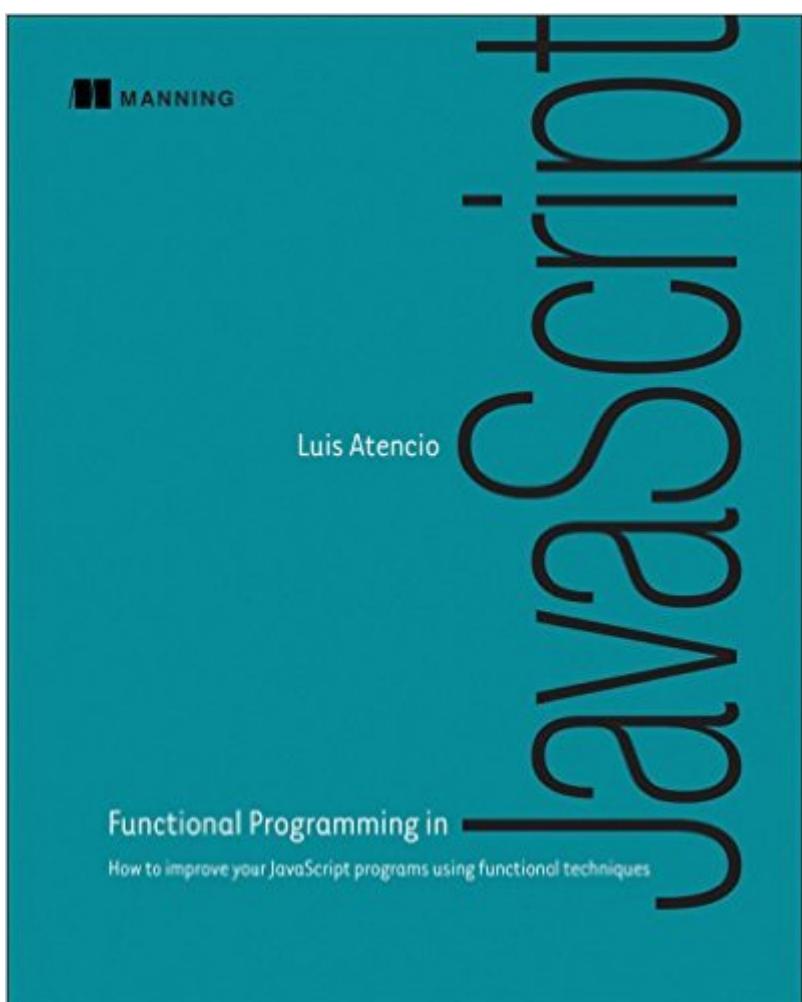


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Functional Programming In JavaScript: How To Improve Your JavaScript Programs Using Functional Techniques



Synopsis

Summary Functional Programming in JavaScript teaches JavaScript developers functional techniques that will improve extensibility, modularity, reusability, testability, and performance. Through concrete examples and jargon-free explanations, this book teaches you how to apply functional programming to real-life development tasks Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology In complex web applications, the low-level details of your JavaScript code can obscure the workings of the system as a whole. As a coding style, functional programming (FP) promotes loosely coupled relationships among the components of your application, making the big picture easier to design, communicate, and maintain. About the Book Functional Programming in JavaScript teaches you techniques to improve your web applications - their extensibility, modularity, reusability, and testability, as well as their performance. This easy-to-read book uses concrete examples and clear explanations to show you how to use functional programming in real life. If you're new to functional programming, you'll appreciate this guide's many insightful comparisons to imperative or object-oriented programming that help you understand functional design. By the end, you'll think about application design in a fresh new way, and you may even grow to appreciate monads!What's InsideHigh-value FP techniques for real-world usesUsing FP where it makes the most senseSeparating the logic of your system from implementation detailsFP-style error handling, testing, and debuggingAll code samples use JavaScript ES6 (ES 2015)About the ReaderWritten for developers with a solid grasp of JavaScript fundamentals and web application design. About the AuthorLuis Atencio is a software engineer and architect building enterprise applications in Java, PHP, and JavaScript. Table of ContentsPART 1 THINK FUNCTIONALLYBecoming functional Higher-order JavaScript PART 2 GET FUNCTIONALFew data structures, many operations Toward modular, reusable code Design patterns against complexityPART 3 ENHANCING YOUR FUNCTIONAL SKILLSBulletproofing your codeFunctional optimizations Managing asynchronous events and data

Book Information

Paperback: 272 pages

Publisher: Manning Publications; 1 edition (June 18, 2016)

Language: English

ISBN-10: 1617292826

ISBN-13: 978-1617292828

Product Dimensions: 7.4 x 0.5 x 9.1 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: 4.6 out of 5 stars See all reviews (12 customer reviews)

Best Sellers Rank: #104,019 in Books (See Top 100 in Books) #7 in Books > Computers & Technology > Programming > Functional #44 in Books > Textbooks > Computer Science > Object-Oriented Software Design #79 in Books > Computers & Technology > Programming > Web Programming > JavaScript

Customer Reviews

Luis Atencio does an excellent job of explaining how functional programming can be done in javascript as well as providing a compelling case for why you may want to adapt this style. He compares and contrasts with both imperative style and object-orientated code, and while he makes a case that FP is superior, he does so without coming across as insulting to those that like the imperative and OO styles (whereas many authors can feel like they consider those that follow other styles at best naive or even worse). The text covers a wide range of topics in functional programming including side-effect free functions, first-class functions and higher-order functions, partial application, currying, and Monads including functional techniques to avoid nulls and error-checking. He discusses the ways in which functional programs can be more declarative and easier to reason about as well as how functional programming can improve unit and coverage testing and asynchronous code. Atencio's writing style is clear. He presents many examples almost all of which are clear and highly focused on the point under discussion. Many examples even have imperative versions presented for comparison of the two different styles. The text does have a much higher reliance on external libraries than I would like to see, especially where there are native versions of the functions being discussed (for example the map, filter, and reduce array operations). However, many features discussed are not available in native javascript, and in many cases, he does show sample implementations of these features natively (although he does still encourage the library use). The text suffers from a number of typos and errors.

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