

Nick Zhu

Data Visualization with D3 4.x Cookbook

Second Edition

Discover over 65 recipes to help you create breathtaking data visualizations using the latest features of D3



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Data Visualization with D3 4.x Cookbook

- Second Edition

D3.js provides a platform that helps you create your own beautiful visualization and bring data to life using HTML, SVG, and CSS. Its emphasis on web standards fully utilizes the capabilities of your web browser. 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.

It 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; you will then see techniques to represent data both in programming constructs and its visual metaphor. You will learn how to 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.

You'll also work with Force, which is one of the most awe-inspiring techniques you can add to your visualizations, and implement a fully functional Choropleth map in D3. Finally, you'll learn how to unit test data visualization code and use test-driven development in a visualization project so you will know how to produce high-quality D3 code.

Things 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 layouts 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



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BIRMINGHAM - MUMBAI

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