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Douglas Crockford

Javascript The Good Parts

Douglas Crockford

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

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when 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 Test, integrate, and deploy software updates in rapid cycles Control resource access with user authentication and authorization Expand your

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application's reach through internationalization
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 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

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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 objects work in JavaScript so you can write clearer, more flexible, and more efficient code. An introduction to writing code with JavaScript covers such topics as style guidelines, programming

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practices, and automation.

With *Learning JavaScript Design Patterns*, you'll learn how to write beautiful, structured, and maintainable JavaScript by applying classical and modern design patterns to the language. If you want to keep your code efficient, more manageable, and up-to-date with the latest best practices, this book is for you. Explore many popular design patterns, including Modules, Observers, Facades, and Mediators. Learn how modern architectural patterns—such as MVC, MVP, and MVVM—are useful from the perspective of a modern web application developer. This book also walks experienced

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JavaScript developers through modern module formats, how to namespace code effectively, and other essential topics. Learn the structure of design patterns and how they are written Understand different pattern categories, including creational, structural, and behavioral Walk through more than 20 classical and modern design patterns in JavaScript Use several options for writing modular code—including the Module pattern, Asynchronous Module Definition (AMD), and CommonJS Discover design patterns implemented in the jQuery library Learn popular design patterns for writing maintainable jQuery plug-ins "This book should be

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in every JavaScript developer's hands. It's the go-to book on JavaScript patterns that will be read and referenced many times in the future."—Andrée Hansson, Lead Front-End Developer, presis!

A Playful Introduction to Programming

Perl Testing

Eloquent JavaScript

Reflections on the Craft of Programming

The Big Nerd Ranch Guide

Objective-C Programming

Provides information on how to write better JavaScript programs, covering such topics as functions, arrays, library and API design,

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and concurrency.

Looks at the Perl test tools and offers a series of exercises that cover such topics as bundling test suites, testing databases, and testing Web sites and projects.

JavaScript was written to give readers an accurate, concise examination of JavaScript objects and their supporting 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

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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 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.

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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. By learning the basic building blocks of programming, as well as JavaScript's core mechanisms, you'll be

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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

Delivering the Best of PHP

A Modern Introduction to Programming

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*You Don't Know JS: this & Object Prototypes
Simplifying JavaScript*

*The Principles of Object-Oriented JavaScript
JavaScript Object Programming*

More than ever, the web is a universal platform for all types of applications, and JavaScript is the language of the web. For anyone serious about web development, it's not enough to be a decent JavaScript coder. They need to be ninja-stealthy, efficient, and ready for anything. *Secrets of the JavaScript Ninja, Second Edition* dives below the surface and helps readers understand the deceptively-complex world of JavaScript and browser-based application

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development. It skips the basics, and dives into core JavaScript concepts such as functions, closures, objects, prototypes, promises, and so on. With examples, illustrations, and insightful explanations, readers will benefit from the collective wisdom of seasoned experts John Resig, Bear Bibeault, and Josip Maras. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Want to write iOS apps or desktop Mac applications? This introduction to programming and the Objective-C language is your first step on the journey from someone who uses apps to someone who writes them.

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Based on Big Nerd Ranch's popular Objective-C Bootcamp, Objective-C Programming: The Big Nerd Ranch Guide covers C, Objective-C, and the common programming idioms that enable developers to make the most of Apple technologies. Compatible with Xcode 5, iOS 7, and OS X Mavericks (10.9), this guide features short chapters and an engaging style to keep you motivated and moving forward. At the same time, it encourages you to think critically as a programmer. Here are some of the topics covered: Using Xcode, Apple's documentation, and other tools Programming basics: variables, loops, functions, etc. Objects, classes, methods, and messages Pointers, addresses,

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and memory management with ARC Properties and Key-Value Coding (KVC) Class extensions Categories Classes from the Foundation framework Blocks Delegation, target-action, and notification design patterns Key-Value Observing (KVO) Runtime basics

The best modern JavaScript is simple, readable, and predictable. Learn to write modern JavaScript not by memorizing a list of new syntax, but with practical examples of how syntax changes can make code more expressive. Starting from variable declarations that communicate intention clearly, see how modern principles can improve all parts of code. Incorporate ideas with curried functions, array methods, classes,

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and more to create code that does more with less while yielding fewer bugs. It's time to write JavaScript code that's clean and expressive. Modern JavaScript is simpler and more predictable and readable than ever. Discover how to write better code with clear examples using principles that show how updated syntax can make code better with fewer bugs. Starting from the ground up, learn new syntax (or how to reuse older syntax) to transform code from clunky bug-susceptible scripts to clear and elegant programs that are easy to read and easy to extend. Create a foundation for readable code with simple variable declarations that reduce side effects and subtle bugs. Select collections

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with clear goals instead of defaulting to objects or arrays. See how to simplify iterations from complex loops to single line array methods. Master techniques for writing flexible and solid code ranging from high-order functions, to reusable classes, to patterns for architecting large applications creating applications that will last while through rounds of refactoring and changing requirements. The best part is there's no need to read this book straight through. Jump around and incorporate new functionality at will. Most importantly, understand not just what the new syntax is, but when and how to use it. Start writing better code from the first page. What You Need: For the best

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experience, have the latest version of Node installed (at least version 7). You can test most examples in the console of Chrome or other modern web browser. If you'd like to run the tests, you'll also need to install the latest version of Node Package Manager (npm). 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” series, this and Object Prototypes

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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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Head First JavaScript

A JavaScript and jQuery Developer's Guide

The Good Parts Master Class with Douglas Crockford

You Don't Know JS: Up & Going

JavaScript: The Good Parts

Perl One-Liners

JavaScript is the programming language of the Internet, the secret sauce that makes the Web awesome, your favorite sites interactive, and online games fun! JavaScript for Kids is a lighthearted introduction that teaches programming essentials through patient, step-by-step examples paired with funny illustrations. You'll begin with the basics, like working with strings, arrays, and loops, and then move on to more advanced

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topics, like building interactivity with jQuery and drawing graphics with Canvas. Along the way, you'll write games such as Find the Buried Treasure, Hangman, and Snake. You'll also learn how to:

- Create functions to organize and reuse your code
- Write and modify HTML to create dynamic web pages
- Use the DOM and jQuery to make your web pages react to user input
- Use the Canvas element to draw and animate graphics
- Program real user-controlled games with collision detection and score keeping

With visual examples like bouncing balls, animated bees, and racing cars, you can really see what you're programming. Each chapter builds on the last, and programming challenges at the end of each chapter will stretch your brain and inspire your own amazing programs.

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Make something cool with JavaScript today! Ages 10+ (and their parents!)

You will first be introduced to object-oriented programming, then to the basics of objects in JavaScript. This book takes a do-it-yourself approach when it comes to writing code, because the best way to really learn a programming language is by writing code. You are encouraged to type code into Firebug's console, see how it works and then tweak it and play around with it. There are practice questions at the end of each chapter to help you review what you have learned. For new to intermediate JavaScript developer who wants to prepare themselves for web development problems solved by smart JavaSc.

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Create scalable, reusable high-quality JavaScript applications and libraries

What if you could condense Java down to its very best features and build better applications with that simpler version? In this book, veteran Sun Labs engineer Jim Waldo reveals which parts of Java are most useful, and why those features make Java among the best programming languages available. Every language eventually builds up crud, Java included. The core language has become increasingly large and complex, and the libraries associated with it have grown even more. Learn how to take advantage of Java's best features by working with an example application throughout the book. You may not like some of the features Jim Waldo considers good, but they'll

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actually help you write better code. Learn how the type system and packages help you build large-scale software Use exceptions to make code more reliable and easier to maintain Manage memory automatically with garbage collection Discover how the JVM provides portability, security, and nearly bug-free code Use Javadoc to embed documentation within the code Take advantage of reusable data structures in the collections library Use Java RMI to move code and data in a distributed network Learn how Java concurrency constructs let you exploit multicore processors.

Maintainable JavaScript

Making Your JavaScript Applications Scale

Head First JavaScript Programming

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Beautiful Code

Java

JavaScript

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 then uses higher order functions to achieve class-free object oriented programming. The book also looks at eventual programming, testing, and

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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 transpiler to implement it. The book is deep, dense, full of code, and has moments when it is intentionally funny.

Summary Node.js in Action, Second Edition is a thoroughly revised book based on the best-selling first edition. It starts at square one and guides you through all the features, techniques, and concepts you'll need to build

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production-quality Node applications. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology You already know JavaScript. The trick to mastering Node.js is learning how to build applications that fully exploit its powerful asynchronous event handling and non-blocking I/O features. The Node server radically simplifies event-driven real-time apps like chat, games, and live data analytics, and with its incredibly rich ecosystem of modules, tools, and libraries, it's hard to beat! About the Book Based on the bestselling first edition, Node.js in Action, Second Edition is a completely

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new book. Packed with practical examples, it teaches you how to create high-performance web servers using JavaScript and Node. You'll master key design concepts such as asynchronous programming, state management, and event-driven programming. And you'll learn to put together MVC servers using Express and Connect, design web APIs, and set up the perfect production environment to build, lint, and test. What's Inside Mastering non-blocking I/O The Node event loop Testing and deploying Web application templating About the Reader Written for web developers with intermediate JavaScript skills. About the Authors The Second Edition author team

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includes Node masters Alex Young, Bradley Meck, Mike Cantelon, and Tim Oxley, along with original authors Marc Harter, T.J. Holowaychuk, and Nathan Rajlich.

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Welcome to Node.js Node programming fundamentals

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Server-side frameworks Connect and Express in depth

Web application templating Storing application data

Testing Node applications Deploying Node applications

and maintaining uptime PART 3 - BEYOND WEB

DEVELOPMENT Writing command-line applications

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Conquering the desktop with Electron

A revised and updated edition offers comprehensive coverage of ECMAScript 5 (the new JavaScript language standard) and also the new APIs introduced in HTML5, with chapters on functions and classes completely rewritten and updated to match current best practices and a new chapter on language extensions and subsets.

Original.

What will you learn from this book? This brain-friendly guide teaches you everything from JavaScript language fundamentals to advanced topics, including objects, functions, and the browser's document object model. You

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won't just be reading—you'll be playing games, solving puzzles, pondering mysteries, and interacting with JavaScript in ways you never imagined. And you'll write real code, lots of it, so you can start building your own web applications. Prepare to open your mind as you learn (and nail) key topics including: The inner details of JavaScript How JavaScript works with the browser The secrets of JavaScript types Using arrays The power of functions How to work with objects Making use of prototypes Understanding closures Writing and testing applications What's so special about this book? We think your time is too valuable to waste struggling with new

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concepts. Using the latest research in cognitive science and learning theory to craft a multi-sensory learning experience, Head First JavaScript Programming uses a visually rich format designed for the way your brain works, not a text-heavy approach that puts you to sleep. This book replaces Head First JavaScript, which is now out of print.

JavaScript Patterns

*Build Better Applications with Coding and Design
Patterns*

Javascript

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JavaScript & jQuery: The Missing Manual ***130 Programs That Get Things Done***

So you're ready to make the leap from writing HTML and CSS web pages to creating dynamic web applications. You want to take your web skills to the next level. And you're finally ready to add "programmer" to the resume. It sounds like you're ready to learn the Web's hottest programming language: JavaScript. Head First JavaScript is your ticket to going beyond copying and pasting the code from someone

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else's web site, and writing your own interactive web pages. With Head First JavaScript, you learn: The basics of programming, from variables to types to looping How the web browser runs your code, and how you can talk to the browser with your code Why you'll never have to worry about casting, overloading, or polymorphism when you're writing JavaScript code How to use the Document Object Model to change your web pages without making your users click buttons If you've ever read a Head First book, you

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know what to expect -- a visually rich format designed for the way your brain works. Head First JavaScript is no exception. It starts where HTML and CSS leave off, and takes you through your first program into more complex programming concepts -- like working directly with the web browser's object model and writing code that works on all modern browsers. Don't be intimidated if you've never written a line of code before! In typical Head First style, Head First JavaScript doesn't skip steps, and

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we're not interested in having you cut and paste code. You'll learn JavaScript, understand it, and have a blast along the way. So get ready... dynamic and exciting web pages are just pages away.

Javascript incorporates some of the best and worst ideas in programming languages. In this segment, Doug Crockford introduces the Javascript programming language, covering all of the core language features, including numbers, strings, operators, arrays, objects, and functions, pointing out the good, the bad, and the

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ugly features of the language as he goes. You'll learn about some common Javascript patterns, why lambda is cool, why you should never, ever use eval, and why you should always declare everything.

JavaScript lets you supercharge your HTML with animation, interactivity, and visual effects—but many web designers find the language hard to learn. This easy-to-read guide not only covers JavaScript basics, but also shows you how to save time and effort with the jQuery and jQuery UI libraries of prewritten JavaScript code.

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You'll build web pages that feel and act like desktop programs—with little or no programming. The important stuff you need to know: Pull back the curtain on JavaScript. Learn how to build a basic program with this language. Get up to speed on jQuery. Quickly assemble JavaScript programs that work well on multiple web browsers. Transform your user interface. Learn jQuery UI, the JavaScript library for interface features like design themes and controls. Make your pages interactive. Create JavaScript events that

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react to visitor actions. Use animations and effects. Build drop-down navigation menus, pop-ups, automated slideshows, and more. Collect data with web forms. Create easy-to-use forms that ensure more accurate visitor responses. Practice with living examples. Get step-by-step tutorials for web projects you can build yourself.

How do the experts solve difficult problems in software development? In this unique and insightful book, leading computer scientists offer case studies

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that reveal how they found unusual, carefully designed solutions to high-profile projects. You will be able to look over the shoulder of major coding and design experts to see problems through their eyes. This is not simply another design patterns book, or another software engineering treatise on the right and wrong way to do things. The authors think aloud as they work through their project's architecture, the tradeoffs made in its construction, and when it was important to break rules. This book contains 33

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chapters contributed by Brian Kernighan, KarlFogel, Jon Bentley, Tim Bray, Elliotte Rusty Harold, Michael Feathers,Alberto Savoia, Charles Petzold, Douglas Crockford, Henry S. Warren,Jr., Ashish Gulhati, Lincoln Stein, Jim Kent, Jack Dongarra and PiotrLuszczek, Adam Kolawa, Greg Kroah-Hartman, Diomidis Spinellis, AndrewKuchling, Travis E. Oliphant, Ronald Mak, Rogerio Atem de Carvalho andRafael Monnerat, Bryan Cantrill, Jeff Dean and Sanjay Ghemawat, SimonPeyton Jones, Kent Dybvig, William Otte and Douglas C.

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Schmidt, Andrew Patzer, Andreas Zeller,
Yukihiro Matsumoto, Arun Mehta, TV
Raman, Laura Wingerd and Christopher
Seiwald, and Brian Hayes. Beautiful Code
is an opportunity for master coders to
tell their story. All author royalties
will be donated to Amnesty International.

Leading Programmers Explain How They Think
Programming JavaScript Applications

jQuery Cookbook

Writing Modern JavaScript with ES5, ES6,
and Beyond

Practical Modern JavaScript

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The Good Parts

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

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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 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

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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 Inheritance

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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

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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 applications for the Web, this book is an absolute must. jQuery simplifies building rich, interactive web frontends. Getting started with this JavaScript library is easy, but it can take years to fully realize its breadth and depth; this cookbook shortens the learning curve

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considerably. With these recipes, you'll learn patterns and practices from 19 leading developers who use jQuery for everything from integrating simple components into websites and applications to developing complex, high-performance user interfaces. Ideal for newcomers and JavaScript veterans alike, jQuery Cookbook starts with the basics and then moves to practical use cases with tested solutions to common web development hurdles. You also get

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recipes on advanced topics, such as methods for applying jQuery to large projects. Solve problems involving events, effects, dimensions, forms, themes, and user interface elements Learn how to enhance your forms, and how to position and reposition elements on a page Make the most of jQuery's event management system, including custom events and custom event data Create UI elements—such as tabs, accordions, and modals—from scratch

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Optimize your code to eliminate
bottlenecks and ensure peak performance
Learn how to test your jQuery
applications The book's contributors
include: Cody Lindley James Padolsey
Ralph Whitbeck Jonathan Sharp Michael
Geary and Scott González Rebecca
Murphey Remy Sharp Ariel Flesler Brian
Cherne Jörn Zaefferer Mike Hostetler
Nathan Smith Richard D. Worth Maggie
Wachs, Scott Jehl, Todd Parker, and
Patty Toland Rob Burns

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The JavaScript Programming Language provides a brief introduction to the JavaScript language that is now an important component of every programmers tool box. It offers an overview of JavaScript to students interested in pursuing advanced programming skills. Clear and Concise, The JavaScript Programming Language is an excellent primer to this popular dynamic language and is ideal for use on its own or when coupled with one of

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Jones and Bartlett's outstanding introductory computer science texts. To get the most out of modern JavaScript, you need learn the latest features of its parent specification, ECMAScript 6 (ES6). This book provides a highly practical look at ES6, without getting lost in the specification or its implementation details. Armed with practical examples, author Nicolas Bevacqua shows you new ways to deal with asynchronous flow control, declare

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objects or functions, and create proxies or unique sets, among many other features. The first title in Bevacqua's Modular JavaScript series, Practical Modern JavaScript prepares JavaScript and Node.js developers for applied lessons in modular design, testing, and deployment in subsequent books. This book explains: How JavaScript and its standards development process have evolved Essential ES6 changes, including arrow

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functions, destructuring, let and const
Class syntax for declaring object
prototypes, and the new Symbol
primitive How to handle flow control
with Promises, iterators, generators,
and async functions ES6 collection
built-in types for creating object maps
and unique sets How and when to use the
new Proxy and Reflect built-ins Changes
to Array, Math, numbers, strings,
Unicode, and regular expressions, and
other improvements since ES5

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68 Specific Ways to Harness the Power
of JavaScript

The JavaScript Programming Language

Effective JavaScript

Object-Oriented JavaScript

PHP: The Good Parts

Solutions & Examples for jQuery

Developers

**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**

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invented gradual static type layers for their dynamically typed JavaScript and Python code. This practical book shows you 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,

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including what they're for and how they're used
Explore advanced topics: 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
Peter Seibel interviews 15 of the most
interesting computer programmers alive today
in Coders at Work, offering a companion volume
to Apress's highly acclaimed best-seller
Founders at Work by Jessica Livingston. As the

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**words “at work” suggest, Peter Seibel focuses on how his interviewees tackle the day-to-day work of programming, while revealing much more, like how they became great programmers, how they recognize programming talent in others, and what kinds of problems they find most interesting. Hundreds of people have suggested names of programmers to interview on the Coders at Work web site: www.codersatwork.com. The complete list was 284 names. Having digested everyone’s feedback, we selected 15 folks who’ve been kind enough to agree to be interviewed:
Frances Allen: Pioneer in optimizing compilers,**

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first woman to win the Turing Award (2006) and first female IBM fellow Joe Armstrong: Inventor of Erlang Joshua Bloch: Author of the Java collections framework, now at Google Bernie Cosell: One of the main software guys behind the original ARPANET IMPs and a master debugger Douglas Crockford: JSON founder, JavaScript architect at Yahoo! L. Peter Deutsch: Author of Ghostscript, implementer of Smalltalk-80 at Xerox PARC and Lisp 1.5 on PDP-1 Brendan Eich: Inventor of JavaScript, CTO of the Mozilla Corporation Brad Fitzpatrick: Writer of LiveJournal, OpenID, memcached, and Perlbal Dan Ingalls: Smalltalk implementor and

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designer Simon Peyton Jones: Coinventor of Haskell and lead designer of Glasgow Haskell Compiler

Donald Knuth: Author of The Art of Computer Programming and creator of TeX

Peter Norvig: Director of Research at Google and author of the standard text on AI

Guy Steele: Coinventor of Scheme and part of the Common Lisp Gang of Five, currently working on Fortress

Ken Thompson: Inventor of UNIX

Jamie Zawinski: Author of XEmacs and early Netscape/Mozilla hacker

Part of the fun of programming in Perl lies in tackling tedious tasks with short, efficient, and reusable code. Often, the perfect tool is the one-

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liner, a small but powerful program that fits in one line of code and does one thing really well. In Perl One-Liners, author and impatient hacker Peteris Kruminis takes you through more than 100 compelling one-liners that do all sorts of handy things, such as manipulate line spacing, tally column values in a table, and get a list of users on a system. This cookbook of useful, customizable, and fun scripts will even help hone your Perl coding skills, as Kruminis dissects the code to give you a deeper understanding of the language. You'll find one-liners that:

- * Encode, decode, and convert strings**
- * Generate random passwords ***

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Calculate sums, factorials, and the mathematical constants π and e * Add or remove spaces * Number lines in a file * Print lines that match a specific pattern * Check to see if a number is prime with a regular expression * Convert IP address to decimal form * Replace one string with another And many more! Save time and sharpen your coding skills as you learn to conquer those pesky tasks in a few precisely placed keystrokes with Perl One-Liners.

What's the best approach for developing an application with JavaScript? This book helps you answer that question with numerous JavaScript

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coding patterns and best practices. If you're an experienced developer looking to solve problems related to objects, functions, inheritance, and other language-specific categories, the abstractions and code templates in this guide are ideal—whether you're using JavaScript to write a client-side, server-side, or desktop application. Written by JavaScript expert Stoyan Stefanov—Senior Yahoo! Technical and architect of YSlow 2.0, the web page performance optimization tool—JavaScript Patterns includes practical advice for implementing each pattern discussed, along with several hands-on

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examples. You'll also learn about anti-patterns: common programming approaches that cause more problems than they solve. Explore useful habits for writing high-quality JavaScript code, such as avoiding globals, using single var declarations, and more Learn why literal notation patterns are simpler alternatives to constructor functions Discover different ways to define a function in JavaScript Create objects that go beyond the basic patterns of using object literals and constructor functions Learn the options available for code reuse and inheritance in JavaScript Study sample JavaScript approaches to common design

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**patterns such as Singleton, Factory, Decorator,
and more Examine patterns that apply
specifically to the client-side browser
environment**

Object-Oriented JavaScript - Second Edition

How JavaScript Works

Coders at Work

The R Inferno

Programming TypeScript

The Definitive Guide

Get past all the hype about PHP and dig into the real power of this language. This book explores the most useful features of PHP and how they can

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speed up the web development process, and explains why the most commonly used PHP elements are often misused or misapplied. You'll learn which parts add strength to object-oriented programming, and how to use certain features to integrate your application with databases. Written by a longtime member of the PHP community, PHP: The Good Parts is ideal for new PHP programmers, as well as web developers switching from other languages. Become familiar with PHP's basic syntax, variables, and datatypes Learn how to integrate the language with web pages Understand

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how to use strings, arrays, and PHP's built-in functions Discover the advantages of using PHP as an object-oriented language Explore how PHP interacts with databases, such as SQLite and MySQL Learn input- and output-handling best practices to prevent security breaches 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,

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exploring the underlying mechanisms and 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 transpiler to implement it. The book is deep, dense, full of code, and has moments when it is intentionally funny.

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This brief book explains the advantages of the object model, inheritance, both classical and prototypical, and shows how these concepts can be implemented in JavaScript. It also shows how object programming (OP) opens a new world of design possibilities that go far beyond inheritance. This book will help the intermediate JavaScript programmer learn to use both types of inheritance. For classical inheritance, it is accompanied by a substantial online system (a windowing UI library) that shows classical inheritance at its best. The same system shows how OP "capabilities" can

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eliminate much of the need for inheritance. For experienced JavaScript programmers, this book shows why most of the old views of JavaScript's inheritance have not done it justice. JavaScript classes inherit from JavaScript's prototypes, a fact that makes JavaScript's prototypes, when used correctly, functional equivalents to C++ classes (not to prototypes in true prototypical languages, like Self). JavaScript's object programming (not inheritance) is what separates it from classical OOP languages like C++ and Java. Most important, basing inheritance on JavaScript's prototypal chain

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is possible, but is not the best choice for prototypal inheritance or classical inheritance. What You'll Learn What are objects, JavaScript objects and object programming What is and how to use inheritance and JavaScript inheritance as well as inheritance alternatives How to design for JavaScript What are and how to use OO principles in JavaScript How to use Constructors with JavaScript and more Audience This book is for both intermediate and advanced JavaScript and Web development programmers. However, any programmer will understand the concepts and any

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JavaScript programmer should understand all of the concepts in this book. The code there is shows examples of the concepts discussed.

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JavaScript for Kids

Learning JavaScript Design Patterns

The Good Parts. - Includes Index

Dive Into Es6 and the Future of JavaScript

Structure and Interpretation of Computer Programs

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- 2nd Edition

Node.js in Action

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 you in example code and encouraging experimentation right from the start, the author quickly gives you the tools you

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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 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

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modify the author's code, or throw it away and build your own creations from scratch. Before you know it, you'll be fluent in the language of the Web.

"From library user to JavaScript developer"--Cover.

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

A Developer's Notebook

A Brain-Friendly Guide

JavaScript Enlightenment

Secrets of the JavaScript Ninja