D3.JS IN ACTION BY ELIJAH MEEKS



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About the Author

Elijah Meeks is a software developer and researcher at Stanford University. His D3.js portfolio includes work with ORBIS and Kindred Britain.

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D3.JS IN ACTION BY ELLIAH MEEKS PDF

Summary

D3.js in Action is a practical tutorial for creating interactive graphics and data-driven applications using D3.js. You'll start with in-depth explanations of D3's out-of-the-box layouts, along with dozens of practical use cases that align with different types of visualizations. Then, you'll explore practical techniques for content creation, animation, and representing dynamic data—including interactive graphics and data streamed live over the web. The final chapters show you how to use D3's rich interaction model as the foundation for a complete web application. In the end, you'll be ready to integrate D3.js into your web development process and transform any site into a more engaging and sophisticated user experience.

Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the Technology

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

About the Book

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

What's Inside

- Interacting with vector graphics
- Expressive data visualization
- Creating rich mapping applications
- Prepping your data
- Complete data-driven web apps in D3

Readers need basic HTML, CSS, and JavaScript skills. No experience with D3 or SVG is required.

About the Author

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

Table of Contents

About the Author

Elijah Meeks is a software developer and researcher at Stanford University. His D3.js portfolio includes work with ORBIS and Kindred Britain.Most helpful customer reviews18 of 19 people found the following review helpful.

Most Comprehensive Book on Data Visualization in d3.js

By Jerry

D3.js in Action is the most comprehensive book on data visualization out there and definitely a must have for both beginners and seasoned veterans. This book goes through almost every conceivable type of visualization you would want to do in d3 while going into heavy detail about the logic, implementation and reasoning behind why to use each type of visualization. Other books out there will give you a few examples with light details that you can find on the internet but where this book truly shines is that it teaches you how to visualize data that's meaningful for the user while teaching you about every single feature in a very concise manner. This book is heavy on the code and heavy on the diagrams which makes it a great place to learn from scratch or to use as a reference. I've gone through all of the other d3 books out there (Interactive Data Visualization for the Web, d3 Cookbook and Mastering d3js) and this one is the best by far because the other books are much too introductory, once you go through it once you'll never use it again as a reference but this book has so much detail that you'll keep on using it even when you become much more advanced.4 of 4 people found the following review helpful.

A useful and helpful overview of the D3.js library, with good how-to details, examples and technical explanations

By Si Dunn

The D3.js library is very powerful and full of useful choices and possibilities. But, you should not try to tackle Elijah Meeks's new book if you are a newcomer who has not yet gotten fairly comfortable with JavaScript, HTML, CSS and JSON. It also helps to understand how CSVs (Comma Separated Values) can be used. And you should know how to set up and run a local web server on your computer. However, prior knowledge of D3.js and SVG (Scalable Vector Graphics) is not necessary.

Some reviewers have remarked on the amount of how-to and technical information packed into D3.js in Action. It is indeed impressive. And, yes, it really can seem like the concepts, details and examples are being squirted at you from a fire hose, particularly if you are attempting to race through the text. As Elijah Meeks has pointed out: "[T]he focus of this book is on a more exhaustive explanation of key principles of the library."

So plan to take your time. Tackle D3.js in small bites, using the d3js.org website, this text and other sources. I am pretty new to learning data visualization, and I definitely had never heard of visualizations such as Voronoi diagrams, nor tools such as TopoJSON, until I started working my way through this book. And those are just a few of the available possibilities.

Like most of the other reviewers, I have not yet tried all of the code examples. But the ones I have tested have worked very well, and they have gotten me thinking about how I can adapt them to use in some of my work. I am a bit disappointed that the book takes 40 pages to get to the requisite "Hello, world" examples. And once you arrive, the explanations likely will seem a bit murky and incomplete to some readers.

However, that is a minor complaint. D3.js in Action definitely is a book that will live on my ready-reference shelf and get frequent use as I dig deeper into data visualization. D3.js and Elijah Meeks's new book are keepers for the long term.

My thanks to Manning for providing a review copy.2 of 2 people found the following review helpful.

An Excellent Guide to D3.js

By Paul Zenke

I bought this book as someone who doesn't have much experience with web programming. While D3.js in Action doesn't give you the ground-floor introduction to web development, HTML and CSS that Scott Murray's Interactive Data Visualization for the Web provides, D3.js in Action does give a nice overview of the basics of HTML5, SVG, CSS and JavaScript. But unlike Murray's book, D3.js in Action goes into much more detail about the intricate parts of D3 (for instance, Chapter 7 is dedicated to mapping). As my D3 skills improve, I look forward to digging deeper into D3.js in Action.See all 29 customer reviews...

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