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You Don't Know JS: Scope Closures

No matter how much experience you have with JavaScript, odds are you don't fully understand the language. As part of the "You Don't Know JS" series, this compact guide focuses on new features available in ECMAScript 6 (ES6), the latest version of the standard upon which JavaScript is built. Like other books in this series, *You Don't Know JS: ES6 & Beyond* dives into trickier parts of the language that many JavaScript programmers either avoid or know nothing about. Armed with this knowledge, you

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can achieve true JavaScript mastery. With this book, you will:

- Learn new ES6 syntax that eases the pain points of common programming idioms
- Organize code with iterators, generators, modules, and classes
- Express async flow control with Promises combined with generators
- Use collections to work more efficiently with data in structured ways
- Leverage new API helpers, including Array, Object, Math, Number, and String
- Extend your program 's capabilities through meta programming
- Preview features likely coming to JS beyond ES6

Functional-Light JavaScript is a balanced, pragmatic

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exploration of Functional Programming in JavaScript. Functional Programming (FP) is an incredibly powerful paradigm for structuring code that yields more robust, verifiable, and readable programs. If you've ever tried to learn FP but struggled with terms like "monad", mathematical concepts like category theory, or symbols like (lambda), you're not alone. Functional-Light programming distills the most vital aspects of FP- function purity, value immutability, composition, and more!-down to approachable JavaScript patterns. Rather than the all-or-nothing dogmatism often

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encountered in FP, this book teaches you how to improve your programs line by line.

It ' s easy to learn parts of JavaScript, but much harder to learn it completely—or even sufficiently—whether you ' re new to the language or have used it for years. With the "You Don ' t Know JS" book series, you ' ll get a more complete understanding of JavaScript, including trickier parts of the language that many experienced JavaScript programmers simply avoid. The series ' first book, *Up & Going*, provides the necessary background for those of you with limited programming experience.

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By learning the basic building blocks of programming, as well as JavaScript's core mechanisms, you'll be prepared to dive into the other, more in-depth books in the series—and be well on your way toward true JavaScript. With this book you will: Learn the essential programming building blocks, including operators, types, variables, conditionals, loops, and functions Become familiar with JavaScript's core mechanisms such as values, function closures, this, and prototypes Get an overview of other books in the series—and learn why it's important to understand all parts of JavaScript

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Learn ES6 best practices for code optimization and organization and walk through practical, common examples of how to implement complete components of your applications. While this book covers the basic concepts of modern JavaScript, it primarily focuses on the new syntax, data-types, functionalities, and everything else that's new in ES6, the latest standard of JavaScript. You'll examine how to use ES6 in functional programming and explore the new more modular and object-oriented approach to JavaScript. This book will help you sharpen and upgrade your JavaScript language

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skills so you to easily explore modern ES6 based frameworks or libraries such as ReactJS, ReactNative, Angular4 and Vue.js. ES6 for Humans is a complete guide to writing ES6 and will enable you to start taking advantage of this exciting new version of JavaScript. What You'll Learn Use all the new features added to JavaScript Compare ES5 and ES6 in varied situations Refresh your core JavaScript fundamentals Understand the modular and object-oriented approach to JavaScript Who this Book Is For Any Javascript developer who wants to fully understand and dive into the new features of

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ES6/ES2015. Developers with some background in programming, preferably in JavaScript. A basic understanding of coding concepts and exposure to object-oriented programming is expected.

You Don't Know JS: Async and Performance

JavaScript

College Physics

You Don't Know JS: ES6 & Beyond

Your journey to master plain yet pragmatic React.js

Hands-On Functional Programming with TypeScript

Dispels the myth that JavaScript is a "baby" language and demonstrates why it is

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the scripting language of choice used in the design of millions of Web pages and server-side applications Quickly covers JavaScript basics and then moves on to more advanced topics such as object-oriented programming, XML, Web services, and remote scripting Addresses the many issues that Web application developers face, including internationalization, security, privacy, optimization, intellectual property issues, and obfuscation Builds on the reader's basic understanding of HTML, CSS, and the Web in

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general This book is also available as part of the 4-book JavaScript and Ajax Wrox Box (ISBN: 0470227818). This 4-book set includes: Professional JavaScript for Web Developers (ISBN: 0764579088) Professional Ajax 2nd edition (ISBN: 0470109491) Professional Web 2.0 Programming (ISBN: 0470087889) Professional Rich Internet Applications: Ajax and Beyond (ISBN: 0470082801) JavaScript was written to give readers an accurate, concise examination of JavaScript objects and their supporting

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nuances, such as complex values, primitive values, scope, inheritance, the head object, and more. If you're an intermediate JavaScript developer and want to solidify your understanding of the language, or if you've only used JavaScript beneath the mantle of libraries such as jQuery or Prototype, this is the book for you. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's

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core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business. JavaScript was written to give readers an accurate, concise examination of JavaScript objects and their supporting nuances, such as complex values, primitive

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values, scope, inheritance, the head object, and more. If you're an intermediate JavaScript developer and want to solidify your understanding of the language, or if you've only used JavaScript beneath the mantle of libraries such as jQuery or Prototype, this is the book for you. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style

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combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.

No matter how much experience you have with JavaScript, odds are you don't fully understand the language. This concise yet in-depth guide takes you inside scope and

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closures, two core concepts you need to know to become a more efficient and effective JavaScript programmer. You'll learn how and why they work, and how an understanding of closures can be a powerful part of your development skillset. Like other books in the "You Don't Know JS" series, Scope and Closures dives into trickier parts of the language that many JavaScript programmers simply avoid. Armed with this knowledge, you can achieve true JavaScript mastery. Learn about scope, a set of rules to help

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JavaScript engines locate variables in your code Go deeper into nested scope, a series of containers for variables and functions Explore function- and block-based scope, “hoisting”, and the patterns and benefits of scope-based hiding Discover how to use closures for synchronous and asynchronous tasks, including the creation of JavaScript libraries

Completely revised and updated, this best-selling introduction to programming in JavaScript focuses on writing real

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applications. JavaScript lies at the heart of almost every modern web application, from social apps like Twitter to browser-based game frameworks like Phaser and Babylon. Though simple for beginners to pick up and play with, JavaScript is a flexible, complex language that you can use to build full-scale applications. This much anticipated and thoroughly revised third edition of Eloquent JavaScript dives deep into the JavaScript language to show you how to write beautiful, effective code. It has been updated to reflect the

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current state of Java-Script and web browsers and includes brand-new material on features like class notation, arrow functions, iterators, async functions, template strings, and block scope. A host of new exercises have also been added to test your skills and keep you on track. As with previous editions, Haverbeke continues to teach through extensive examples and immerses you in code from the start, while exercises and full-chapter projects give you hands-on experience with writing your own programs. You start by

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learning the basic structure of the JavaScript language as well as control structures, functions, and data structures to help you write basic programs. Then you'll learn about error handling and bug fixing, modularity, and asynchronous programming before moving on to web browsers and how JavaScript is used to program them. As you build projects such as an artificial life simulation, a simple programming language, and a paint program, you'll learn how to:

- Understand the essential elements of programming,

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including syntax, control, and data - Organize and clarify your code with object-oriented and functional programming techniques - Script the browser and make basic web applications - Use the DOM effectively to interact with browsers - Harness Node.js to build servers and utilities Isn't it time you became fluent in the language of the Web? * All source code is available online in an interactive sandbox, where you can edit the code, run it, and see its output instantly.

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ES6 for Humans

The JavaScript Anthology

React Cookbook

You Don't Know JS Yet

JavaScript and HTML5 Now

HTML5 Cookbook

Are you looking for a better way to deeply learn the fundamentals of JavaScript? Look no further!The foundation of all programs is the organization of its variables and functions into different nested scopes. Yet, most developers haven't deeply contemplated how and why these decisions

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are made and the impacts on code maintainability. The worldwide best selling "You Don't Know JS" book series is back for a 2nd edition: "You Don't Know JS Yet". All 6 books are brand new, rewritten to cover all sides of JS for 2020 and beyond. "Scope & Closures" examines all aspects of lexical scope, then builds on these principles to leverage the power of closure, and finally digs into the module pattern for better program structure. React helps you create and work on an app in just a few minutes. But learning how to

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put all the pieces together is hard. How do you validate a form? Or implement a complex multistep user action without writing messy code? How do you test your code? Make it reusable? Wire it to a backend? Keep it easy to understand? The React Cookbook delivers answers fast. Many books teach you how to get started, understand the framework, or use a component library with React, but very few provide examples to help you solve particular problems. This easy-to-use cookbook includes the example code

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developers need to unravel the most common problems when using React, categorized by topic area and problem. You'll learn how to:

- Build a single-page application in React using a rich UI
- Create progressive web applications that users can install and work with offline
- Integrate with backend services such as REST and GraphQL
- Automatically test for accessibility problems in your application
- Secure applications with fingerprints and security tokens using WebAuthn
- Deal with bugs and avoid common functional and

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performance problems

Take advantage of JavaScript's power to build robust web-scale or enterprise applications that are easy to extend and maintain. By applying the design patterns outlined in this practical book, experienced JavaScript developers will learn how to write flexible and resilient code that's easier—yes, easier—to work with as your code base grows. JavaScript may be the most essential web programming language, but in the real world, JavaScript applications often break when

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you make changes. With this book, author Eric Elliott shows you how to add client- and server-side features to a large JavaScript application without negatively affecting the rest of your code. Examine the anatomy of a large-scale JavaScript application Build modern web apps with the capabilities of desktop applications Learn best practices for code organization, modularity, and reuse Separate your application into different layers of responsibility Build efficient, self-describing hypermedia APIs with Node.js

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Test, integrate, and deploy software updates in rapid cycles Control resource access with user authentication and authorization Expand your application's reach through internationalization "From library user to JavaScript developer"--Cover.

U.S. History

Programming JavaScript Applications

Programming TypeScript

Functional-Light JavaScript

A Modern Introduction to Programming

Speaking JavaScript

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Provides a variety of solutions for common JavaScript questions and problems.

SVG is extremely powerful, with its reduced HTTP requests and crispness on any display. It becomes increasingly more interesting as you explore its capabilities for responsive animation and performance boons. When you animate SVG, you must be aware of normal image traits like composition, color, implementation, and optimization. But

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when you animate, it increases the complexity of each of these factors exponentially. This practical book takes a deep dive into how you can to solve these problems with stability, performance, and creativity in mind. Learn how to make SVG cross-browser compatible, backwards compatible, optimized, and responsive Plan and debug animation Make a complex animation responsive, as many sites are responsive Profile each animation

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technique in terms of performance so that you know what you're getting in to with each library or native technology Douglas Crockford starts by looking at the fundamentals: names, numbers, booleans, characters, and bottom values. JavaScript's number type is shown to be faulty and limiting, but then Crockford shows how to repair those problems. He then moves on to data structures and functions, exploring the underlying mechanisms and

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then uses higher order functions to achieve class-free object oriented programming. The book also looks at eventual programming, testing, and purity, all the while looking at the requirements of The Next Language. Most of our languages are deeply rooted in the paradigm that produced FORTRAN. Crockford attacks those roots, liberating us to consider the next paradigm. He also presents a strawman language and develops a complete

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transpiler to implement it. The book is deep, dense, full of code, and has moments when it is intentionally funny. Functional programming is a very powerful programming paradigm that can help us to write better code. This book presents essential functional and reactive programming concepts in a simplified manner using Typescript. The Unknown History of the Anarchists, Utopians, and Technologists Who Created Cryptocurrency

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Get Started

Maintainable JavaScript

Eloquent JavaScript, 3rd Edition

You Don't Know JS: Types & Grammar

Making Your JavaScript Applications Scale

Any programmer working with a dynamically typed language will tell you how hard it is to scale to more lines of code and more engineers. That's why Facebook, Google, and Microsoft invented gradual static type layers for their dynamically typed JavaScript and Python code. This practical book shows you

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how one such type layer, TypeScript, is unique among them: it makes programming fun with its powerful static type system. If you're a programmer with intermediate JavaScript experience, author Boris Cherny will teach you how to master the TypeScript language. You'll understand how TypeScript can help you eliminate bugs in your code and enable you to scale your code across more engineers than you could before. In this book, you'll:

- Start with the basics: Learn about TypeScript's different types and type operators, including what they're for and how they're used
- Explore advanced topics:

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Understand TypeScript's sophisticated type system, including how to safely handle errors and build asynchronous programs Dive in hands-on: Use TypeScript with your favorite frontend and backend frameworks, migrate your existing JavaScript project to TypeScript, and run your TypeScript application in production

Published by OpenStax College, U.S. History covers the breadth of the chronological history of the United States and also provides the necessary depth to ensure the course is manageable for instructors and students alike. U.S. History is designed to

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meet the scope and sequence requirements of most courses. The authors introduce key forces and major developments that together form the American experience, with particular attention paid to considering issues of race, class and gender. The text provides a balanced approach to U.S. history, considering the people, events and ideas that have shaped the United States from both the top down (politics, economics, diplomacy) and bottom up (eyewitness accounts, lived experience).

Most programming languages contain good and bad parts, but JavaScript has more than its

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share of the bad, having been developed and released in a hurry before it could be refined. This authoritative book scrapes away these bad features to reveal a subset of JavaScript that's more reliable, readable, and maintainable than the language as a whole—a subset you can use to create truly extensible and efficient code. Considered the JavaScript expert by many people in the development community, author Douglas Crockford identifies the abundance of good ideas that make JavaScript an outstanding object-oriented programming language—ideas such as functions, loose typing, dynamic

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objects, and an expressive object literal notation. Unfortunately, these good ideas are mixed in with bad and downright awful ideas, like a programming model based on global variables. When Java applets failed, JavaScript became the language of the Web by default, making its popularity almost completely independent of its qualities as a programming language. In *JavaScript: The Good Parts*, Crockford finally digs through the steaming pile of good intentions and blunders to give you a detailed look at all the genuinely elegant parts of JavaScript, including: **Syntax Objects Functions**

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Inheritance Arrays Regular expressions
Methods Style Beautiful features The real beauty? As you move ahead with the subset of JavaScript that this book presents, you'll also sidestep the need to unlearn all the bad parts. Of course, if you want to find out more about the bad parts and how to use them badly, simply consult any other JavaScript book. With JavaScript: The Good Parts, you'll discover a beautiful, elegant, lightweight and highly expressive language that lets you create effective code, whether you're managing object libraries or just trying to get Ajax to run fast. If you develop sites or

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applications for the Web, this book is an absolute must.

Learn algorithms for solving classic computer science problems with this concise guide covering everything from fundamental algorithms, such as sorting and searching, to modern algorithms used in machine learning and cryptography

Key Features

Learn the techniques you need to know to design algorithms for solving complex problems

Become familiar with neural networks and deep learning techniques

Explore different types of algorithms and choose the right data structures for their optimal

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implementationBook Description Algorithms have always played an important role in both the science and practice of computing. Beyond traditional computing, the ability to use algorithms to solve real-world problems is an important skill that any developer or programmer must have. This book will help you not only to develop the skills to select and use an algorithm to solve real-world problems but also to understand how it works. You'll start with an introduction to algorithms and discover various algorithm design techniques, before exploring how to implement different types of algorithms, such as searching and

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sorting, with the help of practical examples. As you advance to a more complex set of algorithms, you'll learn about linear programming, page ranking, and graphs, and even work with machine learning algorithms, understanding the math and logic behind them. Further on, case studies such as weather prediction, tweet clustering, and movie recommendation engines will show you how to apply these algorithms optimally. Finally, you'll become well versed in techniques that enable parallel processing, giving you the ability to use these algorithms for compute-intensive tasks. By the end of this book,

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you'll have become adept at solving real-world computational problems by using a wide range of algorithms. What you will learnExplore existing data structures and algorithms found in Python librariesImplement graph algorithms for fraud detection using network analysisWork with machine learning algorithms to cluster similar tweets and process Twitter data in real timePredict the weather using supervised learning algorithmsUse neural networks for object detectionCreate a recommendation engine that suggests relevant movies to subscribersImplement foolproof security using

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symmetric and asymmetric encryption on Google Cloud Platform (GCP)Who this book is for This book is for programmers or developers who want to understand the use of algorithms for problem-solving and writing efficient code. Whether you are a beginner looking to learn the most commonly used algorithms in a clear and concise way or an experienced programmer looking to explore cutting-edge algorithms in data science, machine learning, and cryptography, you'll find this book useful. Although Python programming experience is a must, knowledge of data science will be helpful but not necessary.

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Eloquent JavaScript

Design and implement production-grade Node.js applications using proven patterns and techniques, 3rd Edition

JavaScript: The Definitive Guide

Professional JavaScript for Web Developers

Digital Cash

You Don't Know JS: Up & Going

If you've used a more traditional object-oriented language, such as C++ or Java, JavaScript probably doesn't seem object-oriented at all. It has no concept of classes, and you don't even need to define any objects in order to write code. But don't be fooled—JavaScript is an incredibly powerful and

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expressive object-oriented language that puts many design decisions right into your hands. In *The Principles of Object-Oriented JavaScript*, Nicholas C. Zakas thoroughly explores JavaScript's object-oriented nature, revealing the language's unique implementation of inheritance and other key characteristics. You'll learn:

- The difference between primitive and reference values
- What makes JavaScript functions so unique
- The various ways to create objects
- How to define your own constructors
- How to work with and understand prototypes
- Inheritance patterns for types and objects

The Principles of Object-Oriented JavaScript will leave even experienced developers with a deeper understanding of JavaScript. Unlock the secrets behind how

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objects work in JavaScript so you can write clearer, more flexible, and more efficient code.

Like it or not, JavaScript is everywhere these days—from browser to server to mobile—and now you, too, need to learn the language or dive deeper than you have. This concise book guides you into and through JavaScript, written by a veteran programmer who once found himself in the same position. Speaking JavaScript helps you approach the language with four standalone sections. First, a quick-start guide teaches you just enough of the language to help you be productive right away. More experienced JavaScript programmers will find a complete and easy-to-read reference that covers each language feature in depth. Complete

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contents include: JavaScript quick start: Familiar with object-oriented programming? This part helps you learn JavaScript quickly and properly. JavaScript in depth: Learn details of ECMAScript 5, from syntax, variables, functions, and object-oriented programming to regular expressions and JSON with lots of examples. Pick a topic and jump in.

Background: Understand JavaScript's history and its relationship with other programming languages. Tips, tools, and libraries: Survey existing style guides, best practices, advanced techniques, module systems, package managers, build tools, and learning resources.

This book makes JavaScript less challenging to learn for newcomers, by offering a modern view that is as consistent

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as possible. Highlights: Get started quickly, by initially focusing on modern features. Test-driven exercises and quizzes available for most chapters (sold separately). Cover all essential features of JavaScript, up to and including ES2019. Optional advanced sections let you dig deeper. No prior knowledge of JavaScript is required, but you should know how to program.

LAST UPDATE: 28. September 2022 If you are looking for a comprehensive and pragmatic yet concise and up-to-date React.js feat. Hooks book, the Road to React is for you. What you will learn. In "The Road to React" you will learn about all the fundamentals of React.js with Hooks while building a full-blown React application step by step. While you create

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the React application, every chapter will introduce you to a new React key feature. However, there is more than only the fundamentals: The book dives into related topics (e.g. React with TypeScript, Testing, Performance Optimizations) and advanced feature implementations like client- and server-side searching. At the end of the book, you will have a fully working deployed React application. Is it up to date? Programming books are usually outdated soon after their release, but since this book is self-published, I can update as needed whenever a new version of something related to this book gets released. I am a beginner. Is this book for me? Yes. The book starts from zero and takes you through the learning experience step by step. Every chapter builds up on

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the learnings from the previous chapter. In addition, at the end of every chapter, exercises fortify your lessons learned. If you got stuck in a chapter, you will always find a reference URL to the status quo of the actual code.

Core Concepts
Pragmatic: Master React while building a complete application step by step.
Problems Solving: You need to experience a problem first before solving it.
The Why: Readers like how the book answers the Why, not only the How.

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Handler Function

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React CSS Modules in React Styled Components in React SVGs in React React Maintenance Performance in React (Advanced) TypeScript in React Unit Testing to Integration Testing React Project Structure Real World React (Advanced) Sorting Reverse Sort Remember Last Searches Paginated Fetch Deploying a React Application Build Process Deploy to Firebase
You Don't Know Js
An In-Depth Guide for Programmers
40 Algorithms Every Programmer Should Know
Solutions & Examples for HTML5 Developers
From Common UX Implementations to Complex Responsive Animation

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JavaScript for Impatient Programmers

With scores of practical recipes you can use in your projects right away, this cookbook helps you gain hands-on experience with HTML5's versatile collection of elements. You get clear solutions for handling issues with everything from markup semantics, web forms, and audio and video elements to related technologies such as geolocation and rich JavaScript APIs. Each informative recipe includes sample code and a detailed discussion on why and how the solution works. Perfect for intermediate to advanced web and mobile web developers, this handy book lets you choose the HTML5 features that work for you—and helps you experiment with the rest. Test

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browsers for HTML5 support, and use techniques for applying unsupported features Discover how HTML5 makes web form implementation much simpler Overcome challenges for implementing native audio and video elements Learn techniques for using HTML5 with ARIA accessibility guidelines Explore examples that cover using geolocation data in your applications Draw images, use transparencies, add gradients and patterns, and more with Canvas Bring HTML5 features to life with a variety of advanced JavaScript APIs

No matter how much experience you have with JavaScript, odds are you don't fully understand the language. As part of the "You Don't Know JS" series,

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this compact guide explores JavaScript types in greater depth than previous treatments by looking at type coercion problems, demonstrating why types work, and showing you how to take advantage of these features. Like other books in this series, You Don't Know JS: Types & Grammar dives into trickier parts of the language that many JavaScript programmers simply avoid or assume don't exist (like types). Armed with this knowledge, you can achieve true JavaScript mastery. With this book you will: Get acquainted with JavaScript's seven types: null, undefined, boolean, number, string, object, and symbol Understand why JavaScript's unique array, string, and number characteristics may delight or

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confound you Learn how natives provide object wrappers around primitive values Dive into the coercion controversy—and learn why this feature is useful in many cases Explore various nuances in JavaScript syntax, involving statements, expressions, and other features

No matter how much experience you have with JavaScript, odds are you don't fully understand the language. This concise, in-depth guide takes you inside JavaScript's this structure and object prototypes. You'll learn how they work and why they're integral to behavior delegation—a design pattern in which objects are linked, rather than cloned. Like other books in the “You Don't Know JS”

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series, this and Object Prototypes 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 how the this binding points to objects based on how the function is called Look into the nature of JS objects and why you'd need to point to them Learn how developers use the mixin pattern to fake classes in JS Examine how JS's prototype mechanism forms links between objects Learn how to move from class/inheritance design to behavior delegation Understand how the OLOO (objects-linked-to-other-objects) coding style naturally implements behavior delegation

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The fascinating untold story of digital cash and its creators—from experiments in the 1970s to the mania over Bitcoin and other cryptocurrencies Bitcoin may appear to be a revolutionary form of digital cash without precedent or prehistory. In fact, it is only the best-known recent experiment in a long line of similar efforts going back to the 1970s. But the story behind cryptocurrencies like Bitcoin and its blockchain technology has largely been untold—until now. In Digital Cash, Finn Brunton reveals how technological utopians and political radicals created experimental money to bring about their visions of the future: to protect privacy, bring down governments, prepare for apocalypse, or launch a

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civilization of innovation and abundance that would make its creators immortal. Filled with marvelous characters, stories, and ideas, Digital Cash is an engaging and accessible account of the strange origins and remarkable technologies behind today's cryptocurrency explosion.

You Don't Know JS: Scope & Closures

Node.js Design Patterns

Effective JavaScript

Hone your problem-solving skills by learning different algorithms and their implementation in Python

101 Essential Tips, Tricks & Hacks

Mastering Sass

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Create interactive and responsive cross-browser apps with SASS and Compass
About This Book Create data-intensive, highly scalable apps using Sass and COMPASS Master the concepts of Sass and COMPASS and unleash your potential to develop enterprise-grade apps This book is an experts' guide on leveraging Sass and COMPASS features Who This Book Is For This book is aimed at those who know CSS3 and HTML5 quite well and who've built a few small-to-medium-

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sized websites from scratch using Sass and Compass. What You Will Learn Master Sass and Compass features Familiarize yourself with CSS and HTML concepts that are vital for a good Sass workflow. Build real-world websites focusing on layouts and content aspects Work on a grid system using Compass and Susy Automate your workflow with Gulp Write functions and mixins to leverage the control flow In Detail CSS and Sass add elegance and excellence to the

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basic language, and consist of a CSS-compatible syntax that allows you to use variables, nested rules, mixins, inline imports, and much more. This book will start with an overview of the features in Sass and Compass, most of which you'll already be familiar; however, this will ensure you know what's expected as the book goes deeper into Sass and Compass. Next you will learn CSS and HTML concepts that are vital to a good Sass workflow. After

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all, Sass exists to simplify writing CSS, but it won't teach you how to make clean, scalable, reusable CSS. For that, you need to understand some basic concepts of OOCSS, SMACCS, and Atomic Design. Once you've brushed up on the important concepts, it's time to write some Sass. Mainly you'll write a few functions and mixins that really leverage control flow using @if / @else loops and you'll learn how to figure out when and why things are going wrong

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before they bring you to a stop. Moving further, you'll learn how to use @debug, @warn and @error to properly handle errors. You'll also learn about Gulp and how to use it to automate your workflow and reduce your repetitive tasks. And finally you'll learn about sourcemaps. With sourcemaps, you'll be able to write, debug, and view your Sass and Compass all from within the browser. It'll even LiveReload too! As a bonus, you'll take a look at that

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funky Flexbox, currently all the rage! You'll learn how powerful and flexible it really is, and how you can use it with Compass. Best of all, it falls back very gracefully indeed! In fact, you'll be able to apply it to any existing project without having to change a line of the original CSS. Style and approach This book will provide readers with practical, actionable expertise to enhance their knowledge

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JavaScript is at the heart of almost every modern Web application, whether it's Google Apps, Twitter, or the newest browser-based game. Though it's simple for beginners to pick up and play with, JavaScript is not a toy—it's a flexible and complex language that can be used to build full-scale applications. Eloquent JavaScript dives into this flourishing language and teaches you to write code that's beautiful and effective. By immersing

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you in example code and encouraging experimentation right from the start, the author quickly gives you the tools you need to build your own programs. As you follow along with examples like an artificial life simulation and a version of the classic game Sokoban, you'll learn to:

- Understand the essential elements of programming: syntax, control, and data*
- Use object-oriented and functional programming techniques to organize and clarify your*

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programs -Script the browser and make basic Web applications -Work with tools like regular expressions and XMLHttpRequest objects And since programming is an art that's best learned by doing, all example code is available online in an interactive sandbox for you to experiment with. With Eloquent JavaScript as your guide, you can tweak, expand, and modify the author's code, or throw it away and build your own creations from scratch.

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Before you know it, you'll be fluent in the language of the Web.

You Don't Know JS: Scope & Closures "O'Reilly Media, Inc."

Learn proven patterns, techniques, and tricks to take full advantage of the Node.js platform. Master well-known design principles to create applications that are readable, extensible, and that can grow big. Key Features Learn how to create solid server-side applications by leveraging

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the full power of Node.js 14 Understand how Node.js works and learn how to take full advantage of its core components as well as the solutions offered by its ecosystem Avoid common mistakes and use proven patterns to create production grade Node.js applications Book Description In this book, we will show you how to implement a series of best practices and design patterns to help you create efficient and robust Node.js applications with ease. We kick off by

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exploring the basics of Node.js, analyzing its asynchronous event driven architecture and its fundamental design patterns. We then show you how to build asynchronous control flow patterns with callbacks, promises and async/await. Next, we dive into Node.js streams, unveiling their power and showing you how to use them at their full capacity. Following streams is an analysis of different creational, structural, and behavioral design patterns that take

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full advantage of JavaScript and Node.js. Lastly, the book dives into more advanced concepts such as Universal JavaScript, scalability and messaging patterns to help you build enterprise-grade distributed applications. Throughout the book, you'll see Node.js in action with the help of several real-life examples leveraging technologies such as LevelDB, Redis, RabbitMQ, ZeroMQ, and many others. They will be used to

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demonstrate a pattern or technique, but they will also give you a great introduction to the Node.js ecosystem and its set of solutions. What you will learn
Become comfortable with writing asynchronous code by leveraging callbacks, promises, and the async/await syntax
Leverage Node.js streams to create data-driven asynchronous processing pipelines
Implement well-known software design patterns to create production

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grade applications Share code between Node.js and the browser and take advantage of full-stack JavaScript Build and scale microservices and distributed systems powered by Node.js Use Node.js in conjunction with other powerful technologies such as Redis, RabbitMQ, ZeroMQ, and LevelDB Who this book is for This book is for developers and software architects who have some prior basic knowledge of JavaScript and Node.js and now want to get the most

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out of these technologies in terms of productivity, design quality, and scalability. Software professionals with intermediate experience in Node.js and JavaScript will also find valuable the more advanced patterns and techniques presented in this book. This book assumes that you have an intermediate understanding of web application development, databases, and software design principles.

The Road to React

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*Balanced, Pragmatic FP in JavaScript
You Don't Know JS: This and Object
Prototypes*

*Explore functional and reactive
programming to create robust and
testable TypeScript applications
Scope & Closures*

JavaScript: The Good Parts

No matter how much experience you have with JavaScript, odds are you don't fully understand the language. As part of the "You Don't Know JS" series, this

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concise yet in-depth guide focuses on new asynchronous features and performance techniques—including Promises, generators, and Web Workers—that let you create sophisticated single-page web applications and escape callback hell in the process. Like other books in this series, You Don't Know JS: Async & Performance dives into trickier parts of the language that many JavaScript programmers simply avoid. Armed with

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this knowledge, you can become a true JavaScript master. With this book you will: Explore old and new JavaScript methods for handling asynchronous programming Understand how callbacks let third parties control your program's execution Address the "inversion of control" issue with JavaScript Promises Use generators to express async flow in a sequential, synchronous-looking fashion Tackle program-level performance with Web Workers, SIMD,

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and asm.js Learn valuable resources and techniques for benchmarking and tuning your expressions and statements
A guide for experienced programmers demonstrates the core JavaScript language, offers examples of common tasks, and contains an extensive reference to JavaScript commands, objects, methods, and properties.
For web developers and other programmers interested in using JavaScript, this bestselling book provides

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the most comprehensive JavaScript material on the market. The seventh edition represents a significant update, with new information for ECMAScript 2020, and new chapters on language-specific features. JavaScript: The Definitive Guide is ideal for experienced programmers who want to learn the programming language of the web, and for current JavaScript programmers who want to master it. Provides information on how to write

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better JavaScript programs, covering such topics as functions, arrays, library and API design, and concurrency. The Latest Standard of JavaScript: ES2015 and Beyond

***68 Specific Ways to Harness the Power of JavaScript
Master the World's Most-Used Programming Language
JavaScript Enlightenment
The Principles of Object-Oriented***

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JavaScript

It seems like there's never been as much widespread desire before to learn JS. But with a million blogs, books, and videos out there, just where do you start?The worldwide best selling "You Don't Know JS" book series is back for a 2nd edition: "You Don't Know JS Yet". All 6 books are brand new, rewritten to cover all sides of JS for 2020 and beyond."Get Started" prepares you for the journey ahead, first surveying the language then detailing how the rest of the You Don't Know JS Yet book series guides you to knowing JS more deeply.

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A decade ago, Ajax took the Web out of childhood, and now HTML5 and JavaScript are moving the Web into full adulthood. This insightful overview provides striking examples of how these technologies have teamed up to give the Web a truly open platform. Author Kyle Simpson (HTML5 Cookbook) shows you how JavaScript unlocks the power of all of the new functionality in HTML5, giving web applications the capabilities developers have wanted for years. These technologies now provide the raw tools you need in the presentation layer to replace everything you used to do with Flash.

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You'll discover how: HTML5 builds natively into the web platform things we find most commonly useful, such as audio, video, and drawing The Canvas element is changing graphic animations, games, audio visualization, charting, and video effects Geolocation has spawned "geofencing" and augmented reality Web Workers allows calculations to be performed in the background, rather than compete with the UI Web Sockets is enabling realtime communication for chat, live tech support, multi-user collaboration, and gaming Mobile device APIs will give web apps direct access

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the phone's camera, vibration, and other capabilities

An introduction to writing code with JavaScript covers such topics as style guidelines, programming practices, and automation.

The Good Parts

How JavaScript Works

SVG Animations

The Definitive Guide

Robust Web Architecture with Node, HTML5, and Modern JS Libraries