



# Data Visualization with D3 and AngularJS

By Christoph Körner

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**Data Visualization with D3 and AngularJS** By Christoph Körner

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

## About This Book

- Explore the powerful vector graphics capabilities of modern browsers to build customized cross-platform visualizations using D3.js's data-driven techniques
- Learn how to modularize a visualization into reusable and testable components using the powerful concepts of modern web application design with AngularJS
- This is a step-by-step learning guide closely focused on developing responsive data visualization apps and AngularJS best practices with D3.js

## Who This Book Is For

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.

## What You Will Learn

- Design, implement, and integrate an interactive dashboard to visualize server logs in real time using D3 graphics
- Learn cross-platform vector graphics to implement a dashboard visualization
- Perform data-driven transformations on selected HTML and SVG nodes
- Map, group, and filter datasets and create scales and axes
- Modularize data visualization information into reusable components to seamlessly integrate them into an AngularJS application
- Load, parse, and preprocess external data and autoupdate the visualization
- Design various chart types such as scatter, line, bar, or area and extend built-in shapes
- Create custom animations and transitions for the visualization
- Implement interactions and controls for the visualization preserving two-way binding between D3 and AngularJS components

## In Detail

Using D3.js, the powerful JavaScript toolkit for creating cross-platform vector graphics, you can now combine performance with maximum compatibility to build a web-based visualization and present data in an interactive and convenient way. We'll reach top-notch reusability and testability by combining D3 graphics with our favorite web application framework, AngularJS.

This book teaches the basics of vector graphics, D3, and AngularJS integration, and then dives into controlling, manipulating, and filtering data. You will learn about the testability of components and how to implement custom interactions, filters, and controllers; discover how to parse and map data in D3.js; and get a grasp on drawing D3.js built-in shapes and curves. After reading the last few chapters, you'll be able to bring life to your visualizations with more features of D3.js such as interactions, animations, and transitions. You will finish your journey by implementing a parser for different server application logs and display them on a Google Analytics style interactive dashboard.



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By *Christoph Korner*

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### **Editorial Review**

#### **About the Author**

#### **Christoph Korner**

Christoph Korner is the CTO of GESIM, a Swiss startup company, where he is responsible for its simulation software and web interface that is built using AngularJS and D3. He studied electrical engineering and information technology at Vienna University of Technology, including a 1-year exchange program at the Swiss Federal Institute of Technology, Lausanne. Christoph is a passionate, self-taught software developer, coworker, and web enthusiast with more than 7 years of experience in designing, developing, and implementing customer-oriented web-based IT solutions. He has always been enthusiastic and curious about new technologies and started to use AngularJS and D3 since the very first version. Christoph is not only fascinated by technology, but he also aims to push cutting-edge technologies to production services.

### **Users Review**

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#### **Julianna Pepper:**

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#### **Curtis Wilson:**

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**Allison Price:**

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