Vital techniques of Java 7 and polyglot programming

The Well-Grounded Java Developer

Benjamin J. Evans
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FOREWORD BY Dr. Heinz Kabutz

MANNING

The Well Grounded Java Developer Vital Techniques Of Java 7 And Polyglot Programming

Peter Verhas

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The Well-Grounded Java Developer Benjamin Evans,Martijn Verburg,2012-07-09 Summary The Well Grounded Java Developer offers a fresh and practical look at new Java 7 features new JVM languages and the array of supporting technologies you need for the next generation of Java based software About the Book The Well Grounded Java Developer starts with thorough coverage of Java 7 features like try with resources and NIO 2 You ll then explore a cross section of emerging JVM based languages including Groovy Scala and Clojure You will find clear examples that are practical and that help you dig into dozens of valuable development techniques showcasing modern approaches to the dev process concurrency performance and much more Written for readers familiar with Java No experience with Java 7 or new JVM languages required 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 New Java 7 features Tutorials on Groovy Scala and Clojure Discovering multicore processing and concurrency Functional programming with new JVM languages Modern approaches to testing build and CI Table of Contents PART 1 DEVELOPING WITH JAVA 7 Introducing Java 7 New I O PART 2 VITAL TECHNIQUES Dependency Injection Modern concurrency Class files and bytecode Understanding performance tuning PART 3 POLYGLOT PROGRAMMING ON THE JVM Alternative JVM languages Groovy Java s dynamic friend Scala powerful and concise Clojure safer programming PART 4 CRAFTING THE POLYGLOT PROJECT Test driven development Build and continuous integration Rapid web development Staying well grounded **Modern Software Engineering Methodologies for Mobile and Cloud Environments** Rosado da Cruz, António Miguel,2016-01-20 As technology continues to evolve the popularity of mobile computing has become inherent within today s society With the majority of the population using some form of mobile device it has become increasingly important to develop more efficient cloud platforms Modern Software Engineering Methodologies for Mobile and Cloud Environments investigates emergent trends and research on innovative software platforms in mobile and cloud computing Featuring state of the art software engineering methods as well as new techniques being utilized in the field this book is a pivotal reference source for professionals researchers practitioners and students interested in mobile and cloud environments **Microservices** Antonio Bucchiarone,Nicola Dragoni,Schahram Dustdar,Patricia Lago,Manuel Mazzara,Victor Rivera,Andrey Sadovykh,2019-12-11 This book describes in contributions by scientists and practitioners the development of scientific concepts technologies engineering techniques and tools for a service based society The focus is on microservices i e cohesive independent processes deployed in isolation and equipped with dedicated memory persistence tools which interact via messages The book is structured in six parts Part 1 Opening analyzes the new and old challenges including service design and specification data integrity and consistency management and provides the introductory information needed to successfully digest the remaining parts Part 2 Migration discusses the issue of migration from monoliths to microservices and their loosely coupled architecture Part 3 Modeling introduces a catalog and a taxonomy of the

most common microservices anti patterns and identifies common problems It also explains the concept of RESTful conversations and presents insights from studying and developing two further modeling approaches Next Part 4 is dedicated to various aspects of Development and Deployment Part 5 then covers Applications of microservices presenting case studies from Industry 4 0 Netflix and customized SaaS examples Eventually Part 6 focuses on Education and reports on experiences made in special programs both at academic level as a master program course and for practitioners in an industrial training As only a joint effort between academia and industry can lead to the release of modern paradigm based programming languages and subsequently to the deployment of robust and scalable software systems the book mainly targets researchers in academia and industry who develop tools and applications for microservices **Unraveling Software Maintenance and Evolution** Ervin Varga,2018-01-29 Software maintenance work is often considered a dauntingly rigid activity this book proves the opposite it demands high levels of creativity and thinking outside the box Highlighting the creative aspects of software maintenance and combining analytical and systems thinking in a holistic manner the book motivates readers not to blithely follow the beaten tracks of technical rationality It delivers the content in a pragmatic fashion using case studies which are woven into long running story lines The book is organized in four parts which can be read in any order except for the first chapter which introduces software maintenance and evolution and presents a number of case studies of software failures The Introduction to Key Concepts briefly introduces the major elements of software maintenance by highlighting various core concepts that are vital in order to see the forest for the trees Each such concept is illustrated with a worked example Next the Forward Engineering part debunks the myth that being fast and successful during initial development is all that matters To this end two categories of forward engineering are considered an inept initial project with a multitude of hard evolutionary phases and an effective initial project with multiple straightforward future increments Reengineering and Reverse Engineering shows the difficulties of dealing with a typical legacy system and tackles tasks such as retrofitting tests documenting a system restructuring a system to make it amenable for further improvements etc Lastly the DevOps section focuses on the importance and benefits of crossing the development versus operation chasm and demonstrates how the DevOps paradigm can turn a loosely coupled design into a loosely deployable solution The book is a valuable resource for readers familiar with the Java programming language and with a basic understanding and or experience of software construction and testing Packed with examples for every elaborated concept it offers complementary material for existing courses and is useful for students and professionals alike **MongoDB in Action** Kyle Banker,Douglas Garrett,Peter Bakkum,Shaun Verch,2016-03-29 Summary MongoDB in Action Second Edition is a completely revised and updated version It introduces MongoDB 3 0 and the document oriented database model This perfectly paced book gives you both the big picture you ll need as a developer and enough low level detail to satisfy system engineers Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology This document oriented

database was built for high availability supports rich dynamic schemas and lets you easily distribute data across multiple servers MongoDB 3 0 is flexible scalable and very fast even with big data loads About the Book MongoDB in Action Second Edition is a completely revised and updated version It introduces MongoDB 3 0 and the document oriented database model This perfectly paced book gives you both the big picture you ll need as a developer and enough low level detail to satisfy system engineers Lots of examples will help you develop confidence in the crucial area of data modeling You ll also love the deep explanations of each feature including replication auto sharding and deployment What s Inside Indexes queries and standard DB operations Aggregation and text searching Map reduce for custom aggregations and reporting Deploying for scale and high availability Updated for Mongo 3 0 About the Reader Written for developers No previous MongoDB or NoSQL experience is assumed About the Authors After working at MongoDB Kyle Banker is now at a startup Peter Bakkum is a developer with MongoDB expertise Shaun Verch has worked on the core server team at MongoDB A Genentech engineer Doug Garrett is one of the winners of the MongoDB Innovation Award for Analytics A software architect Tim Hawkins has led search engineering at Yahoo Europe Technical Contributor Wouter Thielen Technical Editor Mihalis Tsoukalos Table of Contents PART 1 GETTING STARTED A database for the modern web MongoDB through the JavaScript shell Writing programs using MongoDB PART 2 APPLICATION DEVELOPMENT IN MONGODB Document oriented data Constructing queries Aggregation Updates atomic operations and deletes PART 3 MONGODB MASTERY Indexing and query optimization Text search WiredTiger and pluggable storage Replication Scaling your system with sharding Deployment and administration

The Well-Grounded Java Developer, Second Edition Benjamin Evans,Martijn Verburg,Jason Clark,2022-12-27 Understanding Java from the JVM up gives you a solid foundation to grow your expertise and take on advanced techniques for performance concurrency containerization and more In The Well Grounded Java Developer Second Edition you will learn The new Java module system and why you should use it Bytecode for the JVM including operations and classloading Performance tuning the JVM Working with Java s built in concurrency and expanded options Programming in Kotlin and Clojure on the JVM Maximizing the benefits from your build CI tooling with Maven and Gradle Running the JVM in containers Planning for future JVM releases The Well Grounded Java Developer Second Edition introduces both the modern innovations and timeless fundamentals you need to know to become a Java master Authors Ben Evans Martijn Verburg and Jason Clark distill their decades of experience as Java Champions veteran developers and key contributors to the Java ecosystem into this clear and practical guide You ll discover how Java works under the hood and learn design secrets from Java s long history Each concept is illustrated with hands on examples including a fully modularized application library and creating your own multithreaded application Foreword by Heinz Kabutz About the technology Java is the beating heart of enterprise software engineering Developers who really know Java can expect easy job hunting and interesting work Written by experts with years of boots on the ground experience this book upgrades your Java skills It dives into powerful features like modules and

concurrency models and even reveals some of Java s deep secrets About the book With The Well Grounded Java Developer Second Edition you will go beyond feature descriptions and learn how Java operates at the bytecode level Master high value techniques for concurrency and performance optimization along with must know practices for build test and deployment You ll even look at alternate JVM languages like Kotlin and Clojure Digest this book and stand out from the pack What s inside The new Java module system Performance tuning the JVM Maximizing CI CD with Maven and Gradle Running the JVM in containers Planning for future JVM releases About the reader For intermediate Java developers About the author Benjamin J Evans is a senior principal engineer at Red Hat Martijn Verburg is the principal SWE manager for Microsoft s Java Engineering Group Both Benjamin and Martijn are Java Champions Jason Clark is a principal engineer and architect at New Relic Table of Contents PART 1 FROM 8 TO 11 AND BEYOND 1 Introducing modern Java 2 Java modules 3 Java 17 PART 2 UNDER THE HOOD 4 Class files and bytecode 5 Java concurrency fundamentals 6 JDK concurrency libraries 7 Understanding Java performance PART 3 NON JAVA LANGUAGES ON THE JVM 8 Alternative JVM languages 9 Kotlin 10 Clojure A different view of programming PART 4 BUILD AND DEPLOYMENT 11 Building with Gradle and Maven 12 Running Java in containers 13 Testing fundamentals 14 Testing beyond JUnit PART 5 JAVA FRONTIERS 15 Advanced functional programming 16 Advanced concurrent programming 17 Modern internals 18 Future Java *Java in a Nutshell* Benjamin J Evans,David Flanagan,2014-10-16 The latest edition of Java in a Nutshell is designed to help experienced Java programmers get the most out of Java 7 and 8 but it s also a learning path for new developers Chock full of examples that demonstrate how to take complete advantage of modern Java APIs and development best practices the first section of this thoroughly updated book provides a fast paced no fluff introduction to the Java programming language and the core runtime aspects of the Java platform The second section is a reference to core concepts and APIs that shows you how to perform real programming work in the Java environment Get up to speed on language details including Java 8 changes Learn object oriented programming using basic Java syntax Explore generics enumerations annotations and lambda expressions Understand basic techniques used in object oriented design Examine concurrency and memory and how they re intertwined Work with Java collections and handle common data formats Delve into Java s latest I O APIs including asynchronous channels Use Nashorn to execute JavaScript on the Java Virtual Machine Become familiar with development tools in OpenJDK Modern Java Adam L. Davis,2014-02-02 This book should help you understand the latest in Java 7 concurrent programming build testing and web frameworks and the best JVM languages so you can advance your career in software development It s an exciting time to be a programmer especially in the JVM space Java 7 is widely used Java 8 is getting closer to completion while other JVM languages like Groovy and Scala have been increasing in popularity With the accelerating pace of change in technology it s important as a programmer to always be learning and looking forward to the latest and greatest technology This book is meant for the following people people who want to learn about the latest Java and JVM technology Java developers who are

curious about Groovy Scala etc and developers who believe that learning about other tools and languages make them better developers **97 Things Every Java Programmer Should Know** Kevlin Henney,Trisha Gee,2020-05-15 If you want to push your Java skills to the next level this book provides expert advice from Java leaders and practitioners You ll be encouraged to look at problems in new ways take broader responsibility for your work stretch yourself by learning new techniques and become as good at the entire craft of development as you possibly can Edited by Kevlin Henney and Trisha Gee 97 Things Every Java Programmer Should Know reflects lifetimes of experience writing Java software and living with the process of software development Great programmers share their collected wisdom to help you rethink Java practices whether working with legacy code or incorporating changes since Java 8 A few of the 97 things you should know Behavior Is Easy State Is Hard Edson Yanaga Learn Java Idioms and Cache in Your Brain Jeanne Boyarsky Java Programming from a JVM Performance Perspective Monica Beckwith Garbage Collection Is Your Friend Holly K Cummins Java s Unspeakable Types Ben Evans The Rebirth of Java Sander Mak Do You Know What Time It Is Christin Gorman **Java 7 Recipes** Josh Juneau,Mark Beaty,Carl Dea,Freddy Guime,John OConner,2012-03-20 Java 7 Recipes offers solutions to common programming problems encountered every day while developing Java based applications Fully updated with the newest features and techniques available Java 7 Recipes provides code examples involving Servlets Java FX 2 0 XML Java Swing and much more Content is presented in the popular problem solution format Look up the programming problem that you want to solve Read the solution Apply the solution directly in your own code Problem solved The problem solution approach sets Java 7 Recipes apart from other books on the topic Java 7 Recipes is focused less on the language itself and more on what you can do with it that is useful The book respects your time by always focusing on a task that you might want to perform using the language Solutions come first Explanations come later You are free to crib from the book and apply the code examples directly to your own projects Covers all new release of Java Java 7 Focuses especially on up and coming technologies such as Java FX 2 0 Respects your time by focusing on practical solutions you can implement in your own code Java Power Tools John Ferguson Smart,2008 All true craftsmen need the best tools to do their finest work and programmers are no different Java Power Tools delivers 30 open source tools designed to improve the development practices of Java developers in any size team or organization Each chapter includes a series of short articles about one particular tool whether it s for build systems version control or other aspects of the development process giving you the equivalent of 30 short reference books in one package No matter which development method your team chooses whether it s Agile RUP XP SCRUM or one of many others available Java Power Tools provides practical techniques and tools to help you optimize the process The book discusses key Java development problem areas and best practices and focuses on open source tools that can help increase productivity in each area of the development cycle including Build tools including Ant and Maven 2 Version control tools such as CVS and Subversion the two most prominent open source tools Quality metrics tools that measure different aspects of code quality

including CheckStyle PMD FindBugs and Jupiter Technical documentation tools that can help you generate good technical documentation without spending too much effort writing and maintaining it Unit Testing tools including JUnit 4 TestNG and the open source coverage tool Cobertura Integration Load and Performance Testing to integrate performance tests into unit tests load test your application and automatically test web services Swing interfaces and web interfaces Issue management tools including Bugzilla and Trac Continuous Integration tools such as Continuum Cruise Control LuntBuild and Hudson If you are a Java developer these tools can help improve your development practices and make your life easier in the process Lead developers software architects and people interested in the wider picture will be able to gather from these pages some useful ideas about improving your project infrastructure and best practices The Java Developer's Toolkit Joshua Marketos,1997 If you are a Java programmer who can t wait to tackle the new more sophisticated generation of Java programming The Java Developer s Toolkit is for you The book and its companion Web site get you up and running quickly with all the knowledge and skills you need to master the latest Java features and programming tools **Java Developer's Resource** Elliotte Rusty Harold,1997 Java Developer s Resource shows you how to write full featured dynamic graphical interactive Java applets and applications even if you don t have experience with other object oriented languages Starting with the simplest hello world applications you ll learn about Java variables arrays loops flow control and graphics as well as advanced language features such as file I O and streams **Pro Java 7 NIO.2** Anghel Leonard,2012-01-28 Pro Java 7 NIO 2 addresses the three primary elements that offer new input output I O APIs in Java 7 giving you the skills to write robust scalable Java applications An extensive file I O API system addresses feature requests that developers have sought since the inception of the JDK A socket channel API addresses multicasting socket binding associated with channels and related issues An asynchronous I O API enables mapping to I O facilities completion ports and various I O event port mechanisms to enhance scalability NIO 2 for the Java platform known as JSR 203 is a major feature of the new Java JDK 7 under the leadership of Alan Bateman as an OpenJDK project Take advantage of these exciting new developments with Pro Java 7 NIO 2 Java Concepts Cay S. Horstmann,2009-12-30 This book introduces programmers to objects at a gradual pace The syntax boxes are revised to show typical code examples rather than abstract notation This includes optional example modules using Alice and Greenfoot The examples feature annotations with dos and don ts along with cross references to more detailed explanations in the text New tables show a large number of typical and cautionary examples New programming and review problems are also presented that ensure a broad coverage of topics In addition Java 7 features are included to provide programmers with the most up to date information **Java 9 Programming By Example** Peter Verhas,2017-04-26 Get the steps you need to discover the world of Java 9 programming using real world examples About This Book We bridge the gap between learning and doing by providing real world examples that will improve your software development Our example based approach will get you started quickly with software programming get you up to speed with Java 9 and improve your

Java skills This book will show you the best practices of Java coding and improve your productivity Who This Book Is For This book is for anyone who wants to learn the Java programming language You are expected to have some prior programming experience with another language such as JavaScript or Python but no knowledge of earlier versions of Java is assumed What You Will Learn Compile package and run a trivial program using a build management tool Get to know the principles of test driven development and dependency management Separate the wiring of multiple modules from the application logic into an application using dependency injection Benchmark Java execution using Java 9 microbenchmarking See the workings of the Spring framework and use Java annotations for the configuration Master the scripting API built into the Java language and use the built in JavaScript interpreter Understand static versus dynamic implementation of code and high order reactive programming in Java In Detail This book gets you started with essential software development easily and quickly guiding you through Java s different facets By adopting this approach you can bridge the gap between learning and doing immediately You will learn the new features of Java 9 quickly and experience a simple and powerful approach to software development You will be able to use the Java runtime tools understand the Java environment and create Java programs We then cover more simple examples to build your foundation before diving to some complex data structure problems that will solidify your Java 9 skills With a special focus on modularity and HTTP 2 0 this book will guide you to get employed as a top notch Java developer By the end of the book you will have a firm foundation to continue your journey towards becoming a professional Java developer Style and approach Throughout this book our aim is to build Java programs We will be building multiple applications ranging from simpler ones to more complex ones Learning by doing has its advantages as you will immediately see the concepts explained in action **Teach Yourself Java** Joseph O'Neil,1998-10-22 A highly segmented approach to mastering the prowess of Java technology from core topics to present day features Unique coverage of Java teaches the language by applying mastery learning one idea at a time in sequential order clear writing with numerous examples and exercises review skills check in each chapter mastery skills check at the end of each chapter Java in a Nutshell Benjamin J. Evans,David Flanagan,2014-11-06 Aimed at experienced Java programmers offers up to date information for programming with Java 7 and 8 covering topics such as Java syntax memory and concurrency conventions Collections API and Nashorn Learn JAVA for WEB Improvement Nitin KANANI,2020-02-20 I often receive emails from my readers about how they can become a better Java developer what things they should learn and which area they can work on to become a Rockstar Java developer After answering them individually over last few years I thought to jot down a couple of points which I think will make you a better Java Programmerand Application developer But before going into that I would like to stress that a better programmer is always a better Java developer and that s why all the tips I have shared before to improve your programming skill and become a better programmer still holds true If you haven t read them yet you can read it after this article theywill help you to improve your programming and coding skill which isessential to becoming a better Java developer This article is

totally focused on Java development perspective and I assume you are already good at essential stuff like Coding Data Structures and Algorithms and Computer science concepts e g Networking Protocols Object oriented programming etc These tips are equally useful for both Core Java developer I mean Java guys who write server side applications but not really involved with webdevelopment skills e g JSP Servlet and JEE as well as for Java Web developer whose primary job is to write web applications using Java technology Though I have left out some web stuff e g learning JSF or Servlet 4 0for another day to keep this list short and simple Anyway without anyfurther ado here are some tips and suggestion to become a better Javadeveloper in 2019 1 Learn Java 8This is the most important thing for a Java developer right now It s good 4years old and even Java 9 has been released 6 month back and people aretalking about Java 10 features I know many programmers who have not written a single line of code using Java 8 features like lambdas and Stream API Unfortunately most of them are experienced Java developers with good 7 to 10 years of experience in their belt I understand that at some point in your career learning becomes slow but if you don t act now you will be left behind Almost all Java development job now required Java 8 skills and if you don thave them it would be very difficult to do well and perform well inyour Java interviews Now if you have made your mind to learn Java 8 but worry about where to start with I suggest you check The Complete Java MasterClass on Udemy which will teach you all the basics of Java 8 features And if you are interested in more advanced hands on course then Refactoring Java 8 by Dr Heinz Kabutz is a good one to join 2 Learn Spring Framework Spring Boot It s almost imperative nowadays for a Java developer to learn Springframework as most of the companies prefer to do development using Spring frameworks like Spring MVC Spring Boot and Spring Cloud for developing a web application REST APIs Microservices It also promotes best practices like dependency injection and makes yourapplication more testable which is a key requirement for modern daysoftware If you are a new Java developer then I suggest you to start with this Javaand Spring tutorial to learn the basics of this awesome framework andif you are already familiar with Spring then you should explore SpringBoot and Spring Cloud for developing next generation Java application If you are looking for some references then Learn Spring Boot Rapid Spring Application Development by Dan Vega is a good place to start with 3 Learn Unit TestingIf there is one common thing which separates a good Java developer from an average Java developer then it must be his unit testing skills A good and professional Java developer almost always write unit tests for his code and if he is really a Rockstar developer you can see that from his code and tests Testing has also come a long way now with several tools for unit testing integration testing and automation testing available Java All-in-One For Dummies Doug Lowe,2011-08-05 Nine handy minibooks cover just what programmers need to get going with Java 7 The newest release of Java has more robust functionality to help web and mobile developers get the most ouf of this platform independent programming language Like its bestselling previous editions Java All in One For Dummies 3rd Edition has what you need to get up and running quickly with the new version Covering the enhanced mobile development and syntax features as well as programming improvements

this guide makes it easy to find what you want and put it to use Focuses on the vital information that enables you to get up and running quickly on the new version Covers the enhanced multimedia features as well as programming enhancements Java and XML Swing server side Java Eclipse and more Minibooks cover Java basics programming basics strings arrays and collections programming techniques Swing Web programming files and databases and a fun and games category Rather than trying to cover every aspect of this massive topic Java All in One For Dummies 3rd Edition focuses on the practical information you need to become productive with Java 7 right away

The Well Grounded Java Developer Vital Techniques Of Java 7 And Polyglot Programming: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have charmed audiences this year. The Well Grounded Java Developer Vital Techniques Of Java 7 And Polyglot Programming : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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The Well Grounded Java Developer Vital Techniques Of Java 7 And Polyglot Programming Introduction

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