Beginning Javascript With Dom Scripting And Ajax From Novice To Professional Beginning From Novice To Professional

With DOM Enlightenment, you'll learn how to manipulate HTML more efficiently by scripting the Document Object Model (DOM) without a DOM library. Using code examples in cookbook style, author Cody Lindley (jQuery Cookbook) walks you through modern DOM concepts to demonstrate how various node objects work. Over the past decade, developers have buried the DOM under frameworks that simplify its use. This book brings these tools back into focus, using concepts and code native to modern browsers. If you have JavaScript experience, you'll understand the role jQuery plays in DOM scripting, and learn how to use the DOM directly in applications for mobile devices and specific browsers that require low overhead. Understand JavaScript node objects and their relationship to the DOM Learn the properties and methods of document, element, text, and DocumentFragment objects Delve into element node selecting, geometry, and inline styles Add CSS style sheets to an HTML document and use CSSStyleRule objects Set up DOM events by using different code patterns Learn the author's vision for

dom.js, a jQuery-inspired DOM Library for modern browsers

Develop your JavaScript programming skills by learning strategies and techniques commonly used in modern full-stack application development Key Features Write and deploy full-stack applications efficiently with JavaScript Delve into JavaScript's multiple programming paradigms Get up to speed with core concepts such as modularity and functional programming to write efficient code Book Description In depth knowledge of JavaScript makes it easier to learn a variety of other frameworks, including React, Angular, and related tools and libraries. This book is designed to help you cover the core JavaScript concepts you need to build modern applications. You'll start by learning how to represent an HTML document in the Document Object Model (DOM). Then, you'll combine your knowledge of the DOM and Node.js to create a web scraper for practical situations. As you read through further lessons, you'll create a Node.js-based RESTful API using the Express library for Node.js. You'll also understand how modular designs can be used for better reusability and collaboration with multiple developers on a single project. Later lessons will guide you through building unit tests, which ensure that the core functionality of your program is not affected over time. The book will also demonstrate how constructors, async/await, and events can load your

applications quickly and efficiently. Finally, you'll gain useful insights into functional programming concepts such as immutability, pure functions, and higher-order functions. By the end of this book, you'll have the skills you need to tackle any real-world JavaScript development problem using a modern JavaScript approach, both for the client and server sides. What you will learn Apply the core concepts of functional programming Build a Node.js project that uses the Express.js library to host an API Create unit tests for a Node.js project to validate it Use the Cheerio library with Node.js to create a basic web scraper Develop a React interface to build processing flows Use callbacks as a basic way to bring control back Who this book is for If you want to advance from being a frontend developer to a full-stack developer and learn how Node.js can be used for hosting full-stack applications, this is an ideal book for you. After reading this book, you'll be able to write better JavaScript code and learn about the latest trends in the language. To easily grasp the concepts explained here, you should know the basic syntax of JavaScript and should've worked with popular frontend libraries such as jQuery. You should have also used JavaScript with HTML and CSS but not necessarily Node.js.
With Pro JavaScript Design Patterns, you'll start with the basics of object-oriented programming in JavaScript applicable to design patterns, including

making JavaScript more expressive, inheritance, encapsulation, information hiding, and more. The book then details how to implement and take advantage of several design patterns in JavaScript. Each chapter is packed with real-world examples of how the design patterns are best used and expert advice on writing better code, as well as what to watch out for. Along the way you'll discover how to create your own libraries and APIs for even more efficient coding.

Whether you're an old-school scripter who needs to modernize your JavaScripting skills or a standards-aware Web developer who needs best practices and code examples, you'll welcome this guide from a JavaScript master. Other JavaScript books use example scripts that have little bearing on real-world Web development and are useful only in the chapter at hand. In contrast, Peter-Paul Koch's book uses eight real-world scripts he created for real-world clients in order to earn real-world money. That means the scripts are guaranteed to do something useful (and sellable!) that enhances the usability of the page they're used on. The book's example scripts include one that sorts a data table according to the user's search queries, a form validation script, a script that shows form fields only when the user needs them, a drop-down menu, and a data retrieval script that uses simple Ajax and shows the data in an animation. After an overview of JavaScript's

purpose, Peter-Paul provides theoretical chapters on
the context (jobs for JavaScript, CSS vs. JavaScript),
the browsers (debugging, the arcana of the browser
string), and script preparation. Then follow practical
chapters on Core, BOM, Events, DOM, CSS
Modification, and Data Retrieval, all of which are
explained through a combination of theoretical
instruction and the taking apart of the relevant
sections of the example scripts.

This "learn by example" book offers 10 complete
JavaScript projects that will save web developers
countless hours of development time. These projects
can serve as samples to learn from and/or be
adapted for use in other projects. The 10 projects all
address common needs in modern web applications,
including a utility library, a validation framework, a
GUI widget framework, a dynamic event calendar
application, a drag and drop shopping cart, and
more! Coverage details JavaScript best practices,
Ajax techniques, and some of the most popular
JavaScript libraries, such as Prototype,
Script.aculo.us, and the Yahoo YUI library.
JavaScript + CSS + DOM Magic has directly
applicable projects with step-by-step instructions
showing you how to master a feature and adapt it
according to their own needs and creativity. The
wealth of graphics will make this book easy to read
and visually appealing. This book makes JavaScript,
CSS and DOM easy to understand by providing

directly applicable models to readers' web sites. The book opens with a primer, giving context to the technologies, and then jumps into over 25 step-by-step, directly applicable projects. You will learn the most desired web functionalities, including: frames, mouse-overs, windows, forms, CGI, style sheets, dynamic positioning, and SSI. Reviewers have called this book an unprecedented practical and comprehensive DHTML guide. The CD contains complete working scripts, all images from the book's examples, bonus graphics, trial version of leading text editors (BBEdit Lite, Homesite).

The World's Easiest Java Script Tutorial—Fully Updated! JavaScript by Example, Second Edition, is the easiest, most hands-on way to learn JavaScript. Legendary programming instructor Ellie Quigley has thoroughly updated her classic book to deliver the skills and information today's JavaScript users need most—including up-to-the-minute coverage of JavaScript programming constructs, CSS, Ajax, JSON, and the latest JavaScript libraries and best practices. Quigley illuminates every technique with focused, classroom-tested code examples, detailed line-by-line explanations, and real program output. This exceptionally clear, easy-to-understand book takes you from your first script to advanced techniques. It's the only JavaScript book you'll ever need! New in This Edition End-of-chapter study tools, including classroom-tested labs Programming

the DOM More Cascading Style Sheets Introduction
to Ajax and JSON Explanation of how to develop
interactive Web applications with dynamic, desktop-
style interfaces Programmers' preparation for HTML
5's breakthrough capabilities This edition has been
completely updated and includes many new and
completely rewritten code examples; contains fully
revised and updated coverage of Cascading Style
Sheets (CSS) and the Document Object Model
(DOM); and fully covers modern JavaScript
concepts, principles, and programming techniques.
Thousands of Web developers, administrators, and
power users have relied on JavaScript by Example
to become expert JavaScript programmers. With this
new edition, you can, too—even if you're completely
new to JavaScript. After you've become an expert,
you'll turn to this book constantly as the best source
for trustworthy answers, solutions, and code.
Beginning JavaScript with DOM Scripting and
AjaxSecond EditonApress
From this book you'll learn essential and advanced
serviet and JSP skills, essential database skills. Last
part of book presents an e-commerce web site (a
music store)that puts these skills into context.
This is the most up-to-date book on JavaScript
available, covering current standards, techniques,
and practices. It provides all you need to know to hit
the ground running, without making you trawl
through hundreds of pages of syntax. The book

contains multiple chapters on Ajax and DOM Scripting, which are two of the hottest web development and design tools available today. Using a pragmatic and thorough approach, the book ensures that even the most novice JavaScript programmers will become familiar and comfortable using the tools presented.

A detailed and approachable tour around this essential language. Make your way through plenty of practical examples, as you pick up syntax rules, the fundamentals of scripting, and how to handle data types and loops

What is this book about? JavaScript is the language of the Web. Used for programming all major browsers, JavaScript gives you the ability to enhance your web site by creating interactive, dynamic, and personalized pages. Our focus in this book is on client-side scripting, but JavaScript is also hugely popular as a scripting language in server-side environments, a subject that we cover in later chapters. What does this book cover? Beginning JavaScript assumes no prior knowledge of programming languages, but will teach you all the fundamental concepts that you need as you progress. After covering the core JavaScript language, you'll move on to learn about more advanced techniques, including Dynamic HTML, using cookies, debugging techniques, and server-side scripting with ASP. By the end of this book, you

will have mastered the art of using JavaScript to create dynamic and professional-looking web pages. Here are a few of the things you'll learn in this book: Fundamental programming concepts Comprehensive practical tutorial in JavaScript Cross-browser scripting, including Netscape 6 Cookie creation and use Plug-ins and ActiveX controls Dynamic HTML Scripting the W3C DOM Server-side JavaScript with ASP Who is this book for? This book is for anyone who wants to learn JavaScript. You will need a very basic knowledge of HTML, but no prior programming experience is necessary. Whether you want to pick up some programming skills, or want to find out how to transfer your existing programming knowledge to the Web, then this book is for you. All you need is a text editor (like Notepad) and a browser, and you're ready to go!

jQuery is one of the most popular and powerful JavaScript libraries available today. It's widely used to create rich user experiences and to simplify website and application development. It is the tool of choice for web developers everywhere and sets the standard for simplicity, flexibility and extensibility. This book demonstrates how jQuery can be used with HTML5 to achieve excellent results. In Pro jQuery, seasoned author Adam Freeman explains how to get the most from jQuery by focusing on the features you need for your project. He starts with the nuts and bolts and shows you everything through to

advanced features, going in depth to give you the
knowledge you need. Getting the most from jQuery
is essential to truly mastering web development.
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 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 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 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.

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

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. 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 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.

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 Java¬Script and web browsers and includes
brand-new material on features like class notation, arrow
functions, iterators, async functions, template strings,
and block scope. A host of new exercises have also
been added to test your skills and keep you on track. As
with previous editions, Haverbeke continues to teach
through extensive examples and immerses you in code
from the start, while exercises and full-chapter projects
give you hands-on experience with writing your own
programs. You start by 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 and functional programming techniques - Script the browser and make basic web applications - Use the DOM effectively to interact with browsers - Harness Node.js to build servers and utilities Isn't it time you became fluent in the language of the Web? * All source code is available online in an inter¬active sandbox, where you can edit the code, run it, and see its output instantly.

Beginning JavaScript with DOM Scripting and Ajax is an essential resource for modern JavaScript programming. This completely updated second edition covers everything you need to know to get up-to-speed with JavaScript development and add dynamic enhancements to web pages, right from the basics. As well as focusing on client-side JavaScript, you will also learn how to work with the Browser Object Model, the Document Object Model (DOM), how to use XML and JSON as well as communicate with service side scripts such as PHP. Find out how to: Construct good JavaScript syntax following modern coding practices Use JavaScript to communicate with the server and retrieve data Dynamically manipulate markup, validate forms and deal with images Debug applications using features inside the browser JavaScript is one of the most important technologies on the web. It provides the means to add dynamic functionality to your web pages and serves as the backbone of Ajax-style web development. Beginning JavaScript with DOM Scripting and Ajax will take you from being a JavaScript novice to

work freely with this important technology - begin your JavaScript journey today!

Today, JavaScript is used in 89.9% of all websites, including the most heavily-trafficked sites like Google, Facebook, YouTube, and Amazon. That is why every web developer should know how to use JavaScript. The problem is that JavaScript is surprisingly difficult to learn, not only for programming novices but also for experienced programmers. But now, Murachs JavaScript makes it easier than ever to become an accomplished JavaScript programmer. To make that possible, section 1 of this book presents a six-chapter course in JavaScript that gets you off to a great start. This section works for programming novices as well as experienced programmers because it lets you set your own pace. When you finish this section, you will be able to write, test and debug JavaScript applications of your own. Then, section 2 builds on that base by presenting the additional skills that every JavaScript programmer must have. That includes working with arrays and web storage, creating and using your own object types in object-oriented applications, using regular expressions for data validation, and much more. For many developers, sections 1 and 2 will be all that they need to know. But for those who want to move on to the expert level, section 3 presents the skills that will get you there. That includes skills like how to bulletproof your applications by using closures, namespaces, and modules; how to make your functions more useful by using callbacks; and how to use JSON to transmit and store data. Then, the last chapter in this section

introduces you to jQuery and shows you how it can make
your JavaScript code even better.

jQuery was written to express, in short-order, the
concepts essential to intermediate and advanced jQuery
development. Its purpose is to instill in you, the reader,
practices that jQuery developers take as common
knowledge. Each chapter contains concepts essential to
becoming a seasoned jQuery developer.This book is
intended for two types of readers. The first is someone
who has read introductory material on jQuery and is
looking for the next logical step. The second type of
reader is a JavaScript developer, already versed in
another library, now trying to quickly learn jQuery. I
crafted this book to be used as my own personal
reference point for jQuery concepts. This is exactly the
type of book I wish every JavaScript library had
available. 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.
As a web user, you'll no doubt have noticed some of the
breathtaking applications available in today's modern
web, such as Google Maps and Flickrdesktop
applications than the old style web sites you are used to.
You've probably also wished that you could create such

things, and then thought "nahhh, I'd need to know a lot of complicated code to be able to even start creating sites like these." Well, think again. There is a lot of complicated code involved in cutting-edge "Ajax-style" web applications, but a lot of the hard work is already done for you, and available on the Web. JavaScript libraries exist to provide most of that Ajax/DOM Scripting functionality out of the box. Application programming interfaces (APIs) exist to allow you to transplant complicated applications such as Google Maps and Flickr right into your own web sites. And hosting services such as Flickr and YouTube provide all you need to store and retrieve your media (be it images, video, or whatever) at your leisure, without having to worry about bandwidth issues and file naming nightmares. All you need to know is enough to successfully wire together all this functionality successfully and responsibly, and this book shows you how. It starts from the very beginning of your journey, showing you what's available, what you need, and how to set up an effective development environment. After a solid base has been built, it shows you how to build up each aspect of your site, including storing, retrieving, and displaying content, adding images and video to your site, building effective site navigation and laying it all out beautifully using CSS, promoting your content so you will attract visitors to your site, and adding special effects to enhance usability and design asthetics...all with ready-made functionality available on the Web! Life as a web developer has never been easier. A guide to the JavaScript programming language covers such topics as document access, events, animation,

form enhancements, errors and debugging, and Ajax.
Dispels 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)
Here is the ultimate guide to creating and extending
documents within the application programming interface
of the Document Object Model (DOM). The book
examines real-world applications of the DOM, including
exclusive case studies of DOM-based browsers and
applications and provides a comprehensive, language-
neutral examination of the DOM and its related
applications.
If you're like most developers, you rely heavily on
JavaScript to build interactive and quick-responding
web applications. The problem is that all of those

lines of JavaScript code can slow down your apps. This book reveals techniques and strategies to help you eliminate performance bottlenecks during development. You'll learn how to improve execution time, downloading, interaction with the DOM, page life cycle, and more. Yahoo! frontend engineer Nicholas C. Zakas and five other JavaScript experts—Ross Harmes, Julien Lecomte, Steven Levithan, Stoyan Stefanov, and Matt Sweeney—demonstrate optimal ways to load code onto a page, and offer programming tips to help your JavaScript run as efficiently and quickly as possible. You'll learn the best practices to build and deploy your files to a production environment, and tools that can help you find problems once your site goes live. Identify problem code and use faster alternatives to accomplish the same task Improve scripts by learning how JavaScript stores and accesses data Implement JavaScript code so that it doesn't slow down interaction with the DOM Use optimization techniques to improve runtime performance Learn ways to ensure the UI is responsive at all times Achieve faster client-server communication Use a build system to minify files, and HTTP compression to deliver them to the browser

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 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. Make something cool with JavaScript
today! Ages 10+ (and their parents!)
Aimed at immediate to advanced Web publishers,
this edition explores the new functions in JavaScript
and their uses. The CD-ROM contains JavaScript
and Java examples from the book as well as an
additional code and examples not used in the book.
JavaScript is one of the easiest, most straightforward
ways to enhance a website with interactivity. Sams

Teach Yourself JavaScript in 24 Hours, 4th Edition serves as an easy-to-understand tutorial on both scripting basics and JavaScript itself. The book is written in a clear and personable style with an extensive use of practical, complete examples. It also includes material on the latest developments in JavaScript and web scripting. You will learn how to use JavaScript to enhance web pages with interactive forms, objects, and cookies, as well as how to use JavaScript to work with games, animation, and multimedia.

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.
With this second edition of the popular DOM
Scripting: Web Design with JavaScript and the
Document Object Model comes a modern revision to
update best practices and guidelines. It includes full
coverage of HTML5 in a new, dedicated chapter,
and details on JavaScript libraries and how they can
help your scripting. The book provides everything
you'll need to start using JavaScript and the
Document Object Model to enhance your web pages
with client-side dynamic effects and user-controlled
animation. It shows how JavaScript, HTML5, and
Cascading Style Sheets (CSS) work together to
create usable, standards-compliant web designs.
We'll also cover cross-browser compatibility with
DOM scripts and how to make sure they degrade

gracefully when JavaScript isn't available. DOM Scripting: Web Design with JavaScript and the Document Object Model focuses on JavaScript for adding dynamic effects and manipulating page structure on the fly using the Document Object Model. You'll start with a crash course in JavaScript and the DOM, then move on to several real-world examples that you'll build from scratch, including dynamic image galleries and dynamic menus. You'll also learn how to manipulate web page styles using the CSS DOM, and create markup on the fly. If you want to create websites that are beautiful, dynamic, accessible, and standards-compliant, this is the book for you!

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 is this book about? Extensible Markup Language (XML) is a rapidly maturing technology with powerful real-world applications, particularly for the management, display, and organization of data. Together with its many related technologies it is an essential technology for anyone using markup languages on the web or internally. This book teaches you all you need to know about XML — what

it is, how it works, what technologies surround it, and how it can best be used in a variety of situations, from simple data transfer to using XML in your web pages. It builds on the strengths of the first edition, and provides new material to reflect the changes in the XML landscape — notably SOAP and Web Services, and the publication of the XML Schemas Recommendation by the W3C. What does this book cover? Here are just a few of the things this book covers: XML syntax and writing well-formed XML Using XML Namespaces Transforming XML into other formats with XSLT XPath and XPointer for locating specific XML data XML Validation using DTDs and XML Schemas Manipulating XML documents with the DOM and SAX 2.0 SOAP and Web Services Displaying XML using CSS and XSL Incorporating XML into tradition databases and n-tier architectures XLink and XPointer for linking XML and non-XML resources Who is this book for? Beginning XML, 2nd Edition is for any developer who is interested in learning to use XML in web, e-commerce or data-storage applications. Some knowledge of mark up, scripting, and/or object oriented programming languages is advantageous, but not essential, as the basis of these techniques are explained as required.

Step-by-step guide reveals best practices for enhancing Web sites with Ajax A step-by-step guide to enhancing Web sites with Ajax. Uses progressive enhancement techniques to

ensure graceful degradation (which makes sites usable in all browsers). Shows readers how to write their own Ajax scripts instead of relying on third-party libraries. Web site designers love the idea of Ajax--of creating Web pages in which information can be updated without refreshing the entire page. But for those who aren't hard-core programmers, enhancing pages using Ajax can be a challenge. Even more of a challenge is making sure those pages work for all users. In Bulletproof Ajax, author Jeremy Keith demonstrates how developers comfortable with CSS and (X)HTML can build Ajax functionality without frameworks, using the ideas of graceful degradation and progressive enhancement to ensure that the pages work for all users. Throughout this step-by-step guide, his emphasis is on best practices with an approach to building Ajax pages called Hijax, which improves flexibility and avoids worst-case scenarios.

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

DOM Scripting is a vital technique for web developers and designers to learn and master in order to add such dynamic web applications as animations, maps, drag and drop, and more. This book offers comprehensive coverage of advanced DOM Scripting techniques and reads like a wish list of must have dynamic web application features, including visual effects using JavaScript libraries, Ajax, Mashups using APIs, and much more. It follows in the footsteps of Jeremy Keith's acclaimed book, DOM Scripting (friends of ED: 1590595335, 2005), helping you master the next level with countless real world tutorials.

If you're a web developer with previous JavaScript and DOM scripting experience, Pro DOM Scripting with Ajax, APIs, and Libraries is perfect for you to take your knowledge up to the next level. It provides a thorough walkthrough of all the fundamentals needed to build effective dynamic web applications. The first part of the book focuses on methodology and technologies for rapid development with JavaScript, including OOP and events, but also Ajax frameworks and JavaScript libraries. The second part includes three complete projects for you to learn from: form validation, mashups, and UI design.

This book addresses today's approach to JavaScript in detail: modern browser support, including information on Internet Explorer 7; Object-Oriented JavaScript; testing and debugging; unobtrusive JavaScript techniques using DOM Scripting; Ajax; creating and using blocks of reusable code, and the future of JavaScript. All the concepts expressed in this up-to-the-minute reference are thoroughly backed up with real world examples and full-scale case studies. The book offers reusable functions for readers to use in their own projects, a significant time-saver. Also included are several

reference sections that allow developers to look up details quickly and easily.

Explores the Web programming language, explaining how to add JavaScript to existing HTML Web pages and offers brief syntax drills, annotated examples of code, coding exercises, and end-of-module review tests.