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*Creating Evolvable Hypermedia Applications*



*Building*

# Hypermedia APIs with HTML5 & Node

**O'REILLY™**

*Mike Amundsen*

# Building Hypermedia Apis With Html5 And Node

**Eric Elliott**



## **Building Hypermedia Apis With Html5 And Node:**

**Building Hypermedia APIs with HTML5 and Node** Mike Amundsen, Michael Amundsen, 2011-11-30 With this concise book you ll learn the art of building hypermedia APIs that don t simply run on the Web but that actually exist in the Web You ll start with the general principles and technologies behind this architectural approach and then dive hands on into three fully functional API examples Too many APIs rely on concepts rooted in desktop and local area network patterns that don t scale well costly solutions that are difficult to maintain over time This book shows system architects and web developers how to design and implement human and machine readable web services that remain stable and flexible as they scale Learn the H Factors for representing application metadata across all media types and formats Understand the four basic design elements for authoring hypermedia types Convert a simple read only XML based media type into a successful API design Examine the challenges and advantages of designing a hypermedia type with JSON Use HTML5 s rich set of hypermedia controls in the API design process Learn the details of documenting publishing and registering media type designs and link relation types

**Building Hypermedia APIs with HTML5 and Node** Lee Rubio, 2018-04-10 You ll start with the general principles and technologies behind this architectural approach and then dive hands on into three fully functional API examples This book shows system architects and web developers how to design and implement human and machine readable web services that remain stable and flexible as they scale you ll learn the art of building hypermedia APIs that don t simply run on the Web but that actually exist in the Web

*Building Hypermedia APIs with HTML5 and Node* Michael Amundsen, 2012 What s Next Chapter 2 XML Hypermedia Scenario Designing the Maze XML Media Type Identifying the State Transitions Selecting the Basic Design Elements The Maze XML Document The collection element The item element The cell element The error element Sample Data The Server Code The Collection State Response The Item State Response The Cell State Response The Exit State Response The Client Code Maze Game Example HTML5 Markup JavaScript Maze Bot Example HTML5 Markup JavaScript Summary Chapter 3 JSON Hypermedia Scenario Designing the Collection JSON Media Type

**RESTful Web API Patterns and Practices Cookbook** Mike Amundsen, 2022-10-17 Many organizations today orchestrate and maintain apps that rely on other people s services Software designers developers and architects in those companies often work to coordinate and maintain apps based on existing microservices including third party services that run outside their ecosystem This cookbook provides proven recipes to help you get those many disparate parts to work together in your network Author Mike Amundsen provides step by step solutions for finding connecting and maintaining applications designed and built by people outside the organization Whether you re working on human centric mobile apps or creating high powered machine to machine solutions this guide shows you the rules routines commands and protocols the glue that integrates individual microservices so they can function together in a safe scalable and reliable way Design and build individual microservices that can successfully interact on the open web Increase interoperability by designing services that share a common

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**RESTful Web Clients** Mike Amundsen, 2017-02-13 Powerful web based REST and hypermedia style APIs are becoming more common every day but instead of applying the same techniques and patterns to hypermedia clients many developers rely on custom client code With this practical guide you'll learn how to move from one off implementations to general purpose client apps that are stable flexible and reusable Author Mike Amundsen provides extensive background easy to follow examples illustrative dialogues and clear recommendations for building effective hypermedia based client applications Along the way you'll learn how to harness many of the basic principles that underpin the Web Convert HTML only web apps into a JSON API service Overcome the challenges of maintaining plain JSON style client apps Decouple the output format from the internal object model with the representor pattern Explore client apps built with HAL Hypertext Application Language Tackle reusable clients with the Request Parse Wait Loop RPW pattern Learn the pros and cons of building client apps with the Siren content type Deal with API versioning by adopting a change over time aesthetic Compare how JSON HAL Siren and Collection JSON clients handle the Objects Addresses Actions Challenge Craft a single client application that can consume multiple services

**Designing Evolvable Web APIs with ASP.NET** Glenn Block, Pablo Cibraro, Pedro Felix, Howard Dierking, Darrel Miller, 2014-03-13 Design and build Web APIs for a broad range of clients including browsers and mobile devices that can adapt to change over time This practical hands on guide takes you through the theory and tools you need to build evolvable HTTP services with Microsoft's ASP.NET Web API framework In the process you'll learn how design and implement a real world Web API Ideal for experienced .NET developers this book's sections on basic Web API theory and design also apply to developers who work

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also describes best practices for documenting and generating APIs and client libraries testing applications with service dependencies optimizing services for client performance and much more Throughout the book you will follow the development of a sample project to see how to apply the best practices described What You Will Learn Apply guidelines and best practices for developing projects that use microservices Define a practical microservices architecture at the beginning of a project that allows for fast development Define and build APIs based on real world best practices Build services that easily scale by using tools available in most programming languages Test applications in a distributed environment Who This Book is For Software engineers and web developers who have heard about microservices and want to either move the project applications they work on to a service oriented environment or want to start a new project knowing that building services helps with ease of scaling and maintainability The book is a reference for developers who have a desire to build software in smaller more focused and manageable chunks but do not know how to get started

**Web Services Foundations** Athman Bouguettaya, Quan Z. Sheng, Florian Daniel, 2013-09-04 Web services and Service Oriented Computing SOC have become thriving areas of academic research joint university industry research projects and novel IT products on the market SOC is the computing paradigm that uses Web services as building blocks for the engineering of composite distributed applications out of the reusable application logic encapsulated by Web services Web services could be considered the best known and most standardized technology in use today for distributed computing over the Internet Web Services Foundations is the first installment of a two book collection covering the state of the art of both theoretical and practical aspects of Web services and SOC research This book specifically focuses on the foundations of Web services and SOC and covers among others Web service composition non functional aspects of Web services Web service selection and recommendation and assisted Web service composition The editors collect advanced topics in the second book of the collection Advanced Web Services Springer 2013 Both books together comprise approximately 1400 pages and are the result of an enormous community effort that involved more than 100 authors comprising the world s leading experts in this field

Hypermedia in 15 Minutes Mike Amundsen, 2017 Could every API seamlessly interoperate with every other API using a common lingua franca Yes they could and should and the way forward is via hypermedia In this short video Mike Amundsen reviews the history and power of the Web s hypermedia links and forms before explaining how API service providers and client app developers can take advantage of hypermedia to create better more available and more resilient applications for the internet Discover what hypermedia means and how it can be a game changer for both server and client Learn about building web APIs that update over time without breaking existing client applications Explore the idea of writing a general use client that can work with multiple hypermedia enabled APIs Mike Amundsen is Director of Architecture for the API Academy where he works with companies around the globe to provide insight on how best to capitalize on the opportunities APIs present to both consumers and the enterprise A respected consultant and sought after conference speaker Mike is author of numerous papers and books on

network architecture and web development including Building Hypermedia APIs with HTML5 and Node Creating Evolvable Hypermedia Applications and RESTful Web Clients both published by O Reilly Media

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**SOA with REST** Thomas Erl, Benjamin Carlyle, Cesare Pautasso, Raj Balasubramanian, 2012-08-06 The Definitive Guide to Building Web Centric SOA with REST The World Wide Web is based on the most successful technology architecture in history It has changed how we view access and exchange information and with the advent of REST it has also provided us with compelling ways to build and improve automation solutions REST provides a great deal of guidance to ensure that an architecture and its automation logic are technically sound though it is still your responsibility to build services that actually add value to your business SOA with REST is the first comprehensive tutorial and reference for designing and building RESTful services as part of service oriented solutions and in conjunction with service oriented architecture SOA This book demonstrates that REST is not only a suitable medium for building truly service oriented solutions but also that the service oriented architectural model is a necessary foundation for REST technology architectures to realize their full business potential The authors provide thorough mapping of REST constraints and architectural goals with service orientation principles and SOA characteristics Using real world examples they show how to leverage REST's simplicity flexibility and low overhead without compromising the power or manageability of service oriented solutions and architectures This ebook will be valuable to IT architects developers and any practitioner seeking to use SOA and REST together

**Continuous API Management** Mehdi Medjaoui, Erik Wilde, Ronnie Mitra, Mike Amundsen, 2018-11-14 A lot of work is required to release an API but the effort doesn't always pay off Overplanning before an API matures is a wasted investment while underplanning can lead to disaster This practical guide provides maturity models for individual APIs and multi API landscapes to help you invest the right human and

company resources for the right maturity level at the right time How do you balance the desire for agility and speed with the need for robust and scalable operations Four experts from the API Academy show software architects program directors and product owners how to maximize the value of their APIs by managing them as products through a continuous life cycle Learn which API decisions you need to govern and how and where to do so Design deploy and manage APIs using an API as a product AaaP approach Examine ten pillars that form the foundation of API product work Learn how the continuous improvement model governs changes throughout an API s lifetime Explore the five stages of a complete API product life cycle Delve into team roles needed to design build and maintain your APIs Learn how to manage your API landscape the set of APIs published by your organization *Restful Web API Patterns and Practices Cookbook* Amundsen, Mike,2022-11-15

**Programming JavaScript Applications** Eric Elliott,2014-06-26 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 **Microservice Architecture** Irakli Nadareishvili,Ronnie Mitra,Matt McLarty,Mike

Amundsen,2016-07-18 Microservices can have a positive impact on your enterprise just ask Amazon and Netflix but you can fall into many traps if you don t approach them in the right way This practical guide covers the entire microservices landscape including the principles technologies and methodologies of this unique modular style of system building You ll learn about the experiences of organizations around the globe that have successfully adopted microservices In three parts this book explains how these services work and what it means to build an application the Microservices Way You ll explore a design based approach to microservice architecture with guidance for implementing various elements And you ll get a set of recipes and practices for meeting practical organizational and cultural challenges to microservice adoption Learn how microservices can help you drive business objectives Examine the principles practices and culture that define microservice architectures Explore a model for creating complex systems and a design process for building a microservice architecture Learn the fundamental design concepts for individual microservices Delve into the operational elements of a microservices architecture including containers and service discovery Discover how to handle the challenges of introducing microservice

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