

Modern Javascript Develop And Design Larry Ullman

There's no doubt that the JavaScript ecosystem changes fast. Not only are new tools and frameworks introduced and developed at a rapid rate, the language itself has undergone big changes with the introduction of ES2015 (aka ES6).

Understandably, many articles have been written complaining about how difficult it is to learn modern JavaScript development these days. We're aiming to minimize that confusion with this set of books on modern JavaScript. This book presents modern JavaScript best practice, utilizing the features now available in the language that enable you to write more powerful code that is clean, performant, maintainable, and reusable. It contains: The Anatomy of a Modern JavaScript Application by James Kolce Clean Code with ES6 Default Parameters & Property Shorthands by Moritz Kruger JavaScript Performance Optimization Tips: An Overview by Ivan CuriC JavaScript Design Patterns: The Singleton by Samier Saeed JavaScript Object Creation: Patterns and Best Practices by Jeff Mott Best Practices for Using Modern JavaScript Syntax by M. David Green Flow Control in Modern JS: Callbacks to Promises to Async/Await by Craig Buckler JavaScript's New Private Class Fields, and

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How to Use Them by Craig Buckler This book is for all front-end developers who wish to improve their JavaScript skills. You'll need to be familiar with HTML and CSS and have a reasonable level of understanding of JavaScript in order to follow the discussion.

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

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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 javascript: 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

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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.

Demonstrates how to build upon JavaScript's ease of use, enforces best practices, and embraces such key Web development approaches as progressive enhancement and unobtrusive scripting.

There's no doubt that the JavaScript ecosystem

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changes fast. Not only are new tools and frameworks introduced and developed at a rapid rate, the language itself has undergone big changes with the introduction of ES2015 (aka ES6) and further revisions. Understandably, many articles have been written complaining about how difficult it is to learn modern JavaScript development these days. We're aiming to minimize that confusion with this set of books on modern JavaScript. This collection contains: Practical ES6 is a collection of articles introducing many of the powerful new JavaScript language features that were introduced in ECMAScript 2015, as well as features introduced in ECMAScript 2016 and 2017. It also takes a look at the features planned for ECMAScript 2018 in this rapidly evolving language. JavaScript: Best Practice presents articles discussing modern JavaScript best practice, enabling you to write more powerful code that is clean, performant, maintainable, and reusable. 6 JavaScript Projects presents six complete JavaScript projects; each taking advantage of modern JavaScript and its ecosystem. You'll learn to build several different apps, and along the way you'll pick up a ton of useful advice, tips, and techniques. Modern JavaScript Tools & Skills contains a collection of articles outlining essential tools and skills that every modern JavaScript developer should know. This book is for all front-end developers who wish to improve their JavaScript

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skills. You'll need to be familiar with HTML and CSS and have a reasonable level of understanding of JavaScript in order to follow the discussion.

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A project-based guide to help you create, package, and deploy desktop applications on multiple platforms using modern JavaScript frameworks

Key Features

- Use your web development skills with JavaScript and Node.js to build desktop applications for macOS and Windows
- Develop desktop versions of popular mobile applications that are similar to Slack, Spotify, and more
- Design desktop apps with automatic updates and real-time analytics capabilities

Book Description

The Electron framework allows you to use modern web technologies to build applications that share the same code across all operating systems and platforms. This also helps designers to easily transition from the web to the desktop.

Electron Projects guides you through building cross-platform Electron apps with modern web technologies and JavaScript frameworks such as Angular, React.js, and Vue.js. You'll explore the process of configuring modern JavaScript frameworks and UI libraries, real-time analytics and automatic updates, and interactions with the operating system. You'll get hands-on with building a basic Electron app, before moving on to implement a Markdown Editor. In addition to this, you'll be able to experiment with

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major JavaScript frameworks such as Angular and Vue.js, discovering ways to integrate them with Electron apps for building cross-platform desktop apps. Later, you'll learn to build a screenshot snipping tool, a mini-game, and a music player, while also gaining insights into analytics, bug tracking, and licensing. You'll then get to grips with building a chat app, an eBook generator and finally a simple digital wallet app. By the end of this book, you'll have experience in building a variety of projects and project templates that will help you to apply your knowledge when creating your own cross-platform applications. What you will learn Initialize Node.js, Node Package Manager (NPM), and JavaScript to set up your app Integrate Phaser with Electron to build a simple 2D game Improve app quality by adding an error tracking system and crash reports Implement group chat features and event handling capabilities using Firebase Integrate a WordPress-like rich-text editor into your app Build Electron applications using a single codebase Who this book is for This book is for JavaScript developers who want to explore the Electron framework for building desktop apps. Working knowledge of modern frontend JavaScript frameworks and Node.js is assumed. No prior knowledge of desktop development is required.

Get the most out of JavaScript for building web applications through a series of patterns, techniques,

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and case studies for clean coding Key Features Write maintainable JS code using internal abstraction, well-written tests, and well-documented code Understand the agents of clean coding like SOLID principles, OOP, and functional programming Explore solutions to tackle common JavaScript challenges in building UIs, managing APIs, and writing states Book Description Building robust apps starts with creating clean code. In this book, you'll explore techniques for doing this by learning everything from the basics of JavaScript through to the practices of clean code. You'll write functional, intuitive, and maintainable code while also understanding how your code affects the end user and the wider community. The book starts with popular clean-coding principles such as SOLID, and the Law of Demeter (LoD), along with highlighting the enemies of writing clean code such as cargo culting and over-management. You'll then delve into JavaScript, understanding the more complex aspects of the language. Next, you'll create meaningful abstractions using design patterns, such as the Class Pattern and the Revealing Module Pattern. You'll explore real-world challenges such as DOM reconciliation, state management, dependency management, and security, both within browser and server environments. Later, you'll cover tooling and testing methodologies and the importance of documenting code. Finally, the book will focus on

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advocacy and good communication for improving code cleanliness within teams or workplaces, along with covering a case study for clean coding. By the end of this book, you'll be well-versed with JavaScript and have learned how to create clean abstractions, test them, and communicate about them via documentation. What you will learn

- Understand the true purpose of code and the problems it solves for your end-users and colleagues
- Discover the tenets and enemies of clean code considering the effects of cultural and syntactic conventions
- Use modern JavaScript syntax and design patterns to craft intuitive abstractions
- Maintain code quality within your team via wise adoption of tooling and advocating best practices
- Learn the modern ecosystem of JavaScript and its challenges like DOM reconciliation and state management
- Express the behavior of your code both within tests and via various forms of documentation

Who this book is for This book is for anyone who writes JavaScript, professionally or otherwise. As this book does not relate specifically to any particular framework or environment, no prior experience of any JavaScript web framework is required. Some knowledge of programming is assumed to understand the concepts covered in the book more effectively.

Develop your JavaScript programming skills by learning strategies and techniques commonly used

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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

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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.

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Leverage the features of TypeScript to boost your development skills and create captivating applications About This Book Learn how to develop modular, scalable, maintainable, and adaptable web applications by taking

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advantage of TypeScript Explore techniques to use TypeScript alongside other leading tools such as Angular 2, React, and Node.js Focusing on design patterns in TypeScript, this step-by-step guide demonstrates all the important design patterns in practice Who This Book Is For This Learning Path is for intermediate-level JavaScript developers who want to use TypeScript to build beautiful web applications and fun projects. No prior knowledge of TypeScript is required, but a basic understanding of jQuery is expected. This Learning Path is also for experienced TypeScript developers who want to take their skills to the next level, and also for web developers who wish to make the most of TypeScript. What You Will Learn Understand the key TypeScript language features and runtime Install and configure the necessary tools in order to start developing an application Create object-oriented code that adheres to the SOLID principles Develop robust applications with testing (Mocha, Chai, and SinonJS) Apply GoF patterns in an application with a testing approach Identify the challenges when developing an application Migrate JavaScript codebases to TypeScript to improve your workflow Utilize SystemJS and Webpack to load scripts and their dependencies Develop high performance server-side applications to run within Node.js In Detail TypeScript is an open source and cross-platform typed superset of JavaScript that compiles to plain JavaScript that runs in any browser or any host. TypeScript adds optional static types, classes, and modules to JavaScript, to enable great tooling and better structuring of large JavaScript applications. Through this three-module learning path, you'll learn the ins-and-outs of TypeScript for building more robust software. The first module gets you started with TypeScript and helps you understand the basics of TypeScript and automation tools. Get a detailed description of function, generics, callbacks, and promises,

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and discover the object-oriented features and memory management functionality of TypeScript. The next module starts by explaining the current challenges when designing and developing an application and how you can solve these challenges by applying the correct design pattern and best practices. You will be introduced to low-level programming concepts to help you write TypeScript code, as well as working with software architecture, best practices, and design aspects. The final module will help you build a complete single page app with Angular 2, create a neat mobile app using NativeScript, and even build a Pac Man game with TypeScript. As if the fun wasn't enough, you'll also find out how to migrate your legacy codebase from JavaScript to TypeScript. By the end of this Learning Path, you will be able to take your skills up a notch and develop full-fledged web applications using the latest features of the TypeScript. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Learning TypeScript by Remo H. Jansen TypeScript Design Patterns by Vilic Vane TypeScript Blueprints by Ivo Gabe de Wolff Style and approach This is a step-by-step, practical guide covering the fundamentals of TypeScript with practical examples. The end-to-end projects included in this book will give you ready-to-implement solutions for your business scenario, showcasing the depth and robustness of TypeScript.

Start developing single-page applications (SPAs) with modern architecture. This book shows you how to create, design, and publish native web components, ultimately allowing you to piece together those elements in a modern JavaScript framework. Building Native Web Components dives right in and gets you started building your first web component. You'll be introduced to native web component design systems and frameworks, discuss component driven

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development and understand its importance in large-scale companies. You'll then move on to building web components using templates and APIs, and custom event lifecycles. Techniques and best practices for moving data, customizing, and distributing components are also covered. Throughout, you'll develop a foundation to start using Polymer, Vue.js, and Firebase in your day-to-day work. Confidently apply modern patterns and develop workflows to build agnostic software pieces that can be reused in SPAs. Building Native Web Components is your guide to developing small and autonomous web components that are focused, independent, reusable, testable, and works with all JavaScript frameworks, modern browsers, and libraries. What You Will Learn Incorporate Conserved Domain Database (CDD) and design systems into your workflow Build apps with reusable UI components that are agnostic to JavaScript frameworks Utilize Polymer and Vue.js in your day-to-day work Publish your UI components in npm (or Node Package Manager) Who This Book Is For The book is intended for Intermediate–Advanced level readers interested in single-page applications (SPAs), as well as Polymer, Vue.js, and Firebase.

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Take your JavaScript knowledge as far as it can go JavaScript has grown up, and it's a hot topic. Newer and fasterJavaScript VMs and frameworks built upon them have increased thepopularity of JavaScript for server-side web applications, and richJS applications are being developed for mobile devices. This bookdelivers a compelling tutorial, showing you how to build areal-world app from the ground up. Experienced developers who wantto master the latest techniques and redefine their skills will findthis deep dive into JavaScript's hidden functionalities gives themthe tools to

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create truly amazing and complex applications. JavaScript has evolved into much more than simple client-side scripting; this book delves into advanced topics not generally found in other more intermediate JS development books. Expert author delivers an in-depth tutorial showing how to build a real-world app that is loosely coupled, with each component built to exist separately. Explores how to build a backbone app, the importance of JavaScript templates, Node.js and MongoDB, 3D Canvas using WebGL /Three.js, how to convert a desktop app into a dedicated mobile app, and much more. Ideal for experienced developers with a deep knowledge of JavaScript as well as online developers with strong graphic design skills who are experienced in HTML/CSS and want to develop their front-end skills. JavaScript Programming: Pushing the Limits will arm you with the skills to create killer apps for the 21st Century.

There's no doubt that the JavaScript ecosystem changes fast. Not only are new tools and frameworks introduced and developed at a rapid rate, the language itself has undergone big changes with the introduction of ES2015 (aka ES6). Understandably, many articles have been written complaining about how difficult it is to learn modern JavaScript development these days. We're aiming to minimize that confusion with this set of books on modern JavaScript. This book outlines essential tools and skills that every modern JavaScript developer should know. It contains: A Beginner's Guide to Babel by James Kolce A Beginner's Guide to Webpack 4 and Module Bundling by Mark Brown An Introduction to Gulp.js by Craig Buckler 10 Languages That Compile to JavaScript by James Kolce 10 Must-have VS Code Extensions for JavaScript Developers by Michael Wanyoike Introducing Axios, a Popular, Promise-based HTTP Client by Nilson Jacques This book is for all front-end developers who wish to improve their JavaScript skills. You'll

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need to be familiar with HTML and CSS and have a reasonable level of understanding of JavaScript in order to follow the discussion.

Annotation Traditionally, web applications have been architected so that the back-end houses all the front-end code. This has resulted in heavy projects that are difficult to manage and scale. This book will explain a new way to write web applications by treating the front-end as if it were a third-party (such as a mobile client). This book, written by a practicing MEAN developer, will take a holistic approach to using the MEAN JavaScript platform for creating modern web applications and lay out how to use the MEAN (Mongo, Express, AngularJS, and Node.js) set of tools to create a web application, from installation and setup of the tools to debugging and deploying your app. After an introduction to how web development is changing and the advantages of using the MEAN stack, the author jumps into an introduction to each tool and then dives into using the complete JavaScript-based application stack to build, test, and deploy apps.

Expert JavaScript is your definitive guide to understanding how and why JavaScript behaves the way it does. Master the inner workings of JavaScript by learning in detail how modern applications are made. In covering lesser-understood aspects of this powerful language and truly understanding how it works, your JavaScript code and programming skills will improve. You will learn about core fundamentals of JavaScript, including deep dives into functions, scopes, closures, and practical object-oriented code. Mark Daggett explains clearly how closures, events, and asynchronous code really operate, as well as conventions and concepts to write JavaScript in a clear, pragmatic style. Many of the changes in ECMAScript6 and its implications are all explained. You'll be introduced to modern workflow tools to

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make application development faster, more enjoyable, and ostensibly more profitable. You'll understand how to measure code quality and write more testable JavaScript, and finally you'll learn about real-world applications of JavaScript, including JavaScript-powered robots. JavaScript is one of the most powerful languages on the web today, and it is only getting stronger. This book will take you through the process of planning, coding, testing, profiling and finally releasing your application, at expert level. With more frameworks and more improvements than ever, now is the time to become an expert at JavaScript. Make this journey - use Expert JavaScript today. What you'll learn What is really going on underneath functions, in arguments, types, coercion, and scope How closures, events, and asynchronous code work at a fundamental level How to understand advanced topics including promise objects, coroutines, and generators How to apply this newfound knowledge pragmatically to build the very best modern JavaScript applications Who this book is for This book is for the experienced JavaScript programmer who wants to understand the how and why of their code in order to become a better developer. This book is not intended to teach JavaScript at a syntactical level, but instead delve deep into the code - the philosophy, the reasoning and the detailed expert-level knowledge behind it. This newfound knowledge will enable the reader to build the very best modern JavaScript applications. It is for anyone who wants to become a better programmer by understanding at a very high level how the code works. Table of Contents Objects and Prototypes Functions Getting Closure JavaScript Slang Living Asynchronously JavaScript IRL Pragmatic JavaScript Style Workflow Code Quality Improving Testability Explore and master modern JavaScript techniques with ES2015 in order to build large-scale web applications

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About This Book This course offers an expert's eye on the latest ES6 features and how these advanced tasks fit together in JavaScript as a whole Discover robust JavaScript implementations of classic and advanced design patterns Learn about modern web architectures and build real-world apps on top of them Who This Book Is For This course is for experienced developers familiar with other object-oriented languages who wants to learn new capabilities of ES-2015 to improve their web development skills and build professional-quality web applications. This also goes for those who want to explore some modern JavaScript features, techniques, and architectures in order to develop cutting-edge web applications. What You Will Learn Get a run through of the basic language constructs, Functions, and Closures of JavaScript Code using the powerful object-oriented feature in JavaScript Master DOM manipulation, cross-browser strategies, and ES6 Harness the power of patterns for tasks ranging from application building to code testing Identify the best use cases for microservices Gain expertise in responsive and dynamic website design Enable real-time communications between client-client and client-server/server-client Write complete applications using functional reactive programming In Detail JavaScript is a high-level, dynamic, untyped, lightweight, and interpreted programming language. Mastering modern JavaScript techniques and the toolchain are essential to develop web-scale applications. This Learning Path will upgrade your skills to ES2015, and you will get to introduce yourself to popular frameworks like React and Angular 2.

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In the first module, you will get familiar with the language constructs and how to make code easy to organize. You will gain a concrete understanding of variable scoping, loops, and best practices on using types and data structures, as well as the coding style and recommended code organization patterns in JavaScript. By the end of the module, you will understand how reactive JavaScript is going to be the new paradigm. Over the course of the next module, you 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 and get a deeper look at patterns used in functional programming, as well as model view patterns and patterns to build web applications. By the end of the module, you'll be saved of a lot of trial and error and developmental headaches, and you will be on the road to becoming a JavaScript expert. In the last leg of this course, you will shift your focus to network programming concepts as you build a real-time web application with websockets. Along the way, you'll explore how the power of JavaScript can be increased multi-fold with high performance techniques. By the end of this module, you'll be a skilled JavaScript developer with a solid knowledge of the latest JavaScript techniques, tools, and architecture to build modern web apps. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Mastering JavaScript by Ved Antani Mastering JavaScript Design Patterns, Second Edition by Simon Timms Modern JavaScript Applications by Narayan

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Prusty Style and approach This course is a comprehensive guide with a clear focus on practical use cases and patterns. Each chapter consists of best practices, useful advice, and a bunch of easy-to-follow examples that will build up your skills as you advance. Modern JavaScriptDevelop and DesignPeachpit Press Get Started Fast with Modern JavaScript Web Development! With the arrival of HTML5, jQuery, and Ajax, JavaScript web development skills are more valuable than ever! This complete, hands-on JavaScript tutorial covers everything you need to know now. Using line-by-line code walkthroughs and end-of-chapter exercises, top web developer and speaker Tim Wright will help you get results fast, even if you've never written a line of JavaScript before. Smart, friendly, enthusiastic, and packed with modern examples, Learning JavaScript covers both design-level and development-level JavaScript. You'll find expert knowledge and best practices for everything from jQuery and interface design to code organization and front-end templating. Wright's focused coverage includes regular break points and clear reviews that make modern JavaScript easier to learn—and easier to use! Learning JavaScript is your fastest route to success with JavaScript—whether you're entirely new to the language or you need to sharpen and upgrade skills you first learned a decade ago! Coverage includes

- Mastering all of the JavaScript concepts and terminology you need to write new programs or efficiently modify existing code
- Creating robust, secure code for both the design and development levels
- Maximizing usability, reusability, accessibility, clarity, security, and

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- performance
- Taking full advantage of the browser environments your code will run in
- Accessing the DOM to create behaviors and data interactions
- Storing data for easy and efficient access
- Using variables, functions, loops, and other core language features
- Interacting with users through events
- Communicating with servers through Ajax
- Improving your productivity with JavaScript libraries

Today's web technologies are evolving at near-light speed, bringing the promise of a seamless Internet ever closer to reality. When users can browse the Web on a three-inch phone screen as easily as on a fifty-inch HDTV, what's a developer to do? Peter Gasston's *The Modern Web* will guide you through the latest and most important tools of device-agnostic web development, including HTML5, CSS3, and JavaScript. His plain-English explanations and practical examples emphasize the techniques, principles, and practices that you'll need to easily transcend individual browser quirks and stay relevant as these technologies are updated. Learn how to:

- Plan your content so that it displays fluidly across multiple devices
- Design websites to interact with devices using the most up-to-date APIs, including Geolocation, Orientation, and Web Storage
- Incorporate cross-platform audio and video without using troublesome plug-ins
- Make images and graphics scalable on high-resolution devices with SVG
- Use powerful HTML5 elements to design better forms

Turn outdated websites into flexible, user-friendly ones that take full advantage of the unique capabilities of any device or browser. With the help of *The Modern Web*,

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you'll be ready to navigate the front lines of device-independent development.

In *Secrets of the JavaScript Ninja*, JavaScript expert John Resig reveals the inside know-how of the elite JavaScript programmers. Written to be accessible to JavaScript developers with intermediate-level skills. This book takes readers on a journey towards mastering modern JavaScript development in three phases: design, construction, and maintenance. It first establishes a base of strong, advanced JavaScript knowledge. The book then teaches readers how to construct a JavaScript library. It examines all the numerous tasks JavaScript libraries have to tackle and provides practical solutions and development strategies. It then presents the various maintenance techniques required to keep their code running well into the future. With *Secrets of the JavaScript Ninja* readers will gain the knowledge and Ninja-like skills to build their own JavaScript libraries, or to understand how to use any modern JavaScript library available. What's inside: Introduction Testing and debugging Functions Closures Function prototypes Timers Regular expressions With statements Code evaluation Strategies for cross-browser code CSS Selector Engine DOM modification Attributes and CSS Events Ajax Animation Performance Leverage the features of TypeScript to boost your development skills and create captivating applications About This Book Learn how to develop modular, scalable, maintainable, and adaptable web applications by taking advantage of TypeScript Explore techniques to use TypeScript alongside other leading tools such as

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Angular 2, React, and Node.js Focusing on design patterns in TypeScript, this step-by-step guide demonstrates all the important design patterns in practice Who This Book Is For This Learning Path is for intermediate-level JavaScript developers who want to use TypeScript to build beautiful web applications and fun projects. No prior knowledge of TypeScript is required, but a basic understanding of jQuery is expected. This Learning Path is also for experienced TypeScript developers who want to take their skills to the next level, and also for web developers who wish to make the most of TypeScript. What You Will Learn Understand the key TypeScript language features and runtime Install and configure the necessary tools in order to start developing an application Create object-oriented code that adheres to the SOLID principles Develop robust applications with testing (Mocha, Chai, and SinonJS) Apply GoF patterns in an application with a testing approach Identify the challenges when developing an application Migrate JavaScript codebases to TypeScript to improve your workflow Utilize System. JS and Webpack to load scripts and their dependencies Develop high performance server-side applications to run within Node.js In Detail TypeScript is an open source and cross-platform typed superset of JavaScript that compiles to plain JavaScript that runs in any browser or any host. TypeScript adds optional static types, classes, and modules to JavaScript, to enable great tooling and better structuring of large JavaScript applications. Through this three-module learning path, you'll learn the ins-and-outs of TypeScript for building more robust

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software. The first module gets you started with TypeScript and helps you understand the basics of TypeScript and automation tools. Get a detailed description of function, generics, callbacks, and promises, and discover the object-oriented features and memory management functionality of TypeScript. The next module starts by explaining the current challenges when designing and developing an application and how you can solve these challenges by applying the correct design pattern and best practices. You will be intro ...

Modularize your JavaScript code for better readability, greater maintainability, and enhanced testability
About This Book- Design and build fully modular, modern JavaScript applications using modular design concepts- Improve code portability, maintainability, and integrity while creating highly scalable and responsive web applications- Implement your own loosely coupled code blocks that can power highly maintainable and powerful applications in a flexible and highly responsive modular architecture
Who This Book Is For If you are an intermediate to advanced JavaScript developer who has experience of writing JavaScript code but probably not in a modular, portable manner, or you are looking to develop enterprise level JavaScript applications, then this book is for you. A basic understanding of JavaScript concepts such as OOP, prototypal inheritance, and closures is expected.
What You Will Learn- Understand the important concepts of OOP in JavaScript, such as scope, objects, inheritance, event delegation, and more- Find out how the module design pattern is used in OOP in JavaScript- Design and augment modules using both

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tight augmentation and loose augmentation- Extend the capabilities of modules by creating sub-modules using techniques such as cloning and inheritance- Move from isolated module pieces to a cohesive, well integrated application modules that can interact and work together without being tightly coupled- See how SandBoxing is used to create a medium for all the modules to talk to each other as well as to the core- Use the concepts of modular application design to handle dependencies and load modules asynchronously- Become familiar with AMD and CommonJS utilities and discover what the future of JavaScript holds for modular programming and architecture

In Detail Programming in the modular manner is always encouraged for bigger systems-it is easier to achieve scalability with modular programming. Even JavaScript developers are now interested in building programs in a modular pattern. Modules help people who aren't yet familiar with code to find what they are looking for and also makes it easier for programmers to keep things that are related close together. Designing and implementing applications in a modular manner is highly encouraged and desirable in both simple and enterprise level applications. This book covers some real-life examples of modules and how we can translate that into our world of programming and application design. After getting an overview of JavaScript object-oriented programming (OOP) concepts and their practical usage, you should be able to write your own object definitions using the module pattern. You will then learn to design and augment modules and will explore the concepts of cloning, inheritance, sub-modules, and code extensibility.

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You will also learn about SandBoxing, application design, and architecture based on modular design concepts. Become familiar with AMD and CommonJS utilities. By the end of the book, you will be able to build spectacular modular applications in JavaScript. Style and approach This in-depth step-by-step guide will teach you modular programming with JavaScript. Starting from the basics, it will cover advanced modular patterns that can be used in sophisticated JavaScript applications. 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-table Review core algorithm fundamentals: search, sort, recursion, breadth/depth first search, dynamic programming,

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and production. As I create a generic game in both Phaser.js v2.x.x and v3.16+ frameworks, you develop your own game by simply following and translating my easy concepts into your own game design. When you complete this workbook, unlike other game development books, you will have your own game, not a carbon-copy of the author's. This workbook is divided in several parts of bundled chapters! For example, if you have never created an online game in HTML5 and "modern" JavaScript, you might like to read the Introduction and Part I (Chapters 1 to 7), while a seasoned game developer might start with Part II, III, IV and V (chapters 8 through 14) and scan all the Appendices. If you're a seasoned Business Consultant or Product/Project Manager, I'm certain you'll be interested in the upcoming trends in the gaming industry (Part V "IoT"). The workbook's appendices are a resource dictionary of available books, and FREE open-source assets. Each chapter guides you in my decisions & design processes of "Extreme Programming" project management; you will discover why I chose various business and software outcomes -- all of this, in well-commented source code files in both versions v2.x.x and v3.16+ (external to the book's content and found in supporting website's Library). In summary, you'll complete your own exciting game, in your selected genre, using either free open-source Phaser JavaScript Frameworks v2.x.x or v3.16+, and other "modern" JavaScript tools by following this step-by-step product management workbook. The power of Phaser JavaScript Frameworks are exposed for your product development. Bonus Content available

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conveniently in this book's website.

MeteorJS makes full-stack JavaScript Application Development simple – Learn how to build better modern web apps with MeteorJS, and become an expert in the innovative JavaScript framework About This Book Get your dream project up and running by building exceptional MeteorJS applications in a matter of days Learn how to integrate other JavaScript frameworks into your MeteorJS project and become an expert in full-stack development Go beyond coding and learn how to make modern design decisions – from mobile design to SEO – that drive great user experiences Who This Book Is For If you've already had some experience with MeteorJS but want to learn how to build even better modern web application, this book has been created for you. It provides you with a comprehensive look at one of those most important frameworks being used for the modern web today. What You Will Learn Get to grips with the basics and learn how to build a complete real-time application with MeteorJS Find out how Meteor makes full-stack development simple – become a better developer, fast. Use some of the most effective testing tools in modern web development to troubleshoot, debug and optimize your app Find out how to write custom packages for applications – so you can build your project exactly how you want Integrate React and Angular into your project Design and develop high quality animations that will give your UI the edge Build MeteorJS to serve as REST-based application and reactive system Learn how to host a MeteorJS application and then scale it for data Find out how MeteorJS can help you build for

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mobile Learn how to make sure you implement an effective SEO strategy in your MeteorJS application In Detail The web is dead – applications now rule our online experiences. But how are you going to build them? Well, if you've been paying attention, you might already have tried your hand with MeteorJS, the JavaScript framework that helps you build complete full-stack web applications that are responsive and fast with ease. Mastering MeteorJS Application Development shows you how to do even more with MeteorJS – if you're ready to try a comprehensive course through one of the most exciting frameworks in web development today, this is the book you need. Designed to take you through the entire process of building an advanced multipage application with Meteor, you'll be able to bring your web development ideas with surprising ease. You'll not only learn how Meteor makes web development easier, but also how you can make using Meteor easier, by automating and simplifying tasks so you can be confident you have full control of everything in your workflow – especially everything that could go wrong. From automated testing to integrating other useful frameworks such as Angular and D3, each chapter covers a crucial element in the Meteor development process. Discover how to integrate animations using Meteor's Blaze, to give your UI designs the edge, and explore reactive programming to effectively harness RESTful systems in your projects. You will also learn how to deploy and scale your application, two crucial aspects of modern development and vital in a changing digital environment with users expecting a product and experience that

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delivers. With further insights on developing for mobile – and how Meteor can help you tackle the challenges of the trend – and details on incorporating SEO strategies into your application, this book isn't just a code tutorial – it's about creating a product that users love. Style and approach This book is a practical guide that teaches you different ways to create custom packages, efficient client and server code, and more using Meteor. This book is packed with perfect examples and explanations to help you understand the concepts. With the perfect mix of theory and practical experience, it will equip you to become a professional MeteorJS developer.

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,

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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!*

Readers can take their PHP skills to the next level with this fully revised and updated *PHP Advanced: Visual QuickPro Guide, Third Edition!* Filled with fourteen chapters of step-by-step content and written by bestselling author and PHP programmer Larry Ullman, this guide teaches specific topics in direct, focused segments, shows how PHP is used in real-world applications. The book teaches developing web applications using advanced PHP techniques and advanced database concepts, and this edition offers several chapters devoted to object-oriented programming and all-new chapters on debugging, testing, and performance and using the Zend framework. Author hosts a popular companion website at www.larryullman.com, where readers can freely download code used in the book, access a user forum and book updates, and get advice directly from the author.

Summary *JavaScript Application Design: A Build First Approach* introduces JavaScript developers to techniques that will improve the quality of their software as well as their web development workflow. You'll begin by learning how to establish build processes that are

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appropriate for JavaScript-driven development. Then, you'll walk through best practices for productive day-to-day development, like running tasks when your code changes, deploying applications with a single command, and monitoring the state of your application once it's in production. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book The fate of most applications is often sealed before a single line of code has been written. How is that possible? Simply, bad design assures bad results. Good design and effective processes are the foundation on which maintainable applications are built, scaled, and improved. For JavaScript developers, this means discovering the tooling, modern libraries, and architectural patterns that enable those improvements. JavaScript Application Design: A Build First Approach introduces techniques to improve software quality and development workflow. You'll begin by learning how to establish processes designed to optimize the quality of your work. You'll execute tasks whenever your code changes, run tests on every commit, and deploy in an automated fashion. Then you'll focus on designing modular components and composing them together to build robust applications. This book assumes readers understand the basics of JavaScript. What's Inside Automated development, testing, and deployment processes JavaScript fundamentals and modularity best practices Modular, maintainable, and well-tested applications Master asynchronous flows, embrace MVC, and design a REST API About the Author Nicolas Bevacqua is a freelance

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developer with a focus on modular JavaScript, build processes, and sharp design. He maintains a blog at ponyfoo.com. Table of Contents PART 1 BUILD PROCESSES Introduction to Build First Composing build tasks and flows Mastering environments and the development workflow Release, deployment, and monitoring PART 2 MANAGING COMPLEXITY Embracing modularity and dependency management Understanding asynchronous flow control methods in JavaScript Leveraging the Model-View-Controller Testing JavaScript components REST API design and layered service architectures

JavaScript is a must-have skill for all web developers. JavaScript: Novice to Ninja is a fun, practical, and comprehensive guide to the modern usage of this deceptively powerful language. Comprehensively updated to cover ECMAScript 6 and modern JavaScript development, the second edition of this step-by-step introduction to coding in JavaScript will show you how to solve real-world problems, design eye-catching animations, build smarter forms, and develop richer applications. Learn the basics of JavaScript programming: functions, methods, properties, loops and logic Use events to track user interactions Build smarter web forms that improve the user experience Work with the document object model (DOM) and Ajax to dynamicall update your pages Add functionality to your apps using HTML5's powerful APIs Use Test Driven Development methodology to write more robust code Build a complete, working JavaScript quiz app from scratch

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This book constitutes the refereed proceedings of the 15th International Conference on Information Security Practice and Experience, ISPEC 2019, held in Kuala Lumpur, Malaysia, in November 2019. The 21 full and 7 short papers presented in this volume were carefully reviewed and selected from 68 submissions. They were organized into the following topical sections:

Cryptography I, System and Network Security, Security Protocol and Tool, Access Control and Authentication, Cryptography II, Data and User Privacy, Short Paper I, and Short Paper II.

An introduction to writing code with JavaScript using classical and modern design patterns, including modules, observers, facades, and mediators.

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.

Explore and master modern JavaScript techniques in order to build large-scale web applications
About This Book- Write powerful code with the high-level functions that JavaScript offers- Test and debug issues with JavaScript code using various modern mechanisms- Offers an expert's eye on the latest ES6 features and how these advanced tasks fit together in JavaScript as a whole
Who This Book Is For
This book is ideal for web developers who are looking to master modern JavaScript concepts and design principles. You

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should already have an intermediate level of JavaScript knowledge before starting this book. What You Will Learn- Get a run through of the basic JavaScript language constructs- Get familiar with the Functions and Closures of JavaScript- Explore Regular Expressions in JavaScript- Code using the powerful object-oriented feature in JavaScript- Test and debug your code using JavaScript strategies- Master DOM manipulation, cross-browser strategies, and ES6- Understand the basic concurrency constructs in Javascript and best performance strategies- Learn to build scalable server application in JavaScript using Node.js

In Detail JavaScript is a high-level, dynamic, untyped, lightweight, and interpreted programming language. Along with HTML and CSS, it is one of the three essential technologies of World Wide Web content production, and is an open source and cross-platform technology. The majority of websites employ JavaScript, and it is well supported by all modern web browsers without plugins. However, the JavaScript landscape has changed dramatically in recent years, and you need to adapt to the new world of JavaScript that people now expect. Mastering modern JavaScript techniques and the toolchain are essential to develop web-scale applications. Mastering JavaScript will be your companion as you master JavaScript and build innovative web applications. To begin with, you will get familiarized with the language constructs and how to make code easy to organize. You will gain a concrete understanding of variable scoping, loops, and best practices on using types and data structures, as well as the coding style and recommended code organization patterns in JavaScript. The book will also teach you how to use arrays and objects as data structures. You will graduate from intermediate-level skills to advanced techniques as you come to understand crucial language concepts and design principles. You will learn about modern libraries and tools so

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you can write better code. By the end of the book, you will understand how reactive JavaScript is going to be the new paradigm. Style and approach This is a comprehensive guide with a clear focus on practical use cases and patterns. Each chapter consists of best practices, useful advice, and a bunch of easy-to-follow examples that will build up your skills as you advance through the book.

An example-driven guide that explores the world of modern web development with JavaScript About This Book Explore the new features of ECMAScript 6 and how they can be incorporated to build cutting edge web applications Learn about modern web architectures and build real-world apps on top of them Make use of modern JavaScript tools, techniques and frameworks to enhance your web development skills Who This Book Is For This book is for existing JavaScript developers who want to explore some of the modern JavaScript features, techniques, and architectures to develop cutting edge web applications. What You Will Learn Learn to create single page websites Gain expertise in responsive and dynamic website design Enable Real-time communications between client-client and client-server/server-client Create APIs for large-scale applications Write complete applications using functional reactive programming In Detail Over the years, JavaScript has taken significant strides in the world of modern web development to enhance the development of a wide range of applications with different architectures. This book explores the advanced and new features that have arrived in JavaScript and how they can be applied to develop high-quality applications with different architectures. The book begins by covering a single page application that builds on the innovative MVC approach using AngularJS. As we move forward, the book shows you how to develop an enterprise-level application with the microservices architecture, using Node to build web services. We then focus on network

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programming concepts and you'll build a real-time web application with websockets. When you've gained a solid grip on the different architectures, we'll move on to the area where JavaScript shines, that is, UI development. You'll learn to build responsive, declarative UIs with React and Bootstrap. As we near the end of this book, you'll see how the performance of web applications can be enhanced using Functional Reactive Programming (FRP). Along the way, the book also explores how the power of JavaScript can be increased multi-fold. After reading this book, you will have a solid knowledge of the latest JavaScript techniques, tools, and architecture to build modern web apps. Style and approach Covering all the new features in ECMAScript 6, this book takes a project-based approach to introduce you to all the latest techniques, tools, and architectures of JavaScript web development. Each project that the book builds will show you a different angle of the power of JavaScript in modern web development.

Update your skill set for ES 6 and 7 with the ultimate JavaScript guide for pros Professional JavaScript for Web Developers is the essential guide to next-level JavaScript development. Written for intermediate-to-advanced programmers, this book jumps right into the technical details to help you clean up your code and become a more sophisticated JavaScript developer. From JavaScript-specific object-oriented programming and inheritance, to combining JavaScript with HTML and other markup languages, expert instruction walks you through the fundamentals and beyond. This new fourth edition has been updated to cover ECMAScript 6 and 7 (also known as ES2015 and ES2016) and the major re-imagination and departure from ES 5.1; new frameworks and libraries, new techniques, new testing tools, and more are explained in detail for the professional developer, with a practical focus that helps you put your new

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skills to work on real-world projects. The latest—and most dramatic—ES release is already being incorporated into JavaScript engines in major browsers; this, coupled with the rise in mobile web traffic increasing demand for responsive, dynamic web design, means that all web developers need to update their skills—and this book is your ideal resource for quick, relevant guidance. Get up to date with ECMAScript 6 and 7, new frameworks, and new libraries Delve into web animation, emerging APIs, and build systems Test more effectively with mocks, unit tests, functional tests, and other tools Plan your builds for future ES releases Even if you think you know JavaScript, new ES releases bring big changes that will affect the way you work. For a professional-level update that doesn't waste time on coding fundamentals, Professional JavaScript for Web Developers is the ultimate resource to bring you up to speed.

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