

Monolithic Architecture



Microservice Architecture



Many Small Monoliths Microservices Vs Monolithic

Jaime Buelta

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Many Small Monoliths Microservices Vs Monolithic:

Bootstrapping Microservices, Second Edition Ashley Davis, 2024-04-23 Bootstrapping Microservices Second Edition is a guide to microservices and cloud native distributed applications In it you ll learn how to configure cloud infrastructure with Terraform package microservices using Docker and deploy your finished project to a Kubernetes cluster

Domain-Driven Transformation Carola Lilienthal, Henning Schwentner, 2025-11-11 To prepare legacy software for the future it s essential to modernize it Domain Driven Transformation provides an effective approach for transforming large legacy systems either by breaking them into microservices or by converting them into maintainable modular monoliths In this guide Carola Lilienthal and Henning Schwentner present their method a comprehensive approach for transforming architecturally eroded software systems at the strategic technical and team organizational levels You ll learn how to analyze business processes break them down into bounded contexts and apply domain driven refactorings within Agile teams Finally this book offers guidance on designing the transformation process based on the current state of the existing architecture Packed with real world examples and case driven insights you ll uncover the tools you need to build systems that scale support business agility and remain resilient over time Assess your system s modularity and architectural health with the Modularity Maturity Index MMI Apply strategic and tactical domain driven design DDD to manage complexity Reorganize and align your teams with Team Topologies Use EventStorming domain storytelling and Scenario Casting to clarify design Refactor incrementally with patterns that reduce risk while delivering value

Enabling Microservice Success Sarah Wells, 2024-03-26 Microservices can be a very effective approach for delivering value to your organization and to your customers If you get them right microservices help you to move fast by making changes to small parts of your system hundreds of times a day But if you get them wrong microservices will just make everything more complicated In this book technical engineering leader Sarah Wells provides practical in depth advice for moving to microservices Having built her first microservice architecture in 2013 for the Financial Times Sarah discusses the approaches you need to take from the start and explains the potential problems most likely to trip you up You ll also learn how to maintain the architecture as your systems mature while minimizing the time you spend on support and maintenance With this book you will Learn the impact of microservices on software development patterns and practices Identify the organizational changes you need to make to successfully build and operate this architecture Determine the steps you must take before you move to microservices Understand the traps to avoid when you create a microservices architecture and learn how to recover if you fall into one

Evolving the Monolith to Microservices with Java and Node Sandro De Santis, Luis Florez, Duy V Nguyen, Eduardo Rosa, IBM Redbooks, 2016-12-05 Microservices is an architectural style in which large complex software applications are composed of one or more smaller services Each of these microservices focuses on completing one task that represents a small business capability These microservices can be developed in any programming language This IBM Redbooks publication shows how to break out a traditional Java EE

application into separate microservices and provides a set of code projects that illustrate the various steps along the way. These code projects use the IBM WebSphere Application Server Liberty, IBM API Connect™, IBM Bluemix and other Open Source Frameworks in the microservices ecosystem. The sample projects highlight the evolution of monoliths to microservices with Java and Node.

Software Engineering in the Era of Cloud Computing Muthu Ramachandran, Zaigham Mahmood, 2020-01-01. This book focuses on the development and implementation of cloud based complex software that allows parallelism, fast processing and real time connectivity. Software engineering (SE) is the design, development, testing and implementation of software applications and this discipline is as well developed as the practice is well established, whereas the Cloud Software Engineering (CSE) is the design, development, testing and continuous delivery of service oriented software systems and applications. Software as a Service Paradigm. However, with the emergence of the highly attractive cloud computing (CC) paradigm, the tools and techniques for SE are changing. CC provides the latest software development environments and the necessary platforms relatively easily and inexpensively. It also allows the provision of software applications equally easily and on a pay as you go basis. Business requirements for the use of software are also changing and there is a need for applications in big data analytics, parallel computing, AI, natural language processing and biometrics etc. These require huge amounts of computing power and sophisticated data management mechanisms as well as device connectivity for Internet of Things (IoT) environments. In terms of hardware, software, communication and storage, CC is highly attractive for developing complex software that is rapidly becoming essential for all sectors of life including commerce, health, education and transportation. The book fills a gap in the SE literature by providing scientific contributions from researchers and practitioners focusing on frameworks, methodologies, applications, benefits and inherent challenges, barriers to engineering software using the CC paradigm.

Microservice APIs Jose Haro Peralta, 2023-03-07. Strategies, best practices and patterns that will help you design resilient microservices architecture and streamline your API integrations. In *Microservice APIs* you will discover: Service decomposition strategies for microservices; Documentation driven development for APIs; Best practices for designing REST and GraphQL APIs; Documenting REST APIs with the OpenAPI specification (formerly Swagger); Documenting GraphQL APIs using the Schema Definition Language; Building microservices APIs with Flask, FastAPI, Ariadne and other frameworks; Service implementation patterns for loosely coupled services; Property based testing to validate your APIs and using automated API testing frameworks like schemathesis and Dredd; Adding authentication and authorization to your microservice APIs using OAuth and OpenID Connect (OIDC); Deploying and operating microservices in AWS with Docker and Kubernetes. *Microservice APIs* teaches you practical techniques for designing robust microservices with APIs that are easy to understand, consume and maintain. You will benefit from author Jos Haro Peralta's years of experience experimenting with microservices architecture, dodging pitfalls and learning from mistakes he's made. Inside you will find strategies for delivering successful API integrations, implementing services with clear boundaries, managing cloud

deployments and handling microservices security Written in a framework agnostic manner its universal principles can easily be applied to your favorite stack and toolset About the technology Clean clear APIs are essential to the success of microservice applications Well designed APIs enable reliable integrations between services and help simplify maintenance scaling and redesigns This book teaches you the patterns protocols and strategies you need to design build and deploy effective REST and GraphQL microservices APIs About the book Microservice APIs gathers proven techniques for creating and building easy to consume APIs for microservices applications Rich with proven advice and Python based examples this practical book focuses on implementation over philosophy You ll learn how to build robust microservice APIs test and protect them and deploy them to the cloud following principles and patterns that work in any language What s inside Service decomposition strategies for microservices Best practices for designing and building REST and GraphQL APIs Service implementation patterns for loosely coupled components API authorization with OAuth and OIDC Deployments with AWS and Kubernetes About the reader For developers familiar with the basics of web development Examples are in Python About the author Jos Haro Peralta is a consultant author and instructor He s also the founder of microapis io Table of Contents PART 1 INTRODUCING MICROSERVICE APIS 1 What are microservice APIs 2 A basic API implementation 3 Designing microservices PART 2 DESIGNING AND BUILDING REST APIS 4 Principles of REST API design 5 Documenting REST APIs with OpenAPI 6 Building REST APIs with Python 7 Service implementation patterns for microservices PART 3 DESIGNING AND BUILDING GRAPHQL APIS 8 Designing GraphQL APIs 9 Consuming GraphQL APIs 10 Building GraphQL APIs with Python PART 4 SECURING TESTING AND DEPLOYING MICROSERVICE APIS 11 API authorization and authentication 12 Testing and validating APIs 13 Dockerizing microservice APIs 14 Deploying microservice APIs with Kubernetes *Cloud Application Architecture Patterns* Kyle Brown,Bobby Woolf,Joseph Yoder,2025-04-15 There are more applications running in the cloud than there are ones that run well there If you re considering taking advantage of cloud technology for your company s projects this practical guide is an ideal way to understand the best practices that will help you architect applications that work well in the cloud no matter which vendors products or languages you use Architects and lead developers will learn how cloud applications should be designed how they fit into a larger architectural picture and how to make them operate efficiently Authors Kyle Brown Bobby Woolf and Joseph Yoder take you through the process step by step Explore proven architectural practices for developing applications for the cloud Understand why some architectural choices are better suited than others for applications intended to run on the cloud Learn design and implementation techniques for developing cloud applications Select the most appropriate cloud adoption patterns for your organization See how all potential choices in application design relate to each other through the connections of the patterns Chart your own course in adopting the right strategies for developing application architectures for the cloud Strategic Monoliths and Microservices Vaughn Vernon,Tomasz Jaskula,2021-10-27 Make Software Architecture Choices That Maximize Value and Innovation Vernon and

Jasku provide insights tools proven best practices and architecture styles both from the business and engineering viewpoint This book deserves to become a must read for practicing software engineers executives as well as senior managers Michael Stal Certified Senior Software Architect Siemens Technology Strategic Monoliths and Microservices helps business decision makers and technical team members clearly understand their strategic problems through collaboration and identify optimal architectural approaches whether the approach is distributed microservices well modularized monoliths or coarser grained services partway between the two Leading software architecture experts Vaughn Vernon and Tomasz Jasku a show how to make balanced architectural decisions based on need and purpose rather than hype so you can promote value and innovation deliver more evolvable systems and avoid costly mistakes Using realistic examples they show how to construct well designed monoliths that are maintainable and extensible and how to gradually redesign and reimplement even the most tangled legacy systems into truly effective microservices Link software architecture planning to business innovation and digital transformation Overcome communication problems to promote experimentation and discovery based innovation Master practices that support your value generating goals and help you invest more strategically Compare architectural styles that can lead to versatile adaptable applications and services Recognize when monoliths are your best option and how best to architect design and implement them Learn when to move monoliths to microservices and how to do it whether they re modularized or a Big Ball of Mud Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

Learn Microservices with Spring Boot Moises Macero,2017-12-08 Build a microservices architecture with Spring Boot by evolving an application from a small monolith to an event driven architecture composed of several services This book follows an incremental approach to teach microservice structure test driven development Eureka Ribbon Zuul and end to end tests with Cucumber Author Moises Macero follows a very pragmatic approach to explain the benefits of using this type of software architecture instead of keeping you distracted with theoretical concepts He covers some of the state of the art techniques in computer programming from a practical point of view You ll focus on what s important starting with the minimum viable product but keeping the flexibility to evolve it What You ll Learn Build microservices with Spring Boot Use event driven architecture and messaging with RabbitMQ Create RESTful services with Spring Master service discovery with Eureka and load balancing with Ribbon Route requests with Zuul as your API gateway Write end to end tests for an event driven architecture using Cucumber Carry out continuous integration and deployment Who This Book Is For Those with at least some prior experience with Java programming Some prior exposure to Spring Boot recommended but not required

[Python Architecture Patterns](#) Jaime Buelta,2022-01-12 Make the best of your test suites by using cutting edge software architecture patterns in Python Key FeaturesLearn how to create scalable and maintainable applicationsBuild a web system for micro messaging using concepts in the bookUse profiling to find bottlenecks and improve the speed of the systemBook Description Developing large scale systems that continuously grow in scale and

complexity requires a thorough understanding of how software projects should be implemented Software developers architects and technical management teams rely on high level software design patterns such as microservices architecture event driven architecture and the strategic patterns prescribed by domain driven design DDD to make their work easier This book covers these proven architecture design patterns with a forward looking approach to help Python developers manage application complexity and get the most value out of their test suites Starting with the initial stages of design you will learn about the main blocks and mental flow to use at the start of a project The book covers various architectural patterns like microservices web services and event driven structures and how to choose the one best suited to your project Establishing a foundation of required concepts you will progress into development debugging and testing to produce high quality code that is ready for deployment You will learn about ongoing operations on how to continue the task after the system is deployed to end users as the software development lifecycle is never finished By the end of this Python book you will have developed architectural thinking a different way of approaching software design including making changes to ongoing systems What you will learn Think like an architect analyzing software architecture patterns Explore API design data storage and data representation methods Investigate the nuances of common architectural structures Utilize and interoperate elements of patterns such as microservices Implement test driven development to perform quality code testing Recognize chunks of code that can be restructured as packages Maintain backward compatibility and deploy iterative changes Who this book is for This book will help software developers and architects understand the structure of large complex systems and adopt architectural patterns that are scalable Examples in the book are implemented in Python so a fair grasp of basic Python concepts is expected Proficiency in any programming languages such as Java or JavaScript is sufficient

Systems, Software and Services Process Improvement Murat Yilmaz, Paul Clarke, Richard Messnarz, Bruno Wöran, 2022-08-25 This volume constitutes the refereed proceedings of the 29th European Conference on Systems Software and Services Process Improvement EuroSPI 2022 held in Salzburg Austria in August September 2022 The 49 full papers and 8 short papers presented were carefully reviewed and selected from 110 submissions The papers are organized according to the following topical sections SPI and emerging and multidisciplinary approaches to software engineering digitalisation of industry infrastructure and e mobility SPI and good bad SPI practices in improvement SPI and functional safety and cybersecurity SPI and agile SPI and standards and safety and security norms SPI and team skills and diversity SPI and recent innovations virtual reality and augmented reality

Learning Serverless Jason Katzer, 2020-10-29 Whether your company is considering serverless computing or has already made the decision to adopt this model this practical book is for you Author Jason Katzer shows early and mid career developers what s required to build and ship maintainable and scalable services using this model With this book you ll learn how to build a modern production system in the cloud viewed through the lens of serverless computing You ll discover how serverless can free you from the tedious task of setting up and maintaining systems in production You ll also explore new

ways to level up your career and design, develop and deploy with confidence. In three parts, this book includes:

- The Path to Production:** Examine the ins and outs of distributed systems, microservices, interfaces, and serverless architecture and patterns.
- The Tools:** Dive into monitoring, observability, and alerting, logging, pipelines, automation, and deployment.
- Concepts:** Learn how to design security and privacy, how to manage quality through testing and staging, and how to plan for failure.

[Scaling Beyond Monoliths: A Guide to Building Reliable, Cloud-Native, Multi-Tenant Distributed Systems \(Vol-II\)](#) 2025 Sumit Kumar Agrawal, Dr. Kamal Kant Verma, PREFACE

In today's rapidly evolving digital landscape, the shift from monolithic architectures to distributed systems has become a fundamental necessity for organizations aiming to scale their applications, improve reliability, and enhance flexibility. As businesses grow, so do the demands on their systems, requiring a move toward cloud-native, multi-tenant architectures that can handle large-scale workloads while providing an optimal user experience across diverse customers and environments.

[Scaling Beyond Monoliths: A Guide to Building Reliable Cloud-Native Multi-Tenant Distributed Systems](#) offers a comprehensive approach to transforming traditional monolithic applications into scalable, resilient, and cloud-native distributed systems. This book is designed for software engineers, architects, and technical leaders who seek to navigate the complexities of building and scaling multi-tenant applications in modern cloud environments.

Through this guide, we'll explore the essential principles and design patterns that enable the creation of robust distributed systems. We'll dive into the challenges and best practices of designing for multi-tenancy, including tenant isolation, data security, and efficient resource management. Moreover, we'll explore the power of cloud-native technologies such as containers, microservices, and orchestration platforms like Kubernetes to build scalable and fault-tolerant architectures. We'll also tackle real-world scenarios, addressing how to migrate from legacy monolithic systems and the strategic decisions necessary to ensure that your distributed system is optimized for both operational efficiency and customer satisfaction.

As the need for scalable, resilient, and cost-effective systems continues to grow, organizations must move beyond traditional monolithic designs. Whether you're just starting your journey or seeking to refine your existing multi-tenant architecture, [Scaling Beyond Monoliths](#) will equip you with the knowledge to design and build systems that are not only scalable and reliable but also capable of driving innovation and growth in a cloud-native world.

[Authors](#) [Clean Code with C#](#) Jason Alls, 2023-12-22

Enhance your programming skills through code reviews, TDD, and BDD implementation, and API design to overcome code inefficiency, redundancy, and other issues arising from bad code.

Key Features: Write code that seamlessly integrates with other systems while maintaining well-defined software boundaries. Understand how coding principles and standards elevate software quality. Learn how to avoid common errors while implementing concurrency or threading.

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Book Description: Traditionally associated with Windows desktop applications and game development, C has expanded into web, cloud, and mobile development. However, despite its extensive coding features, professionals often encounter issues with efficiency, scalability, and maintainability due to poor code

Clean Code in C guides you in identifying and resolving these problems using coding best practices This book starts by comparing good and bad code to emphasize the importance of coding standards principles and methodologies It then covers code reviews unit testing and test driven development and addresses cross cutting concerns As you advance through the chapters you ll discover programming best practices for objects data structures exception handling and other aspects of writing C computer programs You ll also explore API design and code quality enhancement tools while studying examples of poor coding practices to understand what to avoid By the end of this clean code book you ll have the developed the skills needed to apply industry approved coding practices to write clean readable extendable and maintainable C code What you will learn Master the art of writing evolvable and adaptable code Implement the fail pass refactor methodology using a sample C console application Develop custom C exceptions that provide meaningful information Identify low quality C code in need of refactoring Improve code performance using profiling and refactoring tools Create efficient and bug free code using functional programming techniques Write cross platform code using MAUI Develop cloud deployable microservices for versatile applications Who this book is for This coding book is for proficient C developers team leads senior software engineers and software architects who want to improve the efficiency of their legacy systems A strong understanding of C programming is assumed

AI and Microservices Dileep Kumar Pandiya,Nilesh Charankar,2025-07-01 This book explores how artificial intelligence AI is transforming the design and operation of microservices and API architecture It provides a clear and practical guide to using AI to automate tasks enhance performance and improve the scalability of microservice based systems Starting with the basics you will learn about the core concepts of microservices and API design gradually building an understanding of how AI can be seamlessly integrated Through real world examples visual diagrams and mock APIs the book shows you how to bring theory into practice making complex systems easier to manage and more efficient You will also discover strategies for testing and scaling systems securing APIs and addressing ethical challenges in AI powered environments Case studies highlight successful implementations offering valuable insights you can apply to your own projects Whether you re a developer architect or tech enthusiast this book gives you the tools and inspiration to build smarter more resilient systems while staying ahead of future trends in AI and distributed computing What You ll Learn Understand the basics of microservices and API design and see how AI can make these systems smarter and more efficient Discover how to use AI in microservices and APIs to automate tasks improve performance and boost security Learn how to design scalable and secure systems by following best practices and innovative approaches Get practical tips on troubleshooting and solving challenges in AI powered microservice architectures Who is this book for Software architects and engineers AI and machine learning professionals and DevOps engineers

Java EE 8 and Angular Prashant Padmanabhan,2018-01-11 Learn how to build high performing enterprise applications using Java EE powered by Angular at the frontend Key Features Leverage Java EE 8 features to build robust backend for your enterprise applications Use Angular

to build a single page frontend and combine it with the Java EE backend A practical guide filled with ample real world examples

Book Description The demand for modern and high performing web enterprise applications is growing rapidly No more is a basic HTML frontend enough to meet customer demands This book will be your one stop guide to build outstanding enterprise web applications with Java EE and Angular It will teach you how to harness the power of Java EE to build sturdy backends while applying Angular on the frontend Your journey to building modern web enterprise applications starts here The book starts with a brief introduction to the fundamentals of Java EE and all the new APIs offered in the latest release Armed with the knowledge of Java EE 8 you will go over what it s like to build an end to end application configure database connection for JPA and build scalable microservices using RESTful APIs running in Docker containers Taking advantage of the Payara Micro capabilities you will build an Issue Management System which will have various features exposed as services using the Java EE backend With a detailed coverage of Angular fundamentals the book will expand the Issue Management System by building a modern single page application frontend Moving forward you will learn to fit both the pieces together that is the frontend Angular application with the backend Java EE microservices As each unit in a microservice promotes high cohesion you will learn different ways in which independent units can be tested efficiently Finishing off with concepts on securing your enterprise applications this book is a hands on guide for building modern web applications What you will learn Write CDI based code in Java EE 8 applications Build an understanding of microservices and what they mean in a Java EE context Employ Docker to build and run microservice applications Use configuration options to work effectively with JSON documents Handle asynchronous task and write REST API clients Set the foundation for working on Angular projects with the fundamentals of TypeScript Learn to use Angular CLI to add and manage new features Secure Angular applications using malicious attacks adopting JSON Web tokens Who this book is for This book is for Java EE developers who would like to build modern enterprise web applications using Angular No knowledge of Angular is required

The Cloud Adoption Playbook Moe Abdula, Ingo Averdunk, Roland Barcia, Kyle Brown, Ndu Emuchay, 2018-03-07 The essential roadmaps for enterprise cloud adoption As cloud technologies continue to challenge the fundamental understanding of how businesses work smart companies are moving quickly to adapt to a changing set of rules Adopting the cloud requires a clear roadmap backed by use cases grounded in practical real world experience to show the routes to successful adoption The Cloud Adoption Playbook helps business and technology leaders in enterprise organizations sort through the options and make the best choices for accelerating cloud adoption and digital transformation Written by a team of IBM technical executives with a wealth of real world client experience this book cuts through the hype answers your questions and helps you tailor your cloud adoption and digital transformation journey to the needs of your organization This book will help you Discover how the cloud can fulfill major business needs Adopt a standardized Cloud Adoption Framework and understand the key dimensions of cloud adoption and digital transformation Learn how cloud adoption impacts culture architecture security

and more Understand the roles of governance methodology and how the cloud impacts key players in your organization Providing a collection of winning plays championship advice and real world examples of successful adoption this playbook is your ultimate resource for making the cloud work There has never been a better time to adopt the cloud Cloud solutions are more numerous and accessible than ever before and evolving technology is making the cloud more reliable more secure and more necessary than ever before Don t let your organization be left behind The Cloud Adoption Playbook gives you the essential guidance you need to make the smart choices that reduce your organizational risk and accelerate your cloud adoption and digital transformation

Java 8 to 21 Shai Almog,2023-07-01 A comprehensive guide empowering developers with the advanced capabilities of Java KEY FEATURES Gain insights into the significant changes and features introduced in Java versions 8 to 21 Learn how to build Java applications with Spring and Spring Boot Monitor diagnose and optimize the performance of your Java applications in production environments DESCRIPTION Are you still using Java in the same old way Java 21 has evolved into a dynamic and concise language with a vibrant and rich ecosystem If you re seeking to expand your knowledge of modern Java programming this book is the ideal resource for you This practical book offers valuable guidance on effectively utilizing the latest syntax enhancements in order to write code that is both streamlined and easy to understand It not only provides detailed insights into the inner workings of the Java virtual machine JVM but also equips you with the knowledge necessary to excel in building scalable and resilient applications using a variety of powerful techniques such as Spring Boot Spring Native GraalVM and other innovative methodologies Furthermore the book assists you in navigating the complexities of testing and packaging helping you comprehend and navigate intricate processes It also introduces you to cutting edge deployment methodologies that leverage Docker and Kubernetes ensuring that you stay up to date with the most recent advancements in software development and deployment practices By the time you finish reading this book you will have upgraded your Java programming techniques and gained the ability to fully exploit the latest and greatest advancements in the language WHAT YOU WILL LEARN Explore different techniques for developing multithreaded applications in Java Harness the power of modern Java and Spring Boot 3 to elevate your server development capabilities Utilize the power of Docker Kubernetes and Spring Native to streamline your cloud based deployments Integrate unit testing Mockito and continuous integration CI into your Java projects Use Prometheus and Grafana to monitor the performance of your Java applications WHO THIS BOOK IS FOR This book is suitable for individuals who are new to Java and have little to no experience but possess a basic understanding of the syntax Additionally it provides valuable insights for developers who may have not utilized Java in a significant timeframe TABLE OF CONTENTS 1 Hello Java 2 OOP Patterns 3 8 to 21 to GraalVM 4 Modern Threading 5 It s Springtime in Java 6 Testing and CI 7 Docker Kubernetes and Spring Native 8 Microservices 9 Serverless 10 Monitoring and Observability

Kubernetes And Cloud Native Associate Kcna Certification Prep Guide : 350 Questions & Answers CloudRoar Consulting Services,2025-08-15 Get ready for the Kubernetes and Cloud Native

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Current Trends in Web Engineering Irene Garrigós, Manuel Wimmer, 2018-02-21 This book constitutes the refereed thoroughly refereed post workshop proceedings of the 17th International Conference on Web Engineering ICWE 2017 held in Rome Italy in June 2017 The 24 revised full papers were selected from 34 submissions The workshops complement the main conference and explore new trends on core topics of Web engineering The workshop committee accepted five workshops of which the following four contributed papers to this volume 2nd International Workshop on Liquid Multi Device Software and 1st International Workshop on Engineering the Web of Things International Workshop on The Practice Of The Open Web practi O web 2017 3rd International Workshop on Natural Language Processing for Informal Text NLPIT 2017 3rd International Workshop on Mining the Social Web SoWeMine 2017

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Many Small Monoliths Microservices Vs Monolithic Introduction

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