

java the complete reference pdf

java the complete reference pdf is an essential resource for programmers, developers, and students who aim to master the Java programming language comprehensively. This article explores the significance of the Java The Complete Reference PDF, highlighting its extensive coverage of Java fundamentals, advanced topics, and practical examples. The document serves as a definitive guide that covers everything from basic syntax to intricate Java APIs, making it invaluable for both beginners and experienced developers. Additionally, this article will discuss the book's content structure, key features, and how the PDF format enhances accessibility and convenience. Whether seeking to improve coding skills or preparing for Java certification, the Java The Complete Reference PDF stands as a reliable and thorough learning tool. The following sections will delve into the book's overview, content breakdown, advantages of the PDF version, and tips for effective utilization.

- Overview of Java The Complete Reference PDF
- Comprehensive Content Coverage
- Key Features and Benefits
- Advantages of Using the PDF Format
- How to Utilize Java The Complete Reference PDF Effectively

Overview of Java The Complete Reference PDF

The Java The Complete Reference PDF is a digital version of the widely acclaimed book authored by Herbert Schildt, known for its thorough and clear explanation of the Java programming language. The PDF edition preserves the original content's structure and detail, making it accessible on various devices such as computers, tablets, and smartphones. It is designed to serve as a one-stop reference manual that covers essential Java concepts, programming techniques, and the latest updates aligned with Java versions. This resource is highly favored by learners who prefer having a portable and searchable format for quick consultation during coding sessions or study periods.

Comprehensive Content Coverage

The strength of the Java The Complete Reference PDF lies in its exhaustive coverage of Java programming topics. It systematically introduces core

concepts before advancing to complex subjects, ensuring a smooth learning curve. The content is organized into distinct sections that address every aspect of Java development.

Fundamental Java Concepts

This section delves into the foundational elements of Java, including data types, operators, control statements, and object-oriented programming principles such as classes, objects, inheritance, and polymorphism. The explanations are accompanied by relevant code samples that reinforce understanding.

Advanced Java Features

Beyond basics, the PDF covers intricate topics like multithreading, exception handling, generics, collections framework, lambda expressions, and stream API. It also addresses GUI programming using JavaFX and Swing, which are crucial for building desktop applications.

Java APIs and Libraries

The book extensively discusses standard Java APIs, including `java.lang`, `java.util`, `java.io`, and `java.net`, among others. It elucidates how to leverage these libraries for tasks such as file handling, networking, and database connectivity through JDBC.

- Introduction to Java syntax and semantics
- Object-oriented programming concepts
- Multithreading and concurrency
- Java Collections Framework
- Exception handling mechanisms
- Java I/O and Networking APIs
- GUI development with JavaFX and Swing
- Java database connectivity (JDBC)

Key Features and Benefits

The Java The Complete Reference PDF offers numerous features that enhance its value as an educational and reference tool. It presents clear, concise explanations that simplify complex topics for readers of all levels. The inclusion of practical code examples throughout the chapters enables readers to apply theoretical knowledge effectively.

Structured Learning Approach

The book's progression from basic to advanced topics ensures a systematic acquisition of skills. Each chapter builds upon the previous one, promoting a solid grasp of the language and its ecosystem.

Up-to-Date Content

The PDF reflects recent developments in Java, including updates in Java SE versions, ensuring readers stay current with the language's evolving features and best practices.

Extensive Examples and Exercises

Code snippets and practice exercises embedded in the text facilitate hands-on learning. These examples are designed to reinforce concepts and provide real-world programming scenarios.

Advantages of Using the PDF Format

The availability of Java The Complete Reference in PDF format offers several practical advantages over traditional print versions or online content. The digital format enhances portability and ease of access.

Portability and Accessibility

The PDF can be stored on multiple devices and accessed anytime without an internet connection, making it ideal for on-the-go learning and quick reference.

Search Functionality

Users can quickly locate specific topics or keywords within the document using built-in search features, saving time and increasing study efficiency.

Interactive Features

Many PDFs support bookmarks, annotations, and highlights, which allow users to personalize their learning experience by marking important sections or adding notes.

Cost-Effectiveness

Obtaining a PDF version often reduces costs related to printing and shipping, making it an economical choice for students and professionals alike.

How to Utilize Java The Complete Reference PDF Effectively

Maximizing the benefits of the Java The Complete Reference PDF involves strategic study methods and consistent practice. Effective utilization ensures comprehensive understanding and practical application of Java programming concepts.

Structured Reading Plan

Develop a reading schedule that covers chapters systematically, allowing adequate time for review and practice. Prioritize foundational topics before progressing to advanced material.

Hands-On Coding Practice

Implement code examples provided in the PDF and experiment by modifying them to deepen comprehension. Practical coding exercises are crucial for reinforcing theoretical knowledge.

Utilize Search and Annotation Tools

Leverage the PDF's search capabilities to quickly revisit challenging topics. Use annotation tools to highlight critical points and jot down insights or questions for further exploration.

Supplement with Additional Resources

Complement the PDF study with online tutorials, forums, and coding platforms to gain diverse perspectives and practical problem-solving experience.

1. Create a consistent study timetable
2. Practice coding examples regularly
3. Use PDF tools for efficient navigation and review
4. Engage with Java programming communities
5. Apply learned concepts in real-world projects

Frequently Asked Questions

Where can I legally download 'Java: The Complete Reference' PDF?

You can legally obtain 'Java: The Complete Reference' PDF by purchasing it from official sources like Oracle Press, Pearson, or authorized ebook retailers such as Amazon Kindle or Google Books.

Is 'Java: The Complete Reference' suitable for beginners?

Yes, 'Java: The Complete Reference' is designed for both beginners and experienced programmers, covering fundamental concepts as well as advanced topics in Java programming.

What topics does 'Java: The Complete Reference' cover?

'Java: The Complete Reference' covers a wide range of topics including Java fundamentals, object-oriented programming, Java APIs, Java 8 features, multithreading, networking, JavaFX, and more.

Which edition of 'Java: The Complete Reference' is the most up-to-date?

As of 2024, the 12th edition of 'Java: The Complete Reference' by Herbert Schildt is the most recent edition, covering Java SE 11 and later features.

Can 'Java: The Complete Reference' PDF be used as a study guide for Java certification?

Yes, 'Java: The Complete Reference' is often recommended as a comprehensive resource for preparing for Java certification exams like Oracle Certified

Professional Java Programmer (OCPJP).

Are there any free alternatives similar to 'Java: The Complete Reference' PDF?

While the official book is paid, free alternatives include online tutorials, Oracle's official Java documentation, and open-source educational resources like 'Java Programming' by Wikibooks or free courses on platforms like Coursera and edX.

How does 'Java: The Complete Reference' compare to other Java books?

'Java: The Complete Reference' is known for its thoroughness and clarity, making it a popular choice for comprehensive Java learning, compared to more concise or specialized books which might focus on specific frameworks or advanced topics.

Is it safe to download 'Java: The Complete Reference' PDF from unauthorized websites?

Downloading copyrighted material from unauthorized websites is illegal and unsafe, as these files may contain malware. It's recommended to obtain the book through legitimate channels to ensure safety and legality.

Does 'Java: The Complete Reference' cover Java 17 or later versions?

The latest editions primarily cover up to Java SE 11 or 15. For features introduced in Java 17 or later, supplementary resources or newer editions should be consulted as the book may not yet include all the latest updates.

Additional Resources

1. Java: The Complete Reference, Eleventh Edition

This comprehensive guide by Herbert Schildt covers all aspects of Java programming, from basic syntax to advanced features like multithreading and JavaFX. It serves as an essential resource for both beginners and experienced developers. The book includes numerous code examples and detailed explanations to help readers master Java SE 11.

2. Effective Java, Third Edition

Written by Joshua Bloch, this book offers best practices and design patterns for writing robust, maintainable Java code. It focuses on practical advice for effective programming and covers topics such as generics, concurrency, and lambdas. This edition updates content to reflect Java 7, 8, and 9 features.

3. *Head First Java, 2nd Edition*

This beginner-friendly book uses a visually rich format to teach Java programming fundamentals. It emphasizes hands-on learning with puzzles, quizzes, and projects. Ideal for those new to Java, it explains complex concepts in an engaging and easy-to-understand manner.

4. *Java Concurrency in Practice*

Authored by Brian Goetz, this book delves into the intricacies of concurrent programming in Java. It explains how to write safe, scalable, and efficient multithreaded applications. The text covers thread safety, synchronization, and performance issues, making it indispensable for advanced Java developers.

5. *Core Java Volume I–Fundamentals, 11th Edition*

Cay S. Horstmann's book is a thorough introduction to Java SE fundamentals, including language syntax, object-oriented programming, and core APIs. It is well-structured for learners who want a solid foundation in Java programming. Updated editions cover the latest Java features and best practices.

6. *Java: A Beginner's Guide, Eighth Edition*

By Herbert Schildt, this book is tailored for newcomers to Java, offering clear explanations and practical examples. It systematically introduces Java basics, object-oriented concepts, and essential APIs. The book also includes self-tests and exercises to reinforce learning.

7. *Java Performance: The Definitive Guide*

Scott Oaks provides an in-depth look at Java performance tuning, including JVM internals, garbage collection, and profiling tools. This book is aimed at developers seeking to optimize Java applications for speed and efficiency. It offers strategies for diagnosing and resolving performance bottlenecks.

8. *Java SE 8 for the Really Impatient*

Cay S. Horstmann's concise guide focuses on the new features introduced in Java SE 8, such as lambdas, streams, and functional interfaces. It is designed for experienced programmers who want a quick yet thorough overview of modern Java enhancements. The book includes practical code examples demonstrating how to use these features effectively.

9. *Beginning Java 8 Fundamentals*

Kishori Sharan's book introduces Java 8 programming with emphasis on core concepts and new features. It covers basics like data types and control structures, as well as advanced topics like streams and functional programming. This book is suitable for beginners aiming to learn Java 8 in a structured and practical manner.

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Java: The Complete Reference PDF - Your Ultimate Guide to Mastering Java Programming

This ebook delves into the comprehensive world of Java programming, exploring its significance in modern software development and providing readers with a thorough understanding of its core concepts, advanced features, and practical applications. It's a vital resource for both beginners seeking to learn Java and experienced programmers looking to enhance their skills.

"Java: The Complete Reference" - Ebook Outline:

Introduction to Java: What is Java? Platform independence, object-oriented programming (OOP) concepts, history and evolution of Java.

Java Fundamentals: Data types, operators, control flow, methods, classes, and objects. This section lays the foundation for understanding Java's syntax and basic structure.

Object-Oriented Programming (OOP) in Java: Deep dive into encapsulation, inheritance, polymorphism, and abstraction. This chapter explains the core principles of OOP in the context of Java.

Advanced Java Concepts: Exception handling, generics, collections framework, multithreading, and concurrency. These advanced topics are essential for building robust and efficient applications.

Input/Output (I/O) Operations: Working with files, streams, and other I/O resources. This section covers crucial aspects of data handling in Java applications.

Networking in Java: Building network applications using sockets and other networking APIs. This explains how to create applications that communicate over networks.

Java Database Connectivity (JDBC): Connecting Java applications to databases. This section describes how to interact with databases using JDBC.

GUI Programming with Java Swing and JavaFX: Creating graphical user interfaces (GUIs). This teaches users how to build user-friendly interfaces for their applications.

Lambda Expressions and Streams: Utilizing functional programming concepts in Java 8 and beyond. This section explores modern Java features for concise and efficient coding.

Modern Java Features: Modules, the enhanced `Optional` class, and other features introduced in recent Java versions. This chapter keeps the reader abreast of the latest developments in Java.

Conclusion and Further Learning: Resources for continuing your Java programming journey. This provides pointers for ongoing learning and improvement.

1. Introduction to Java:

This introductory chapter sets the stage by defining Java, its key features (platform independence, object-oriented nature), and its rich history, outlining its evolution from early versions to the latest releases. It will also introduce the core principles of object-oriented programming that underpin Java's design. This establishes a solid base for understanding the subsequent chapters. Keywords: Java, OOP, platform independence, JVM, JDK, JRE, history of Java, object-oriented programming

principles.

2. Java Fundamentals:

This section lays the groundwork for practical Java programming. It covers essential elements like data types (integers, floats, booleans, characters), operators (arithmetic, logical, bitwise), control flow statements (if-else, loops), and the fundamental concepts of methods, classes, and objects. Mastering these fundamentals is crucial for any Java programmer. Keywords: Data types, operators, control flow, methods, classes, objects, Java syntax, variables, constants.

3. Object-Oriented Programming (OOP) in Java:

This chapter delves deeply into the four pillars of object-oriented programming: encapsulation, inheritance, polymorphism, and abstraction. It explains these concepts in the context of Java, providing practical examples and illustrating their significance in building well-structured and maintainable code. Understanding OOP is vital for writing efficient and reusable Java programs. Keywords: Encapsulation, inheritance, polymorphism, abstraction, class design, object-oriented principles, Java OOP, interfaces, abstract classes.

4. Advanced Java Concepts:

This section covers more complex aspects of Java programming, including exception handling (try-catch blocks, finally clauses), generics (type parameters), the collections framework (lists, sets, maps), multithreading and concurrency (managing multiple threads), and the intricacies of handling potential errors. Keywords: Exception handling, generics, collections framework, multithreading, concurrency, thread synchronization, Java collections, generics in Java, exception handling best practices.

5. Input/Output (I/O) Operations:

This chapter explains how Java interacts with external resources, including files and streams. It covers file manipulation (reading, writing, creating, deleting files), working with different types of streams (byte streams, character streams), and effective methods for handling data input and output. This is crucial for building applications that interact with persistent storage. Keywords: File I/O, stream processing, byte streams, character streams, file handling, data input/output, Java I/O,

buffered streams, serialization.

6. Networking in Java:

Here, the focus shifts to building network applications. This chapter explains how to use sockets and other networking APIs to create applications that communicate over networks. It covers concepts like client-server architecture, handling network connections, and sending and receiving data over a network. Keywords: Networking, sockets, client-server, TCP/IP, UDP, network programming, Java networking, HTTP, sockets programming.

7. Java Database Connectivity (JDBC):

This section covers the essential techniques for connecting Java applications to databases. It explains how to use the JDBC API to interact with databases, execute SQL queries, and manage database transactions. This is crucial for building data-driven applications. Keywords: JDBC, databases, SQL, database connectivity, database drivers, transactions, Java database programming, MySQL, PostgreSQL, Oracle.

8. GUI Programming with Java Swing and JavaFX:

This chapter introduces graphical user interface (GUI) programming in Java, using both Swing (a classic Java GUI toolkit) and JavaFX (a more modern approach). It explains how to create user interfaces with windows, buttons, text fields, and other GUI components, enabling the creation of interactive applications. Keywords: Swing, JavaFX, GUI programming, user interface design, GUI components, event handling, Java GUI, JavaFX tutorial, Swing tutorial.

9. Lambda Expressions and Streams:

This chapter explores functional programming concepts introduced in Java 8 and later, focusing on lambda expressions and streams. Lambda expressions provide a concise way to represent anonymous functions, while streams offer a powerful mechanism for processing collections of data efficiently. Understanding these features is key to writing modern, efficient Java code. Keywords: Lambda expressions, streams, functional programming, Java 8, Java streams, lambda expressions in Java, functional interfaces, stream operations.

10. Modern Java Features:

This section brings the reader up to speed with the latest features in modern Java versions. This includes a look at modules (for better code organization and dependency management), the enhanced `Optional` class (for handling potentially missing values), and other advancements that improve code clarity, maintainability, and performance. Keywords: Java modules, Optional class, Java 11, Java 17, recent Java features, modern Java development, Java improvements.

11. Conclusion and Further Learning:

The concluding chapter summarizes the key concepts covered in the ebook and provides valuable resources for continued learning. This could include links to online courses, tutorials, and other relevant materials to help readers continue their Java programming journey. Keywords: Java learning resources, further learning, Java tutorials, Java online courses, continuing education, Java community.

FAQs:

1. What is the best way to learn Java from this ebook? Start with the fundamentals, gradually progressing through the more advanced topics. Practice coding regularly and work through the examples provided.
2. Is this ebook suitable for beginners? Yes, the ebook is designed to be accessible to beginners, starting with foundational concepts before moving onto advanced topics.
3. Does the ebook cover all aspects of Java? While aiming for comprehensiveness, no single resource can cover every single aspect of Java's vast ecosystem. This ebook focuses on core concepts and widely used features.
4. What Java version does the ebook cover? The ebook will cover the latest stable Java version at the time of publication, referencing earlier versions as necessary for historical context.
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7. What IDE is recommended for using with this ebook? Popular IDEs like IntelliJ IDEA, Eclipse, or NetBeans are all suitable.
8. Can I use this ebook to prepare for Java certification exams? The ebook covers many concepts

relevant to various Java certifications; however, consult the specific exam syllabus for complete coverage.

9. Where can I get support if I have questions about the content? [Specify support channels - e.g., "You can reach our support team via email at "]

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java the complete reference pdf: Java: The Complete Reference, Ninth Edition

(INKLING CH) Herbert Schildt, 2014-04-08 The Definitive Java Programming Guide Fully updated for Java SE 8, Java: The Complete Reference, Ninth Edition explains how to develop, compile, debug, and run Java programs. Bestselling programming author Herb Schildt covers the entire Java language, including its syntax, keywords, and fundamental programming principles, as well as significant portions of the Java API library. JavaBeans, servlets, applets, and Swing are examined and real-world examples demonstrate Java in action. New Java SE 8 features such as lambda expressions, the stream library, and the default interface method are discussed in detail. This Oracle Press resource also offers a solid introduction to JavaFX. Coverage includes: Data types, variables, arrays, and operators Control statements Classes, objects, and methods Method overloading and overriding Inheritance Interfaces and packages Exception handling Multithreaded programming Enumerations, autoboxing, and annotations The I/O classes Generics Lambda expressions String handling The Collections Framework Networking Event handling AWT and Swing The Concurrent API The Stream API Regular expressions JavaFX JavaBeans Applets and servlets Much, much more

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java the complete reference pdf: Java The Complete Reference, 8th Edition Herbert Schildt, 2011-06-22 The Definitive Java Programming Guide In Java: The Complete Reference, Eighth Edition, bestselling programming author Herb Schildt shows you everything you need to develop,

compile, debug, and run Java programs. Updated for Java Platform, Standard Edition 7 (Java SE 7), this comprehensive volume covers the entire Java language, including its syntax, keywords, and fundamental programming principles. You'll also find information on key elements of the Java API library. JavaBeans, servlets, applets, and Swing are examined and real-world examples demonstrate Java in action. In addition, new Java SE 7 features such as try-with-resources, strings in switch, type inference with the diamond operator, NIO.2, and the Fork/Join Framework are discussed in detail. Coverage includes: Data types and operators Control statements Classes and objects Constructors and methods Method overloading and overriding Interfaces and packages Inheritance Exception handling Generics Autoboxing Enumerations Annotations The try-with-resources statement Varargs Multithreading The I/O classes Networking The Collections Framework Applets and servlets JavaBeans AWT and Swing The Concurrent API Much, much more

java the complete reference pdf: Java: The Complete Reference, Twelfth Edition Herbert Schildt, 2021-11-12 The Definitive Java Programming Guide Fully updated for Java SE 17, Java™: The Complete Reference, Twelfth Edition explains how to develop, compile, debug, and run Java programs. Best-selling programming author Herb Schildt covers the entire Java language, including its syntax, keywords, and fundamental programming principles. You'll also find information on key portions of the Java API library, such as I/O, the Collections Framework, the stream library, and the concurrency utilities. Swing, JavaBeans, and servlets are examined, and numerous examples demonstrate Java in action. Of course, recent additions to the Java language, such as records, sealed classes, and switch expressions are discussed in detail. Best of all, the book is written in the clear, crisp, uncompromising style that has made Schildt the choice of millions worldwide. Coverage includes: Data types, variables, arrays, and operators Control statements Classes, objects, and methods Method overloading and overriding Inheritance Interfaces and packages Exception handling Multithreaded programming Enumerations, autoboxing, and annotations The I/O classes Generics Lambda expressions Modules Records Sealed classes Text blocks switch expressions Pattern matching with instanceof String handling The Collections Framework Networking Event handling AWT Swing The Concurrent API The Stream API Regular expressions JavaBeans Servlets Much, much more

java the complete reference pdf: Java: The Complete Reference, Eleventh Edition Herbert Schildt, 2018-12-14 The Definitive Java Programming Guide Fully updated for Java SE 11, Java: The Complete Reference, Eleventh Edition explains how to develop, compile, debug, and run Java programs. Best-selling programming author Herb Schildt covers the entire Java language, including its syntax, keywords, and fundamental programming principles. You'll also find information on key portions of the Java API library, such as I/O, the Collections Framework, the stream library, and the concurrency utilities. Swing, JavaBeans, and servlets are examined and numerous examples demonstrate Java in action. Of course, the very important module system is discussed in detail. This Oracle Press resource also offers an introduction to JShell, Java's interactive programming tool. Best of all, the book is written in the clear, crisp, uncompromising style that has made Schildt the choice of millions worldwide. Coverage includes: •Data types, variables, arrays, and operators •Control statements •Classes, objects, and methods •Method overloading and overriding •Inheritance •Local variable type inference •Interfaces and packages •Exception handling •Multithreaded programming •Enumerations, autoboxing, and annotations •The I/O classes •Generics •Lambda expressions •Modules •String handling •The Collections Framework •Networking •Event handling •AWT •Swing •The Concurrent API •The Stream API •Regular expressions •JavaBeans •Servlets •Much, much more Code examples in the book are available for download at www.OraclePressBooks.com.

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Lemay, Charles L. Perkins, Tim Webster, 1996-01-01 Takes a tutorial approach towards developing and serving Java applets, offering step-by-step instruction on such areas as motion pictures, animation, applet interactivity, file transfers, sound, and type. Original. (Intermediate).

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java the complete reference pdf: Handbook of Big Data Technologies Albert Y. Zomaya, Sherif Sakr, 2017-02-25 This handbook offers comprehensive coverage of recent advancements in Big Data

technologies and related paradigms. Chapters are authored by international leading experts in the field, and have been reviewed and revised for maximum reader value. The volume consists of twenty-five chapters organized into four main parts. Part one covers the fundamental concepts of Big Data technologies including data curation mechanisms, data models, storage models, programming models and programming platforms. It also dives into the details of implementing Big SQL query engines and big stream processing systems. Part Two focuses on the semantic aspects of Big Data management including data integration and exploratory ad hoc analysis in addition to structured querying and pattern matching techniques. Part Three presents a comprehensive overview of large scale graph processing. It covers the most recent research in large scale graph processing platforms, introducing several scalable graph querying and mining mechanisms in domains such as social networks. Part Four details novel applications that have been made possible by the rapid emergence of Big Data technologies such as Internet-of-Things (IOT), Cognitive Computing and SCADA Systems. All parts of the book discuss open research problems, including potential opportunities, that have arisen from the rapid progress of Big Data technologies and the associated increasing requirements of application domains. Designed for researchers, IT professionals and graduate students, this book is a timely contribution to the growing Big Data field. Big Data has been recognized as one of leading emerging technologies that will have a major contribution and impact on the various fields of science and various aspect of the human society over the coming decades. Therefore, the content in this book will be an essential tool to help readers understand the development and future of the field.

java the complete reference pdf: *Think Java* Allen B. Downey, Chris Mayfield, 2016-05-06
Currently used at many colleges, universities, and high schools, this hands-on introduction to computer science is ideal for people with little or no programming experience. The goal of this concise book is not just to teach you Java, but to help you think like a computer scientist. You'll learn how to program—a useful skill by itself—but you'll also discover how to use programming as a means to an end. Authors Allen Downey and Chris Mayfield start with the most basic concepts and gradually move into topics that are more complex, such as recursion and object-oriented programming. Each brief chapter covers the material for one week of a college course and includes exercises to help you practice what you've learned. Learn one concept at a time: tackle complex topics in a series of small steps with examples Understand how to formulate problems, think creatively about solutions, and write programs clearly and accurately Determine which development techniques work best for you, and practice the important skill of debugging Learn relationships among input and output, decisions and loops, classes and methods, strings and arrays Work on exercises involving word games, graphics, puzzles, and playing cards

java the complete reference pdf: Introduction to Programming Using Java David Eck, 2009-09 This is a free, on-line textbook on introductory programming using Java. This book is directed mainly towards beginning programmers, although it might also be useful for experienced programmers who want to learn more about Java. It is an introductory text and does not provide complete coverage of the Java language. The text is a PDF and is suitable for printing or on-screen reading. It contains internal links for navigation and external links to source code files, exercise solutions, and other resources. Contents: 1) Overview: The Mental Landscape. 2) Programming in the Small I: Names and Things. 3) Programming in the Small II: Control. 4) Programming in the Large I: Subroutines. 5) Programming in the Large II: Objects and Classes. 6) Introduction to GUI Programming. 7) Arrays. 8) Correctness and Robustness. 9) Linked Data Structures and Recursion. 10) Generic Programming and Collection Classes. 11) Files and Networking. 12) Advanced GUI Programming. Appendices: Source Code for All Examples in this Book, and News and Errata.

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