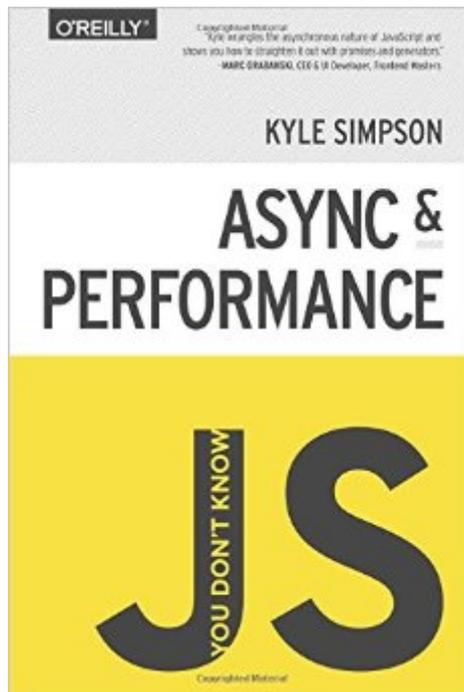# You Don't Know JS: Async & Performance

Synopsis

No matter how much experience you have with JavaScript, odds are you donâ ™t fully understand the language. As part of the "You Donâ ™t Know JS" series, this concise yet in-depth guide focuses on new asynchronous features and performance techniquesâ ”including Promises, generators, and Web Workersâ ”that let you create sophisticated single-page web applications and escape callback hell in the process.Like other books in this series, You Donâ ™t Know JS: Async & Performance dives into trickier parts of the language that many JavaScript programmers simply avoid. Armed with this knowledge, you can become a true JavaScript master.With this book you will:Explore old and new JavaScript methods for handling asynchronous programmingUnderstand how callbacks let third parties control your programâ ™s executionAddress the "inversion of control" issue with JavaScript PromisesUse generators to express async flow in a sequential, synchronous-looking fashionTackle program-level performance with Web Workers, SIMD, and asm.jsLearn valuable resources and techniques for benchmarking and tuning your expressions and statements

Book Information

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Customer Reviews

Look for more titles in the series   JavaScript is awesome. It's easy to learn partially, and much harder to learn completely (or even sufficiently). When developers encounter confusion, they usually blame the language instead of their lack of understanding. These books aim to fix that, inspiring a strong appreciation for the language you can now, and should, deeply know.   If at every

point that you encounter a surprise or frustration in JavaScript, your response is to add it to the blacklist, as some are accustomed to doing, you soon will be relegated to a hollow shell of the richness of JavaScript. This "You Don't Know JavaScript" book series offers a contrary challenge: learn and deeply understand 'all' of JavaScript, even and especially 'The Tough Parts'.

This penultimate edition of the You Don't Know JS series explores everything async: Promises and Generators, mainly. As usual, the content was deep and the examples challenging (in this edition especially so). This book is certainly not for the feint of heart; if you're not an advanced developer and you don't know about these topics, you might consider reading some simpler introductory material online before tackling this.The one negative was the editing; there were many places where a sharp editor could have really clarified and simplified matters. There were a number of places where I'd read a section two or three times, and basically say to myself, "so Kyle's saying X Y Z," and then three paragraphs later see him say almost verbatim, "X Y Z." On the one hand it's always nice seeing that you correctly interpreted something difficult, but on the other a more straightforward presentation would have helped. And many other areas would have similarly benefited from a tightening up of the language, and stating more clearly and up front what the lessons to follow were.But to be clear, the above criticism should not for a moment prevent a senior JS developer from tackling this book. It'll be well worth your time, and you'll no doubt learn a tremendous amount.

Kyle Simpson continues to impress with his in-depth study of JavaScript in this essential book series. This may be his best book yet for those who aspire to JavaScript mastery. Promises make JavaScript almost a new programming language, and if you read the book carefully and try the examples, you will come to appreciate why Promises are so important.The book tends to concentrate more on the why than the how, so before beginning, I suggest you spend some time experimenting with JavaScript asynchronous programming using the Node.js Async and Bluebird libraries. Once you are familiar with the raw mechanics of async programming, the bookâ Â â™s thorough treatment and rationale for the why of Promises will be easier to comprehend.JavaScript is arguably the most important programming language in the world, but it is not standing still, basking in its glory. JavaScript is continually reinventing itself, modernizing, and as developers we must trust in the wisdom behind the changes and embrace new language features. To do so properly requires guidance from experts, and there is currently no finer resource than this book series.

Excellent review of async programming in Javascript with a lot of focus on Promises and Generators. Both are important concepts that are only going to get more relevant.

I took the front end Masters course "rethinking async JavaScript"and also have this book. This book is a good reference and the content is very similar, depends on your learning style, I prefer videos.

amazing book. covers it all and makes a difficult subject much less difficult... great examples ... must read. I am a senior JavaScript developer now still able to pick up tips.. highly recommended!MUST HAVE!!!!!

I've only had a sneak peek of the content (it's 2 days since release) but holy moly this book brings a lot to the table. As the other books, this may pretty much nail your knowledge on the wall a couple of times. Definitely worth checking out!

seems great so far.informative, and easy to read.

Nice read, definitely a good read for JS developers.

You Don't Know JS: Async & Performance Don't Know Much About History, Anniversary Edition: Everything You Need to Know About American History but Never Learned (Don't Know Much About Series) The Life-Changing Magic of Not Giving a F*ck: How to Stop Spending Time You Don't Have with People You Don't Like Doing Things You Don't Want to Do You Don't Know Me but You Don't Like Me: Phish, Insane Clown Posse, and My Misadventures with Two of Music's Most Maligned Tribes The Cost of Ignorance: What You Don't Know About Performance-Based Insurance Can Save Your Company Millions The Chicken Whisperer's Guide to Keeping Chickens: Everything You Need to Know . . . and Didn't Know You Needed to Know About Backyard and Urban Chickens Don't Know Much About the Universe: Everything You Need to Know About the Cosmos Don't Know Much about the Universe: Everything You Need to Know about the Cosmos but Never Learned Real Food/Fake Food: Why You Don't Know What You're Eating and What You Can Do about It If You Don't Know Where You're Going You'll Probably End Up Somewhere Else The Driving Book: Everything New Drivers Need to Know but Don't Know to Ask The Complete Guide to Business School Presenting: What your professors don't tell you... What you absolutely must know Muscle Myths: 50 Health & Fitness Mistakes You Don't Know You're Making: Build Healthy Muscle

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