

Unlock the Power of Java 11 and 12: A Comprehensive Guide to New Features

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Java 11 and 12 – New Features: Learn about Project Amber and the latest developments in the Java



language and platform by Mala Gupta

★★★★☆ 4.4 out of 5

Language : English
File size : 7287 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 244 pages



Welcome to the world of Java 11 and 12! These versions bring an array of groundbreaking features that empower developers with new capabilities and enhance the productivity of their coding endeavors. Over the past few years, Java has cemented its position as one of the most prevalent programming languages in the world, and with each new iteration, it continues to evolve and push the boundaries of what's possible.

Java 11: A Major Leap Forward

Local Variable Type Inference:

One of the significant enhancements in Java 11 is the of Local Variable Type Inference (LVTI), known as var. This remarkable feature allows developers to declare variables without explicitly specifying their types. The compiler infers the type based on the assigned value, simplifying code and improving readability.

HTTP Client:

Java 11 introduces a modern and efficient HTTP client that replaces the deprecated `HttpURLConnection` class. This new HTTP client provides a

more intuitive and user-friendly interface, simplifying network programming and making it easier to send HTTP requests and receive responses.

Java 12: Further Refinement and Enhancements

Switch Expressions:

Java 12 brings a game-changer to the switch statement - switch expressions. These expressions allow developers to write more concise and readable code by combining the switch and return statements. They provide a more streamlined approach to handling multiple cases in a single line of code.

Text Blocks:

Multi-line text strings have always been a hassle in Java, but no more! Text blocks, introduced in Java 12, make working with large blocks of text a breeze. They allow developers to define multi-line text strings without cumbersome concatenation or escape sequences, resulting in cleaner and more structured code.

Performance Enhancements

Both Java 11 and 12 bring significant performance improvements that can noticeably boost the execution speed of your applications. These optimizations cover a wide range of areas, from garbage collection efficiency to improved just-in-time (JIT) compilation. By leveraging these enhancements, developers can expect faster execution times and a more responsive user experience.

Security Enhancements

Security is paramount, and Java 11 and 12 take it very seriously. These versions introduce robust security features and updates to safeguard applications from potential vulnerabilities. Developers can now utilize the latest cryptographic algorithms, take advantage of TLS 1.3 for secure communication, and benefit from the strengthened Java Security Manager.

Compatibility and Migration

Migrating from older Java versions to Java 11 or 12 is a relatively straightforward process. Java maintains backward compatibility, ensuring that existing code continues to run smoothly on the latest versions. To ease the migration path, Oracle provides comprehensive documentation and migration guides to assist developers in upgrading their projects.

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Java 11 and 12 are not just incremental updates; they are major releases that usher in a new era of Java programming. With their powerful features, performance enhancements, and security upgrades, these versions empower developers to push the boundaries of innovation and create more efficient, secure, and maintainable applications. By embracing the new capabilities of Java 11 and 12, developers can unlock a world of possibilities and stay at the forefront of software development.

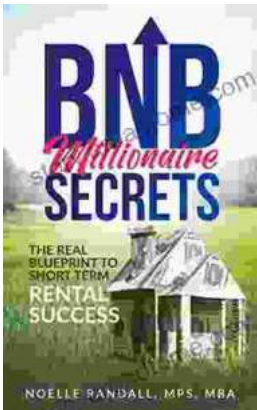


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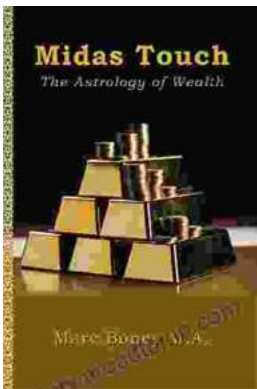
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