

JavaScript is the native language of the internet. Originally created to make web pages more dynamic, it is now used for software projects of all kinds, including scientific visualization and data services. However, most data scientists have little or no experience with it, and most introductions to it are written for people who want to build shopping carts rather than share maps of coral reefs.

This book will introduce you to JavaScript's power and idiosyncrasies and guide you through the key features of the language and its tools and libraries. The book places equal focus on client- and server-side programming, and shows readers how to create interactive web content, build and test data services, and visualize data in the browser.

Topics include:

- The core features of modern JavaScript
- Creating templated web pages
- Making those pages interactive using React
- Data visualization using Vega-Lite
- Building a data service with Express
- Unit testing with Mocha
- Using Data-Forge to wrangle tabular data

All of the material is covered by the Creative Commons Attribution-Non-commercial 4.0 International license (CC-BY-NC-4.0) and is included in the book's companion website at <http://js4ds.org>.

**Maya Gans** is a freelance data scientist and front-end developer by way of quantitative biology.

**Toby Hodges** is a bioinformatician turned community coordinator who works at the European Molecular Biology Laboratory.

**Greg Wilson** co-founded Software Carpentry, and is now part of the education team at RStudio

Cover image by Laura Wolf, <https://www.flickr.com/photos/laurawolfartist/35082149440/>

Computer Science

 **CRC Press**  
Taylor & Francis Group  
an informa business  
[www.crcpress.com](http://www.crcpress.com)

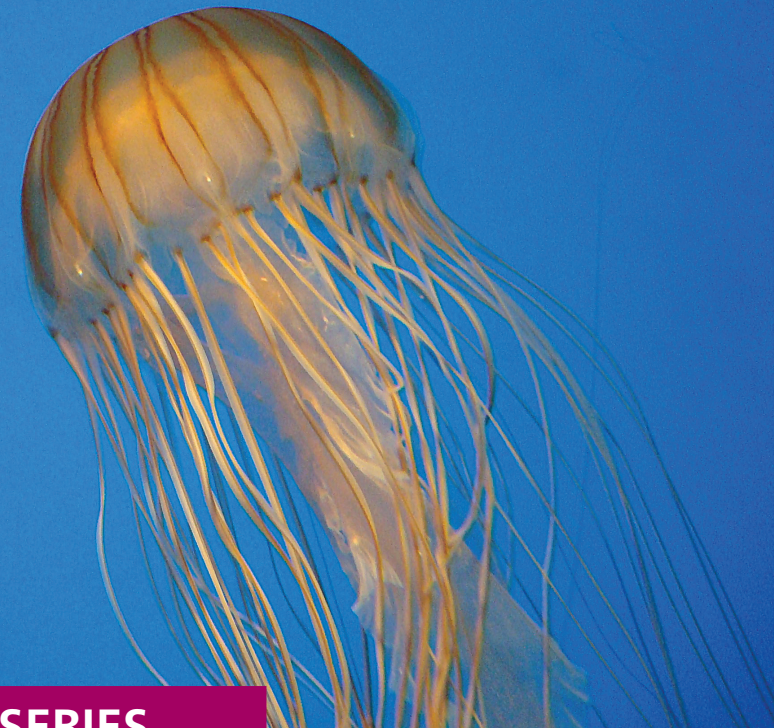
CRC Press titles are available as eBook editions in a range of digital formats



JavaScript for Data Science

Gans • Hodges • Wilson

CRC Press



DATA SCIENCE SERIES

# JavaScript for Data Science

Maya Gans  
Toby Hodges  
Greg Wilson

 **CRC Press**  
Taylor & Francis Group  
A CHAPMAN & HALL BOOK