discover simple, but effective, techniques to model your data, handle big data, and depict temporal and spatial data. By the end, you'll have a conceptual foundation as well as the practical skills to explore your own data with confidence.

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What's Inside
Techniques for
creating effective
visualizations
Examples using the
Gephi and KeyLines
visualization
packages Real-world
case studies About
the Reader No prior
experience with graph
data is required.
About the Author
Corey Lanum has

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decades of
experience building
visualization and
analysis applications
for companies and
government agencies
around the globe.

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modeling How to build
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Creating interactive
visualizations How to
organize a chart Big
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when there's too
much data Dynamic
graphs: how to show
data over time Graphs

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JavaScript
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D3.js in Action
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Learn how to
turn raw data

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into rich,
interactive web
visualizations
with the
powerful
combination of
Python and
JavaScript. With
this hands-on
guide, author
Kyran Dale
teaches you how

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build a basic
dataviz
toolchain with
best-of-breed
Python and
JavaScript librari
es—including
Scrapy,
Matplotlib,
Pandas, Flask,
and D3—for
crafting

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engaging,
browser-based
visualizations.
As a working
example,
throughout the
book Dale walks
you through
transforming
Wikipedia's
table-based list
of Nobel Prize

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winner into an interactive visualization.

You'll examine steps along the entire toolchain, from scraping, cleaning, exploring, and delivering data to building the visualization

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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

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data with Python
Understand the
commonalities
between Python
and JavaScript
Extract
information from
websites by
using Python's
web-scraping
tools,
BeautifulSoup

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Clean and
explore data
with Python's
Pandas,
Matplotlib, and
Numpy libraries
Serve data and
create RESTful
web APIs with
Python's Flask
framework

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Angularjs

Create
engaging,
interactive web
visualizations
with JavaScript's
D3 library
Summary D3.js
in Action,
Second Edition
is completely
revised and
updated for D3

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v4 and ES6. It's a practical tutorial for creating interactive graphics and data-driven applications using D3.

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Publications.

About the
Technology
Visualizing
complex data is
hard. Visualizing
complex data on
the web is darn

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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,

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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

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Angularjs

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

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to data
visualization
with D3. You'll
explore dozens
of real-world
examples,
including force
and network
diagrams,
workflow
illustrations,
geospatial

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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

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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

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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

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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

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visualization
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VISUALIZATION
Hierarchical
visualization
Network

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Angularjs

visualization
Geospatial
information
visualization
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TECHNIQUES
Interactive
applications with
React and D3
Writing layouts
and components

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Mixed mode
rendering

Go beyond the
basics of D3.js
to create
maintainable,
modular, and
testable charts
and to package
them into a
library that can
be distributed as

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open source
software or kept
for private use.

This book will
show you how to
transform
regular D3.js
chart code into
reusable and
extendable
modules. You
know the basics

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of working with D3.js, but it's time to become a professional D3.js practitioner. This book is your launching pad to refactoring code, composing complex visualizations

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from small components, working as a team with other developers, and integrating charts with a Continuous Integration system. You'll begin by creating a

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production-ready chart using D3.js v5, ES2015, and a test-driven approach and then move on to using and extending Britecharts, the reusable charting library

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based on
Reusable API
patterns. Finally,
you'll see how to
use D3.js along
with React to
document and
build your charts
to compose a
charting library
you can release
into the NPM

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repository. With Pro D3.js, you'll become an accomplished D3.js developer in no time. What You Will Learn Create v5 D3.js charts with ES2016 and unit tests Develop modular,

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testable and
extensible code
with the
Reusable API
pattern Work
with and extend
Britecharts, a
reusable
charting library
created at
Eventbrite Use
Webpack and

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npm to create
and publish a
charting library
from your own
chart collections
Write reference
documentation
and build a
documentation
homepage for
your library.
Who This Book

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Is For Data scientists, data visualization engineers, and frontend developers with a fundamental knowledge of D3.js and some experience with JavaScript, as well as data

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journalists and
consultants.

Over 70 recipes
to help you
create

breathtaking
data

visualizations
using the latest
features of

D3About This
Book* Create

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modern,
stunning data
visualizations
with the new
features
introduced in D3
4.0* Bootstrap
D3 quickly with
the help of
ready-to-go
code samples*
Solve real-world

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visualization
problems with
the help of
practical
recipesWho This
Book Is ForIf you
are a developer
familiar with
HTML, CSS, and
JavaScript, and
you wish to get
the most out of

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D3, then this book is for you. This book can also serve as a desktop quick-reference guide for experienced data visualization developers. You'll also find this book useful

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if you're a D3 user who wants to take advantage of the new features introduced in D3 4.0. You need previous experience of D3. What you will learn* Get a solid

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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

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visualizations that update as the data does* Leverage the various layouts provided by D3 to create sophisticated, dynamic, and interactive charts and graphics* Create

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data-driven
transitions and
animations
within your
visualizations*
Understand and
leverage more
advanced
concepts such
as force, touch,
and Geo data
visualizationsIn

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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

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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

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target certain visual elements on the page, then will see techniques to represent data both in programming constructs and its visual metaphor. You will learn how

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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

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on, you'll see how to use and customize various D3 axes and master transition to add bells and whistles to your otherwise dry visualization. You'll also learn to work with

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charts, layout,
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,

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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-

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driven
development in
a visualization
project so you
know how to
produce high-
quality D3 code.
Data

Visualization
with D3 4.x
Cookbook
Hands-on Data

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Visualization
with D3.js 5.0

Learning Data
Visualization
with D3.js

Create amazing,
interactive
visualizations in
the browser with
JavaScript
Visualizing
Graph Data

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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

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learn how to use
AngularJS,
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

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visualizations and will have you building basic visualizations, like bar, line, and scatter graphs, in no time. Then you'll move on to more advanced topics, including how to: Create tree maps, heat maps, network

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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

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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

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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.

Before you know
it, you'll be well
on your way to

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creating simple,
powerful data
visualizations.

If you are a
software
developer
working with
data
visualizations and
want to build
complex data
visualizations,
this book is for

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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.

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Summary D3.js in Action is a practical tutorial for creating interactive graphics and data-driven applications using D3.js. You'll start with in-depth explanations of D3's out-of-the-

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Angularjs,
box layouts,
along with
dozens of
practical use
cases that align
with different
types of
visualizations.
Then, you'll
explore practical
techniques for
content creation,
animation, and

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representing
dynamic
data—including
interactive
graphics and data
streamed live
over the web. The
final chapters
show you how to
use D3's rich
interaction model
as the foundation
for a complete

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web application.

In the end, you'll be ready to integrate D3.js into your web development process and transform any site into a more engaging and sophisticated user experience.

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About the
Technology D3.js
is a JavaScript
library that
allows data to be
represented

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graphically on a
web page.

Because it uses the broadly supported SVG standard, D3 allows you to create scalable graphs for any modern browser. You start with a structure, dataset, or

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algorithm and programmatically generate static, interactive, or animated images that responsively scale to any screen. About the Book D3.js in Action introduces you to the most powerful web data visualization

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library available and shows you how to use it to build interactive graphics and data-driven applications.

You'll start with dozens of practical use cases that align with different types of charts,

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networks, and maps using D3's out-of-the-box layouts. Then, you'll explore practical techniques for content design, animation, and representation of dynamic data—including interactive

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graphics and live
streaming data.

What's Inside
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vector graphics
Expressive data
visualization
Creating rich
mapping
applications
Prepping your
data Complete
data-driven web

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apps in D3
Readers need
basic HTML,
CSS, and
JavaScript skills.
No experience
with D3 or SVG is
required. About
the Author Elijah
Meeks is a senior
data visualization
engineer at
Netflix. His D3.js

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portfolio includes
work at Stanford
University and
with well-known
companies
worldwide. Table
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Geospatial
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Composing
interactive
applications
Writing layouts
and components
Big data
visualization

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D3.js on mobile
(available online
only)

Interactive Data
Visualization for
the Web

addresses people
interested in data
visualization but
new to
programming or
web
development,

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giving them what they need to get started creating and publishing their own data visualization projects on the web. The recent explosion of interest in visualization and publicly available data sources has

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created need for making these skills accessible at an introductory level. The second edition includes greatly expanded geomapping coverage, more real-world examples, a chapter on how

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to put together
all the pieces,
and an appendix
of case studies, in
addition to other
improvements.

An Introduction
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Visualization in
JavaScript

Creating Data

Visualization with
D3

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Guide

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Visual

Storytelling with
D3

**Master the art
of building
responsive
visualizations
on the Web About
This Book Learn
the techniques**

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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

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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

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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

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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

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visualizations
Angularjs
for all screen
resolutions
Implement Touch
and Mouse
interactions for
mobile-first
applications
Design
Transitions and
Animations that
impress in
portrait and
landscape Build

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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

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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

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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;

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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

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loading,
Angularjs 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,

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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

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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

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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

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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

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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

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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

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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.

If you are a web

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developer with
experience in
AngularJS and
want to
implement
interactive
visualizations
using D3.js,
this book is for
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of SVG or D3.js
will give you an
edge to get the
most out of this

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book.

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data into real
knowledge by
creating and
deploying
complex data
visualizations
with D3.js About
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to best
represent your
data by

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developing the
right kind of
visualization
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concepts of
D3.js through
examples that
enable you to
quickly create
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including
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diagrams, and
maps Get

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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
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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

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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

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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

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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

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D3.js generators
to perform the
magic of
creating complex
visualizations
from data Add
interactivity to
your
visualizations,
including tool-
tips, sorting, h
over-to-
highlight, and
grouping and

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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

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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

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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

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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

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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

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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

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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
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the best that

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Rininsland D3.js

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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

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creative
visualizations
through step-by-
step
instructions in
the form of
modules. Each
module help you
skill up a level
in creating
meaningful
visualizations.
Create and
publish your own

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interactive and
compelling data
visualizations
with D3.js 4.x
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Build

interactive and
rich graphics
and
visualization

using
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D3.js Learn D3

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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
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testable,

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extensible code
and strong
typing Who This
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book is for web
developers,
interactive news
developers, data
scientists, and
anyone
interested in
representing
data through
interactive

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visualizations
on the Web with
D3. Some basic
knowledge of
JavaScript is
expected, but no
prior experience
with data
visualization or
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to follow this
book. What You
Will Learn Map
data to visual

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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

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Write modern
JavaScript using
ES2017 and Babel
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testing D3
visualizations
using Mocha and
Chai Write and
deploy a simple
Node.js web
service to
render charts
via HTML Canvas

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Understand what
makes a good
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visualization
and how to use
the tools at
your disposal to
create accurate
charts In Detail
Want to get
started with
impressive
interactive
visualizations

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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

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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

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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

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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)

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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

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visualization.
Style and

approach This
book follows a
tutorial-based
approach in
teaching the
world's most
powerful data
visualization
library, D3.
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Visualization to

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Create
Maintainable,
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Expert Data
Visualization
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Data
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with JavaScript
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oldest and most popular tools for web data visualization. It has the flexibility to generate anything you can imagine to represent your data and emphasize key stories it shows. You will learn how to use D3.js's built-in layouts to generate attractive, complex plots with a few lines of

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JavaScript code. You will use real-world data to see how D3.js works for actual data visualization problems. Finally, you will build a beautiful, interactive dashboard to visualize information on stocks and market trading data. By the end of this course, you will be able to use D3.js

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visualize and build gorgeous, interactive, animated visualizations on the web."--Resource description page. Don't simply show your data—tell a story with it! Storytelling with Data teaches you the fundamentals of data visualization and how to communicate effectively with data.

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You'll discover the power of storytelling and the way to make data a pivotal point in your story. The lessons in this illuminative text are grounded in theory, but made accessible through numerous real-world examples—ready for immediate application to your next graph or

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Storytelling is not an inherent skill, especially when it comes to data visualization, and the tools at our disposal don't make it any easier. This book demonstrates how to go beyond conventional tools to reach the root of your data, and how to use

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your data to create an engaging, informative, compelling story.

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Understand the importance of context and audience

Determine the appropriate type of graph for your situation Recognize and eliminate the clutter clouding your

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information Direct
your audience's
attention to the most
important parts of
your data Think like a
designer and utilize
concepts of design in
data visualization
Leverage the power
of storytelling to help
your message
resonate with your
audience Together,
the lessons in this

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book will help you turn your data into high impact visual stories that stick with your audience. Rid your world of ineffective graphs, one exploding 3D pie chart at a time. There is a story in your data—Storytelling with Data will give you the skills and power to tell it!

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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

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presentations Solve
real-world

visualization problems
with the help of

practical recipes Who

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you are a developer

familiar with HTML,

CSS, and JavaScript,

and you wish to get

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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

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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

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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

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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

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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

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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

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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

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colored map) in D3.

Angularis
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

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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. Packed with practical recipes, this is a step-by-step guide to learning data

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visualization with D3 with the help of detailed illustrations and code samples. 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 also serve as a desktop quick-reference guide for

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developers.

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D3.js: Cutting-edge

Data Visualization

Learning Responsive

Data Visualization

Interactive Graphics

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Scientists

**Create and
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compelling data
visualizations
with d3.js About
This Book*
Understand how
to best represent
your data by
developing the
right kind of**

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visualization*
Angularis

**Learn D3 from
the ground up,
using the all-new
version 4 of the
library* Gain
insight into
producing high-
quality,
extensible charts
using best
practices such as
writing testable,**

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**extensible code
and strong
typingWho This
Book Is ForIf
you're a web
developer, data
scientist, or
anyone
interested in
creating
vizualizations on
the Web and
have experience**

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**with JavaScript,
then this book is
for you. What you
will learn***

**Transform data
using D3's
collection**

**methods.* Map
data to visual
elements using
D3's scales.***

**Draw SVG
elements using**

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D3's shape generators.* 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-

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**testing D3
visualizations
using Mocha
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**

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the tools at your disposal to create accurate charts. In Detail Want to get started with interactive and impressive visualizations, and implement them in your daily tasks? Our book offers the

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**perfect
solution**D3.js 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

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**the newest tools
and techniques.
You will start by
setting up the D3
environment and
making your first
basic histogram.
You will then
build stunning
SVG- and Canvas-
based data
visualizations
while writing**

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**testable,
extensible code,
fully 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**

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**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
successful data
visualizations
and will be ready**

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to use D3 to transform any data into a more engaging and sophisticated visualization. Explore the power of D3.js 5 and its integration with web technologies for building rich and interactive

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**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**

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**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**

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**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**

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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

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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

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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.

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**You will learn
how to create
bar, line, pie and
scatter charts,
trees,
dendograms,
treemaps, circle
packs,
chord/ribbon
diagrams, sankey
diagrams,
animated
network**

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**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,**

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**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**

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**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**

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**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**

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**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**

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**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.**

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"Do you want to make sense of your data? Do you want to create interactive charts, data trees, and geospatial charts efficiently? Well then, this course is your ideal choice to learn interactive data

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**visualization with
D3.js V4. It**

**includes a
number of
extensive
examples that to
help you hone
your skills with
data
visualization.
Throughout five
sections these
examples will**

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**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**

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patterns needed to visualize your data. After that you will learn techniques to optimize different processes such animating data transitions, creating charts, and much more. The course will

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also guide you through creating custom graphs and visualizations, and show you how to go from the raw data to beautiful visualizations. Towards the end of the course, you will learn to

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**add more
functionality on
top of D3.js by
using it with
other external
libraries and
integrating it
with ECMAScript
6."--Resource
description page.
Pro Data
Visualization
using R and**

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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

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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

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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

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**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**

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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

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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

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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

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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**

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**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**

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**levels interested
in data
visualization,
beginning to
intermediate
engineering
managers,
statisticians,
mathematicians,
economists and
any others
interested in data
visualization.**

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D3 Visualizing
Spatial**

**Information from
Access Logs
(Data Maps)**

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**Visualizing
Defects over
Time (Time
Series) Bar
Charts
Correlation
Analysis with
Team Dynamics
(Scatterplot and
Bubble Chart)
Balancing
Delivery with
Quality (Parallel**

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**Coordinates
Chart)**

**Fullstack D3 and
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Visualization

Learning D3. JS 4.

X Data

Visualization -

Third Edition

Data

Visualization with

Python and

JavaScript

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**D3. Js in Action
Getting Started**

with

Fullstack D3 and
Data

VisualizationBuild

Beautiful Data

Visualizations

withFullstack.IO

"D3.js gives us a
way to easily

represent data and

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create standard-based, interactive data-driven visualizations, which can run on all devices, from phone to desktop. Do you want to make sense of your data? Do you want to create interactive charts,

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geospatial charts,
and maps

efficiently? This
video course is
your ideal choice
to master
interactive data
visualization with
D3.js V4. The
course includes a
number of
extensive

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examples that to help you hone your skills with data visualization. These examples will help you acquire a clear practical understanding of the various techniques, tools and functionality

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provided by D3.js.

You will learn techniques to optimize different processes such as animating data transitions; creating graphs and charts, integrating external resources (static as well as

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streaming);
visualizing
information on
maps; working
with colors and
scales; utilizing the
different D3.js
APIs; and much
more. The
extensive
examples will
include working

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with complex and real time data streams. Towards the end of the course, you will learn to add custom shapes and paths using various D3 functionality."--Resource description page.

Author Scott

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Murray teaches you the fundamental concepts and methods of D3, a JavaScript library that lets you express data visually in a web browser. Build beautiful data visualizations

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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

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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

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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

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Angularjs

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

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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

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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

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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

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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

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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

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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

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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:

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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,

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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

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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

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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

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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

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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

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D3 and Angular.
Angularis
Build Beautiful
Data Visualizations
with
Data Visualization
with D3 and
AngularJS
Visualization
Analysis and
Design
Integrating D3.js
with React

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D3.js By Example
Angularjs

If you're in a hurry to learn D3.js, the leading JavaScript library for web-based graphics and visualization, this book is for you. Written for technically savvy readers

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with a background in programming or data science, the book moves quickly, emphasizing unifying concepts and patterns. Anticipating common difficulties, author Philipp

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K. Janert teaches you how to apply D3 to your own problems. Assuming only a general programming background, but no previous experience with contemporary web development, this book

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explains supporting technologies such as SVG, HTML5, CSS, and the DOM as needed, making it a convenient one-stop resource for a technical audience.

Understand D3 selections, the

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library's
fundamental
organizing
principle Learn
how to create
data-driven
documents with
data binding
Create animated
graphs and
interactive user
interfaces Draw
figures with
curves, shapes,

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and colors Use
the built-in
facilities for
heatmaps, tree
graphs, and
networks
Simplify your
work by writing
your own
reusable
components
Learn how to
create
beautiful,

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interactive,
browser-based
data
visualizations
with the D3
JavaScript
library. This
hands-on book
shows you how to
use a
combination of
JavaScript and
SVG to build
everything from

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simple bar
charts to
complex
infographics.
You'll learn how
to use basic D3
tools by
building
visualizations
based on real
data from the
New York
Metropolitan
Transit

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Authority. Using historical tables, geographical information, and other data, you'll graph bus breakdowns and accidents and the percentage of subway trains running on time, among other examples. By the

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end of the book, you'll be prepared to build your own web-based data visualizations with D3. Join a dataset with elements of a webpage, and modify the elements based on the data Map data values onto

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pixels and
colors with D3's
scale objects
Apply axis and
line generators
to simplify
aspects of
building
visualizations
Create a simple
UI that allows
users to
investigate and
compare data Use

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Angularjs
D3 transitions
in your UI to
animate
important
aspects of the
data Get an
introduction to
D3 layout tools
for building
more
sophisticated
visualizations
If you can code
and manipulate

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data, and know how to work with JavaScript and SVG, this book is for you.

Learn How to Design Effective Visualization Systems Visualization Analysis and Design provides a systematic, comprehensive framework for

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thinking about
visualization in
terms of
principles and
design choices.
The book
features a
unified approach
encompassing
information
visualization
techniques for
abstract data,
scientific

File Type PDF Data Visualization With D3 And Angularjs visualization techniques

Integrate D3.js
into a React
TypeScript
project and
create a chart
component
working in
harmony with
React. This book
will show you
how utilize D3
with React to

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bring life to your charts. Seasoned author Elad Elrom will show you how to create simple charts such as line, bar, donut, scatter, histogram and others, and advanced charts such as a world map and force

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charts. You'll also learn to share the data across your components and charts using React Recoil state management. Then integrate third-party chart libraries that are built on D3 such as Rechart,

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Visx, Nivo,
Angularis,
React-vi, and
Victory and in
the end deploy
your chart as a
server or
serverless app
on popular
platforms. React
and D3 are two
of the most
popular
frameworks in
their respective

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areas – learn to bring them together and take your storytelling to the next level.

What You'll Learn Set up your project with React, TypeScript and D3.js Create simple and advanced D3.js

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charts Work with
complex charts
such as world
and force charts
Integrate D3
data with React
state management
Improve the
performance of
your D3
components
Deploy as a
server or
serverless app

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and debug test
Who This Book Is
For Readers that
already have
basic knowledge
of React, HTML,
CSS and
JavaScript.
An Introduction
to Designing
with
Create
interactive data-
driven

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visualizations
for the web with
the D3.js
library
Data
Visualization
with D3.js
Cookbook
Mastering Data
Visualization
with D3.js
Building
Interactive Data
Visualizations

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**"Do you want to create
stunning data
visualizations using D3
and SVG? Then this
course is for you; it
will teach you about
scales by converting
your data into visuals
that will work on any
browser or device. You
will learn to add many
transitions and
animations to your**

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graphs to make them more interesting and appealing to users. This course will also help you build interactive bar charts, scatter plots, and force layouts by manipulating large amounts of data. You will also create choropleth maps and layouts to display visual patterns on

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geographical locations.

By the end of this course, you will have learned how to visualize your data and code more effectively.

You will have built your own data models with D3.js much more rapidly and very easily." --Resource description page.

"D3.js is a JavaScript library that enables

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**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**

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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

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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

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**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**

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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

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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

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**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 v
isualizations."--Resour
ce description page.
Pro D3.js**