

Rest Api Design Rulebook

Looks at the principles and clean code, includes case studies showcasing the practices of writing clean code, and contains a list of heuristics and "smells" accumulated from the process of writing clean code.

The basic rules of REST APIs - "many nouns, few verbs, stick with HTTP" - seem easy, but that simplicity and power require discipline to work smoothly. This brief guide provides next steps for implementing complex projects on simple and extensible foundations.

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Using a web API to provide services to application developers is one of the more satisfying endeavors that software engineers undertake. But building a popular API with a thriving developer ecosystem is also one of the most challenging. With this practical guide, developers, architects, and tech leads will learn how to navigate complex decisions for designing, scaling, marketing, and evolving interoperable APIs. Authors Brenda Jin, Saurabh Sahni, and Amir Shevat explain API design theory and provide hands-on exercises for building your web API and managing its operation in production. You'll also learn

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how to build and maintain a following of app developers. This book includes expert advice, worksheets, checklists, and case studies from companies including Slack, Stripe, Facebook, Microsoft, Cloudinary, Oracle, and GitHub. Get an overview of request-response and event-driven API design paradigms Learn best practices for designing an API that meets the needs of your users Use a template to create an API design process Scale your web API to support a growing number of API calls and use cases Regularly adapt the API to reflect changes to your product or business Provide developer resources that

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include API documentation, samples, and tools

Principles of Web API Design is a comprehensive, start-to-finish guide to the processes required for effective API design. Unlike other books, it covers the entire lifecycle. Leading API and microservices consultant James Higginbotham shows how API developers can successfully integrate processes that occur before, during, and after API design, to scale API development far beyond single individuals or small teams. Higginbotham addresses REST in depth while also fully covering RPC and graph-based API design, as well as messaging, streaming, and

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event-based async APIs.

Coverage includes: The art of API design, and an overview of the API design process Crafting job stories, conducting

EventStorming sessions, and modeling API capabilities

Designing APIs that can easily evolve Implementing APIs, and moving to microservices

Improving API quality through effective testing, documentation, and protection mechanisms

Establishing and maturing your API program: leveraging

program and data management techniques that scale

RESTful Web Services Cookbook

Designing Web APIs

Design, Build and Integrate with

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REST, JSON, XML and JAX-RS Design, develop, and deploy highly adaptable, scalable, and secure RESTful web APIs

OAuth 2 in Action

RESTful API Design

APIs: A Strategy Guide

API Security in Action

teaches you how to create secure APIs for any situation. By following this hands-on guide you'll build a social network API while mastering techniques for flexible multi-user security, cloud key management, and lightweight cryptography. Summary A web API is an

efficient way to communicate with an application or service. However, this convenience opens your systems to new security risks. API Security in Action gives you the skills to build strong, safe APIs you can confidently expose to the world. Inside, you'll learn to construct secure and scalable REST APIs, deliver machine-to-machine interaction in a microservices architecture, and provide protection in resource-

constrained IoT (Internet of Things) environments. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology APIs control data sharing in every service, server, data store, and web client. Modern data-centric designs—including microservices and cloud-native applications—demand a comprehensive, multi-layered approach to

security for both private and public-facing APIs. About the book API Security in Action teaches you how to create secure APIs for any situation. By following this hands-on guide you'll build a social network API while mastering techniques for flexible multi-user security, cloud key management, and lightweight cryptography. When you're done, you'll be able to create APIs that stand up to complex threat models and hostile environments. What's

**inside Authentication
Authorization Audit
logging Rate limiting
Encryption About the
reader For developers
with experience building
RESTful APIs. Examples
are in Java. About the
author Neil Madden has
in-depth knowledge of
applied cryptography,
application security, and
current API security
technologies. He holds a
Ph.D. in Computer
Science. Table of
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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**

**"Creating channels with
application programming
interfaces"--Cover.**

**REST API Design
Rulebook"O'Reilly Media,
Inc."**

**Delivering Value with
APIs and Microservices
Hands-On Building,
Testing, and Deploying
Discussing Design**

Hands-On RESTful API Design Patterns and Best Practices

**A pragmatic guide to
designing and building
RESTful APIs using Java
Head First Design
Patterns**

**Improving
Communication and
Collaboration through
Critique**

**Use this ASP.NET Core API
tutorial and straightforward
step-by-step guide to build,
test, and deploy an ASP.NET
Core API to Azure. It will
help you code confidently
and efficiently, and
provides just what you need**

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for context. The book starts with detailing how to set up your development environment, and then introduces a variety of tools and technologies to build, test, and deploy your API. It covers tools such as .NET Core SDK, (Version 3.1), Visual Studio Code, Git, xUnit, Docker, PostgreSQL, Postman, Azure DevOps, Azure, AutoMapper, and many more. Practical guidance is provided so you can achieve a tangible and valuable outcome, and you also are given a dose of theory on REST (Representational State Transfer), JSON, (JavaScript Object Notation), DTOs (Data

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Transfer Objects), and the MVC (Model View Controller) architectural pattern. What You Will Learn Build an ASP.NET Core API using C#, test it, and deploy it to Azure Understand concepts on Entity Framework Core Gain hard-earned secrets, shortcuts, and gotchas throughout the “build along” Get comfortable with ASP NET Core Environments Be introduced to unit testing, CI/CD pipelines, bearer authentication, and JSON Web Tokens (JWT) Who This Book Is For Developers using the Microsoft stack. Some basic understanding of .NET Core is assumed. Until recently, creating

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desktop-like applications in the browser meant using inefficient Ajax or Comet technologies to communicate with the server. With this practical guide, you'll learn how to use WebSocket, a protocol that enables the client and server to communicate with each other on a single connection simultaneously. No more asynchronous communication or long polling! For developers with a good grasp of JavaScript (and perhaps Node.js), author Andrew Lombardi provides useful hands-on examples throughout the book to help you get up to speed with the WebSocket API. You'll also learn how

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to use WebSocket with Transport Layer Security (TLS). Learn how to use WebSocket API events, messages, attributes, and methods within your client application Build bi-directional chat applications on the client and server with WebSocket as the communication layer Create a subprotocol over WebSocket for STOMP 1.0, the Simple Text Oriented Messaging Protocol Use options for older browsers that don't natively support WebSocket Protect your WebSocket application against various attack vectors with TLS and other tools Debug applications by

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learning aspects of the WebSocket lifecycle
Master core REST concepts and create RESTful web services in Java About This Book Build efficient and secure RESTful web APIs in Java.. Design solutions to produce, consume and visualize RESTful web services using WADL, RAML, and Swagger Familiarize the role of RESTful APIs usage in emerging technology trends like Cloud, IoT, Social Media. Who This Book Is For If you are a web developer with a basic understanding of the REST concepts and envisage to get acquainted with the idea of designing and developing

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RESTful web services, this is the book for you. As all the code samples for the book are written in Java, proficiency in Java is a must. What You Will Learn

- Introduce yourself to the RESTful software architectural style and the REST API design principles**
- Make use of the JSR 353 API, JSR 374 API, JSR 367 API and Jackson API for JSON processing**
- Build portable RESTful web APIs, making use of the JAX-RS 2.1 API**
- Simplify API development using the Jersey and RESTEasy extension APIs**
- Secure your RESTful web services with various authentication and**

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authorization mechanisms Get to grips with the various metadata solutions to describe, produce, and consume RESTful web services Understand the design and coding guidelines to build well-performing RESTful APIs See how the role of RESTful web services changes with emerging technologies and trends In Detail Representational State Transfer (REST) is a simple yet powerful software architecture style to create lightweight and scalable web services. The RESTful web services use HTTP as the transport protocol and can use any message formats, including XML, JSON(widely

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used), CSV, and many more, which makes it easily interoperable across different languages and platforms. This successful book is currently in its 3rd edition and has been used by thousands of developers. It serves as an excellent guide for developing RESTful web services in Java. This book attempts to familiarize the reader with the concepts of REST. It is a pragmatic guide for designing and developing web services using Java APIs for real-life use cases following best practices and for learning to secure REST APIs using OAuth and JWT. Finally, you will learn the

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role of RESTful web services for future technological advances, be it cloud, IoT or social media. By the end of this book, you will be able to efficiently build robust, scalable, and secure RESTful web services using Java APIs. Style and approach Step-by-step guide to designing and developing robust RESTful web services. Each topic is explained in a simple and easy-to-understand manner with lots of real-life use-cases and their solutions. As a Java programmer, how can you tackle the disruptive client-server approach to web development? With this comprehensive

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guide, you'll learn how today's client-side technologies and web APIs work with various Java tools. Author Casimir Saternos provides the big picture of client-server development, and then takes you through many practical client-server architectures. You'll work with hands-on projects in several chapters to get a feel for the topics discussed. User habits, technologies, and development methods have drastically altered web app design in recent years. But the Web itself hasn't changed. This book shows you how to build apps that conform to the web's

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underlying architecture. Learn the advantages of using separate client and server tiers, including code organization and speedy prototyping Explore the major tools, frameworks, and starter projects used in JavaScript development Dive into web API design and REST style of software architecture Understand Java's alternatives to traditional packaging methods and application server deployment Build projects with lightweight servers, using jQuery with Jython, and Sinatra with Angular Create client-server web apps with traditional Java web application servers

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and libraries

A Guide to Designing the Perfect API

The Design of Web APIs Enabling Reuse Through Hypermedia

Hypermedia and Systems Architecture

A practical guide to creating, testing, and managing APIs for automated software testing

Agile IT Organization Design RESTful Web APIs

If you're a developer with core Java SE skills, this hands-on book takes you through the language changes in Java 8 triggered by the addition of lambda expressions.

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You'll learn through code examples, exercises, and fluid explanations how these anonymous functions will help you write simple, clean, library-level code that solves business problems. Lambda expressions are a fairly simple change to Java, and the first part of the book shows you how to use them properly. Later chapters show you how lambda functions help you improve performance with parallelism, write simpler concurrent code, and model your domain more accurately, including

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building better DSLs. Use exercises in each chapter to help you master lambda expressions in Java 8 quickly Explore streams, advanced collections, and other Java 8 library improvements Leverage multicore CPUs and improve performance with data parallelism Use techniques to “lambdify” your existing codebase or library code Learn practical solutions for lambda expression unit testing and debugging Implement SOLID principles of object-oriented programming with lambdas

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Write concurrent applications that efficiently perform message passing and non-blocking I/O

Web APIs are everywhere, giving developers an efficient way to interact with applications, services, and data. Well-designed APIs are a joy to use; poorly-designed APIs are cumbersome, confusing, and frustrating. The Design of Web APIs is a practical, example packed guide to crafting extraordinary web APIs. Author Arnaud Lauret demonstrates fantastic

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design principles and techniques you can apply to both public and private web APIs. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

REST continues to gain momentum as the best method for building Web services, and this down-to-earth book delivers techniques and examples that show how to design and implement integration solutions using the REST architectural style. With Learning JavaScript Design Patterns, you'll

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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

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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

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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 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! Lightweight Client-Server

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***Communications
Client-Server Web Apps
with JavaScript and Java
Building APIs That
Developers Love
Introduction to JavaScript
Object Notation
A JavaScript and jQuery
Developer's Guide
API Architecture
Undisturbed Rest***

Looking for Best Practices for RESTful APIs? This book is for you! Why? Because this book is packed with practical experience on what works best for RESTful API Design. You want to design APIs like a Pro? Use API description languages to both design APIs and develop APIs efficiently. The book introduces the two most common API description

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languages RAML, OpenAPI, and Swagger. Your company cares about its customers? Learn API product management with a customer-centric design and development approach for APIs. Learn how to manage APIs as a product and how to follow an API-first approach. Build APIs your customers love! You want to manage the complete API lifecycle? An API development methodology is proposed to guide you through the lifecycle: API inception, API design, API development, API publication, API evolution, and maintenance. You want to build APIs right? This book shows best practices for REST design, such as the correct use of resources, URIs, representations, content types, data formats, parameters, HTTP status codes, and HTTP methods. Your APIs connect to legacy systems? The book

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shows best practices for connecting APIs to existing backend systems. Your APIs connect to a mesh of microservices? The book shows the principles for designing APIs for scalable, autonomous microservices. You expect lots of traffic on your API? The book shows you how to achieve high performance, availability and maintainability. You want to build APIs that last for decades? We study API versioning, API evolution, backward- and forward-compatibility and show API design patterns for versioning. The API-University Series is a modular series of books on API-related topics. Each book focuses on a particular API topic, so you can select the topics within APIs, which are relevant for you. Today, software engineers need to know not only how to program effectively but also how to develop

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proper engineering practices to make their codebase sustainable and healthy. This book emphasizes this difference between programming and software engineering. How can software engineers manage a living codebase that evolves and responds to changing requirements and demands over the length of its life? Based on their experience at Google, software engineers Titus Winters and Hyrum Wright, along with technical writer Tom Manshreck, present a candid and insightful look at how some of the world's leading practitioners construct and maintain software. This book covers Google's unique engineering culture, processes, and tools and how these aspects contribute to the effectiveness of an engineering organization. You'll explore three fundamental principles

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that software organizations should keep in mind when designing, architecting, writing, and maintaining code: How time affects the sustainability of software and how to make your code resilient over time How scale affects the viability of software practices within an engineering organization What trade-offs a typical engineer needs to make when evaluating design and development decisions REST architecture (style) is a pivot of distributed systems, simplify data integration amongst modern and legacy applications leverages through the RESTful paradigm. This book is fully loaded with many RESTful API patterns, samples, hands-on implementations and also discuss the capabilities of many REST API frameworks for Java, Scala, Python

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and Go

Packed with more than 300 sample scripts and an extensive collection of library functions, this essential scripting book is the most thorough guide to Windows scripting and PowerShell on the market. You'll examine how Windows scripting is changing the face of system and network administration by giving everyday users, developers, and administrators the ability to automate repetitive tasks. Plus, this is the first time that VBScript, Jscript, and Powershell are all covered in a single resource.

A Handbook of Agile Software Craftsmanship

API Testing and Development with Postman

The Complete ASP.NET Core 3 API Tutorial

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ZWEIHANDER Grim & Perilous RPG
Beyond Software Architecture
A practical guide using Processing
Lessons Learned from Programming
Over Time

Looking for the big picture of building APIs? This book is for you! Building APIs that consumers love should certainly be the goal of any API initiative. However, it is easier said than done. It requires getting the architecture for your APIs right. This book equips you with both foundations and best practices for API architecture. This book is for you if you want to understand the big picture of API design and development, you want to define an API architecture, establish a platform for APIs or simply want to build APIs your consumers love. This book is NOT for you, if you are looking for a step-by step guide for building APIs, focusing on every detail of the correct application of REST

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principles. In this case I recommend the book "API Design" of the API-University Series. What is API architecture?

Architecture spans the bigger picture of APIs and can be seen from several perspectives: API architecture may refer to the architecture of the complete solution consisting not only of the API itself, but also of an API client such as a mobile app and several other components. API solution architecture explains the components and their relations within the software solution. API architecture may refer to the technical architecture of the API platform. When building, running and exposing not only one, but several APIs, it becomes clear that certain building blocks of the API, runtime functionality and management functionality for the API need to be used over and over again. An API platform provides an infrastructure for developing, running and managing

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APIs. API architecture may refer to the architecture of the API portfolio. The API portfolio contains all APIs of the enterprise and needs to be managed like a product. API portfolio architecture analyzes the functionality of the API and organizes, manages and reuses the APIs. API architecture may refer to the design decisions for a particular API proxy. To document the design decisions, API description languages are used. We explain the use of API description languages (RAML and Swagger) on many examples. This book covers all of the above perspectives on API architecture. However, to become useful, the architecture needs to be put into practice. This is why this book covers an API methodology for design and development. An API methodology provides practical guidelines for putting API architecture into practice. It explains how to develop

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an API architecture into an API that consumers love. A lot of the information on APIs is available on the web. Most of it is published by vendors of API products. I am always a bit suspicious of technical information pushed by product vendors. This book is different. In this book, a product-independent view on API architecture is presented. The API-University Series is a modular series of books on API-related topics. Each book focuses on a particular API topic, so you can select the topics within APIs, which are relevant for you.

This text aims to help all members of the development team make the correct nuts-and-bolts architecture decisions that ensure project success.

Summary OAuth 2 in Action teaches you the practical use and deployment of this HTTP-based protocol from the perspectives of a client, authorization

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server, and resource server. You'll learn how to confidently and securely build and deploy OAuth on both the client and server sides. Foreword by Ian Glazer. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Think of OAuth 2 as the web version of a valet key. It is an HTTP-based security protocol that allows users of a service to enable applications to use that service on their behalf without handing over full control. And OAuth is used everywhere, from Facebook and Google, to startups and cloud services. About the Book OAuth 2 in Action teaches you practical use and deployment of OAuth 2 from the perspectives of a client, an authorization server, and a resource server. You'll begin with an overview of OAuth and its components and interactions. Next, you'll get hands-on and

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build an OAuth client, an authorization server, and a protected resource. Then you'll dig into tokens, dynamic client registration, and more advanced topics. By the end, you'll be able to confidently and securely build and deploy OAuth on both the client and server sides. What's Inside Covers OAuth 2 protocol and design Authorization with OAuth 2 OpenID Connect and User-Managed Access Implementation risks JOSE, introspection, revocation, and registration Protecting and accessing REST APIs About the Reader Readers need basic programming skills and knowledge of HTTP and JSON. About the Author Justin Richer is a systems architect and software engineer. Antonio Sanso is a security software engineer and a security researcher. Both authors contribute to open standards and open source. Table of Contents Part 1 - First steps What is

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OAuth 2.0 and why should you care? The OAuth dance Part 2 - Building an OAuth 2 environment Building a simple OAuth client Building a simple OAuth protected resource Building a simple OAuth authorization server OAuth 2.0 in the real world Part 3 - OAuth 2 implementation and vulnerabilities Common client vulnerabilities Common protected resources vulnerabilities Common authorization server vulnerabilities Common OAuth token vulnerabilities Part 4 - Taking OAuth further OAuth tokens Dynamic client registration User authentication with OAuth 2.0 Protocols and profiles using OAuth 2.0 Beyond bearer tokens Summary and conclusions

In today's market, where rival web services compete for attention, a well-designed REST API is a must-have feature. This concise book presents a set of API design rules, drawn primarily from best

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practices that stick close to the Web's REST architectural style. Along with rules for URI design and HTTP use, you'll learn guidelines for media types and representational forms. REST APIs are ubiquitous, but few of them follow a consistent design methodology. Using these simple rules, you will design web service APIs that adhere to recognized web standards. To assist you, author Mark Massé introduces the Web Resource Modeling Language (WRML), a conceptual framework he created for the design and implementation of REST APIs. Learn design rules for addressing resources with URIs Apply design principles to HTTP's request methods and response status codes Work with guidelines for conveying metadata through HTTP headers and media types Get design tips to address the needs of client programs, including the special needs of

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browser-based JavaScript clients

Understand why REST APIs should be designed and configured, not coded

Java 8 Lambdas

REST in Practice

API Security in Action

Solutions for Improving Scalability and Simplicity

Pro RESTful APIs

Software Engineering at Google

Amazing Interview Answers

Powered by HTML, this Zweihander eBook edition is published with a nuanced reflowable document layout. It includes: Reflowable text and images Sidebar navigation via device contents Hyperlinked Table of Contents and Index for fast, easy searches Hyperlinked cross-references throughout the book Tap and zoom illustrations This digital format differs from standard fixed

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layouts and PDFs. We highly suggest users download a sample before purchasing. WELCOME TO GRIM & PERILOUS GAMING Featured on Forbes.com, ranked one of the best-selling fantasy tabletop role-playing games at DriveThruRPG, and having sold over 90,000 copies worldwide, ZWEIHÄNDER Grim & Perilous RPG is a bloodier, grimmer, and grittier version of classical tabletop role-playing games. This revised edition is published in celebration with Andrews McMeel Publishing and features a refreshed layout, new artwork, rules clarifications, color plates by Dejan Mandic, and errata. ZWEIHÄNDER Grim & Perilous RPG is a game where your characters will: Live in a gritty, "realistic" fantasy world Make morally grey decisions & enact vicious reprisals Uncover insidious plots &

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political intrigue Take part in heart-pumping chase scenes Venture into the wilderness & survive its perils Desperately fight in clandestine & open field combat Defend themselves from injuries, madness, & mutations Encounter sanity-blasting creatures & their minions Using the Powered By ZWEIHÄNDER d100 game engine, you will create grim characters, write perilous adventures, and build your own low fantasy & dark fantasy campaigns. These rules are a perfect fit for Renaissance and medieval-styled adventures, too. You can also use this book to create your own home-brewed worlds, whether inspired by the works of Andrzej Sapkowski ' s The Witcher, George R.R. Martin ' s Game of Thrones, Glen Cook ' s Black Company, Myke Cole ' s The Armored Saint, Robert E. Howard ' s Solomon

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Kane, Scott Lynch ' s Gentlemen Bastard series, or other "grimdark"-inspired media. This all-in-one game includes most of what you need to play: a character creation guide, game mastery rules, and a bestiary brimming with creatures both fair & foul. All that ' s left are a few friends, pencils, and a handful of dice. ZWEIHÄNDER Grim & Perilous RPG awaits, and the fate of your grim & perilous tale hangs in the balance!

Design IT Organizations for Agility at Scale Aspiring digital businesses need overall IT agility, not just development team agility. In Agile IT Organization Design , IT management consultant and ThoughtWorks veteran Sriram Narayan shows how to infuse agility throughout your organization. Drawing on more than fifteen years ' experience working with enterprise clients in IT-

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intensive industries, he introduces an agile approach to “ Business–IT Effectiveness ” that is as practical as it is valuable. The author shows how structural, political, operational, and cultural facets of organization design influence overall IT agility—and how you can promote better collaboration across diverse functions, from sales and marketing to product development, and engineering to IT operations. Through real examples, he helps you evaluate and improve organization designs that enhance autonomy, mastery, and purpose: the key ingredients for a highly motivated workforce. You ’ ll find “ close range ” coverage of team design, accountability, alignment, project finance, tooling, metrics, organizational norms, communication, and culture. For each, you ’ ll gain a

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deeper understanding of where your organization stands, and clear direction for making improvements. Ready to optimize the performance of your IT organization or digital business? Here are practical solutions for the long term, and for right now.

Govern for value over predictability
Organize for responsiveness, not lowest cost
Clarify accountability for outcomes and for decisions along the way
Strengthen the alignment of autonomous teams
Move beyond project teams to capability teams
Break down tool-induced silos
Choose financial practices that are free of harmful side effects
Create and retain great teams despite today ' s " talent crunch " Reform metrics to promote (not prevent) agility
Evolve culture through improvements to structure, practices, and leadership—and

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careful, deliberate interventions Using research in neurobiology, cognitive science and learning theory, this text loads patterns into your brain in a way that lets you put them to work immediately, makes you better at solving software design problems, and improves your ability to speak the language of patterns with others on your team.

Real critique has become a lost skill among collaborative teams today. Critique is intended to help teams strengthen their designs, products, and services, rather than be used to assert authority or push agendas under the guise of "feedback." In this practical guide, authors Adam Connor and Aaron Irizarry teach you techniques, tools, and a framework for helping members of your design team give and receive critique. Using

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firsthand stories and lessons from prominent figures in the design community, this book examines the good, the bad, and the ugly of feedback. You ' ll come away with tips, actionable insights, activities, and a cheat sheet for practicing critique as a part of your collaborative process. This book covers:

- Best practices (and anti-patterns) for giving and receiving critique
- Cultural aspects that influence your ability to critique constructively
- When, how much, and how often to use critique in the creative process
- Facilitation techniques for making critiques timely and more effective
- Strategies for dealing with difficult people and challenging situations
- Creating and Sustaining Winning Solutions

Services for a Changing World

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44 Tough Job Interview Questions with
88 Winning Answers

Generative Art

RESTful Java Web Services

REST API Design Rulebook

Learn how REST APIs work. This book will teach you what REST APIs are, why they are useful, and how to use them to build more scalable, faster, more efficient applications. In this book, you will learn: - What is a REST API- How are REST APIs used- Why are REST APIs useful- How REST works with HTTP- Anatomy of a REST Request and Response- Status messages- Best Practices- How to create, read, update, and delete data- Where to find REST API

Explore the world of APIs and learn how to integrate them with production-

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ready applications using Postman and the Newman CLI Key Features Learn the tenets of effective API testing and API design Gain an in-depth understanding of the various features Postman has to offer Know when and how to use Postman for creating high-quality APIs for software and web apps Book Description Postman enables the exploration and testing of web APIs, helping testers and developers figure out how an API works. With Postman, you can create effective test automation for any APIs. If you want to put your knowledge of APIs to work quickly, this practical guide to using Postman will help you get started. The book provides a hands-on approach to learning the implementation and associated methodologies that will have you up and

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running with Postman in no time. Complete with step-by-step explanations of essential concepts, practical examples, and self-assessment questions, this book begins by taking you through the principles of effective API testing. A combination of theory coupled with real-world examples will help you learn how to use Postman to create well-designed, documented, and tested APIs. You'll then be able to try some hands-on projects that will teach you how to add test automation to an already existing API with Postman, and guide you in using Postman to create a well-designed API from scratch. By the end of this book, you'll be able to use Postman to set up and run API tests for any API that you are working with. What you will learn

Find out what is involved in

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effective API testing Use data-driven testing in Postman to create scalable API tests Understand what a well-designed API looks like Become well-versed with API terminology, including the different types of APIs Get to grips with performing functional and non-functional testing of an API Discover how to use industry standards such as OpenAPI and mocking in Postman Who this book is for The book is for software testing professionals and software developers looking to improve product and API quality through API test automation. You will find this book useful if understand APIs and want to build your skills for creating, testing, and documenting APIs. The book assumes beginner-level knowledge of JavaScript and API development.

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"This concise guide helps busy IT professionals get up and running quickly with this popular data interchange format, and provides a deep understanding of how JSON works ... begins with an overview of JSON syntax, data types, formatting, and security concerns before exploring the many ways you can apply JSON today. From Web APIs and server-side language libraries to NoSQL databases and client-side frameworks, JSON has emerged as a viable alternative to XML for exchanging data between different platforms. If you have some programming experience and understand HTML and JavaScript, this is your book"--Publisher's description.

Job hunting? Or know someone who is? This book is perfect to help anyone gain

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*an advantage during the toughest part of the process, the dreaded job interview. In **Amazing Interview Answers**, you'll find everything you need to successfully interview for the jobs you want. The author includes step-by-step instructions for preparing for interviews. He also shares 88 examples of great answers to 44 of the most commonly asked questions. Plus, he includes tips for researching jobs as well as frameworks for preparing your interview answers. If you're the type of person who learns by example, this book is for you. It's full of questions that are typically asked during interviews along with examples of winning answers for each question. It also gives you insider tips for what you should and shouldn't say during interviews. What a rush it will be when*

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you conclude job interviews knowing that you nailed them. If you follow the advice in this book, you should experience that feeling every time you walk out of an interview.

Learn REST APIs: Your Guide to how to Find, Learn, and Connect to the REST APIs that Powers the Internet of Things Revolution.

Pragmatic Functional Programming

A To-the-Point Guide to JSON

WebSocket

Restful Web Clients

Designing Consistent RESTful Web

Service Interfaces

The popularity of REST in recent years has led to tremendous growth in almost-RESTful APIs that don't include many of the architecture's

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benefits. With this practical guide, you'll learn what it takes to design usable REST APIs that evolve over time. By focusing on solutions that cross a variety of domains, this book shows you how to create powerful and secure applications, using the tools designed for the world's most successful distributed computing system: the World Wide Web. You'll explore the concepts behind REST, learn different strategies for creating hypermedia-based APIs, and then put everything together with a step-by-step guide to designing a RESTful Web API. Examine API design strategies, including the collection pattern and pure hypermedia. Understand how hypermedia ties

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representations together into a coherent API Discover how XMDP and ALPS profile formats can help you meet the Web API "semantic challenge" Learn close to two-dozen standardized hypermedia data formats Apply best practices for using HTTP in API implementations Create Web APIs with the JSON-LD standard and other the Linked Data approaches Understand the CoAP protocol for using REST in embedded systems 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-

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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

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best practices to your solutions' architecture Who This Book Is For Experienced web programmers and developers.

Believe it or not, building an API is the easy part. What is far more challenging is to put together a design that will stand the test of time, while also meeting your developers' needs. After all, no matter how well written your code may be, without a strong foundation, you will find your API quickly failing. Undisturbed REST works to tackle this issue through the use of modern design techniques and technology, showing how to carefully design your API with your users and longevity in-mind, taking advantage

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of a design-first approach- while incorporating best practices and hard lessons learned. After reading Undisturbed REST, you'll have a strong understanding of APIs, best practices, and available tooling for designing, prototyping, sharing, documenting, and generating tooling (such as SDKs) around your API. More importantly, you'll be equipped to design and build an API not just for today, but one that can stand the test of time and lead your application into tomorrow. Summary Generative Art presents both the technique and the beauty of algorithmic art. The book includes high-quality examples of generative art, along with the specific programmatic steps author

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and artist Matt Pearson followed to create each unique piece using the Processing programming language. About the Technology Artists have always explored new media, and computer-based artists are no exception. Generative art, a technique where the artist creates print or onscreen images by using computer algorithms, finds the artistic intersection of programming, computer graphics, and individual expression. The book includes a tutorial on Processing, an open source programming language and environment for people who want to create images, animations, and interactions. About the Book Generative Art presents both the techniques and the beauty of

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algorithmic art. In it, you'll find dozens of high-quality examples of generative art, along with the specific steps the author followed to create each unique piece using the Processing programming language. The book includes concise tutorials for each of the technical components required to create the book's images, and it offers countless suggestions for how you can combine and reuse the various techniques to create your own works. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside The principles of algorithmic art A Processing language tutorial Using

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API Design Patterns

For Digital Transformation and

Continuous Delivery

Clean Code

Principles of Web API Design

RESTful Web Services

Revised Core Rulebook

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Learning JavaScript Design Patterns

While the REST design philosophy has captured the imagination of web and enterprise developers alike, using this approach to develop real web services is no picnic. This cookbook includes more than 100 recipes to help you take advantage of REST, HTTP, and the infrastructure of the Web. You'll learn ways to design RESTful web services for client and server applications that meet performance, scalability, reliability, and security goals, no matter what programming language and development framework you use. Each recipe

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includes one or two problem statements, with easy-to-follow, step-by-step instructions for solving them, as well as examples using HTTP requests and responses, and XML, JSON, and Atom snippets. You'll also get implementation guidelines, and a discussion of the pros, cons, and trade-offs that come with each solution. Learn how to design resources to meet various application scenarios

Successfully design representations and URIs

Implement the hypertext constraint using links and link headers

Understand when and how to use Atom and AtomPub

Know what and what not to do to

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support caching Learn how to implement concurrency control Deal with advanced use cases involving copying, merging, transactions, batch processing, and partial updates Secure web services and support OAuth "A concept-rich book on API design patterns. Deeply engrossing and fun to read." - Satej Sahu, Honeywell API Design Patterns lays out a set of design principles for building internal and public-facing APIs. In API Design Patterns you will learn: Guiding principles for API patterns Fundamentals of resource layout and naming Handling data types for any programming language Standard

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methods that ensure predictability
Field masks for targeted partial updates
Authentication and validation methods for secure APIs
Collective operations for moving, managing, and deleting data
Advanced patterns for special interactions and data transformations
API Design Patterns reveals best practices for building stable, user-friendly APIs. These design patterns can be applied to solve common API problems and flexibly altered to fit specific needs. Hands-on examples and relevant cases illustrate patterns for API fundamentals, advanced functionalities, and uncommon

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scenarios. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology APIs are contracts that define how applications, services, and components communicate. API design patterns provide a shared set of best practices, specifications and standards that ensure APIs are reliable and simple for other developers. This book collects and explains the most important patterns from both the API design community and the experts at Google. About the book API Design Patterns lays out a set of principles for building internal and public-

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facing APIs. Google API expert JJ Geewax presents patterns that ensure your APIs are consistent, scalable, and flexible. You'll improve the design of the most common APIs, plus discover techniques for tricky edge cases. Precise illustrations, relevant examples, and detailed scenarios make every pattern clear and easy to understand. What's inside Guiding principles for API patterns Fundamentals of resource layout and naming Advanced patterns for special interactions and data transformations A detailed case-study on building an API and adding features About the reader For developers building web and

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internal APIs in any language. About the author JJ Geewax is a software engineer at Google, focusing on Google Cloud Platform, API design, and real-time payment systems. He is also the author of Manning's Google Cloud Platform in Action.

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"Every developer working with the Web needs to read this book." -- David Heinemeier Hansson, creator of the Rails framework "RESTful Web Services finally provides a practical roadmap for constructing services that embrace the Web, instead of trying to route around it." -- Adam Trachtenberg, PHP author and EBay Web Services Evangelist You've built web sites that can be used by humans. But can you also build web sites that are usable by machines? That's where the future lies, and that's what RESTful Web Services shows you how to do. The World Wide Web is the most popular

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distributed application in history, and Web services and mashups have turned it into a powerful distributed computing platform. But today's web service technologies have lost sight of the simplicity that made the Web successful. They don't work like the Web, and they're missing out on its advantages. This book puts the "Web" back into web services. It shows how you can connect to the programmable web with the technologies you already use every day. The key is REST, the architectural style that drives the Web. This book: Emphasizes the power of basic Web technologies -- the HTTP application protocol, the URI

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naming standard, and the XML markup language Introduces the Resource-Oriented Architecture (ROA), a common-sense set of rules for designing RESTful web services Shows how a RESTful design is simpler, more versatile, and more scalable than a design based on Remote Procedure Calls (RPC) Includes real-world examples of RESTful web services, like Amazon's Simple Storage Service and the Atom Publishing Protocol Discusses web service clients for popular programming languages Shows how to implement RESTful services in three popular frameworks -- Ruby on Rails, Restlet (for Java), and Django

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(for Python) Focuses on practical issues: how to design and implement RESTful web services and clients This is the first book that applies the REST design philosophy to real web services. It sets down the best practices you need to make your design a success, and the techniques you need to turn your design into working code. You can harness the power of the Web for programmable applications: you just have to work with the Web instead of against it. This book shows you how. Microsoft PowerShell, VBScript and JScript Bible