

Java Concurrency In Practice Brian Goetz

Java Concurrency in Practice The CERT Oracle Secure Coding Standard for Java Kotlin Design Patterns and Best Practices On Java 8 Learning Concurrent Programming in Scala Advanced Lambda Practices in Java: Optimizing Code Expression and Computational Efficiency Spring Boot Persistence Best Practices Persistence Best Practices for Java Applications Introduction to Concurrency in Programming Languages Java Concurrency in Practice Core Java Volume I--Fundamentals Java 9 for Programmers Martindale Hubbell Law Directory Core Java The Robert C. Martin Clean Code Collection (Collection) A Treatise on Criminal Law and Practice The British National Bibliography The American Bar, the Canadian Bar, the International Bar The American Bar Los Angeles Lawyer Brian Goetz Fred Long Alexey Soshin Bruce Eckel Aleksandar Prokopec Peter Jones Anghel Leonard Otavio Santana Matthew J. Sottile Goetz Cay S. Horstmann Paul Deitel Martindale-Hubbell Cay S. Horstmann Robert C. Martin Henry Smith Kelley Arthur James Wells

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in the java world security is not viewed as an add on a feature it is a pervasive way of thinking those who forget to think in a secure mindset end

up in trouble but just because the facilities are there doesn't mean that security is assured automatically a set of standard practices has evolved over the years the secure coding standard for java tm is a compendium of these practices these are not theoretical research papers or product marketing blurbs this is all serious mission critical battle tested enterprise scale stuff james a gosling father of the java programming language an essential element of secure coding in the java programming language is a well documented and enforceable coding standard coding standards encourage programmers to follow a uniform set of rules determined by the requirements of the project and organization rather than by the programmer's familiarity or preference once established these standards can be used as a metric to evaluate source code using manual or automated processes the cert oracle secure coding standard for java tm provides rules designed to eliminate insecure coding practices that can lead to exploitable vulnerabilities application of the standard's guidelines will lead to higher quality systems robust systems that are more resistant to attack such guidelines are required for the wide range of products coded in java for devices such as pcs game players mobile phones home appliances and automotive electronics after a high level introduction to java application security seventeen consistently organized chapters detail specific rules for key areas of java development for each area the authors present noncompliant examples and corresponding compliant solutions show how to assess risk and offer references for further information each rule is prioritized based on the severity of consequences likelihood of introducing exploitable vulnerabilities and cost of remediation the standard provides secure coding rules for the java se 6 platform including the java programming language and libraries and also addresses new features of the java se 7 platform it describes language behaviors left to the discretion of jvm and compiler implementers guides developers in the proper use of java's apis and security architecture and considers security concerns pertaining to standard extension apis from the javax package hierarchy the standard covers security issues applicable to these libraries lang util collections concurrency utilities logging management reflection regular expressions zip i o jmx jni math serialization and jaxp

future proof your applications with best practices and design patterns in kotlin key features understand traditional and modern design patterns to improve the design of your application combine the benefits of object oriented functional reactive and concurrent programming choose the best microservices architecture and frameworks for your web application book description this book shows you how easy it can be to implement traditional design patterns in the modern multi paradigm kotlin programming language and takes you through the new patterns and paradigms that have emerged this second edition is updated to cover the changes introduced from kotlin 1.2 up to 1.5 and focuses more on the idiomatic usage of coroutines which have become a stable language feature you'll begin by learning about the practical aspects of smarter coding in kotlin as well as understanding basic kotlin syntax and the impact of design patterns on your code the book also provides an in depth explanation of the

classical design patterns such as creational structural and behavioral families before moving on to functional programming you'll go through reactive and concurrent patterns and finally get to grips with coroutines and structured concurrency to write performant extensible and maintainable code by the end of this kotlin book you'll have explored the latest trends in architecture and design patterns for microservices you'll also understand the tradeoffs when choosing between different architectures and make informed decisions what you will learn implement all the classical design patterns using the kotlin programming language apply reactive and concurrent design patterns to make your application more scalable discover best practices in kotlin and explore its new features understand the key principles of functional programming and learn how they apply to kotlin find out how to write idiomatic kotlin code and learn which patterns to avoid harness the power of kotlin to design concurrent and reliable systems with ease create an effective microservice with kotlin and the ktor framework who this book is for this book is for developers who want to apply design patterns they've learned from other languages in kotlin and build reliable scalable and maintainable applications you'll need a good grasp on at least one programming language before you get started with this book java or design patterns will be particularly useful but you'll still be able to follow along if you code in other languages

this book is a must have tutorial for software developers aiming to write concurrent programs in scala or broaden their existing knowledge of concurrency this book is intended for scala programmers that have no prior knowledge about concurrent programming as well as those seeking to broaden their existing knowledge about concurrency basic knowledge of the scala programming language will be helpful readers with a solid knowledge in another programming language such as java should find this book easily accessible

advanced lambda practices in java optimizing code expression and computational efficiency is an essential resource for java developers eager to harness the full power of functional programming introduced in java 8 this comprehensive guide offers an in depth examination of lambda expressions and the stream api providing detailed insights into their functionalities and advanced techniques each chapter is meticulously crafted to enhance your programming skills ensuring your code becomes more expressive and efficient whether you are an experienced java professional or a computer science student this book equips you with the knowledge to effectively apply lambdas and streams in real world applications learn to create concise flexible and maintainable code master essential best practices and design patterns and boost the performance of your java projects unlock the full potential of modern java with advanced lambda practices in java optimizing code expression and computational efficiency and elevate your programming expertise embrace functional programming today to achieve significant improvements in the quality and performance of your software projects

this book is a collection of developer code recipes and best practices for persisting data using spring particularly spring boot the book is structured around practical recipes where each recipe discusses a performance case or performance related case and almost every recipe has one or more applications mainly when we try to accomplish something e g read some data from the database there are several approaches to do it and in order to choose the best way you have to know the implied trades off from a performance perspective you ll see that in the end all these penalties slow down the application besides presenting the arguments that favor a certain choice the application is written in spring boot style which is quite different than plain hibernate persistence is an important set of techniques and technologies for accessing and using data and this book demonstrates that data is mobile regardless of specific applications and contexts in java development persistence is a key factor in enterprise ecommerce cloud and other transaction oriented applications after reading and using this book you ll have the fundamentals to apply these persistence solutions into your own mission critical enterprise java applications that you build using spring what you will learn shape to many associations for best performances effectively exploit spring projections dto learn best practices for batching inserts updates and deletes effectively fetch parent and association in a single select learn how to inspect persistent context content dissect pagination techniques offset and keyset handle queries locking schemas hibernate types and more who this book is for any spring and spring boot developer that wants to squeeze the persistencelayer performances

the definitive guide for designing and delivering reliable and high performing persistence layers using java in the cloud native age purchase of the print or kindle book includes a free pdf ebook key features uncover database patterns for designing readable and maintainable architectures and java applications master various techniques to overcome application and architecture persistence challenges discover painless application modernization with change data capture powered by cloud native technologies book description having a solid software architecture breathes life into tech solutions in the early stages of an application s development critical decisions need to be made such as whether to go for microservices a monolithic architecture the event driven approach or containerization in java contexts frameworks and runtimes also need to be defined but one aspect is often overlooked the persistence layer which plays a vital role similar to that of data stores in modern cloud native solutions to optimize applications and data stores a holistic understanding of best practices technologies and existing approaches is crucial this book presents well established patterns and standards that can be used in java solutions with valuable insights into the pros and cons of trending technologies and frameworks used in cloud native microservices alongside good java coding practices as you progress you ll confront the challenges of cloud adoption head on particularly those tied to the growing need for cost reduction through stack modernization within these pages you ll discover application modernization strategies and learn how enterprise data integration patterns and event driven architectures

enable smooth modernization processes with low to zero impact on the existing legacy stack what you will learn gain insights into data integration in java services and the inner workings of frameworks apply data design patterns to create a more readable and maintainable design system understand the impact of design patterns on program performance explore the role of cloud native technologies in modern application persistence optimize database schema designs and leverage indexing strategies for improved performance implement proven strategies to handle data storage retrieval and management efficiently who this book is for if you're a developer engineer or software architect working in the field of software development particularly with a focus on java solutions this book is for you

illustrating the effect of concurrency on programs written in familiar languages this text focuses on novel language abstractions that truly bring concurrency into the language and aid analysis and compilation tools in generating efficient correct programs it also explains the complexity involved in taking advantage of concurrency with regard to program correctness and performance the book describes the historical development of current programming languages and the common threads that exist among them it also contains several chapters on design patterns for parallel programming and includes quick reference guides to openmp erlang and cilk ancillary materials are available on the book's website

core java has long been recognized as the leading no nonsense tutorial and reference for experienced programmers who want to write robust java code for real world applications now core java volume i fundamentals tenth edition has been extensively updated to reflect the most eagerly awaited and innovative version of java in years java se 8 rewritten and reorganized to illuminate new java se 8 features idioms and best practices it contains hundreds of example programs all carefully crafted for easy understanding and practical applicability writing for serious programmers solving real world problems cay horstmann helps you achieve a deep understanding of the java language and library in this first volume of the two volume work horstmann focuses on fundamental language concepts and the foundations of modern user interface programming you'll find in depth coverage of topics ranging from java object oriented programming to generics collections lambda expressions swing ui design and the latest approaches to concurrency and functional programming this guide will help you leverage your existing programming knowledge to quickly master core java syntax understand how encapsulation classes and inheritance work in java master interfaces inner classes and lambda expressions for functional programming improve program robustness with exception handling and effective debugging write safer more readable programs with generics and strong typing use pre built collections to collect multiple objects for later retrieval master concurrent programming techniques from the ground up build modern cross platform guis with standard swing components deploy configurable applications and applets and deliver them across the internet simplify concurrency and enhance performance with new functional techniques if you're an experienced

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definitive guide to writing robust maintainable code with the java se 9 10 and 11 language and libraries horstmann writes for serious programmers who use java in production projects and need a deep practical understanding of the language and api throughout he delivers what you need most hundreds of real non toy examples revealing the most powerful effective ways to get the job done updated examples reflect the new var keyword and take advantage of improvements in the java api you ll learn how to use jshell s new read eval print loop repl for more rapid and exploratory development and apply new features of the apis for streams input output processes and concurrency in this first of two volumes horstmann offers in depth coverage of fundamental java and ui programming including object oriented programming generics collections lambda expressions swing design concurrency and functional programming if you re an experienced programmer moving to java se 9 10 or 11 there s no better source for expert insight solutions and code master foundational techniques idioms and best practices for writing superior java code efficiently implement encapsulation and inheritance use sound principles of object oriented design leverage the full power of objects with interfaces lambda expressions and inner classes harden programs through effective exception handling and debugging write safer more reusable code with generic programming improve performance and efficiency with java s standard collections build cross platform guis with the swing toolkit fully utilize multicore processors with java s improved concurrency see core java volume ii advanced features eleventh edition isbn 13 978 0 13 516631 4 for expert coverage of java 9 10 and 11 enterprise features the module system annotations networking security and advanced ui programming register your book for convenient access to downloads updates and or corrections as they become available see inside book for details

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