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## Web Development with Node and Express

### Leveraging the JavaScript Stack

*"O'Reilly Media, Inc."* Learn how to build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this hands-on guide, author Ethan Brown teaches you the fundamentals through the development of a fictional application that exposes a public website and a RESTful API. You'll also learn web architecture best practices to help you build single-page, multi-page, and hybrid web apps with Express. Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. With this book, frontend and backend engineers familiar with JavaScript will discover new ways of looking at web development. Create webpage templating system for rendering dynamic data Dive into request and response objects, middleware, and URL routing Simulate a production environment for testing and development Focus on persistence with document databases, particularly MongoDB Make your resources available to other programs with RESTful APIs Build secure apps with authentication, authorization, and HTTPS Integrate with social media, geolocation, and other third-party services Implement a plan for launching and maintaining your app Learn critical debugging skills This book covers Express 4.0.

### Mastering Node.js

*Packt Publishing Ltd* This book contains an extensive set of practical examples and an easy-to-follow approach to creating 3D objects.This book is great for anyone who already knows JavaScript and who wants to start creating 3D graphics that run in any browser. You don't need to know anything about advanced math or WebGL; all that is needed is a general knowledge of JavaScript and HTML. The required materials and examples can be freely downloaded and all tools used in this book are open source.

### Pro RESTful APIs

### Design, Build and Integrate with REST, JSON, XML and JAX-RS

*Apress* Discover the RESTful technologies, including REST, JSON, XML, JAX-RS web services, SOAP and more, for building today's microservices, big data applications, and web service applications. This book is based on a course the Oracle-based author is teaching for UC Santa Cruz Silicon Valley which covers architecture, design best practices and coding labs. Pro RESTful APIs: Design gives you all the fundamentals from the top down: from the top (architecture) through the middle (design) to the bottom (coding). This book is a must have for any microservices or web services developer building applications and services. What You'll Learn Discover the key RESTful APIs, including REST, JSON, XML, JAX, SOAP and more Use these for web services and data exchange, especially in today's big data context Harness XML, JSON, REST, and JAX-RS in examples and case studies Apply best practices to your solutions' architecture Who This Book Is For Experienced web programmers and developers.

### Functional JavaScript

### Introducing Functional Programming with Underscore.js

*"O'Reilly Media, Inc."* How can you overcome JavaScript language oddities and unsafe features? With this book, you'll learn how to create code that's beautiful, safe, and simple to understand and test by using JavaScript's functional programming support. Author Michael Fogus shows you how to apply functional-style concepts with Underscore.js, a JavaScript library that facilitates functional programming techniques. Sample code is available on GitHub at <https://github.com/funjs/book-source>. Fogus helps you think in a functional way to help you minimize complexity in the programs you build. If you're a JavaScript programmer hoping to learn functional programming techniques, or a functional programmer looking to learn JavaScript, this book is the ideal introduction. Use applicative programming techniques with first-class functions Understand how and why you might leverage variable scoping and closures Delve into higher-order functions—and learn how they take other functions as arguments for maximum advantage Explore ways to compose new functions from existing functions Get around JavaScript's limitations for using recursive functions Reduce, hide, or eliminate the footprint of state change in your programs Practice flow-based programming with chains and functional pipelines Discover how to code without using classes

### Spark: The Definitive Guide

### Big Data Processing Made Simple

*"O'Reilly Media, Inc."* Learn how to use, deploy, and maintain Apache Spark with this comprehensive guide, written by the creators of the open-source cluster-computing framework. With an emphasis on improvements and new features in Spark 2.0, authors Bill Chambers and Matei Zaharia break down Spark topics into distinct sections, each with unique goals. You'll explore the basic operations and common functions of Spark's structured APIs, as well as Structured Streaming, a new high-level API for building end-to-end streaming applications. Developers and system administrators will learn the fundamentals of monitoring, tuning, and debugging Spark, and explore machine learning techniques and scenarios for employing MLlib, Spark's scalable machine-learning library. Get a gentle overview of big data and Spark Learn about DataFrames, SQL, and Datasets—Spark's core APIs—through worked examples Dive into Spark's low-level APIs, RDDs, and execution of SQL and DataFrames Understand how Spark runs on a cluster Debug, monitor, and tune Spark clusters and applications Learn the power of Structured Streaming, Spark's stream-processing engine Learn how you can apply MLlib to a variety of problems, including classification or recommendation

## Beginning Node.js

*Apress* Beginning Node.js is your step-by-step guide to learning all the aspects of creating maintainable Node.js applications. You will see how Node.js is focused on creating high-performing, highly-scalable websites, and how easy it is to get started. Many front-end devs regularly work with HTML, CSS, PHP, even WordPress, but haven't yet got started with Node.js. This book explains everything for you from a beginner level, enabling you to start using Node.js in your projects right away. Using this book you will learn important Node.js concepts for server-side programming. You will begin with an easy-to-follow pure JavaScript primer, which you can skip if you're confident of your JS skills. You'll then delve into Node.js concepts such as streams and events, and the technology involved in building full-stack Node.js applications. You'll also learn how to test your Node.js code, and deploy your Node.js applications on the internet. Node.js is a great and simple platform to work with. It is lightweight, easy to deploy and manage. You will see how using Node.js can be a fun and rewarding experience - start today with Beginning Node.js.

## Industry 4.0: Trends in Management of Intelligent Manufacturing Systems

*Springer* This book provides a comprehensive exchange of information on current developments in the management of manufacturing systems and Industry 4.0. The book's contributions establish channels of communication and disseminate knowledge among professionals working in manufacturing and related institutions. It features submissions from experts, researchers, academicians and practitioners in relevant fields, who share their knowledge from the field of management of manufacturing systems. The book's main theme is Management of Manufacturing Systems with support for Industry 4.0, Logistics and Intelligent Manufacturing Systems and Applications, Cooperation management and its effective applications. Topics include Logistics, RFID Applications, Industrial and Smart Logistics, Intelligent Manufacturing Systems and Applications, New Materials and Smart Technologies for Industry 4.0, Enterprise Information Systems, Innovation and Knowledge Management, and Sequencing solutions for Lean Manufacturing.

## Professional WordPress Plugin Development

*John Wiley & Sons* Taking WordPress to the next level with advanced plugin development WordPress is used to create self-hosted blogs and sites, and it's fast becoming the most popular content management system (CMS) on the Web. Now you can extend it for personal, corporate and enterprise use with advanced plugins and this professional development guide. Learn how to create plugins using the WordPress plugin API: utilize hooks, store custom settings, craft translation files, secure your plugins, set custom user roles, integrate widgets, work with JavaScript and AJAX, create custom post types. You'll find a practical, solutions-based approach, lots of helpful examples, and plenty of code you can incorporate! Shows you how to develop advanced plugins for the most popular CMS platform today, WordPress Covers plugin fundamentals, how to create and customize hooks, internationalizing your site with translation files, securing plugins, how to create customer users, and ways to lock down specific areas for use in corporate settings Delves into advanced topics, including creating widgets and metaboxes, debugging, using JavaScript and AJAX, Cron integration, custom post types, short codes, multi site functions, and working with the HTTP API Includes pointers on how to debug, profile and optimize your code, and how to market your custom plugin Learn advanced plugin techniques and extend WordPress into the corporate environment.

## Beginning Node.js

*Apress* Beginning Node.js is your step-by-step guide to learning all the aspects of creating maintainable Node.js applications. You will see how Node.js is focused on creating high-performing, highly-scalable websites, and how easy it is to get started. Many front-end devs regularly work with HTML, CSS, PHP, even WordPress, but haven't yet got started with Node.js. This book explains everything for you from a beginner level, enabling you to start using Node.js in your projects right away. Using this book you will learn important Node.js concepts for server-side programming. You will begin with an easy-to-follow pure JavaScript primer, which you can skip if you're confident of your JS skills. You'll then delve into Node.js concepts such as streams and events, and the technology involved in building full-stack Node.js applications. You'll also learn how to test your Node.js code, and deploy your Node.js applications on the internet. Node.js is a great and simple platform to work with. It is lightweight, easy to deploy and manage. You will see how using Node.js can be a fun and rewarding experience - start today with Beginning Node.js. What you'll learn • Learn how JavaScript can help you be highly productive as a full-stack developer • How to set up an end to end Node.js development environment • Learn how to create reusable and maintainable Node.js modules • Patterns for sharing code between the server and the client • Create Node.js restful web services and websites • Store and retrieve your data using Document Databases • How to test your Node.js applications • How to deploy your applications on the internet Who this book is for Beginning Node.js is great for front-end developers looking to use Node.js in their websites. If you understand the basics of programming this book will teach you how you can leverage JavaScript to create full stack web-apps using Node.js. Node.js allows you to write code that runs both on the client and server. This allows you to reuse more code and deliver applications faster. From this book you will learn how to write maintainable server-side JavaScript using Node.js, how to test your code and deploy it on the internet. Table of Contents Chapter 1: Setting up for Node.js Development Chapter 2: Understanding Node.js Chapter 3: Core Node.js Chapter 4: Node.js Packages Chapter 5: Events and Streams Chapter 6: Getting Started with HTTP Chapter 7: Introducing Express Chapter 8: Persisting Data Chapter 9: Front-End Basics Chapter 10: Simplifying Callbacks Chapter 11: Debugging Chapter 12: Testing Chapter 13: Deployment and Scalability

## The Node Beginner Book

*Lulu.com*

## OpenLayers 2.10 Beginner's Guide

*Packt Publishing Ltd* Create, optimize, and deploy stunning cross-browser web maps with the OpenLayers JavaScript web mapping library.

## Rapid Prototyping with JS

## Agile JavaScript Development

*Azat Mardan* Rapid Prototyping with JS: Agile JavaScript Development is a hands-on book which introduces you to agile JavaScript web and mobile software development using the latest cutting-edge front-end and back-end technologies including: Node.js, Backbone.js, MongoDB and others. More information at <http://rpjs.co>. This book was borne out of frustration. I have been in software engineering for many years, and when I started learning Node.js and Backbone.js, I learned the hard way that their official documentation and the Internet lack in quick start guides and examples. Needless to say, it was virtually impossible to find all of the tutorials for JS-related modern technologies in one place. The best way to learn is to do, right? Therefore, I've used the approach of small simple examples, i.e., quick start guides, to expose myself to the new cool tech. After I was done with the basic apps, I needed some references and organization. I started to write this manual mostly for myself, so I can understand the concepts better and refer to the samples later. Then StartupMonthly and I taught a few 2-day intensive classes on the same subject -- helping experienced developers to jump-start their careers with agile JavaScript development. The manual we used was updated and iterated many times based on the feedback received. The end result is this book. What to Expect A typical reader of RPJS should expect a collection of quick start guides, tutorials and suggestions (e.g., Git workflow). There is a lot of coding and not much theory. All the theory we cover is directly related to some of the practical aspects, and essential for better understanding of technologies and specific approaches in dealing with them, e.g., JSONP and cross-domain calls. In addition to coding examples, the book covers virtually all setup and deployment step-by-step. You'll learn on the examples of Chat web/mobile applications starting with front-end components. There are a few versions of these applications, but by the end we'll put front-end and back-end together and deploy to the production environment. The Chat application contains all of the necessary components typical for a basic web app, and will give you enough confidence to continue developing on your own, apply for a job/promotion or build a startup! Who This Book is For The book is designed for advanced-beginner and intermediate-level web and mobile developers: somebody who has been (or still is) an expert in other languages like Ruby on Rails, PHP, Perl, Python or/and Java. The type of a developer who wants to learn more about JavaScript and Node.js related techniques for building web and mobile application prototypes fast. Our target user doesn't have time to dig through voluminous (or tiny, at the other extreme) official documentation. The goal of Rapid Prototyping with JS is not to make an expert out of a reader, but to help him/her to start building apps as soon as possible. Rapid Prototyping with JS: Agile JavaScript Development, as you can tell from the name, is about taking your idea to a functional prototype in the form of a web or a mobile application as fast as possible. This thinking adheres to the Lean Startup30 methodology; therefore, this book would be more valuable to startup founders, but big companies' employees might also find it useful, especially if they plan to add new skills to their resumes. What This Book is Not Rapid Prototyping with JS is neither a comprehensive book on several frameworks, libraries or technologies (or just a particular one), nor a reference for all the tips and tricks of web development.

Examples similar to ones in this book might be publicly available online. Even more so, if you're not familiar with fundamental programming concepts like loops, if/else statements, arrays, hashes, object and functions, you won't find them in Rapid Prototyping with JS.

## JavaScript and Node FUNdamentals

### A Collection of Essential Basics

*Azat Mardan* 1 JavaScript FUNdamentals: The Powerful and Misunderstood Language of The Web 1.1 Expressiveness 1.2 Loose Typing 1.3 Object Literal Notation 1.4 Functions 1.5 Arrays 1.6 Prototypal Nature 1.7 Conventions 1.8 No Modules 1.9 Immediately-Invoked Function Expressions (IIFEs) 1.10 Keyword "this" 1.11 Pitfalls 1.12 Further Learning 2 CoffeeScript FUNdamentals: The Better JavaScript 2.1 Semicolons, Whitespace and Parentheses 2.2 Vars 2.3 Conditions 2.4 Functions 2.5 Classes 2.6 Arrays and Slicing 2.7 Splats 2.8 Comprehensions 2.9 Conclusion 3 Backbone.js FUNdamentals: The Cornerstone of JavaScript MV\* Frameworks 3.1 Typical Backbone.js App Structure 3.2 Setting up Backbone.js App from Scratch 3.3 Dependencies for the Backbone.js Project 3.4 Working with Backbone.js Collections 3.5 Event Binding with Backbone.js and jQuery 3.6 Backbone.js Views and Subviews with Underscore.js 3.7 Super Simple Backbone Starter Kit 3.8 Conclusion 4 Node.js FUNdamentals: JavaScript on The Server 4.1 Read-Eval-Print Loop (a.k.a. Console) in Node.js 4.2 Launching Node.js Scripts 4.3 Node.js Process Information 4.4 Accessing Global Scope in Node.js 4.5 Exporting and Importing Modules 4.6 Buffer is a Node.js Super Data Type 4.7 \_\_dirname vs. process.cwd 4.8 Handy Utilities in Node.js 4.9 Reading and Writing from/to The File System in Node.js 4.10 Streaming Data in Node.js 4.11 Installing Node.js Modules with NPM 4.12 Hello World Server with HTTP Node.js Module 4.13 Debugging Node.js Programs 4.14 Taming Callbacks in Node.js 4.15 Introduction to Node.js with Ryan Dahl 4.16 Moving Forward with Express.js 5 Express.js FUNdamentals: The Most Popular Node.js Framework 5.1 Express.js Installation 5.2 Express.js Command-Line Interface 5.3 Routes in Express.js 5.4 Middleware as The Backbone of Express.js 5.5 Configuration of an Express.js App 5.6 Jade is Haml for Express.js/Node.js 5.7 Conclusion About The Express.js Framework 5.8 Update 6 About the Author 6.1 Errata 6.2 Contact Us

## Building Web Apps with WordPress

### WordPress as an Application Framework

*O'Reilly Media* WordPress is much more than a blogging platform. If you have basic PHP, HTML, CSS, and JavaScript experience you can use WordPress to develop fast, scalable, secure, and highly customized web apps, mobile apps, web services, and multisite networks of websites. Along with core WordPress functions and database schema, you'll learn how to build custom plugins, themes, and services for just about any kind of web or mobile application. In this updated second edition, Brian Messenlehner and Jason Coleman cover new features and functionality added to WordPress up to version 5.4. All code examples in the book are available on GitHub. Compare WordPress with traditional app development frameworks Use themes for views and plugins for backend functionality Get suggestions for choosing or building WordPress plugins Register custom post types (CPTs) and taxonomies Manage user accounts and roles, and access user data Build asynchronous behaviors with jQuery Use WordPress to develop mobile apps for iOS and Android Integrate PHP libraries, external APIs, and web service plugins Collect payments through ecommerce and membership plugins Learn how to speed up and scale your WordPress app Extend the WordPress REST API and create custom endpoints Learn about WordPress Gutenberg blocks development

## Shopify Application Development

*Packt Publishing Ltd* This is an easy-to follow manual that will guide you through the entire process of application development with Shopify, beginning with the installation and configuration of your local development environment for your app to the deployment of the app to Heroku. If you are a web developer or a designer who wants to extend Shopify stores by building apps, then this book is for you. A basic understanding of programming concepts and some familiarity with Shopify is all that is required to get started with Shopify app development.

## Node.js Design Patterns

*Packt Publishing Ltd* Get the best out of Node.js by mastering its most powerful components and patterns to create modular and scalable applications with ease About This Book Create reusable patterns and modules by leveraging the new features of Node.js Understand the asynchronous single thread design of node and grasp all its features and patterns to take advantage of various functions. This unique guide will help you get the most out of Node.js and its ecosystem. Who This Book Is For The book is meant for developers and software architects with a basic working knowledge of JavaScript who are interested in acquiring a deeper understanding of how to design and develop enterprise-level Node.js applications. Basic knowledge of Node.js is also helpful to get the most out of this book. What You Will Learn Design and implement a series of server-side JavaScript patterns so you understand why and when to apply them in different use case scenarios Become comfortable with writing asynchronous code by leveraging constructs such as callbacks, promises, generators and the async-await syntax Identify the most important concerns and apply unique tricks to achieve higher scalability and modularity in your Node.js application Untangle your modules by organizing and connecting them coherently Reuse well-known techniques to solve common design and coding issues Explore the latest trends in Universal JavaScript, learn how to write code that runs on both Node.js and the browser and leverage React and its ecosystem to implement universal applications In Detail Node.js is a massively popular software platform that lets you use JavaScript to easily create scalable server-side applications. It allows you to create efficient code, enabling a more sustainable way of writing software made of only one language across the full stack, along with extreme levels of reusability, pragmatism, simplicity, and collaboration. Node.js is revolutionizing the web and the way people and companies create their software. In this book, we will take you on a journey across various ideas and components, and the challenges you would commonly encounter while designing and developing software using the Node.js platform. You will also discover the "Node.js way" of dealing with design and coding decisions. The book kicks off by exploring the basics of Node.js describing its asynchronous single-threaded architecture and the main design patterns. It then shows you how to master the asynchronous control flow patterns, and the stream component and it culminates into a detailed list of Node.js implementations of the most common design patterns as well as some specific design patterns that are exclusive to the Node.js world. Lastly, it dives into more advanced concepts such as Universal Javascript, and scalability' and it's meant to conclude the journey by giving the reader all the necessary concepts to be able to build an enterprise grade application using Node.js. Style and approach This book takes its intended readers through a comprehensive explanation to create a scalable and efficient real-time server-side apps.

## Three.js Cookbook

*Packt Publishing Ltd* This book is ideal for anyone who already knows JavaScript and would like to get a broad understanding of Three.js quickly, or for those of you who have a basic grasp of using Three.js but want to really make an impact with your 3D visualizations by learning its advanced features. To apply the recipes in this book you don't need to know anything about WebGL; all you need is some general knowledge about JavaScript and HTML.

## Learning Node

*O'Reilly Media, Inc.* Provides information on writing scalable network applications using the JavaScript-based platform.

## AngularJS in Action

*Simon and Schuster* Summary AngularJS in Action covers everything you need to know to get started with the AngularJS framework. As you read, you'll explore all the individual components of the framework and learn how to customize and extend them. You'll discover the emerging patterns for web application architecture and tackle required tasks like communicating with a web server back-end. Along the way, you'll see AngularJS in action by building real world applications with thoroughly commented code. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology AngularJS is a JavaScript-based framework that extends HTML, so you can create dynamic, interactive web applications in the same way you create standard static pages. Out of the box, Angular provides most of the functionality you'll need for basic apps, but you won't want to stop there. Intuitive, easy to customize, and test-friendly, Angular practically begs you to build more interesting apps. About the Book AngularJS in Action teaches you everything you need to get started with AngularJS. As you read, you'll learn to build interactive single-page web

interfaces, apply emerging patterns like MVVM, and tackle key tasks like communicating with back-end servers. All examples are supported by clear explanations and illustrations along with fully annotated code listings. This book assumes you know at least some JavaScript. No prior exposure to AngularJS is required. [What's Inside](#) [Get started with AngularJS](#) [Write your own components](#) [Best practices for application architecture](#) [Progressively build a full-featured application](#) [Covers Angular JS 1.3](#) [Sample application updated to the latest version of Angular](#) [About the Author](#) [Lukas Ruebbelke is a full-time web developer and an active contributor to the AngularJS community.](#) [Table of Contents](#) [PART 1 GET ACQUAINTED WITH ANGULARJS](#) [Hello AngularJS](#) [Structuring your AngularJS application](#)[PART 2 MAKE SOMETHING WITH ANGULARJS](#) [Views and controllers](#) [Models and services](#) [Directives](#) [Animations](#) [Structuring your site with routes](#) [Forms and validations](#) [APPENDIXES](#) [Setting up Karma](#) [Setting up a Node.js server](#) [Setting up a Firebase server](#) [Running the app](#)

## Kubernetes: Up and Running

### Dive Into the Future of Infrastructure

"*O'Reilly Media, Inc.*" [Legend](#) has it that Google deploys over two billion application containers a week. How's that possible? Google revealed the secret through a project called Kubernetes, an open source cluster orchestrator (based on its internal Borg system) that radically simplifies the task of building, deploying, and maintaining scalable distributed systems in the cloud. This practical guide shows you how Kubernetes and container technology can help you achieve new levels of velocity, agility, reliability, and efficiency. Authors Kelsey Hightower, Brendan Burns, and Joe Beda—who've worked on Kubernetes at Google and other organizations—explain how this system fits into the lifecycle of a distributed application. You will learn how to use tools and APIs to automate scalable distributed systems, whether it is for online services, machine-learning applications, or a cluster of Raspberry Pi computers. Explore the distributed system challenges that Kubernetes addresses [Dive into containerized application development, using containers such as Docker](#) [Create and run containers on Kubernetes, using the docker image format and container runtime](#) [Explore specialized objects essential for running applications in production](#) [Reliably roll out new software versions without downtime or errors](#) [Get examples of how to develop and deploy real-world applications in Kubernetes](#)

## Mining the Social Web

### Analyzing Data from Facebook, Twitter, LinkedIn, and Other Social Media Sites

"*O'Reilly Media, Inc.*" [Provides information on data analysis from a variety of social networking sites, including Facebook, Twitter, and LinkedIn.](#)

## Programming the Mobile Web

*O'Reilly Media* Today's market for mobile apps goes beyond the iPhone to include BlackBerry, Nokia, Windows Phone, and smartphones powered by Android, webOS, and other platforms. If you're an experienced web developer, this book shows you how to build a standard app core that you can extend to work with specific devices. You'll learn the particulars and pitfalls of building mobile apps with HTML, CSS, and other standard web tools. You'll also explore platform variations, finicky mobile browsers, Ajax design patterns for mobile, and much more. Before you know it, you'll be able to create mashups using Web 2.0 APIs in apps for the App Store, App World, OVI Store, Android Market, and other online retailers. [Learn how to use your existing web skills to move into mobile development](#) [Discover key differences in mobile app design and navigation, including touch devices](#) [Use HTML, CSS, JavaScript, and Ajax to create effective user interfaces in the mobile environment](#) [Learn about technologies such as HTML5, XHTML MP, and WebKit extensions](#) [Understand variations of platforms such as Symbian, BlackBerry, webOS, Bada, Android, and iOS for iPhone and iPad](#) [Bypass the browser to create offline apps and widgets using web technologies](#)

## Web Programming with HTML5, CSS, and JavaScript

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

## Design of Water Supply Pipe Networks

*John Wiley & Sons* This authoritative resource consolidates comprehensive information on the analysis and design of water supply systems into one practical, hands-on reference. After an introduction and explanation of the basic principles of pipe flows, it covers topics ranging from cost considerations to optimal water distribution design to various types of systems to writing water distribution programs. With numerous examples and closed-form design equations, this is the definitive reference for civil and environmental engineers, water supply managers and planners, and postgraduate students.

## Speaking JavaScript

### An In-Depth Guide for Programmers

"*O'Reilly Media, Inc.*" Like it or not, JavaScript is everywhere these days--from browser to server to mobile--and now you, too, need to learn the language or dive deeper than you have. This concise book starts with a quick-start guide that teaches you just enough of the language to help you be productive right away. More experienced JavaScript programmers will find a complete and easy-to-read reference that covers each language feature in depth.

## Microsoft Azure Essentials - Fundamentals of Azure

*Microsoft Press* [Microsoft Azure Essentials](#) from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The first ebook in the series, [Microsoft Azure Essentials: Fundamentals of Azure](#), introduces developers and IT professionals to the wide range of capabilities in Azure. The authors - both Microsoft MVPs in Azure - present both conceptual and how-to content for key areas, including: [Azure Websites](#) and [Azure Cloud Services](#) [Azure Virtual Machines](#) [Azure Storage](#) [Azure Virtual Networks](#) [Databases](#) [Azure Active Directory](#) [Management tools](#) [Business scenarios](#) Watch [Microsoft Press's blog](#) and [Twitter \(@MicrosoftPress\)](#) to learn about other free ebooks in the "Microsoft Azure Essentials" series.

## Microsoft Dynamics 365 Extensions Cookbook

*Packt Publishing Ltd* [More than 80 recipes to help you leverage the various extensibility features available for Microsoft Dynamics and solve problems easily](#) [About This Book](#) [Customize, configure, and extend the vanilla features of Dynamics 365 to deliver bespoke CRM solutions fit for any organization](#) [Implement business logic using point-and-click configuration, plugins, and client-side scripts with MS Dynamics 365](#) [Built a DevOps pipeline as well as Integrate Dynamics 365 with Azure and other platforms](#) [Who This Book Is For](#) This book is for developers, administrators, consultants, and power users who want to learn about best practices when extending Dynamics 365 for enterprises. You are expected to have a basic understand of the Dynamics CRM/365 platform. [What You Will Learn](#) [Customize, configure, and extend Microsoft Dynamics 365](#) [Create business process automation](#) [Develop client-side extensions to add features to the Dynamics 365 user interface](#) [Set up a security model to securely manage data with Dynamics 365](#) [Develop and deploy clean code plugins to implement a wide range of custom behaviors](#) [Use third-party applications, tools, and patterns to integrate Dynamics 365](#)

with other platforms Integrate with Azure, Java, SSIS, PowerBI, and Octopus Deploy Build an end-to-end DevOps pipeline for Dynamics 365 In Detail Microsoft Dynamics 365 is a powerful tool. It has many unique features that empower organisations to bridge common business challenges and technology pitfalls that would usually hinder the adoption of a CRM solution. This book sets out to enable you to harness the power of Dynamics 365 and cater to your unique circumstances. We start this book with a no-code configuration chapter and explain the schema, fields, and forms modeling techniques. We then move on to server-side and client-side custom code extensions. Next, you will see how best to integrate Dynamics 365 in a DevOps pipeline to package and deploy your extensions to the various SDLC environments. This book also covers modern libraries and integration patterns that can be used with Dynamics 365 (Angular, 3 tiers, and many others). Finally, we end by highlighting some of the powerful extensions available. Throughout we explain a range of design patterns and techniques that can be used to enhance your code quality; the aim is that you will learn to write enterprise-scale quality code. Style and approach This book takes a recipe-based approach, delivering practical examples and use cases so that you can identify the best possible approach to extend your Dynamics 365 deployment and tackle your specific business problems.

## Building Web Apps with WordPress

"O'Reilly Media, Inc." WordPress is much more than a blogging platform. As this practical guide clearly demonstrates, you can use WordPress to build web apps of any type—not mere content sites, but full-blown apps for specific tasks. If you have PHP experience with a smattering of HTML, CSS, and JavaScript, you'll learn how to use WordPress plugins and themes to develop fast, scalable, and secure web apps, native mobile apps, web services, and even a network of multiple WordPress sites. The authors use examples from their recently released SchoolPress app to explain concepts and techniques throughout the book. All code examples are available on GitHub. Compare WordPress with traditional app development frameworks Use themes for views, and plugins for backend functionality Get suggestions for choosing WordPress plugins—or build your own Manage user accounts and roles, and access user data Build asynchronous behaviors in your app with jQuery Develop native apps for iOS and Android, using wrappers Incorporate PHP libraries, external APIs, and web service plugins Collect payments through ecommerce and membership plugins Use techniques to speed up and scale your WordPress app

## The Docker Book

## Containerization Is the New Virtualization

James Turnbull Updated for Docker Community Edition v18.09! Docker book designed for SysAdmins, SREs, Operations staff, Developers and DevOps who are interested in deploying the open source container service Docker. In this book, we'll walk you through installing, deploying, managing, and extending Docker. We're going to do that by first introducing you to the basics of Docker and its components. Then we'll start to use Docker to build containers and services to perform a variety of tasks. We're going to take you through the development lifecycle, from testing to production, and see where Docker fits in and how it can make your life easier. We'll make use of Docker to build test environments for new projects, demonstrate how to integrate Docker with continuous integration workflow, and then how to build application services and platforms. Finally, we'll show you how to use Docker's API and how to extend Docker yourself. We'll teach you how to: \* Install Docker. \* Take your first steps with a Docker container. \* Build Docker images. \* Manage and share Docker images. \* Run and manage more complex Docker containers. \* Deploy Docker containers as part of your testing pipeline. \* Build multi-container applications and environments. \* Learn about orchestration using Compose and Swarm for the orchestration of Docker containers and Consul for service discovery. \* Explore the Docker API. \* Getting Help and Extending Docker.

## Advanced Node.js Development

## Master Node.js by building real-world applications

Packt Publishing Ltd Takes you through creating your own API, building a full real-time web app, securing your Node systems, and practical applications of the latest Async and Await technologies. It maps out everything in a comprehensive, easy-to-follow package designed to get you up and running quickly. Key Features Entirely project-based and practical Explains the "why" of Node.js features, not just the "how", providing with a deep understanding and enabling you to easily apply concepts in your own applications Covers the full range of technologies around Node.js – npm, MongoDB, version control with Git, and many more Book Description Advanced Node.js Development is a practical, project-based book that provides you with all you need to progress as a Node.js developer. Node is a ubiquitous technology on the modern web, and an essential part of any web developer's toolkit. If you're looking to create real-world Node applications, or you want to switch careers or launch a side-project to generate some extra income, then you're in the right place. This book was written around a single goal: turning you into a professional Node developer capable of developing, testing, and deploying real-world production applications. There's no better time to dive in. According to the 2018 Stack Overflow Survey, Node is in the top ten for back-end popularity and back-end salary. This book is built from the ground up around the latest version of Node.js (version 9.x.x). You'll be learning all the cutting-edge features available only in the latest software versions. This book delivers advanced skills that you need to become a professional Node developer. Along this journey you'll create your own API, you'll build a full real-time web app and create projects that apply the latest Async and Await technologies. Andrew Mead maps everything out for you in this book so that you can learn how to build powerful Node.js projects in a comprehensive, easy-to-follow package designed to get you up and running quickly. What you will learn Develop, test, and deploy real-world Node.js applications Master Node.js by building practical, working examples Use awesome third-party Node modules such as MongoDB, Mongoose, Socket.io, and Express Create real-time web applications Explore async and await in ES7 Who this book is for This book is for anyone looking to launch their own Node applications, switch careers, or freelance as a Node developer. You should have a basic understanding of JavaScript in order to follow this book. This book follows directly on from Learning Node.js Development, but more advanced readers can benefit from this book without having read the first part.

## Getting MEAN with Mongo, Express, Angular, and Node

Simon and Schuster Summary Getting MEAN, Second Edition teaches you how to develop full-stack web applications using the MEAN stack. This edition was completely revised and updated to cover MongoDB 4, Express 4, Angular 7, Node 11, and the latest mainstream release of JavaScript ES2015. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Juggling languages mid-application can radically slow down a full-stack web project. The MEAN stack—MongoDB, Express, Angular, and Node—uses JavaScript end to end, maximizing developer productivity and minimizing context switching. And you'll love the results! MEAN apps are fast, powerful, and beautiful. About the Book Getting MEAN, Second Edition teaches you how to develop full-stack web applications using the MEAN stack. Practical from the very beginning, the book helps you create a static site in Express and Node. Expanding on that solid foundation, you'll integrate a MongoDB database, build an API, and add an authentication system. Along the way, you'll get countless pro tips for building dynamic and responsive data-driven web applications! What's inside MongoDB 4, Express 4, Angular 7, and Node.js 11 MEAN stack architecture Mobile-ready web apps Best practices for efficiency and reusability About the Reader Readers should be comfortable with standard web application designs and ES2015-style JavaScript. About the Author Simon Holmes and Clive Harber are full-stack developers with decades of experience in JavaScript and other leading-edge web technologies. Table of Contents PART 1 - SETTING THE BASELINE Introducing full-stack development Designing a MEAN stack architecture PART 2 - BUILDING A NODE WEB APPLICATION Creating and setting up a MEAN project Building a static site with Node and Express Building a data model with MongoDB and Mongoose Writing a REST API: Exposing the MongoDB database to the application Consuming a REST API: Using an API from inside Express PART 3 - ADDING A DYNAMIC FRONT END WITH ANGULAR Creating an Angular application with TypeScript Building a single-page application with Angular: Foundations Building a single-page application with Angular: The next level PART 4 - MANAGING AUTHENTICATION AND USER SESSIONS Authenticating users, managing sessions, and securing APIs Using an authentication API in Angular applications

## Programming JavaScript Applications

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

"O'Reilly Media, Inc." 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

## Mastering Blockchain

*Packt Publishing Ltd* Distributed ledgers, decentralization and smart contracts explained About This Book Get to grips with the underlying technical principles and implementations of blockchain. Build powerful applications using Ethereum to secure transactions and create smart contracts. Explore cryptography, mine cryptocurrencies, and solve scalability issues with this comprehensive guide. Who This Book Is For This book appeals to those who wish to build fast, highly secure, transactional applications. This book is for those who are familiar with the concept of blockchain and are comfortable with a programming language. What You Will Learn Master the theoretical and technical foundations of blockchain technology Fully comprehend the concept of decentralization, its impact and relationship with blockchain technology Experience how cryptography is used to secure data with practical examples Grasp the inner workings of blockchain and relevant mechanisms behind Bitcoin and alternative cryptocurrencies Understand theoretical foundations of smart contracts Identify and examine applications of blockchain technology outside of currencies Investigate alternate blockchain solutions including Hyperledger, Corda, and many more Explore research topics and future scope of blockchain technology In Detail Blockchain is a distributed database that enables permanent, transparent, and secure storage of data. The blockchain technology is the backbone of cryptocurrency – in fact, it's the shared public ledger upon which the entire Bitcoin network relies – and it's gaining popularity with people who work in finance, government, and the arts. Blockchain technology uses cryptography to keep data secure. This book gives a detailed description of this leading technology and its implementation in the real world. This book begins with the technical foundations of blockchain, teaching you the fundamentals of cryptography and how it keeps data secure. You will learn about the mechanisms behind cryptocurrencies and how to develop applications using Ethereum, a decentralized virtual machine. You will explore different blockchain solutions and get an exclusive preview into Hyperledger, an upcoming blockchain solution from IBM and the Linux Foundation. You will also be shown how to implement blockchain beyond currencies, scalability with blockchain, and the future scope of this fascinating and powerful technology. Style and approach This comprehensive guide allows you to build smart blockchain applications and explore the power of this database. The book will let you quickly brush up on the basics of the blockchain database, followed by advanced implementations of blockchain in currency, smart contracts, decentralization, and so on.

## JavaScript Everywhere

### Building Cross-Platform Applications with GraphQL, React, React Native, and Electron

JavaScript is the little scripting language that could. Once used chiefly to add interactivity to web browser windows, JavaScript is now a primary building block of powerful and robust applications. In this practical book, new and experienced JavaScript developers will learn how to use this language to create APIs as well as web, mobile, and desktop applications. Author and engineering leader Adam D. Scott covers technologies such as Node.js, GraphQL, React, React Native, and Electron. Ideal for developers who want to build full stack applications and ambitious web development beginners looking to bootstrap a startup, this book shows you how to create a single CRUD-style application that will work across several platforms. Explore GraphQL's simple process for querying data Learn about shared authentication for APIs, web apps, and native applications Build performant web applications with React and Styled Components Use React Native to write cross-platform applications for iOS and Android that compile to native code Learn how to write desktop applications with Electron

## The Art of Monitoring

*James Turnbull* A hands-on and introductory guide to the art of modern application and infrastructure monitoring and metrics. We start small and then build on what you learn to scale out to multi-site, multi-tier applications. The book is written for both developers and sysadmins. We focus on building monitored and measurable applications. We also use tools that are designed to handle the challenges of managing Cloud, containerised and distributed applications and infrastructure. In the book we'll deliver: \* An introduction to monitoring, metrics and measurement. \* A scalable framework for monitoring hosts (including Docker and containers), services and applications built on top of the Riemann event stream processor. \* Graphing and metric storage using Graphite and Grafana. \* Logging with Logstash. \* A framework for high quality and useful notifications \* Techniques for developing and building monitorable applications \* A capstone that puts all the pieces together to monitor a multi-tier application.

## Learning Web Design

### A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics

"O'Reilly Media, Inc." 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

## Ansible

### From Beginner to Pro

*Apress* This book is your concise guide to Ansible, the simple way to automate apps and IT infrastructure. In less than 250 pages, this book takes you from knowing nothing about configuration management to understanding how to use Ansible in a professional setting. You will learn how to create an Ansible playbook to automatically set up an environment, ready to install an open source project. You'll extract common tasks into roles that you can reuse across all your projects, and build your infrastructure on top of existing open source roles and modules that are available for you to use. You will learn to build your own modules to perform actions specific to your business. By the end you will create an entire cluster of virtualized machines, all of which have your applications and all their dependencies installed automatically. Finally, you'll test your Ansible playbooks. Ansible can do as much or as little as you want it to. Ansible: From Beginner to Pro will teach you the key skills you need to be an Ansible professional. You'll be writing roles and modules and creating entire environments without human intervention in no time at all – add it to your library today. What You Will Learn Learn why Ansible is so popular and how to download and install it Create a playbook that automatically downloads and installs a popular open source project Use open source roles to complete common tasks, and write your own specific to your business Extend Ansible by writing your own modules Test your infrastructure using Test Kitchen and ServerSpec Who This Book Is For Developers that currently create development and production environments by hand. If you find yourself running apt-get install regularly, this book is for you. Ansible adds reproducibility and saves you time all at once. Ansible: From Beginner to Pro is great for any developer wanting to enhance their skillset and learn new tools.

## Sams Teach Yourself HTML, CSS, and JavaScript All in One

*Sams Publishing 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.

## Learn Python 3 the Hard Way

## A Very Simple Introduction to the Terrifyingly Beautiful World of Computers and Code

*Addison-Wesley Professional You Will Learn Python 3!* Zed Shaw has perfected the world's best system for learning Python 3. Follow it and you will succeed—just like the millions of beginners Zed has taught to date! You bring the discipline, commitment, and persistence; the author supplies everything else. In *Learn Python 3 the Hard Way*, you'll learn Python by working through 52 brilliantly crafted exercises. Read them. Type their code precisely. (No copying and pasting!) Fix your mistakes. Watch the programs run. As you do, you'll learn how a computer works; what good programs look like; and how to read, write, and think about code. Zed then teaches you even more in 5+ hours of video where he shows you how to break, fix, and debug your code—live, as he's doing the exercises. Install a complete Python environment. Organize and write code. Fix and break code. Basic mathematics. Variables. Strings and text. Interact with users. Work with files. Looping and logic. Data structures using lists and dictionaries. Program design. Object-oriented programming. Inheritance and composition. Modules, classes, and objects. Python packaging. Automated testing. Basic game development. Basic web development. It'll be hard at first. But soon, you'll just get it—and that will feel great! This course will reward you for every minute you put into it. Soon, you'll know one of the world's most powerful, popular programming languages. You'll be a Python programmer. This book is perfect for total beginners with zero programming experience. Junior developers who know one or two languages. Returning professionals who haven't written code in years. Seasoned professionals looking for a fast, simple, crash course in Python 3.

## WordPress For Dummies

*John Wiley & Sons*