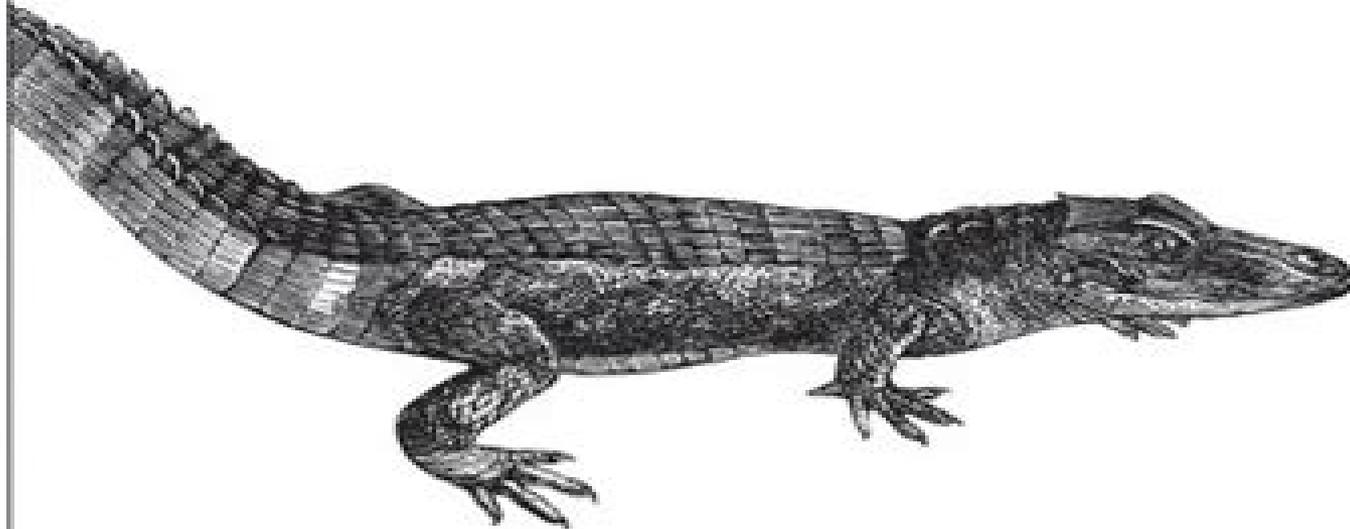


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Second
Edition

Java Generics and Collections

Fundamentals and Recommended Practices



Maurice Naftalin
& Philip Wadler

Java Generics And Collections Maurice Naftalin

Albert A Gayle



Java Generics And Collections Maurice Naftalin:

Java Generics and Collections Maurice Naftalin, Philip Wadler, 2006-10-17 This comprehensive guide shows you how to master the most important changes to Java since it was first released. Generics and the greatly expanded collection libraries have tremendously increased the power of Java 5 and Java 6. But they have also confused many developers who haven't known how to take advantage of these new features. Java Generics and Collections covers everything from the most basic uses of generics to the strangest corner cases. It teaches you everything you need to know about the collections libraries so you'll always know which collection is appropriate for any given task and how to use it. Topics covered include: Fundamentals of generics, type parameters and generic methods. Other new features: boxing and unboxing, foreach loops, varargs, Subtyping and wildcards. Evolution not revolution: generic libraries with legacy clients and generic clients with legacy libraries. Generics and reflection. Design patterns for generics. Sets, Queues, Lists, Maps and their implementations. Concurrent programming and thread safety with collections. Performance implications of different collections. Generics and the new collection libraries they inspired take Java to a new level. If you want to take your software development practice to a new level, this book is essential reading. Philip Wadler is Professor of Theoretical Computer Science at the University of Edinburgh where his research focuses on the design of programming languages. He is a co-designer of GJ work that became the basis for generics in Sun's Java 5.0. Maurice Naftalin is Technical Director at Morningside Light Ltd, a software consultancy in the United Kingdom. He has most recently served as an architect and mentor at NSB Retail Systems plc and as the leader of the client development team of a major UK government social service system. A brilliant exposition of generics. By far the best book on the topic, it provides a crystal clear tutorial that starts with the basics and ends leaving the reader with a deep understanding of both the use and design of generics. Gilad Bracha, Java Generics Lead, Sun Microsystems.

Java Generics and Collections Maurice Naftalin, Philip Wadler, 2015-06-17 Java Generics and Collections has been the go-to guide to generics for more than a decade. This second edition covers Java 21, providing a clear guide to generics from their most common uses to the strangest corner cases, giving you everything you need to know to use and write generic APIs effectively. It covers the collections library thoroughly so you'll always know how and when to use each collection for any given task. And it explains stream processing so you'll know which model to use and how they interoperate to get the best out of the platform library. This indispensable guide covers: Fundamentals of generics, type parameters and generic methods. Subtyping and wildcards. Generics and reflection. Design patterns for generics. Sets, queues, lists, maps and their implementations. Concurrent programming and thread safety with collections. Performance of different collection implementations. Best practices for using and extending the Java collections framework. Design philosophy and comparison with other collections libraries. **The CERT Oracle Secure Coding Standard for Java** Fred Long, 2012 In the Java world, security is not viewed as an add-on 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™ 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™ 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.

[Mastering the Interview: 80 Essential Questions for Software Engineers](#) Manjunath.R, 2023-05-19. The Software Engineer's Guide to Acing Interviews. Software Interview Questions You'll Most Likely Be Asked. Mastering the Interview: 80 Essential Questions for Software Engineers is a comprehensive guide designed to help software engineers excel in job interviews and secure their dream positions in the highly competitive tech industry. This book is an invaluable resource for both entry-level and experienced software engineers who want to master the art of interview preparation. This book provides a carefully curated selection of 80 essential questions that are commonly asked during software engineering interviews. Each question is thoughtfully crafted to assess the candidate's technical knowledge, problem-solving abilities, and overall suitability for the role. This book goes beyond just providing a list of questions; it offers in-depth explanations, detailed sample answers, and insightful tips on how to approach each question with confidence and clarity. The goal is to equip software engineers with the skills and knowledge necessary to impress interviewers and stand out from the competition. Mastering the Interview: 80 Essential Questions for

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The British National Bibliography Arthur James Wells,2007

Génériques et collections Java Maurice Naftalin,Philip Wadler,2007 Les g n riques et collections repr sentent une volution majeure de Java depuis sa version 5 Si la collection de biblioth ques en expansion constante a accru consid rablement la puissance de Java

elle est galement devenue une jungle touffue dans laquelle plus d'un d'veloppeur s'est perdu. Génériques et collections Java prend en compte toutes les nouvelles fonctionnalités de Java et tablit un panorama des génériques pour en exploiter toute la puissance. Il couvre les usages les plus fréquents jusqu'aux cas de figures les plus tranges que l'on peut rencontrer. Vous saurez enfin tout des collections notamment en quelles occasions les employer. Ce guide d'veloppe des sujets aussi variés que les bases des types génériques, les design patterns en Java, l'interface Collection, l'usage des méthodes de Queue, la classe Collections, la rification et les tableaux. Génériques et collections Java s'adresse en particulier aux d'veloppeurs qui souhaitent s'initier à générique dans Java, avoir une vision clarifiée des possibilités offertes par les nouvelles fonctionnalités de Java depuis les versions 5 et 6 ou tout simplement accroître la puissance de leurs applications.

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