Documenting Software Architectures Views And Beyond Sei Series In Software Engineering Hardcover

Document the architecture of your software easily with this highly practical, open-source template. Key FeaturesGet to grips with leveraging the features of arc42 to create insightful documentsLearn the concepts of software architecture documentation through real-world examplesDiscover techniques to create compact, helpful, and easy-to-read documentationBook Description When developers document the architecture of their systems, they often invent their own specific ways of articulating structures, designs, concepts, and decisions. What they need is a template that enables simple and efficient software architecture documentation. arc42 by Example shows how it's done through several real-world examples. Each example in the book, whether it is a chess engine, a huge CRM system, or a cool web system, starts with a brief description of the problem domain and the quality requirements. Then, you'll discover the system context with all the external interfaces. You'll dive into an overview of the solution strategy to implement the building blocks and runtime scenarios. The later chapters also explain various cross-cutting concerns and how they affect other aspects of a program. What you will learnUtilize arc42 to document a system's physical infrastructureLearn how to identify a system's scope and boundariesBreak a system down into building blocks and illustrate the relationships between themDiscover how to describe the runtime behavior of a systemKnow how to document design decisions and their reasonsExplore the risks and technical debt of your systemWho this book is for This book is for software developers and solutions architects who are looking for an easy, open-source tool to document their systems. It is a useful reference for those who are already using arc42. If you are new to arc42, this book is a great learning resource. For those of you who want to write better technical documentation will benefit from the general concepts covered in this book.

The practical implications of technical debt for the entire software lifecycle; with examples and case studies. Technical debt in software is incurred when developers take shortcuts and make ill-advised technical decisions in the initial phases of a project, only to be confronted with the need for costly and labor-intensive workarounds later. This book offers advice on how to avoid technical debt, how to locate its sources, and how to remove it. It focuses on the practical implications of technical debt for the entire software life cycle, with examples and case studies from companies that range from Boeing to Twitter. Technical debt is normal; it is part of most iterative development processes. But if debt is ignored, over time it may become unmanageably complex, requiring developers to spend all of their effort fixing bugs, with no time to add new features--and after all, new features are what customers really value. The authors explain how to monitor technical debt, how to measure it, and how and when to pay it down. Broadening the conventional definition of technical debt, they cover requirements debt, implementation debt, testing debt, architecture debt, documentation debt, deployment debt, and social debt. They intersperse technical discussions with "Voice of the Practitioner" sidebars that detail real-world experiences with a variety of technical debt issues.

Abstract: "An important issue for software system development is the documentation of architecture designs. In this report, we describe techniques for the architectural documentation of software-based systems in the context of development processes that use UML for software design. The architectural documentation is organized in four kinds of views: problem domain view, code view, run-time view and deployment view. We examine JavaPhone[TM] as a case study to illustrate the approach: what kinds of information are provided in each kind of view, what forms of notation should be used, what are their limitations, and what uses can be made of this documentation."

Explaining how to create in-depth reports with Crystal Reports in an Oracle database, this helpful guide provides coverage of SQL and PL/SQL, as well as practical techniques and tools for optimizing the database and Crystal Reports process, troubleshooting tips, and more. Original. (Advanced)

Human Rights Committee, 81st Session

Aligning Agile Processes and Software Architectures

Open Sources

Design modern systems using effective architecture concepts, design patterns, and techniques with C++20

Autonomic Computing and Networking

Documenting Architectural Layers

Software architecture—the conceptual glue that holds every phase of a project together for its many stakeholders—is widely recognized as a critical element in modern software development. Practitioners have increasingly discovered that close attention to a software system's architecture pays valuable dividends. Without an architecture that is appropriate for the problem being solved, a project will stumble along or, most likely, fail. Even with a superb architecture, if that architecture is not well understood or well communicated the project is unlikely to succeed. Documenting Software Architectures, Second Edition, provides the most complete and current guidance, independent of language or notation, on how to capture an architecture in a commonly understandable form. Drawing on their extensive experience, the authors first help you decide what information to document, and then, with guidelines and examples (in various notations, including UML), show you how to express an architecture so that others can successfully build, use, and maintain a system from it. The book features rules for sound documentation, the goals and strategies of documentation, architectural views and styles, documentation for software interfaces and software behavior, and templates for capturing and organizing information to generate a coherent package. New and improved in this second edition: Coverage of architectural styles such as service-oriented architectures, multi-tier architectures, and data models Guidance for documentation in an Agile development environment Deeper treatment of documentation of rationale, reflecting best industrial practices Improved templates, reflecting years of use and feedback, and more documentation layout options A new, comprehensive example (available online), featuring documentation of a Web-based service-oriented system Reference guides for three important architecture documentation languages: UML, AADL, and SysML

Architectural design is a crucial first step in developing complex software intensive systems. Early design decisions establish the structures necessary for achieving broad systemic properties. However, today's organizations lack synergy between software their development processes and technological methodologies. Providing a thorough treatment of

Agile software development approaches have had significant impact on industrial software development practices. Today, agile software development has penetrated to most IT companies across the globe, with an intention to increase quality, productivity, and profitability. Comprehensive knowledge is needed to understand the architectural challenges involved in adopting and using agile approaches and industrial practices to deal with the development of large, architecturally challenging systems in an agile way. Agile Software Architecture focuses on gaps in the requirements of applying architecture-centric approaches and principles of agile software development and demystifies the agile architecture paradox. Readers will learn how agile and architectural cultures can co-exist and support each other according to the context. Moreover, this book will also provide useful leads for future research in architecture and agile to bridge such gaps by developing appropriate approaches that incorporate architecturally sound practices in agile methods. Presents a consolidated view of the state-of-art and state-of-practice as well as the newest research findings Identifies gaps in the requirements of applying architecture-centric approaches and principles of agile software development and demystifies the agile architecture paradox Explains whether or not and how agile and architectural cultures can co-exist and support each other depending upon the context Provides useful leads for future research in both architecture and agile to bridge such gaps by developing appropriate approaches, which incorporate architecturally sound practices in agile methods

This is the lead book in a series of books from the Software Quality Institute (SQI). This series will bring together some of the key individuals in the Software Engineering community, and through their knowledge and experience, develop a library of books that set the standards for best practices in achieving high-quality software. This title presents a set of fundamental engineering strategies for achieving a successful software solution, with practical advice to ensure that the development project is moving in the right direction. Software designers and development managers can improve the development speed and quality of their software, and improve the processes used in development.

First European Workshop, EWSA 2004, St Andrews, UK, May 21-22, 2004, Proceedings

Views and Beyond

Software Modeling and Design

With One More Look at You

Solutions Architect's Handbook

UML, Use Cases, Patterns, and Software Architectures

This book covers all you need to know to model and design software applications from use cases to software architectures in UML and shows how to apply the COMET UML-based modeling and design method to real-world problems. The author describes architectural patterns for various architectures, such as broker, discovery, and transaction patterns for service-oriented architectures, and addresses software quality attributes including maintainability, modifiability, testability, traceability, scalability, reusability, performance, availability, and security. Complete case studies illustrate design issues for different software architectures: a banking system for client/server architecture, an online shopping system for service-oriented architecture, an emergency monitoring system for component-based software architecture, and an automated guided vehicle for real-time software architecture. Organized as an introduction followed by several short, self-contained chapters, the book is perfect for senior undergraduate or graduate courses in software engineering and design, and for experienced software engineers wanting a quick reference at each stage of the analysis, design, and development of large-scale software systems.

This book introduces the concept of software architecture as one of the cornerstones of software in modern cars. Following a historical overview of the evolution of software in modern cars and a discussion of the main challenges driving that evolution, Chapter 2 describes the main architectural styles of automotive software and their use in cars' software. Chapter 3 details this further by presenting two modern architectural styles, i.e. centralized and federated software architectures. In Chapter 4, readers will find a description of the software development processes used to develop software on the car manufacturers' side. Chapter 5 then introduces AUTOSAR - an important standard in automotive software. Chapter 6 goes beyond simple architecture and describes the detailed design process for automotive software using Simulink, helping readers to understand how detailed design links to high-level design.^The new chapter 7 reports on how machine learning is exploited in automotive software e.g. for image recognition and how both on-board and off-board learning are applied. Next, Chapter 8 presents a method for assessing the quality of the architecture - ATAM (Architecture Trade-off Analysis Method) - and provides a sample assessment, while Chapter 9 presents an alternative way of assessing the architecture, namely by using quantitative measures and indicators. Subsequently Chapter 10 dives deeper into one of the specific properties discussed in Chapter 8 - safety - and details an important standard in that area, the ISO/IEC 26262 norm. Lastly, Chapter 11 presents a set of future trends that are currently emerging and have the potential to shape automotive software engineering in the coming years. This book explores the concept of software architecture for modern cars and is intended for both beginning and advanced software designers.^It mainly aims at two different groups of audience - professionals working with automotive software who need to understand concepts related to automotive architectures, and students of software engineering or related fields who need to understand the specifics of automotive software to be able to construct cars or their components. Accordingly, the book also contains a wealth of real-world examples illustrating the concepts discussed and requires no prior background in the automotive domain. Compared to the first edition, besides the two new chapters 3 and 7 there are considerable updates in chapters 5 and 8 especially.

Salary surveys worldwide regularly place software architect in the top 10 best jobs, yet no real guide exists to help developers become architects. Until now. This book provides the first comprehensive overview of software architecture's many aspects. Aspiring and existing architects alike will examine architectural characteristics, architectural patterns, component determination, diagramming and presenting architecture, evolutionary architecture, and many other topics. Mark Richards and Neal Ford—hands-on practitioners who have taught software architecture classes professionally for years—focus on architecture principles that apply across all technology stacks. You'll explore software architecture in a modern light, taking into account all the innovations of the past decade. This book examines: Architecture patterns: The technical basis for many architectural decisions Components: Identification, coupling, cohesion, partitioning, and granularity Soft skills: Effective team management, meetings, negotiation, presentations, and more Modernity: Engineering practices and operational approaches that have changed radically in the past few years Architecture as an engineering discipline: Repeatable results, metrics, and concrete valuations that add rigor to software architecture

The expert guide to building Ruby on Rails applications Ruby on Rails strips complexity from the development process, enabling professional developers to focus on what matters most: delivering business value. Now, for the first time, there's a comprehensive, authoritative guide to building production-quality software with Rails. Pioneering Rails developer Obie Fernandez and a team of experts illuminate the entire Rails API, along with the Ruby idioms, design approaches, libraries, and plug-ins that make Rails so valuable. Drawing on their unsurpassed experience, they address the real challenges development teams face, showing how to use Rails' tools and best practices to maximize productivity and build polished applications users will enjoy. Using detailed code examples, Obie systematically covers Rails' key capabilities and subsystems. He presents advanced programming techniques, introduces open source libraries that facilitate easy Rails adoption, and offers important insights into testing and production deployment. Dive deep into the Rails codebase together, discovering why Rails behaves as it does— and how to make it behave the way you want it to. This book will help you Increase your productivity as a web developer Realize the overall joy of programming with Ruby on Rails Learn what's new in Rails 2.0 Drive design and protect long-term maintainability with TestUnit and RSpec Understand and manage complex program flow in Rails controllers Leverage Rails' support for designing REST-compliant APIs Master sophisticated Rails routing concepts and techniques Examine and troubleshoot Rails routing Make the most of ActiveRecord object-relational mapping Utilize Ajax within your Rails applications Incorporate logins and authentication into your application Extend Rails with the best third-party plug-ins and write your own Integrate email services into your applications with ActionMailer Choose the right Rails production configurations Streamline deployment with Capistrano

Become a successful software architect by implementing effective architecture concepts

Comparing the SEI's Views and Beyond Approach for Documenting Software Architectures with ANSI-IEEE 1471-2000

An Engineering Approach

Recommendations for Industrial Practice

Voices from the Open Source Revolution

Software Architecture: The Hard Parts

Abstract: "This report represents a milestone of a work in progress. That work is a comprehensive handbook on how to produce high-quality documentation for software architectures. The handbook, tentatively entitled Documenting Software Architectures, will be published in early 2002 by Addison Wesley Longman as part of the SEI Series on Software Engineering. Since this report is a snapshot of current work, the material described here may change before the handbook is published. The theme of the report is that documenting an architecture entails documenting the set of relevant views of that architecture, and then completing the picture by documenting information that transcends any single view. The audience for Documenting Software Architectures is the community of practicing architects, apprentice architects, and developers who receive architectural documentation."

Freely available source code, with contributions from thousands of programmers around the world: this is the spirit of the software revolution known as Open Source. Open Source has grabbed the computer industry's attention. Netscape has opened the source code to Mozilla; IBM supports Apache; major database vendors haved ported their products to Linux. As enterprises realize the power of the open-source development model, Open Source is becoming a viable mainstream alternative to commercial software.Now in Open Sources, leaders of Open Source come together for the first time to discuss the new vision of the software industry they have created. The essays in this volume offer insight into how the Open Source movement works, why it succeeds, and where it is going.For programmers who have labored on open-source projects, Open Sources is the new gospel: a powerful vision from the movement's spiritual leaders. For businesses integrating open-source software into their enterprise, Open Sources reveals the mysteries of how open development builds better software, and how businesses can leverage freely available software for a competitive business advantage.The contributors here have been the leaders in the open-source arena: Brian Behlendorf (Apache) Kirk McKusick (Berkeley Unix) Tim O'Reilly (Publisher, O'Reilly & Associates) Bruce Perens (Debian Project, Open Source Initiative) Tom Paquin and Jim Hamerly (mozilla.org, Netscape) Eric Raymond (Open Source Initiative) Richard Stallman (GNU, Free Software Foundation, Emacs) Michael Tiemann (Cygnus Solutions) Linus Torvalds (Linux) Paul Vixie (Bind) Larry Wall (Perl) This book explains why the majority of the Internet's servers use open- source technologies for everything from the operating system to Web serving and email. Key technology products developed with open-source software have overtaken and surpassed the commercial efforts of billion dollar companies like Microsoft and IBM to dominate software markets. Learn the inside story of what led Netscape to decide to release its source code using the open-source mode. Learn how Cygnus Solutions builds the world's best compilers by sharing the source code. Learn why venture capitalists are eagerly watching Red Hat Software, a company that gives its key product -- Linux -- away.For the first time in print, this book presents the story of the open- source phenomenon told by the people who created this movement.Open Sources will bring you into the world of free software and show you the revolution.

Job titles like "Technical Architect" and "Chief Architect" nowadays abound in software industry, yet many people suspect that "architecture" is one of the most overused and least understood terms in professional software development. Gorton's book tries to resolve this dilemma. It concisely describes the essential elements of knowledge and key skills required to be a software architect. The explanations encompass the essentials of architecture thinking, practices, and supporting technologies. They range from a general understanding of structure and quality attributes through technical issues like middleware components and service-oriented architectures to recent technologies like model-driven architecture, software product lines, aspect-oriented design, and the Semantic Web, which will presumably influence future software systems. This second edition contains new material covering enterprise architecture, agile development, enterprise service bus technologies, RESTful Web services, and a case study on how to use the MeDICi integration framework. All approaches are illustrated by an ongoing real-world example. So if you work as an architect or senior designer (or want to someday), or if you are a student in software engineering, here is a valuable and yet approachable knowledge source for you.

There are no easy decisions in software architecture. Instead, there are many hard parts--difficult problems or issues with no best practices--that force you to choose among various compromises. With this book, you'll learn how to think critically about the trade-offs involved with distributed architectures. Architecture veterans and practicing consultants Neal Ford, Mark Richards, Pramod Sadalage, and Zhamak Dehghani discuss strategies for choosing an appropriate architecture. By interweaving a story about a fictional group of technology professionals--the Sysops Squad--they examine everything from how to determine service granularity, manage workflows and orchestration, manage and decouple contracts, and manage distributed transactions to how to optimize operational characteristics, such as scalability, elasticity, and performance. By focusing on commonly asked questions, this book provides techniques to help you discover and weigh the trade-offs as you confront the issues you face as an architect. Analyze trade-offs and effectively document your decisions Make better decisions regarding service granularity Understand the complexities of breaking apart monolithic applications Manage and decouple contracts between services Handle data in a highly distributed architecture Learn patterns to manage workflow and transactions when breaking apart applications

How to Find It and Fix It

Agile Software Architecture

Technical Debt in Practice

Organization of Documentation Package

Software Architecture

This Book Describes Systematic Methods For Evaluating Software Architectures And Applies Them To Real-Life Cases. Evaluating Software Architectures Introduces The Conceptual Background For Architecture Evaluation And Provides A Step-By-Step Guide To The Process Based On Numerous Evaluations Performed In Government And Industry.

A guide for leveraging SketchUp for any project size, type, or style. New construction or renovation. The revised and updated second edition of The SketchUp Workflow for Architecture offers guidelines for taking SketchUp to the next level in order to incorporate it into every phase of the architectural design process. The text walks through each step of the SketchUp process from the early stages of schematic design and model organization for both renovation and new construction projects to final documentation and shows how to maximize the LayOut toolset for drafting and presentations. Written by a noted expert in the field, the text is filled with tips and techniques to access the power of SketchUp and its related suite of tools. The book presents a flexible workflow method that helps to make common design tasks easier and gives users the information needed to incorporate varying degrees of SketchUp into their design process. Filled with best practices for organizing projects and drafting schematics, this resource also includes suggestions for working with LayOut, an underused but valuable component of SketchUp Pro. In addition, tutorial videos compliment the text and clearly demonstrate more advanced methods. This important text: Presents intermediate and advanced techniques for architects who want to use SketchUp in all stages of the design process Includes in-depth explanations on using the LayOut tool set that contains example plans, details, sections, presentations, and other information Updates the first edition to reflect the changes to SketchUp 2018 and the core functionalities, menus, tools, inferences, arc tools, reporting, and much more Written by a SketchUp authorized trainer who has an active online platform and extensive connections within the SketchUp community Contains accompanying tutorial videos that demonstrate some of the more advanced SketchUp tips and tricks Written for professional architects, as well as professionals in interior design and landscape architecture, The SketchUp Workflow for Architecture offers a revised and updated resource for using SketchUp in all aspects of the architectural design process.

Abstract: "This report represents the first milestone of a work in progress. That work is a comprehensive handbook on how to produce high-quality documentation for software architectures. The handbook, tentatively entitled Software Architecture Documentation in Practice, will be published in mid- to late-2000 by Addison Wesley Longman as a book in the SEI series on software engineering. Aimed squarely at the practitioner, the handbook is intended to fill a gap in the literature: There is a complete lack of language-independent guidance about how to actually capture an architecture in written form so that it can fulfill its purpose as a communication vehicle providing a unified design vision to all of the varied stakeholders of a development project. The theme of the work is that documenting an architecture entails documenting the set of relevant views of that architecture, and then completing the picture with documentation of information that transcends any single view. The report lays out our approach and organization for the complete book, and provudes full guidance for one of the most commonly used architectural views: the layer diagram. The audience for this book is the community of practicing architects, apprentice architects, and developers who are on the receiving end of architectural documentation."

Autonomic Computing and Networking presents introductory and advanced topics on autonomic computing and networking with emphasis on architectures, protocols, services, privacy & security, simulation and implementation testbeds. Autonomic computing and networking are new computing and networking paradigms that allow the creation of self-managing and self-controlling computing and networking environment using techniques such as distributed algorithms and context-awareness to dynamically control networking functions without human interventions. Autonomic networking is characterized by recovery from failures and malfunctions, agility to changing networking environment, self-optimization and self-awareness. The self-control and management features can help to overcome the growing complexity and heterogeneity of exiting communication networks and systems. The realization of fully autonomic heterogeneous networking introduces several research challenges in all aspects of computing and networking and related fields.

Documenting Software Architectures in an Agile World

The Pragmatic Programmer

Managing Trade-offs in Adaptable Software Architectures

Software Architecture with C++

Modeling Buildings, Visualizing Design, and Creating Construction Documents with SketchUp Pro and LayOut

Crystal Reports 9 on Oracle

"One of the most significant books in my life." –Obie Fernandez, Author, The Rails Way "Twenty years ago, the first edition of The Pragmatic Programmer completely changed the trajectory of my career. This new edition could do the same for yours." –Mike Cohn, Author of Succeeding with Agile, Agile Estimating and Planning, and User Stories Applied ". . . filled with practical advice, both technical and professional, that will serve you and your projects well for years to come." –Andrea Goulet, CEO, Corgibytes, Founder, LegacyCode.Rocks ". . . lightning does strike twice, and this book is proof." –VM (Vicky) Brasseur, Director of Open Source Strategy, Juniper Networks The Pragmatic Programmer is one of those rare tech books you'll read, re-read, and read again over the years. Whether you're new to the field or an experienced practitioner, you'll come away with fresh insights each and every time. Dave Thomas and Andy Hunt wrote the first edition of this influential book in 1999 to help their clients create better software and rediscover the joy of coding. These lessons have helped a generation of programmers examine the very essence of software development, independent of any particular language, framework, or methodology, and the Pragmatic philosophy has spawned hundreds of books, screencasts, and audio books, as well as thousands of careers and success stories. Now, twenty years later, this new edition re-examines what it means to be a modern programmer. Topics range from personal responsibility and career development to architectural techniques for keeping your code flexible and easy to adapt and reuse. Read this book, and you'll learn how to: Fight software rot Learn continuously Avoid the trap of duplicating knowledge Write flexible, dynamic, and adaptable code Harness the power of basic tools Avoid programming by coincidence Learn real requirements Solve the underlying problems of concurrent code Guard against security vulnerabilities Build teams of Pragmatic Programmers Take responsibility for your work and career Test ruthlessly and effectively, including property-based testing Implement the Pragmatic Starter Kit Delight your users Written as a series of self-contained sections and filled with classic and fresh anecdotes, thoughtful examples, and interesting analogies, The Pragmatic Programmer illustrates the best approaches and major pitfalls of many different aspects of software development. Whether you're a new coder, an experienced programmer, or a manager responsible for software projects, use these lessons daily, and you'll quickly see improvements in personal productivity, accuracy, and job satisfaction. You'll learn skills and develop habits and attitudes that form the foundation for long-term success in your career. You'll become a Pragmatic Programmer. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

This is a detailed summary of research on design rationale providing researchers in software engineering with an excellent overview of the subject. Professional software engineers will find many examples, resources and incentives to enhance their ability to make decisions during all phases of the software lifecycle. Software engineering is still primarily a human-based activity and rationale management is concerned with making design and development decisions explicit to all stakeholders involved.

This book will show you how to create robust, scalable, highly available and fault-tolerant solutions by learning different aspects of Solution architecture and next-generation architecture design in the Cloud environment.

Designing Software Architectures will teach you how to design any software architecture in a systematic, predictable, repeatable, and cost-effective way. This book introduces a practical methodology for architecture design that any professional software engineer can use, provides structured methods supported by reusable chunks of design knowledge, and includes rich case studies that demonstrate how to use the methods. Using realistic examples, you'll master the powerful new version of the proven Attribute-Driven Design (ADD) 3.0 method and will learn how to use it to address key drivers, including quality attributes, such as modifiability, usability, and availability, along with functional requirements and architectural concerns. Drawing on their extensive experience, Humberto Cervantes and Rick Kazman guide you through crafting practical designs that support the full software life cycle, from requirements to maintenance and evolution. You'll learn how to successfully integrate design in your organizational context, and how to design systems that will be built with agile methods. Comprehensive coverage includes Understanding what architecture design involves, and where it fits in the full software development life cycle Mastering core design concepts, principles, and processes Understanding how to perform the steps of the ADD method Scaling design and analysis up or down, including design for pre-sale processes or lightweight architecture reviews Recognizing and optimizing critical relationships between analysis and design Utilizing proven, reusable design primitives and adapting them to specific problems and contexts Solving design problems in new domains, such as cloud, mobile, or big data

Stress Relieving Animal Designs

Software Architect's Handbook

A Practical Approach

Creating and Using Software Architecture Documentation Using Web-based Tool Support

A Practitioners Guide

Designing Software Architectures

WHEN IT COMES TO LOVE, SOMETIMES IT TAKES THE HEAD YEARS TO DISCOVER WHAT THE HEART HAS ALWAYS KNOWN When Forbes Branson was a young man ready for something new. A senior in high school, he was the golden boy. Heir to a fortune, he knew what his life was going to be. But he wanted adventure first. A year to do what he wanted, where he wanted before college. An unexpected betrayal would change everything. Sophie Lipton was fifteen the first time she set foot on the Branson ranch. Dragged from one place to another, never having more than one pair of shoes or enough to eat, the moment she saw the wide open spaces, she felt she could breathe for the first time in her life. It was the home she always dreamed of. But her happiness came at a price. To stay in her new home, Sophie had to keep somebody else's lies. Lies that would eventually tear apart a family. And tear apart her friendship with Forbes. Coming home is never easy-especially after twelve years. Forbes isn't the same young man. He found his adventure-and more. Weary, he's ready to settle into a slower, calmer life. Working on his family's ranch and taking the job as Chief of Police sounds like a piece of cake after the things he had seen and done. Sophie isn't the quiet girl Forbes remembers. She's grown into a strong, confident woman. A woman used to being in charge. The Branson ranch is her territory now. If Forbes thinks he's going to waltz back in and take over, he's going to find out fast that Sophie is no pushover. Twelve years ago, they shared one goodbye kiss. More sweet than passionate. Now, as adults it's a whole new game. The attraction between them is undeniable. Just as they begin to move forward, the past has other ideas. Secrets rarely stay buried forever. Lies. Betrayal. Maybe even murder. Before Forbes and Sophie can think about the future, they will need to deal with the past. Together.

A comprehensive guide to exploring software architecture concepts and implementing best practices Key Features Enhance your skills to grow your career as a software architect Design efficient software architectures using patterns and best practices Learn how software architecture relates to an organization as well as software development methodology Book Description The Software Architect's Handbook is a comprehensive guide to help developers, architects, and senior programmers advance their career in the software architecture domain. This book takes you through all the important concepts, right from design principles to different considerations at various stages of your career in software architecture. The book begins by covering the fundamentals, benefits, and purpose of software architecture. You will discover how software architecture relates to an organization, followed by identifying its significant quality attributes. Once you have covered the basics, you will explore design patterns, best practices, and paradigms for efficient software development. The book discusses which factors you need to consider for performance and security enhancements. You will learn to write documentation for your architectures and make appropriate decisions when considering DevOps. In addition to this, you will explore how to design legacy applications before understanding how to create software architectures that evolve as the market, business requirements, frameworks, tools, and best practices change over time. By the end of this book, you will not only have studied software architecture concepts but also built the soft skills necessary to grow in this field. What you will learn Design software architectures using patterns and best practices Explore the different considerations for designing software architecture Discover what it takes to continuously improve as a software architect Create loosely coupled systems that can support change Understand DevOps and how it affects software architecture Integrate, refactor, and re-architect legacy applications Who this book is for The Software Architect's Handbook is for you if you are a software architect, chief technical officer (CTO), or senior developer looking to gain a firm grasp of software architecture.

Apply business requirements to IT infrastructure and deliver a high-quality product by understanding architectures such as microservices, DevOps, and cloud-native using modern C++ standards and features Key FeaturesDesign scalable large-scale applications with the C++ programming languageArchitect software solutions in a cloud-based environment with continuous integration and continuous delivery (CI/CD)Achieve architectural goals by leveraging design patterns, language features, and useful toolsBook Description Software architecture refers to the high-level design of complex applications. It is evolving just like the languages we use, but there are architectural concepts and patterns that you can learn to write high-performance apps in a high-level language without sacrificing readability and maintainability. If you're working with modern C++, this practical guide will help you put your knowledge to work and design distributed, large-scale apps. You'll start by getting up to speed with architectural concepts, including established patterns and rising trends, then move on to understanding what software architecture actually is and start exploring its components. Next, you'll discover the design concepts involved in application architecture and the patterns in software development, before going on to learn how to build, package, integrate, and deploy your components. In the concluding chapters, you'll explore different architectural qualities, such as maintainability, reusability, testability, performance, scalability, and security. Finally, you will get an overview of distributed systems, such as service-oriented architecture, microservices, and cloud-native, and understand how to apply them in application development. By the end of this book, you'll be able to build distributed services using modern C++ and associated tools to deliver solutions as per your clients' requirements. What you will learnUnderstand how to apply the principles of software architectureApply design patterns and best practices to meet your architectural goalsWrite elegant, safe, and performant code using the latest C++ featuresBuild applications that are easy to maintain and deployExplore the different architectural approaches and learn to apply them as per your requirementSimplify development and operations using application containersDiscover various techniques to solve common problems in software design and developmentWho this book is for This software architecture C++ programming book is for experienced C++ developers looking to become software architects or develop enterprise-grade applications.

Do you love monsters? I mean do you really love monsters? Monsters of all shapes, sizes, colors and creeds? If you do, then this is the anthology for you. Monsters and Other Shit is the comic book monster anthology to end all monster anthologies. It's 224 pages of glorious monsters; funny monsters, scary monsters, sci-fi monsters, fantastical monsters, and everything in between. This isn't an ode to horror monsters, or sci-fi monsters, or any kind of monster specifically. It's a beautiful tribute to all kinds of monsters from Sesame Street to Aliens, and much more. You'll get stories from 30 different creative teams who all love monsters as much as you love monsters. Creators who've worked in comic books for decades, and have loved monsters for even longer. Creators include: Russell Nohelty (Katrina Hates Dead Shit) Erik Lervold (The Red Calaveras) Katrina Kunstmann (Warhead, Zed) Juan Carlos Ramos (Transformers) Michael Tanner and Greg Smith (Junior Braves of the Apocalypse) Scott Bachmann (SuperMom) Nate Lovett (Hack/Slash) Dennis Greenhill (Dark Tarot) Lee Kohse (Star Wars) Joe Ranoia (Shy) Cassidy Lee Phillips (Champion Killers) Nicolas Touris (Godlikes) Saint Yak (Go West) John Hollard (Ayla: Speaker of the Dead) Christie Shinn (Sepulcre) Arthur Bellfield (War's Chosen) Bradley Sheridan (Why do I Rock) Christian Douglass (Unpopular Tales) Ivan Sarnago (Lunita) David Lucarelli and Henry Ponciano (Children's Vampire Hunting Brigade) Mary Bellamy (My Little Pony) Nicholas Doan (Monster Elementary) Daniele Serra (Hellraiser) CW Cooke (Stillwater) Kurt Belcher (Broken Frontiers) Phillip Johnson (Ghost Rider) Jack Holder (Dealing with the Apocalypse) Walter Ostlie (Shiver Bureau) Bobby Timony (The Simpsons) Josh Wagner (Fiction Clemens) Freedom Lee Drudge (Mice Templar) and many more If you love monsters, then we have monsters. The best monsters in all the land, in fact. This is the monster anthology we've always wanted, and now it can be in your hands to cherish for years to come.

your journey to mastery, 20th Anniversary Edition

Adult Coloring Books

Documenting Software Architectures : Views and Beyond

arc42 by Example

Occupational Outlook Handbook

The SketchUp Workflow for Architecture

Managing Trade-Offs in Adaptable Software Architectures explores the latest research on adapting large complex systems to changing requirements. To be able to adapt a system, engineers must evaluate different quality attributes, including trade-offs to balance functional and quality requirements to maintain a well-functioning system throughout the lifetime of the system. This comprehensive resource brings together research focusing on how to manage trade-offs and architect adaptive systems in different business contexts. It presents state-of-the-art techniques, methodologies, tools, best practices, and guidelines for developing adaptive systems, and offers guidance for future software engineering research and practice. Each contributed chapter considers the practical application of the topic through case studies, experiments, empirical validation, or systematic comparisons with other approaches already in practice. Topics of interest include, but are not limited to, how to architect a system for adaptability, software architecture for self-adaptive systems, understanding and balancing the trade-offs involved, architectural patterns for self-adaptive systems, how quality attributes are exhibited by the architecture of the system, how to connect the quality of a software architecture to system architecture or other system considerations, and more. Explains software architectural processes and metrics supporting highly adaptive and complex engineering Covers validation, verification, security, and quality assurance in system design Discusses domain-specific software engineering issues for cloud-based, mobile, context-sensitive, cyber-physical, ultra-large-scale/internet-scale systems, mash-up, and autonomic systems Includes practical case studies of complex, adaptive, and context-critical systems

"This book covers both theoretical approaches and practical solutions in the processes for aligning enterprise, systems, and software architectures"--Provided by publisher.

Abstract: "This report compares the Software Engineering Institute's Views and Beyond approach for documenting software architectures with the documentation philosophy embodied in agile software-development methods. This report proposes an approach for capturing architecture information in a way that is consistent with agile methods."

This book constitutes the refereed proceedings of the First European Workshop on Software Architecture, EWSA 2004, held in St Andrews, Scotland, UK in May 2004 in conjunction with ICSE 2004. The 9 revised full research papers, 4 revised full experience papers, and 6 revised position papers presented together with 5 invited presentations on ongoing European projects on software architectures were carefully reviewed and selected from 48 submissions. All current aspects of software architectures are addressed ranging from foundational and methodological issues to application issues of practical relevance.

Software Architecture Documentation in Practice

Architecting Software Intensive Systems

Aligning Enterprise, System, and Software Architectures

Kick-start your solutions architect career by learning architecture design principles and strategies

Documenting Software Architectures

Fundamentals of Software Architecture

Abstract: "Documenting software architecture (DSA) is a crucial facet in the development of a software system, yet often it is carried out in a haphazard fashion, if at all. Lack of attention to the documentation results from insufficient guidance about what should be documented and when and how to capture the information so that system stakeholders find it useful. The book Documenting Software Architectures: Views and Beyond provides such guidance in the DSA approach, and this report describes the conceptual design for a documentation system based on that approach. A system is envisioned that enables the architect to capture architectural decisions and related artifacts as a living repository that can communicate information to stakeholders who might be both geographically and temporally distributed. The system must communicate in a way that allows each stakeholder quick and easy access to information relevant to the person's role in the software development process. This report describes a design prototype that demonstrates a Web-based approach to creating, communicating, and using software architecture throughout the life of the system."

Abstract: "Architecture documentation has emerged as an important architecture-related practice. In 2002, researchers at the Carnegie Mellon[registered trademark] Software Engineering Institute completed Documenting Software Architectures: Views and Beyond (V & B), an approach that holds that documenting a software architecture is a matter of choosing a set of relevant views of the architecture, documenting each of those views, and then documenting information that applies to more than one view or to the set of views as a whole. Details of the approach include a method for choosing the most relevant views, standard templates for documenting views and the information beyond them, and definitions of the templates' content. At about the same time, the Institute of Electrical and Electronics Engineers (IEEE) was developing a recommended best practice for describing architectures for software-intensive systems -- ANSI/IEEE Std. 1471-2000. Like V & B, that standard takes a multi-view approach to the task of architecture documentation, and it establishes a conceptual framework for architectural description and defines the content of an architectural description. This technical note summarizes the two approaches and shows how a software architecture document prepared using the V & B approach can be made compliant with Std. 1471-2000."

Documenting Software ArchitecturesViews and BeyondPearson Education

BEAUTIFUL MANDALAS - BIGGEST, MOST BEAUTIFUL MANDALAS COLORING BOOK - A TREASURE FOR MANDALA LOVERSColoring Book For Adults: 26 Mandalas: Stress Relieving Mandala Designs for Adults Relaxation, this adult coloring book has 26 stress relieving mandala designs to provide hours of fun, calm, relaxation and stress relief through creative expression. Designs range in complexity and detail from beginner to expert-level.You will Love this Coloring Book. It offers: Stress Relieving Designs that are Great for Relaxation. Each coloring page is designed to provide calmness and relaxation as you channelize your energies for creative expression.Beautiful Artwork and Designs. Well-crafted illustrations and designs that lay the groundwork for you to create your own frame-worthy masterpieces.High Resolution Printing. Each image is printed in high resolution to offer crisp, sharp designs that enable trouble free coloring and high quality display.Suitable for All Skill Levels. This coloring book offers a broad variety of designs suited for all skill levels - ranging from beginner to expert level.A Great Gift. Coloring books make a wonderful gift Anthony Hamilton coloring books are frequently one of the most gifted items.Buy Now & Relax.Scroll to the top of the page and click the Add to Cart button.

Constructing Superior Software

Monsters and Other Scary Stuff

Essential Software Architecture

Automotive Software Architectures

Evaluating Software Architectures

An Introduction