

JavaScript Core Web Programming Course Notes

Web Programming with HTML5, CSS, and JavaScript is written for the undergraduate, client-side web programming course. It covers the three client-side technologies (HTML5, CSS, and JavaScript) in depth, with no dependence on server-side technologies.

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 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 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

Master the art of building dynamic, modern web applications with React About This Book Learn the hot new frontend web framework from Facebook - ReactJS, an easy way of developing the V in MVC and a better approach to software engineering in JavaScript A fast-paced guide to designing and building scalable and maintainable web apps with ReactJS Learn all the new ES6 features and be among the most prominent JavaScript developers who can write efficient JS programs as per the latest standards Master the art of building modern web applications using React Learn to build modern native iOS and Android applications using JavaScript and the incredible power of React Who This Book Is For This course is for web developers that want to unlock high performance dynamism in the applications that they create. If you want a comprehensive journey into one of the most important JavaScript frameworks around today, dive into this course. What You Will Learn Take control of the front end with reactive JavaScript programming Discover what ReactJS offers your development - before mastering it Create React elements with properties and children Use JSX to speed up your React development process Test your React components with the Jest test framework Learn the latest syntax of ES6 Executes ES6 in a non-supported ES6 environment Learn the principles of object-oriented programming Create a complete single-page application Use an application design plan to write smarter, more meaningful code Learn how to use animations to give extra style to your application Get to grips with the React Native environment Write your own custom native UI components Integrate native modules in Objective-C and Java that interact with JavaScript In Detail ReactJS has helped to transform the web as we know it. Designed by Facebook to help developers build rapid, responsive UI that can deal with data-intensive usage, it's an essential component in any web developer's skillset. This ReactJS course, in five connected modules, provides you with a fast, engaging and practical route to computer programming for beginners. Beginning with the Reactive Programming with JavaScript module, you will learn how to write JavaScript code that not only works, but that you can be proud of. The latest, completely revised edition takes into account the most current JavaScript language version. Here's an excerpt from the contents: From operators, data types and other priorities Variables or reality in drawers For all cases... if & else Functions give us back so much... One for all and all for one: Arrays The big arrangement with map, reduce, filter,... Again from the beginning with recursion That's where I stay strict! Appetite for Destructuring OWL Step-by-Step Guides OWL Step-by-Step Guides convey practical knowledge in a simple and understandable way. They are written based on teaching practice by experts from the renowned Open Web Learning Institute and conceived in such a way that you can put your own projects into practice. Knowledge tests and exercises serve to deepen and consolidate the newly acquired knowledge. This OWL Step-by-Step Guide is part of the online course "JavaScript" at OWL Institute but can also be used independently of the course. The online course offers additional benefits such as personal support, quizzes, assignments and a final exam including an official certification. Check out https://owl.institute for additional information. Customer Reviews from the 2016 Edition "...perfect for newcomers. The authors do not go into too much depth, but at the same time they are not shallow. You get a good, short summary about important methods and concepts in JavaScript. The theory is well illustrated by an example (construction of a webshop)." [translated from German] Sven - reviewer on Amazon.de Read and I think it is better suited for didactic purposes than the dry textbooks." [translated from German] Mario Sebastian - reviewer on Amazon.de "Just super. I hadn't had that yet! at noon I got the book and the next morning I had it through" [translated from German] Eva-maria and Frank Dreitzner - reviewers on Amazon.de

This visual guide to computer programming for beginners, it has never been easier to learn how to code. Coding skills are in high demand and the need for programmers is still growing. Covering three of the most popular languages for new coders, this book uses a graphic method to break complex subjects into user-friendly chunks, bringing essential skills within easy reach. Each chapter contains tutorials and practical projects designed to teach you the main applications of each language, such as building websites, creating games, and designing apps. The book also looks at many of the main coding languages that are out there, outlining the key applications of each language, so you can choose the right language for you. You'll learn to think like a programmer by breaking a problem down into parts, before turning those parts into lines of code. Short, easy-to-follow steps then show you, piece by piece, how to build a complete program. There are challenges for you to tackle to build your confidence before moving on. Written by a team of expert coders and coding teachers, Beginner's Step-by-Step Coding Course is the ideal way to get to set you on the road to code. This fixed-layout eBook teaches all essential web technologies from A to Z. Skillfully written, extremely succinct, with a lot of tables, diagrams, examples and screen output, it touches the latest experimental technology in action. Covering some hardly documented "tricks" beyond the basics, this book guarantees to transform an Internet newcomer to an accomplished web developer. For every web developer, it is a handy must-have. As we know, various web technologies are interconnected and it is impossible to fully master one technology without knowing another. Traditionally, a serious web developer needs to rely on several books or sources when coding a website. This book represents an all-in-one solution. It presents to you a holistic view of all essential web technologies. It means spending less money and time in learning more. The topics include HTML, CSS, JavaScript, PHP, AJAX, XML, XPath, XSD, XQuery, XSLT, SVG, Canvas, WebGL, Java Applet, Flash ActionScript, Red5, Firebase, WebRTC, htmccross, mod rewrite, jQuery, cURL, WordPress, SEO etc. (This eBook should be read using a fixed-layout-compatible (epub3) reader such as the Golden Reader in Android.)

How often do you hear people say things like this? "Our JavaScript is a mess, but we're thinking about using [framework of the month]." Like it or not, JavaScript is not going away. No matter what framework or "compiles-to-js" language or library you use, bugs and performance concerns will always be an issue if the underlying quality of your JavaScript is poor. Rewrites, including porting to the framework of the month, are terribly expensive and unpredictable. The bugs won't magically go away, and can happily reproduce themselves in a new context. To complicate things further, features will get dropped, at least temporarily. The other popular method of fixing your JS is playing "JavaScript Jenga," where each developer slowly and carefully takes their best guess at how the out-of-control system can be altered to allow for new features, hoping that this doesn't bring the whole stack of blocks down. This book provides clear guidance on how best to avoid these pathological approaches to writing JavaScript. Recognize you have a problem with your JavaScript quality. Forge the code you have now, and the developers who made it. Learn repeatable, memorable, and time-saving refactoring techniques. Apply these techniques as you work, fixing things along the way. Internalize these techniques, and avoid writing as much problematic code to begin with. Bad code doesn't have to stay that way. And making it better doesn't have to be intimidating or unreasonably expensive.

HTML Web Development Crash Course Coding with JavaScript For Dummies Introduction to Interactive Programming on the Internet ASP.NET Core Razor Pages Learning JavaScript: the Non-Boring Beginner's Guide to Modern (ES6+) JavaScript Programming Vol 1: the Language Core Web Programming with Dart

If you know HTML, CSS, and JavaScript, you already have the tools you need to develop Android applications. This hands-on book shows you how to use these open source web standards to design and build apps that can be adapted for any Android device -- without having to use Java. You'll learn how to create an Android-friendly web app on the platform of your choice, and then convert it to a native Android app with the free PhoneGap framework. Discover why device-agnostic mobile apps are the wave of the future, and start building apps that offer greater flexibility and a broader reach. Learn the basics for making a web page look great on the Android web browser Convert a website into a web application, complete with progress indicators and more Add animation with jQuery to make your web app look and feel like a native Android app Take advantage of client-side data storage with apps that run even when the Android device is offline Use PhoneGap to hook into advanced Android features -- including the accelerometer, geolocation, and alerts Test and debug your app on the Web under load with real users, and then submit the finished product to the Android Market This book received valuable community input through O'Reilly's Open Feedback Publishing System (OFPS). Learn more at http://labs.oreilly.com/ofps.html. "Learn how to create websites. A step by step process is used to show everything from setting up to essential HTML features. Gain a good understanding of the following concepts: HTML programming, Web programming, Basic/essential HTML tags, Website basics, integrating media into a website, Basic CSS and JavaScript. HTML is one of the core universal programming languages of the web that is essential for any web development journey. The web is growing on a daily basis and knowing HTML is more crucial than ever. You will be provided with the full source code to aid in development during and after this course. The source code is free to use in as many projects as you wish."--Resource description page. 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 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 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 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. 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

Objects Libraries or just try to run fast. If you develop sites or applications for the Web, this book is an absolute must. Sams Teach Yourself HTML, CSS, and JavaScript All in One The all-in-one HTML, CSS, and JavaScript beginner's guide covering the three most important languages for web development. Covers everything beginners need to know about the HTML and CSS standards and today's JavaScript and Ajax libraries - all in one book. For the first time Integrated, well-organized coverage expertly shows how to use all these key technologies together Short, simple lessons teach hands-on skills readers can apply immediately By best-selling author Julie Meloni Mastering HTML, CSS, and JavaScript is vital for any beginning web developer - and the importance of these technologies is growing as web development moves away from proprietary alternatives such as Flash. Sams Teach Yourself HTML, CSS, and JavaScript All in One brings together everything beginners need to build powerful web applications with the HTML and CSS standards and the latest JavaScript and Ajax libraries. With this book, beginners can get all the modern web development knowledge you need from one expert source. Bestselling author Julie Meloni (Sams Teach Yourself PHP, MySQL and Apache All in One) teaches simply and clearly, through brief, hands-on lessons focused on knowledge you can apply immediately. Meloni covers all the building blocks of practical web design and development, integrating new techniques and features into every chapter. Each lesson builds on what's come before, showing you exactly how to use HTML, CSS, and JavaScript together to create great web sites.

Eloquent JavaScript Programming with JavaScript: Algorithms and Applications for Desktop and Mobile Browsers The Good Parts JavaScript Objects and OOP Programming with JavaScript JavaScript from Beginner to Professional Web Developer's Cookbook Dispel the myth that JavaScript is a "baby" language and demonstrates why it is 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 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 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 is an introduction to 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 need to build your own programs. As you follow along with examples like an artificial life or 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 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.

Designed specifically for the CS-1 Introductory Programming Course, "Programming with JavaScript: Algorithms and Applications for Desktop and Mobile Browsers" introduces students to computer science and programming using a modern approach. "One stop shopping" for Web programmers, this book covers everything on how to build killer programming skills. Coverage is given of all major Web constructs (including HTML, Java, CGI-BIN, VBScript, VRML, and distributed object concepts like CORBA and ActiveX). The CD-ROM includes sample code, examples from the book, Java, JavaScript, VBScript, and CGI Scripts, applets, and modifiable HTML templates and tags.

An Accelerated Course Core Web Programming JavaScript: The Complete Reference, 2nd edition The JavaScript Workshop Web Programming with HTML5, CSS, and JavaScript JavaScript and jQuery

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 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.

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 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 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!

Web Programming with Dart is for programmers who want to master the new Dart programming language from Google, and also web developers who want to understand how Dart can integrate perfectly with HTML5 and CSS3. With this book you will understand the ins and outs of the language, how the tools work, and how to get the most from the core functions and libraries. Web Programming with Dart is a practical, example-led book, with case studies involving developing UI animations for the web, working with web services such as JSON, server side Dart applications, and the new Polymer.dart library for advanced HTML UI web components generation. Take a full tour of Dart's core features and its advanced functionality Learn the tools that come with Dart SDK and the most important libraries. Additionally you will work with the newest Polymer.dart library for web component creation. Develop your own command-line and server side applications and, of course, web applications with Dart.

Go from beginner to builder quickly with this hands-on JavaScript guide Coding with JavaScript For Dummies provides easy, hands-on instruction for anyone looking to learn this popular client-side language. No experience? No problem! This friendly guide starts from the very beginning and walks you through the basics, then shows you how to apply what you've learned to real projects. You'll start building right away, including web page elements and simple applications, so you can immediately see how JavaScript is used in the real world. Online exercises allow you to test your code and expand your skills, and the easy-to-follow instruction provides step-by-step guidance toward understanding the JavaScript syntax, applications, and language. JavaScript enhances static web pages by providing dynamic elements that can adapt and react to user action. It's a need-to-know tool for aspiring web designers, but anyone can benefit from understanding this core development language. Coding with JavaScript For Dummies takes you from beginner to builder quickly as you. Learn what JavaScript does, how it works, and where to use it Master the core elements of JavaScript and immediately put it to work Build interactive web elements and try out your code online Create basic applications as you apply JavaScript to the app development workflow Animate a website and add fun to your content, that's JavaScript. It makes websites more functional, more beautiful, and more engaging, and your site visitors will demand nothing less. If you want to build a better website, you need JavaScript. If you need JavaScript, coding with JavaScript For Dummies gets you started off quickly and painlessly, with plenty of hands-on practice.

JavaScript: Functional Programming for JavaScript Developers Learn to develop interactive web applications with clean and maintainable JavaScript code A Modern Introduction to Programming PHP, MySQL & JavaScript All-in-One For Dummies Turning Bad Code Into Good Code

A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics This unique book provides an introduction to programming on the Internet. Class-tested over a two-year period, this text covers the "nuts and bolts" of Internet programming. In addition to core fundamentals, readers are introduced to Web page construction HTML, managing an account on a web server, client-server model, and JavaScript programming.

Completely revised and updated, this best-selling introduction to programming in JavaScript focuses on writing real 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 current state of JavaScript 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 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, including syntax, control, and data - Organize and clarify your code with object-oriented 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.

The bestselling JavaScript reference, now updated to reflect changes in technology and best practices As the most comprehensive book on the market, the JavaScript Bible is a classic bestseller that keeps you up to date on the latest changes in JavaScript, the leading technology for incorporating interactivity into Web pages. Part tutorial, part reference, this book serves as both a learning tool for building new JavaScript skills as well as a detailed reference for the more experienced JavaScript user. You'll get up-to-date coverage on the latest JavaScript practices that have been implemented since the previous edition, as well as the most updated code listings that reflect new concepts. Plus, you'll learn how to apply the latest JavaScript exception handling and custom object techniques. Coverage includes: JavaScript's Role in the World Wide Web and Beyond Developing a Scripting Strategy Selecting and Using Your Tools JavaScript Essentials Your First JavaScript Script Browser and Document Objects Scripts and HTML Documents Programming Fundamentals Window and Document Objects Forms and Form Elements Strings, Math, and Dates Scripting Frames and Multiple Windows Images and Dynamic HTML The String Object The Math, Number, and Boolean Objects The Date Object The Array Object JSON - Native JavaScript Object Notation E4X - Native XML Processing Control Structures and Exception Handling JavaScript Operators Function Objects and Custom Objects Global Functions and Statements Document Object Model Essentials Generic HTML Element Objects Window and Frame Objects Location and History Objects Document and Body Objects Link and Anchor Objects Image, Area, Map, and Canvas Objects Event Objects Practical examples of working code round out this new edition and contribute to helping you learn JavaScript quickly yet thoroughly.

Audience This book is intended for anyone interested in learning one of the most effective and widely-used technology stacks for developing highly-interactive, professional-grade, database-driven Web applications-ASP.NET Core Razor Pages, C#.NET, HTML, Bootstrap, CSS, JavaScript, and Entity Framework Core-including novice software developers, professional software developers, and college or university students enrolled in a one-semester course or two-semester sequence of courses in Web application development. Organization Part I provides an overview of some of the major concepts and technologies associated with ASP.NET Core Web application development as well as ASP.NET Core solutions and projects. Part II describes how to develop an ASP.NET Core Web application, including how to create and use HTML elements and how to perform model validation to keep bad data out of the system. The concepts in this part of the book will lay the foundation required for learning the C# programming language in the context of an ASP.NET Core Web application. Part III describes how to program in the C# programming language, including how to perform assignment, conversion, control, string, arithmetic, date and time, array, collection, and file system operations and how to create custom C# classes-in the context of an ASP.NET Core Web application. Part IV describes how to develop a multiple-page ASP.NET Core Web application, including how to maintain the application's state and how to use layout pages to give the pages of the application a consistent look. Part V describes how to improve the user experience of an ASP.NET Core Web application, including how to use Bootstrap to make the application responsive and attractive when displayed on a phone, tablet, laptop, and desktop, how to use Cascading Style Sheets to style HTML elements consistently across all the pages of the application, and how to use JavaScript to write code that needs to be executed in the browser. Part VI describes how to connect an ASP.NET Core Web application to a SQL Server database, including how to install and use Entity Framework Core, how to perform database query operations, and how to perform database table maintenance. Part VII describes how to create an ASP.NET Core Web application service, including a NetMail email service and a MailKit email service. Features Real-Life Examples A significant proportion of the examples in the text are drawn from the real-life experiences of the author's own software development practice that began in 1987. Clear-Minded, Consistent, and Concise Prose Every effort has been made to present concepts clearly and logically, utilize consistent language and terminology across all chapters, and articulate concepts fully yet concisely. Accessible Language Although the subject matter of this book is highly technical and specialized, trendy and/or arcane language that is inaccessible to the average learner is either clearly defined or replaced in favor of clear and generalizable terminology.

JavaScript JavaScript Bible Refactoring JavaScript Interactive Front-End Web Development Beginner's Step-by-Step Coding Course An Introduction to Understanding and Implementing Core Data Structure and Algorithm Fundamentals 16+ Hours of Video Instruction Overview In JavaScript, jQuery and jQuery UI: An Introduction to Front-End Web Development , expert JavaScript developer, instructor, and author Marty Hall provides a practical, hands-on introduction to front-end web programming with JavaScript, jQuery, jQuery UI, HTML, and CSS. Description "Front-end" (or "client-side") Web development involves using JavaScript, HTML, and CSS to make interactive applications that run inside a web browser and can communicate with a Web server running remotely. Of these pieces, JavaScript is by far the most difficult because it is a full-fledged programming language and is not part of contracts all the others together. This video course provides thorough coverage of three key components of front-end Web development: The core JavaScript language (jQuery), the wildly popular open-source library that provides a flexible complex JavaScript applications (jQuery UI), a library built on top of jQuery that provides dialog boxes, popup calendars, auto-completing text fields, and other rich widgets that are not part of standard HTML. The course also gives briefer introductions to two supporting topics: The Hypertext Markup Language (HTML), using HTML 5 syntax Cascading Style Sheets (CSS) Each section of the course includes details on the most important topics, surveys more advanced or lesser-used topics, and provides plenty of working examples. The course is aimed at two audiences: First-time programmers: Programmers who know other languages but are new to JavaScript People in the first category should go through every topic in order, whereas programmers in the second category can skim the first two JavaScript copies (and possibly the HTML and CSS sections) before slowing down and going through the other topics in detail. Please visit http://www.coreservlets.com/javascript-jquery-tutorial/ for the course Web site. This site contains complete source code for all examples in the video, as well as exercises and exercise solutions for each topic. Finally, you can contact the author directly at hall@coreservlets.com with questions or suggestions or to inquire about customized training courses on JavaScript, jQuery, Angular 2, Java 8, JSF, PrimeFaces, Android programming, and other Java EE topics to be held onsite at your organization. About the Author Marty Hall is the president of coreservlets.com, a training and consulting company focusing on JavaScript, jQuery, services...

Start your journey towards becoming a JavaScript developer with the help of more than 100 fun exercises and projects Key FeaturesWrite eloquent JavaScript and employ fundamental and advanced features to create your own web appsInteract with the browser with HTML and JavaScript, and add dynamic images, shapes, and text with HTML5 CanvasBuild a password checker, paint web app, hangman game, and many more fun projectsBook Description This book demonstrates the capabilities of JavaScript for web application development by combining theoretical learning with code exercises and fun projects that you can challenge yourself with. The guiding principle of the book is to show how straightforward JavaScript techniques can be used to make web apps ranging from dynamic websites to simple browser-based games. JavaScript from Beginner to Professional focuses on key programming concepts and Document Object Model manipulations that are used to solve common problems in professional web applications. These include data validation, manipulating the appearance of web pages, working with asynchronous and concurrent code. The book uses project-based learning to provide context for the theoretical components in a series of code examples that can be used as modules of an application, such as input validators, games, and simple animations. This will be supplemented with a brief crash course on HTML and CSS to illustrate how JavaScript components fit into a complete web application. As you learn the concepts, you can try them in your own editor or browser console to get a solid understanding of how they work and what they do. By the end of this JavaScript book, you will feel confident writing core JavaScript code and be equipped to progress to more advanced libraries, frameworks, and environments such as React, Angular, and Node.js. What you will learnUse logic statements to make decisions within your codeSave time with JavaScript loops by avoiding writing the same code repeatedlyUse JavaScript functions and methods to selectively execute codeConnect to HTML5 elements and bring your own web pages to life with interactive contentMake your search patterns more effective with regular expressionsExplore concurrency and asynchronous programming to process events efficiently and improve performanceGet a head start on your next steps with primers on key libraries, frameworks, and APIsWho this book is for This book is for people who are new to JavaScript (JS) or those looking to build up their skills in web development. Basic familiarity with HTML & CSS would be beneficial. Whether you are a junior or intermediate developer who needs an easy-to-understand practical guide for JS concepts, a developer who wants to transition into working with JS, or a student studying programming concepts using JS, this book will prove helpful.

Internet Programming with VBScript and JavaScript provides a thorough introduction to Web programming by providing coverage on Internet scripting from both the client and server side. This title also covers the core concepts Internet programmers need to master in order to bridge the gap between Web programming languages and Web architecture. The JavaScript Workshop is a definitive guide to learning JavaScript in a practical way. Starting with JavaScript's core syntax and structure, the book gradually builds up to more advanced concepts like server-side development and functional programming. With this book, you'll gain the confidence to tackle any real-world JavaScript challenge. You Don't Know JS: Scope & Closures Full Stack Web Development with C#.NET, HTML, Bootstrap, CSS, JavaScript, and Entity Framework Core Sams Teach Yourself HTML, CSS, and JavaScript All in One React: Building Modern Web Applications Introduction to Web Mapping The Definitive Guide

Create dynamic, interactive Web pages with the latest upgrade to this flexible development tool. Coverage includes event handling, object oriented programming, IE specific content, XML, and sample code that lets you work through projects and provides groundwork for your own creations. Provides information for new and non-professional developers and also more advanced coverage for experienced JS developers who want a comprehensive reference. Unlock the powers of functional programming hidden within JavaScript to build smarter, cleaner, and more reliable web apps About This Book Write powerful code with the high-level functions that JavaScript offers Discover what functional programming is, why it's effective, and how it's used in JavaScript Understand and optimize JavaScript's hidden potential as a true functional language Who This Book Is For If you are a JavaScript developer interested in learning functional programming, looking for the quantum leap toward mastering the JavaScript language, or just want to become a better programmer in general, then this book is ideal for you. This guide is aimed at programmers, involved in developing reactive frontend apps, server-side apps that wrangle with reliability and concurrency, and everything in between. What You Will Learn Get a run through of the basic JavaScript language constructs Code using the powerful object-oriented feature in JavaScript Master DOM manipulation, cross-browser

strategies, and ES6 Understand the basic concurrency constructs in Javascript and best performance strategies Harness the power of patterns for tasks ranging from application building to code testing Build large-scale apps seamlessly with the help of reactive patterns Explore advanced design patterns, including dependency injection Develop more powerful applications with currying and function composition Create more reliable code with closures and immutable data In Detail JavaScript is a high-level, dynamic, untyped, lightweight, and interpreted programming language and functional programming is a style that emphasizes and enables smarter code that minimizes complexity and increases modularity. It's a way of writing cleaner code through clever ways of mutating, combining, and using functions. And JavaScript provides an excellent medium for this approach. By learning how to expose JavaScript's true identity as a functional language, we can implement web apps that are more powerful, easier to maintain and more reliable. The Java script: Functional Programming for JavaScript Developers course will take you on a journey to show how functional programming when combined with other techniques makes JavaScript programming more efficient. The first module Mastering JavaScript, stress on practical aspects of Javascript development like—Functions and Closures, Runtime debugging techniques, project layout, events and DOM processing, build tools, Object-oriented patterns, isomorphism—everything that a modern Javascript project would need. The second module, Mastering JavaScript Design Patterns - Second Edition, will explore how design patterns can help you improve and organize your JavaScript code. You'll get to grips with creational, structural, and behavioral patterns as you discover how to put them to work in different scenarios. This updated edition will also delve into reactive design patterns and microservices as they are a growing phenomenon in the world of web development. It will also show you some advanced patterns, including dependency injection and live post processing. The third module, Functional Programming in JavaScript, will help you to write real-world applications by utilizing a wide range of functional techniques and styles. It explores the core concepts of functional programming common to all functional languages, with examples of their use in JavaScript. Style and approach This course will begin with providing insights and practical tips on advanced JavaScript features to build highly scalable web and mobile system and move on to some design patterns with JavaScript. Finally, the course ends with presenting the functional programming techniques and styles in JavaScript.

Explore data structures and algorithm concepts and their relation to everyday JavaScript development. A basic understanding of these ideas is essential to any JavaScript developer wishing to analyze and build great software solutions. You'll discover how to implement data structures such as hash tables, linked lists, stacks, queues, trees, and graphs. You'll also learn how a URL shortener, such as bit.ly, is developed and what is happening to the data as a PDF is uploaded to a webpage. This book covers the practical applications of data structures and algorithms to encryption, searching, sorting, and pattern matching. It is crucial for JavaScript developers to understand how data structures work and how to design algorithms. This book and the accompanying code provide that essential foundation for doing so. With JavaScript Data Structures and Algorithms you can start developing your knowledge and applying it to your JavaScript projects today. What You'll Learn Review core data structure fundamentals: arrays, linked-lists, trees, heaps, graphs, and hash-tableReview core algorithm fundamentals: search, sort, recursion, breadth/depth first search, dynamic programming, bitwise operators Examine how the core data structure and algorithms knowledge fits into context of JavaScript explained using prototypical inheritance and native JavaScript objects/data types Take a high-level look at commonly used design patterns in JavaScript Who This Book Is For Existing web developers and software engineers seeking to develop or revisit their fundamental data structures knowledge; beginners and students studying JavaScript independently or via a course or coding bootcamp.

Do you want to build web pages but have no prior experience? This friendly guide is the perfect place to start. You'll begin at square one, learning how the web and web pages work, and then steadily build from there. By the end of the book, you'll have the skills to create a simple site with multicolumn pages that adapt for mobile devices. Each chapter provides exercises to help you learn various techniques and short quizzes to make sure you understand key concepts. This thoroughly revised edition is ideal for students and professionals of all backgrounds and skill levels. It is simple and clear enough for beginners, yet thorough enough to be a useful reference for experienced developers keeping their skills up to date. Build HTML pages with text, links, images, tables, and forms Use style sheets (CSS) for colors, backgrounds, formatting text, page layout, and even simple animation effects Learn how JavaScript works and why the language is so important in web design Create and optimize web images so they'll download as quickly as possible NEW! Use CSS Flexbox and Grid for sophisticated and flexible page layout NEW! Learn the ins and outs of Responsive Web Design to make web pages look great on all devices NEW! Become familiar with the command line, Git, and other tools in the modern web developer's toolkit NEW! Get to know the super-powers of SVG graphics

A JavaScript and jQuery Developer's Guide

Eloquent JavaScript, 3rd Edition

Learning JavaScript Design Patterns

The Impact of the 4th Industrial Revolution on Engineering Education

Learning PHP, MySQL & JavaScript

Explore the engine that drives the Internet It takes a powerful suite of technologies to drive the most-visited websites in the world. PHP, MySQL, JavaScript, and other web-building languages serve as the foundation for application development and programming projects at all levels of the web. Dig into this all-in-one book to get a grasp on these in-demand skills, and figure out how to apply them to become a professional web builder. You'll get valuable information from seven handy books covering the pieces of web programming, HTML5 & CSS3, JavaScript, PHP, MySQL, creating object-oriented programs, and using PHP frameworks. Helps you grasp the technologies that power web applications Covers PHP version 7.2 Includes coverage of the latest updates in web development Perfect for developers to use to solve problems This book is ideal for the inexperienced programmer interested in adding these skills to their toolbox. New coders who've made it through an online course or boot camp will also find great value in how this book builds on what you already know.

300+ Ready-to-Use PHP, JavaScript, and CSS Solutions Web Developer's Cookbook contains more than 300 PHP, JavaScript, and CSS recipes you can use right away to create interactive Web content. All of the solutions are fully documented and their functionality clearly explained, along with customization tips. The recipes include HTML examples and screen shots showing exactly how to apply them in real-world situations. Methods for using HTML5 to make Web pages even more interactive and dynamic are also provided. Shorten development time and sharpen your programming skills with help from this practical guide. Filled with tested recipes for: PHP Text processing * Image handling * Content management * Forms and user input * Internet * Chat and messaging * MySQL, sessions, and cookies * APIs, RSS, and XML * Incorporating JavaScript JavaScript Core functionality * Location and dimensions * Visibility * Movement and animation * Chaining and interaction * Menus and navigation * Text effects * Audio and visual effects * Cookies, Ajax, and security * Forms and validation * Solutions to common problems CSS Manipulating objects * Text and typography * Menus and navigation * Page layout * Visual effects * Dynamic objects * Dynamic text and typography * Incorporating JavaScript * Superclasses

Learn more about JavaScript and how JavaScript ES6 can be applied to create amazing JavaScript projects. Course is loaded with JavaScript Examples and perfect JavaScript for Beginners to learn more about JavaScript Online. Writing JavaScript Code using vanilla JavaScript - no libraries no tricks this JavaScript tutorial the JavaScript Course will walk you through creating your own JavaScript code and provide many JavaScript Code Snippets for use in JavaScript programming. Learn JavaScript with this step by step JavaScript Course. What you'll learn How to apply JavaScript How to use OOP in JavaScript Create simple applications with JavaScript Objects in JavaScript Requirements HTML CSS and JavaScript core knowledge Computer Access and Internet Access Use of Web editor and knowledge to setup web development environment Who this course is for: Web developers Anyone who wants to learn more about applying JavaScript Web masters JavaScript coders who want to learn more about using JavaScript Anyone who wants to do interesting applications with JavaScript Frontend code writers.

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.