

Learning Javascript Design Patterns Addy Osmani Format

CSS MasteryPro JavaScript DevelopmentLearning Web DesignCSS Optimization BasicsThe Uncertain WebPrinciples of Verification: Cycling the Probabilistic LandscapeLearning JavaScript Design PatternsPractical WebAssemblyLearning JavaScript Design PatternsDeveloping Backbone.js ApplicationsLearning JavaScript Design PatternsImage Optimization: The Humble img Element; I IMAGE QUALITY AND PERFORMANCE: 2 Optimizing Image Quality; 3 Comparing Image Formats; 4 Color Management; 5 Image Decoding Performance; 6 Measuring Image Performance; II CURRENTIMAGE FORMATS: 7 JPEG; 8 PNG; 9 WebP; 10 SVG; III IMAGES IN BROWSERS: 11 Responsive Images; 12 Progressive Rendering Techniques; 13 Caching image assets; 14 Lazy-Loading Images; 15 Replacing Animated GIFs; 16 Image Content Delivery Networks; III NEW AND EMERGING IMAGE FORMATS: 17 HEIF and HEIC; 18 AVIF; 19 JPEG XL; 20 Comparing New Image File Formats; V FURTHER OPTIMIZATION: 21 Data Saver; 22 Optimize Images for Core Web Vitals; 23 Case study: Twitter *Andy Budd Den Odell Jennifer Robbins Jens Oliver Meiert Rob Larsen Nils Jansen Addy Osmani Sendil Kumar Nellaiyapen Addy Osmani Addy Osmani Addy Osmani Addy Osmani*

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fully updated to the latest css modules make the journey to css mastery as simple and painless as possible this book dives into advanced aspects of css based design such as responsive design modular css and css typography through a series of easy to follow tutorials you will learn practical css techniques you can immediately start using in your daily work css mastery advanced standards solutions is your indispensable guide to cutting edge css development this book demystifies the secrets of css while css is a relatively simple technology to learn it is a difficult one to master when you first start developing sites using css you will come across all kinds of infuriating browser bugs and inconsistencies it sometimes feels like there are a million and one different techniques to master spread across a bewildering array of websites the range of possibilities seems endless and makes for a steep and daunting learning curve while most books concentrate on basic skills this one is different assuming that you already know the basics and why you should be using css in your work and concentrating mainly on advanced techniques this new edition covers all of the css fundamentals such as the importance of meaningful markup how to structure and maintain your code and how the css layout model really works this new edition contains new examples and updated browser support information full coverage of modular css and responsive design essential information on css typography and layout control what you ll learn discover the best practice concepts in css design master the most important and tricky parts of css identify and fix the most common css problems deal with the most common bugs see the latest information on css features and support who this book is for intermediate and advanced web designers and developers it offers a quick recap of the main points of css while dispelling some common myths but then moves forward to delve into the higher level aspects of css it contains fully up to date information throughout and acts as a one stop shop for

current css best practices

pro javascript development is a practical guide for front end web developers who are experienced at building web pages with html css and javascript and now wish to advance their javascript skills to a higher level you will learn how to build large well structured high quality mobile optimized web sites and apps using the latest supported browser apis language features and tools this book teaches and shows you in practical hands on terms how you can master the performance reliability stability and code manageability of your javascript understand and write efficient object oriented and prototypal code including full understanding of the this keyword boost the performance of your javascript code architect large web applications using common design patterns write high quality javascript code and avoid the pitfalls most likely to cause errors manage code dependencies with amd and requirejs develop for mobile build games and set up a real time video chat using modern apis such as geolocation canvas and webrtc document your code as the professionals do write command line and web server applications in javascript with node js use build tools such as grunt and gulp to automate repetitive tasks and improve your development workflow using real world examples and applications that you ll build yourself pro javascript development has unique practical content that will make you a better javascript developer become a master of the latest javascript coding techniques and tools and harness its best capabilities today

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 sixth edition is ideal for students and professionals of all backgrounds and skill levels it s 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 formatting text colors backgrounds page layout and simple animation effects use css flexbox and grid layout for sophisticated and flexible page designs learn the ins and outs of responsive web design to make web pages look great on all devices get an introductory lesson in javascript programming and use it to add functionality to web pages understand the ways in which javascript has become central to the web development workflow create and optimize web images so they ll download as quickly as possible get to know the superpowers of the svg format the sixth edition features a completely rewritten and expanded javascript section written by aaron gustafson that provides more opportunities to practice writing code

are you unsure about your style sheets quality or whether you ve maxed out your options css optimization basics covers the necessary mindsets discusses the main optimization methods and presents useful resources to write higher quality css this is the book if you care about the craft of writing css and enjoy optimizing style sheets

what s the best way to develop for a gone wild that s easy simply scrap the rules you ve relied on all these years and embrace uncertainty as a core tenet of design in this practical book veteran developer rob larsen outlines the principles out what he calls the uncertain and shows you techniques necessary to successfully make the transition by combining web standards progressive enhancement an iterative approach to design and development and a desire to question the status quo your team can create sites and applications that will perform well in a wide range of present and future devices this guide points the way topics include navigating thousands of browser device os combinations focusing on optimal not absolute solutions feature detection modernizr and polyfills rwd mobile first and progressive enhancement uis that work with multiple user input modes image optimization svg and server side options the horribly complex world of web video the we want to see in the future

this festschrift is dedicated to joost pieter katoen in recognition of his outstanding research teaching and organizational successes joost pieter received his master s and later his ph d from the university of twente and his professional doctorate in engineering from eindhoven university of technology he had research positions at the university of erlangen nuremberg and philips research and visiting

professorships in france australia and the uk since 2004 he has been a professor at rwth aachen university and is part time associated with the university of twente joost pieter s main areas of research are formal methods computer aided verification concurrency theory probabilistic computation and semantics among many recognitions for this work he is an acm fellow he was elected as a member of the academia europaea the royal holland society of science and humanities the north rhine westphalian academy of science humanities and the arts and the leopoldina the german national academy of sciences he received an honorary doctorate from aalborg university he was awarded an erc advanced grant he has won best paper distinguished paper or test of time awards at key conferences such as etaps ieee srds popl concur and lopstr and he has given keynotes at dozens of major events he has chaired the steering committee of the european joint conferences on theory and practice of software etaps and the tacas conference he has been program chair general chair or program committee member of hundreds of major conferences and workshops and a board member of key journals he has served on research boards such as the epsrc doctoral committees school and university committees and ifip working groups and he coauthored principles of model checking a highly influential textbook throughout his career joost pieter has been a remarkably successful teacher and mentor supervising students and hosting postdoctoral researchers many of whom have won awards for their research and advanced to senior positions and he has collaborated in research and publications with a wide range of scientists these successes are reflected in the papers contributed to this volume

do you want to write beautiful structured and maintainable javascript by applying modern design patterns to the language do you want clean efficient manageable code want to stay up to date with the latest best practices if so the updated second edition of learning javascript design patterns is the ideal place to start author addy osmani shows you how to apply modern design patterns to javascript and react including modules mixins observers and mediators you ll learn about performance and rendering patterns such as server side rendering and islands architecture you ll also learn how architectural patterns like mvc mvp and mvvm are useful from the perspective of a modern web application developer this book explores architectural patterns for structuring your components and apps more than 20 design patterns in javascript and react applicable for developers at any level different pattern categories including creational structural and behavioral essential performance patterns including dynamic imports and code splitting rendering patterns such as server side rendering hydration islands architecture and more additionally you ll explore modern javascript syntax like javascript modules react patterns like hooks higher order components hocs and more to stay ahead in the ever evolving world of web development

understand the basic building blocks of webassembly and learn install and use various tools from the rust and webassembly ecosystem key features understand the rust programming language and webassembly concepts for web development build web mobile and embedded apps using webassembly enhance the scalability and resilience of your web apps book description rust is an open source language tuned toward safety concurrency and performance webassembly brings all the capabilities of the native world into the javascript world together rust and webassembly provide a way to create robust and performant web applications they help make your web applications blazingly fast and have small binaries developers working with javascript will be able to put their knowledge to work with this practical guide to developing faster and maintainable code complete with step by step explanations of essential concepts examples and self assessment questions you ll begin by exploring webassembly using the various tools provided by the ecosystem and understanding how to use webassembly and javascript together to build a high performing application you ll then learn binary code to work with a variety of tools that help you to convert native code into webassembly the book will introduce you to the world of rust and the ecosystem that makes it easy to build ship webassembly based applications by the end of this webassembly rust book you ll be able to create and ship your own webassembly applications using rust and javascript understand how to debug and use the right tools to optimize and deliver high performing applications what you will learn explore webassembly and the different tools available in the webassembly ecosystem understand the raw webassembly binary and the webassembly text format use the and javascript api with wasm bindgen optimize rust and webassembly for high performance run and debug webassembly and rust code explore various tools available in the rustwasm ecosystem who

this book is for javascript developers who want to deliver better performance and ship type safe code. rust developers or backend engineers looking to build full stack applications without worrying too much about javascript programming will also find the book useful.

With learning javascript design patterns you'll learn how to write beautiful, structured and maintainable javascript by applying classical and modern design patterns to the language. If you want to keep your code efficient, more manageable and up to date with the latest best practices, this book is for you. Explore many popular design patterns including modules, observers, facades and mediators. Learn how modern architectural patterns such as mvc, mvp and mvvm are useful from the perspective of a modern web application developer. This book also walks experienced javascript developers through modern module formats, how to namespace code effectively and other essential topics. Learn the structure of design patterns and how they are written. Understand different pattern categories including creational, structural and behavioral. Walk through more than 20 classical and modern design patterns in javascript, use several options for writing modular code including the module pattern, asynchronous module definition (AMD) and CommonJS. Discover design patterns implemented in the jQuery library. Learn popular design patterns for writing maintainable jQuery plugins. 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.

If you want to build your site's frontend with the single page application (SPA) model, this book shows you how to get the job done with Backbone.js. You'll learn how to create structured javascript applications using Backbone's own flavor of Model View Controller (MVC) architecture. Start with the basics of MVC SPA and Backbone, then get your hands dirty building sample applications: a simple todo list app, a RESTful book library app and a modular app with Backbone and RequireJS. Author Addy Osmani, an engineer for Google's Chrome team, also demonstrates advanced uses of the framework. Learn how Backbone.js brings MVC benefits to the client side, write code that can be easily read, structured and extended. Work with the Backbone Marionette and Thorax extension frameworks to solve common problems you'll encounter when using Backbone.js. Organize your code into modules with AMD and RequireJS. Paginate data for your collections with the Backbone Paginator plugin. Bootstrap a new Backbone.js application with boilerplate code, use Backbone with jQuery Mobile and resolve routing problems between the two. Test your Backbone apps with Jasmine, QUnit and SinonJS.

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 you through modern module formats, how to namespace code effectively and other essential topics. Learn the structure of design patterns and how they are written. Understand different pattern categories including creational, structural and behavioral. Walk through more than 20 classical and modern design patterns in javascript, use several options for writing modular code including the module pattern, asynchronous module definition (AMD) and CommonJS. Discover design patterns implemented in the jQuery library. Learn popular design patterns for writing maintainable jQuery plugins. Publisher description.

Provides a practical, modern guide to delivering high quality images on the web. From formats and compression to delivery and maintenance, the book focuses on what matters: modern approaches to image compression and image delivery, practical tools and techniques to automate optimization, responsive images, current and emerging image formats, how browsers load, decode and render images, CDNs, lazy loading, adaptive media loading and how to optimize for core vitals.

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