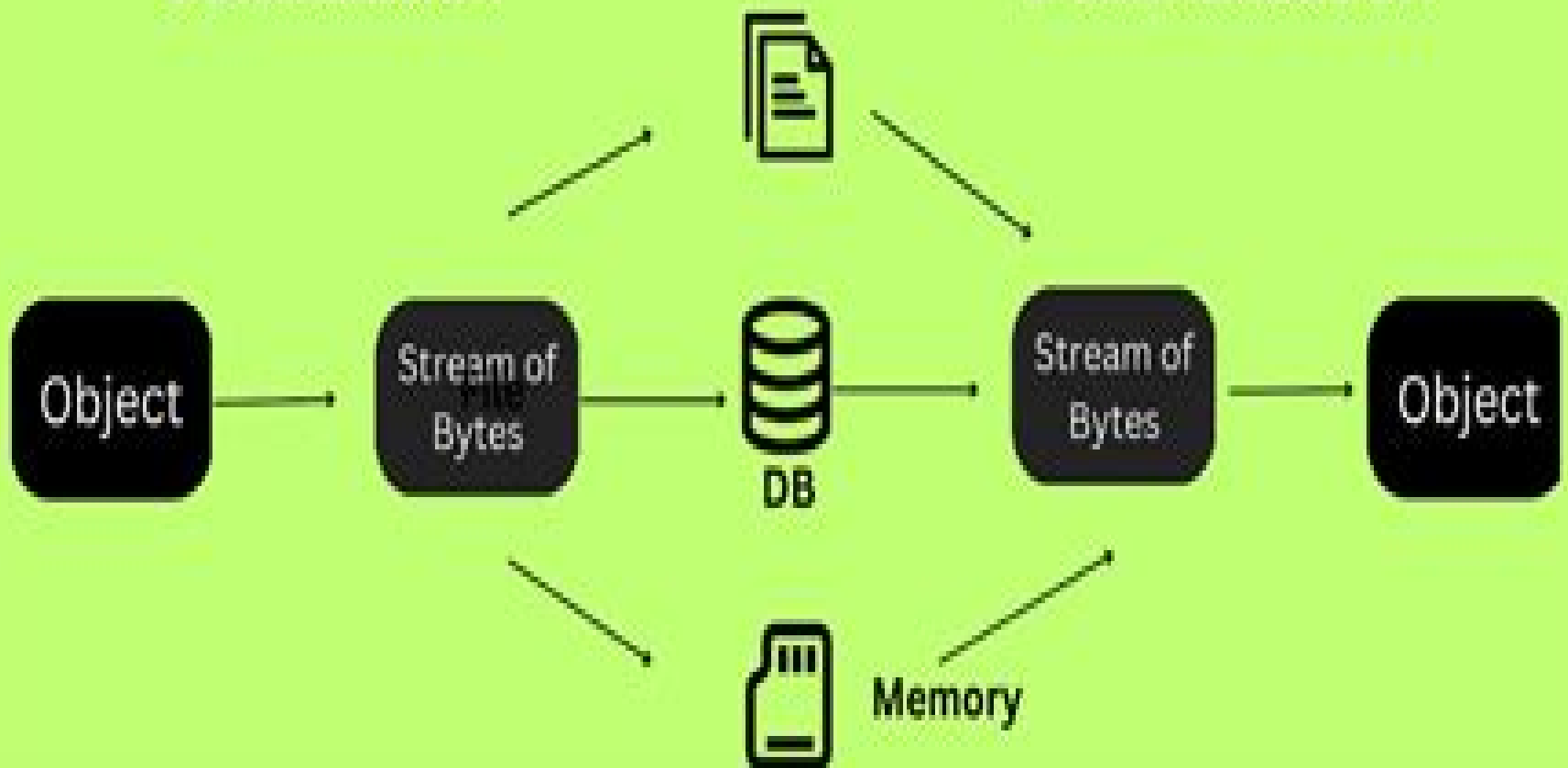


Serialization & Deserialization In Java

Serialization

Deserialization



Java Manual Serialization

Jiri Soukup, Petr Macháček



Java Manual Serialization

Secure Coding Rules for Java Robert Seacord, 2018 3 Hours of Video Instruction Secure Coding Rules for Java Serialization LiveLessons provides developers with practical guidance for securely implementing Java Serialization Overview Secure coding expert Robert C Seacord trains developers to understand Java serialization and the inherent security risks Seacord also demonstrates how to securely implement serializable classes and evaluate mitigation strategies and alternative solutions Java deserialization is an insecure language features that is widely used both directly by applications and indirectly by Java modules and libraries Deserialization of untrusted streams can result in remote code execution RCE denial of service DoS and a range of other exploits Applications can be vulnerable to these attacks even when they are free from coding defects Related Titles Secure Coding Rules in Java Part 1 LiveLessons Video The CERT Oracle Secure Coding Standard for Java Book Java Coding Guidelines 75 Recommendations for Reliable and Secure Programs Book About the Instructor Robert C Seacord is a Technical Director with NCC Group where he works with software developers and software development organizations to eliminate vulnerabilities resulting from coding errors before they are deployed Previously Robert led the secure coding initiative in the CERT Division of Carnegie Mellon University's Software Engineering Institute SEI Robert is also an adjunct professor in the School of Computer Science and the Information Networking Institute at Carnegie Mellon University Robert is the author of six books including The CERT C Coding Standard Second Edition Addison Wesley 2014 Secure Coding in C and C Second Edition Addison Wesley 2013 The CERT Oracle Secure Coding Standard for Java Addison Wesley 2012 and Java Coding Guidelines 75 Recommendations for Reliable and Secure Programs Addison Wesley 2014 Robert is on the Advisory Board for the Linux Foundation and an expert on the ISO IEC JTC1 SC22 WG14 international standardization working group for the C programming language Skill Level Advanced Learning objectives Understand Java object serialization Understand serialization security risks Understand deserialization vulnerabilities How to securely implement serializable classes Evaluate migration strategies Evaluate alternative solutions Who Should Take This Course Experienced Java developers Course Requirements Understanding of programming and development Experience *Sun Certified Programmer For Java 6 Scjp, Exam 310-065, Study Guide : Two Vol Set (With Cd)* Kogent Solutions Inc., 2008-10 [Secure Coding in Java](#) Robert C. Seacord, 2018 Secure coding expert Robert C Seacord trains developers to understand Java serialization and the inherent security risks Seacord also demonstrates how to securely implement serializable classes and evaluate mitigation strategies and alternative solutions Java deserialization is an insecure language features that is widely used both directly by applications and indirectly by Java modules and libraries Deserialization of untrusted streams can result in remote code execution RCE denial of service DoS and a range of other exploits Applications can be vulnerable to these attacks even when they are free from coding defects Resource description page **Serialization in Java** Salih

Sakar,2023-12-06 Studienarbeit aus dem Jahr 2019 im Fachbereich Informatik Software Universit t Ulm VS Verteilte Systeme Veranstaltung Proseminar Sprache Deutsch Abstract Die Serialisierung ist ein wichtiger Mechanismus mithilfe dessen Objekte die bekanntlich zur Laufzeit existieren in einen Datenstrom von Bytes bersetzt werden Mithilfe dieses Streams lassen sich Objekte mitsamt der F lle ihrer Eigenschaften unabh ngig von der Laufzeit des Programmes rekonstruieren Anwendung findet sie daher grundlegend in der Persistierung oder bei der Netzwerk bertragung bei verteilten Systemen Die Standard Serialisierung in Java die schon seit den Anf ngen dieser Softwaresprache eingef hrt wurde bietet sehr viel Flexibilit t in der Anpassung des Serialisierungsprozesses steht heute aber vor allem aus sicherheitsbedenklichen Gegebenheiten massiv unter Kritik *Java and SOAP* Robert Englander,2002 Java and SOAP addresses both open source and commercial tools for use with Simple Object Access Protocol and Java It introduces Web developers to SOAP to enable them to design and implement new Web services Improvement of Object Serialization in Java Remote Method Invocation Hei Ning Helen Ma,California State Polytechnic University, Pomona. Department of Computer Science,2005 **Advance Java** , Harry Hariom Choudhary,2013-07-28 Fully updated to reflect Java SE 7 language changes Advance Java Volume II Advanced Features Fifteenth Best Selling Edition is the definitive guide to Java s most powerful features for enterprise and desktop application development I was fortunate indeed to have worked with a fantastic team on the design and implementation of the concurrency features added to the Java platform in Java 5 0 and Java 6 Now this same team provides the best explanation yet of these new features and of concurrency in general Concurrency is no longer a subject for advanced users only Every Java developer should read this book Martin Buchholz JDK Concurrency Czar Sun Microsystems For the past 30 years computer performance has been driven by Moore s Law from now on it will be driven by Amdahl s Law Writing code that effectively exploits multiple processors can be very challenging Java Concurrency in Practice provides you with the concepts and techniques needed to write safe and scalable Java programs for today s and tomorrow s systems Doron Rajwan Research Scientist Intel Corp This is the book you need if you re writing or designing or debugging or maintaining or contemplating multithreaded Java programs If you ve ever had to synchronize a method and you weren t sure why you owe it to yourself and your users to read this book cover to cover Ted Neward Author of Effective Enterprise Java Brian addresses the fundamental issues and complexities of concurrency with uncommon clarity This book is a must read for anyone who uses threads and cares about performance Kirk Pepperdine CTO JavaPerformanceTuning com This book covers a very deep and subtle topic in a very clear and concise way making it the perfect Java Concurrency reference manual Each page is filled with the problems and solutions that programmers struggle with every day Effectively exploiting concurrency is becoming more and more important now that Moore s Law is delivering more cores but not faster cores and this book will show you how to do it Dr Cliff Click Senior Software Engineer Azul Systems I have a strong interest in concurrency and have probably written more thread deadlocks and made more synchronization mistakes than most

programmers Brian's book is the most readable on the topic of threading and concurrency in Java and deals with this difficult subject with a wonderful hands-on approach. This is a book I am recommending to all my readers of The Java Specialists Newsletter because it is interesting, useful, and relevant to the problems facing Java developers today. Dr. Heinz Kabutz, The Java Specialists, designed for serious programmers, this reliable, unbiased, no-nonsense tutorial illuminates advanced Java language and library features with thoroughly tested code examples. As in previous editions, all code is easy to understand and displays modern best-practice solutions to the real-world challenges faced by professional developers. Volume II quickly brings you up to speed on key Java SE 7 enhancements ranging from the new file I/O API to improved concurrency utilities. All code examples are updated to reflect these enhancements. Complete descriptions of new language and platform features are highlighted and integrated with insightful explanations of advanced Java programming techniques. You'll learn all you need to build robust production software with Streams, files, and regular expressions, XML, Networking, Database programming facilities, JNDI, LDAP, directory integration, Internationalization, Advanced Swing techniques, JavaBeans, components, Web services, Advanced platform security features, Annotations, Distributed objects, Native methods, and more. For detailed coverage of fundamental Java SE 7 features including objects, classes, inheritance, interfaces, reflection, events, exceptions, graphics, Swing, generics, collections, concurrency, and debugging.

Java RMI William Grosso, 2002. Java RMI contains a wealth of experience in designing and implementing Java's Remote Method Invocation. If you're a novice reader, you will quickly be brought up to speed on why RMI is such a powerful yet easy-to-use tool for distributed programming, while experts can gain valuable experience for constructing their own enterprise and distributed systems. With Java RMI, you'll learn tips and tricks for making your RMI code excel. The book also provides strategies for working with serialization, threading, the RMI registry, sockets, and socket factories, activation, dynamic class downloading, HTTP tunneling, distributed garbage collection, JNDI, and CORBA. In short, a treasure trove of valuable RMI knowledge packed into one book.

Java Programming Yakov Fain, 2015-06-04. Quick and painless Java programming with expert multimedia instruction. Java Programming 24 Hour Trainer 2nd Edition is your complete beginner's guide to the Java programming language with easy-to-follow lessons and supplemental exercises that help you get up and running quickly. Step-by-step instruction walks you through the basics of object-oriented programming, syntax, interfaces, and more, before building upon your skills to develop games, web apps, networks, and automations. This second edition has been updated to align with Java SE 8 and Java EE 7 and includes new information on GUI basics, lambda expressions, streaming API, WebSockets, and Gradle. Even if you have no programming experience at all, the more than six hours of Java programming screencasts will demonstrate major concepts and procedures in a way that facilitates learning and promotes a better understanding of the development process. This is your quick and painless guide to mastering Java, whether you're starting from scratch or just looking to expand your skill set. Master the building blocks that go into any Java project. Make writing code easier with the Eclipse tools. Learn to connect

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Serialization and Persistent Objects Jiri Soukup,Petr Macháček,2014-04-23 Recently the pressure for fast processing and efficient storage of large data with complex relations increased beyond the capability of traditional databases Typical examples include iPhone applications computer aided design both electrical and mechanical biochemistry applications and incremental compilers Serialization which is sometimes used in such situations is notoriously tedious and error prone In this book Jiri Soukup and Petr Mach ek show in detail how to write programs which store their internal data automatically and transparently to disk Together with special data structure libraries which treat relations among objects as first class entities and with a UML class diagram generator the core application code is much simplified The benchmark chapter shows a typical example where persistent data is faster by the order of magnitude than with a traditional database in both traversing and accessing the data The authors explore and exploit advanced features of object oriented languages in a depth hardly seen in print before Yet you as a reader need only a basic knowledge of C Java C or Objective C These languages are quite similar with respect to persistency and the authors explain their differences where necessary The book targets professional programmers working on any industry applications it teaches you how to design your own persistent data or how to use the existing packages efficiently Researchers in areas like language design compiler construction performance evaluation and no SQL applications will find a wealth of novel ideas and valuable implementation tips Under <http://www.codefarms.com> book you will find a blog and other information including a downloadable zip file with the sources of all the listings that are longer than just a few lines ready to compile and run

Java Network Programming Merlin Hughes,Michael Shoffner,Derek Hamner,1999 Here is a complete treatment of network programming and cryptography in Java This complete guide details all of the Java platform support for networking and offers extensive examples The Java 10 and Java net packages are completely documented including the new features of JDK 1.1 followed by treatment of RMI Jeeves and a discussion of CORBA

Learning Java Patrick Niemeyer,Daniel Leuck,2013 Java is the preferred language for many of today's leading edge technologies everything from smartphones and game consoles to robots massive enterprise systems and supercomputers If you're new to Java the fourth edition of this bestselling guide provides an example driven introduction to the latest language features and APIs in Java 6 and 7 Advanced Java developers will be able to take a deep dive into areas such as concurrency and JVM enhancements You'll learn powerful new ways to manage resources and exceptions in your applications and quickly get up to speed on Java's new concurrency utilities and APIs for web services and XML You'll also find an updated tutorial on how to get started with the Eclipse IDE and a brand new introduction to database access in Java

Publisher's description

Java Programming 24-Hour Trainer Yakov Fain,2011-10-12 A unique book and video package presented by Java guru Yakov Fain As one of the most popular software languages for building Web applications Java is often

the first programming language developers learn The latest version includes numerous updates that both novice and experienced developers need to know With this invaluable book and video package Java authority Yakov Fain fully covers Java s new features as well as its language extensions classes and class methods and the Swing Application Framework For each lesson that he discusses in the book there is an accompanying instructional video to reinforce your learning experience Lessons include Introducing Java Eclipse IDE Object Oriented Programming Class Methods Back to Java Basics Packages Interfaces and Encapsulation Programming with Abstract Classes and Interfaces Introducing the Graphic User Interface Event Handling in UI Introduction to Java Applets Developing a Tic Tac Toe Applet Developing a Ping Pong Game Error Handling Introduction to Collections Introduction to Generics Working with Streams Java Serialization Network Programming Processing E Mails with Java Introduction to Multi Threading Digging Deeper into Concurrent Execution Working with Databases Using JDBC Swing with JTable Annotations and Reflection Remote Method Invocation Java EE 6 Overview Programming with Servlets JavaServer Pages Developing Web Applications with JSF Introducing JMS and MOM Introducing JNDI Introduction to Enterprise JavaBeans Introduction to the Java Persistence API Working with RESTful Web Services Introduction to Spring MVC Framework Introduction to Hibernate Framework Bringing JavaFX to the Mix Java Technical Interviews Note As part of the print version of this title video lessons are included on DVD For e book versions video lessons can be accessed at wrox com using a link provided in the interior of the e book

Using and Understanding Java Data Objects David Ezzio,2008-01-01 This is a practical guide to the features and uses of JDO with example programs and learning tools provided

Effective Java Joshua Bloch,2008-05-08 Are you looking for a deeper understanding of the Java™ programming language so that you can write code that is clearer more correct more robust and more reusable Look no further Effective Java™ Second Edition brings together seventy eight indispensable programmer s rules of thumb working best practice solutions for the programming challenges you encounter every day This highly anticipated new edition of the classic Jolt Award winning work has been thoroughly updated to cover Java SE 5 and Java SE 6 features introduced since the first edition Bloch explores new design patterns and language idioms showing you how to make the most of features ranging from generics to enums annotations to autoboxing Each chapter in the book consists of several items presented in the form of a short standalone essay that provides specific advice insight into Java platform subtleties and outstanding code examples The comprehensive descriptions and explanations for each item illuminate what to do what not to do and why Highlights include New coverage of generics enums annotations autoboxing the for each loop varargs concurrency utilities and much more Updated techniques and best practices on classic topics including objects classes libraries methods and serialization How to avoid the traps and pitfalls of commonly misunderstood subtleties of the language Focus on the language and its most fundamental libraries java lang java util and to a lesser extent java util concurrent and java io Simply put Effective Java™ Second Edition presents the most practical authoritative guidelines available for writing efficient well

designed programs *Java Persistence for Relational Databases* Richard Sperko,2008-01-01 Sperko focuses on the overall problem of how to store the primary component of any Java application the Java object in the most common business tool the relational database

Compression of a Context-based Marshalling Methodology in Java Ryan William Harrod,2016 This report focuses on a method for serializing messages in Java which is somewhere between a customized solution and Java s built in serialization Customized serialization will lead to the fastest most optimized code but will require more development time Java s built in serialization on the other hand requires almost no effort to use but is slow and uses more than is strictly necessary This project gives a third option which requires a little more effort than Java s built in serialization but still provides fast serialization speed and low message sizes The tool presented here can take in requirements for a message to transmit which includes numbers strings booleans and enumerations and the output is a collection of Java classes which will serialize and deserialize that message In turn this generated library can be shared between projects within an organization or even with third parties The original message definition becomes a sort of interface control document while the resulting code becomes a library which can be used to communicate with the defined messages without requiring users of that message to develop their own code

Recent Advances in Information and Communication Technology 2018 Herwig Unger,Sunantha Sodsee,Phayung Meesad,2018-06-26 This book contains the research contributions presented at the 14th International Conference on Computing and Information Technology IC2IT 2018 organised by King Mongkut s University of Technology North Bangkok and its partners and held in the northern Thai city of Chiang Mai in July 2018 Traditionally IC2IT 2018 provides a forum for exchange on the state of the art and on expected future developments in its field Correspondingly this book contains chapters on topics in data mining machine learning natural language processing image processing networks and security software engineering and information technology With them the editors want to foster inspiring discussions among colleagues not only during the conference It is also intended to contribute to a deeper understanding of the underlying problems as needed to solve them in complex environments and beneficial for this purpose to encourage interdisciplinary cooperation

WebLogic Jon Mountjoy,Avinash Chugh,2004-02-23 Covering versions 7 and 8 1 this guide discusses the WebLogic server and management console with specific instructions concerning topics like J2EE web applications servlet engine management EJB construction and deployment SSL security registry the web service framework logging and internationalization APIs The guide is intended for developers programmers administrators and system architects Annotation 2004 Book News Inc Portland OR booknews com

Sleep 2.1 Manual Raphael Mudge,2008-06-08 Sleep is a Java based scripting language heavily inspired by Perl It started life during a weekend long hack fest in April 2002 Some 6 years later this is the result Sleep provides advanced programming features including continuations first class functions a built in debugger taint mode security access to the Java class library and cryptic Perl syntax This manual includes the Sleep 2 1 language tutorial a guide on how to extend and embed Sleep from Java and a

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