Objects First with

Java™

A Practical Introduction Using BlueJ

5th EDITION

David Barnes | Michael Kölling

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   Head First Java Kathy Sierra,Bert Bates,2003 Head First Java engages readers on many levels bringing the latest learning theories and research together to create not just a book to read but a multi sensory learning experience   *Objects First with Java* David John Barnes,David J. Barnes,Michael Kölling,2005 This introductory programming textbook integrates BlueJ with Java It provides a thorough treatment of object oriented principles   *Objects First with Java* David J. Barnes,Michael Kolling,Michael Kölling,2003 0 13 044929 6 4492J 5 Barnes Kolling OBJECTS FIRST WITH JAVA BlueJ is a Java development environment that runs on top of the Sun Microsystems Java Development Kit making use of the standard compiler and virtual machine It allows readers to create objects of any class and interact with their methods For the first time the traditionally difficult concepts of objects and classes are brought alive in an easily manipulable visual form This truly objects first approach within the customized BlueJ environment will revolutionize the way programming is learned The book includes a copy of BlueJ Takes a project driven approach to problem solving the book is structured along the lines of fundamental development tasks providing readers with clear coverage of the principles of object oriented programming Programmers and non programmers who want to learn Java with a state of the art approach and user friendly programming environment   Reflections on the Teaching of Programming Jens Bennedsen,Michael E. Caspersen,Michael Kölling,2008-05-20 This state of the art survey reflecting on the teaching of programming has been written by a group of primarily Scandinavian researchers and educators with special interest and experience in the subject of programming The 14 chapters contributed by 24 authors present practical experience gathered in the process of teaching programming and associated with computing education research work Special emphasis is placed on practical advice and concrete suggestions The authors are all members of the Scandinavian Pedagogy of Programming Network SPoP and bring together a diverse body of experiences from the Nordic countries The 14 chapters of the book have been carefully written and edited to present 4 coherent units on issues in introductory programming courses object oriented programming teaching software engineering issues and assessment Each of these individual parts has its own detailed introduction The topics addressed span a wide range of problems and solutions associated with the teaching of programming such as introductory programming courses exposition of the programming process apprentice based learning functional programming first problem based learning the use of on line tutorials object oriented programming and Java the BlueJ environment to introduce programming model driven programming as opposed to the prevailing language driven approach teaching software engineering testing extreme programming frameworks feedback and assessment active learning technology based individual feedback and mini project programming exams   **Data Structures and Other Objects Using Java** Michael Main,2006 Michael Main s gentle approach to data structures and objects has introduced thousands of beginning programmers to foundational data structures using the practical Java language This Third Edition makes the most of the enhancements and advantages of Java 5 0

including the use of generic data types An early group of chapters reviews the key aspects of object oriented programming giving students the foundation for understanding significant programming concepts With this framework they are able to accomplish writing functional data structures by using a five step method for working with data types understanding the data type abstractly writing a specification using the data type designing and implementing the data type and analyzing the implementation Students learn to think analytically about the efficiency and efficacy of design while gaining exposure to useful Java classes libraries The flexibility of Data Structures and Other Objects Using Java allows instructors to structure their course around a certain emphasis such as early coverage of recursion and sorting or to accelerate the pace of the course *An Introduction to Object-oriented Programming with Java* C. Thomas Wu,1999 This is an introductory text for beginners with no background in programming The text teaches students how to write object oriented programs The book covers both Java applets and applications Students will learn the fundamentals of object oriented programming through the use of predefined objects supplied with the book By using these predefined objects the students will learn both the concepts of object oriented programming and also how to later design their own objects by example Students will learn how to define their own objects and how to develop programs using object oriented design methodology In addition students will learn modern programming topics such as event driven and GUI Graphic User Interface programming **Object-oriented Programming with Java** David J. Barnes,2000 For an undergraduate course in Object Oriented Programming or a course in Intermediate Java Programming Appealing to programmers and non programmers alike this complete introduction to Java shows students how to use this versatile and popular object oriented programming language as a primary tool in many different aspects of their programming work not just for creating programs with graphical content within Web pages and includes complete descriptions of the fundamental elements of Java with step by step instructions on how to compile and run a program Well organized clearly written and visually engaging it gives students real hands on experience as it guides them through all of Java s functions and capabilities reinforcing their understanding with periodic reviews and helping them see Java s everyday applicability through many interesting case studies Emphasizing the importance of good programming style particularly the need to maintain an object s integrity from outside interference it teaches students how to harness the power of Java in object oriented programming and enables them to create their own interesting and practical every day applications **Introduction to Programming and Object-Oriented Design Using Java** Jaime Niño,Frederick A. Hosch,2008-02-04 The 3rd edition of Introduction to Programming and Object Oriented Design continues to provide students with an objects first introduction to programming and software design using Java Java is used as a vehicle for teaching problem modeling using fundamental software engineering principles and concepts The text has been updated to include more problems and exercises and additional relevant examples It also offers optional interactive exercises using the DrJava integrated development environment IDE The UML is employed very informally for denoting objects object relationships and system

dynamics No specific previous programming experience is assumed and the text is appropriate for first year computer science majors The text could also carry over to a second course on data structures or software OO design **Data Structures & Other Objects Using Java** Michael Main,1999 In this book author Michael Main takes a gentle approach to the data structures course in Java The text offers an early self contained review of object oriented programming and Java to give students a firm grasp of key concepts and allows students with a variety of backgrounds to adjust easily to the course This book offers a flexibility that gives professors such options as emphasizing object oriented programming covering recursion and sorting early or accelerating the pace of the course Main s book meets the needs of professors searching for a text that balances object oriented programming and data structures with Java Java Software Solutions Adrienne Bloss,N. Jane Ingram,2002-11 **Introduction to Java Programming** Y. Daniel Liang,2011 Introduction to Java Programming Brief 8e consists of the first 20 chapters from the Comprehensive version of Introduction to Java Programming It introduces fundamentals of programming problem solving object oriented programming and GUI programming The Brief version is suitable for a CS1 course Regardless of major students will be able to grasp concepts of problem solving and programming thanks to Liang s fundamentals first approach students learn critical problem solving skills and core constructs before object oriented programming Liang s approach includes application rich programming examples which go beyond the traditional math based problems found in most texts Students are introduced to topics like control statements methods and arrays before learning to create classes Later chapters introduce advanced topics including graphical user interface exception handling I O and data structures Small simple examples demonstrate concepts and techniques while longer examples are presented in case studies with overall discussions and thorough line by line explanations In the Eighth Edition only standard classes are used Java, Late Objects Version Paul J. Deitel,Harvey M. Deitel,2010 The Deitels groundbreaking How to Program series offers unparalleled breadth and depth of object oriented programming concepts and intermediate level topics for further study This survey of Java programming contains an optional extensive OOD UML 2 case study on developing and implementing the software for an automated teller machine The Eighth Edition of this acclaimed text is now current with the Java SE 6 updates that have occurred since the book was last published The Late Objects Version delays coverage of class development until Chapter 8 presenting the control structures methods and arrays material in a non object oriented procedural programming context **Java 2 in 21 Days** Laura Lemay,Rogers Cadenhead,2001 The Professional Reference Edition of this book contains an extra seven chapters covering advanced topics such as object serialization remote method invocation accessibility security JavaBeans JDBC and advanced data structures as well as a 200 page reference section detailing the most commonly used aspects of the Java language CD ROM includes a fully functional Java compiler and demo versions of leading Java development tools Object Magazine ,1997 **Murach's Beginning Java 2** Andrea Steelman,2001 An exciting new approach to Java instruction that includes the latest Java releases 1 3 1 and 1 4 In just twenty

chapters you grow from beginner to entry level professional Along the way you learn how to develop GUIs with Swing components how to work with files how to use JDBC to work with databases how to develop applets that are run from Internet browsers how to work with threads and much more It s all there in the unique Murach style that has been training professional programmers for more than 25 years Includes CD Rom **C++** Paul J. Deitel,Harvey M. Deitel,2010 KEY BENEFIT This comprehensive best seller is aimed at readers with little or no programming experience It teaches by presenting the concepts in the context of full working programs and takes an early objects approach The authors emphasize achieving program clarity through structured and object oriented programming software reuse and component oriented software construction KEY TOPICS Introduction to Computers the Internet and World Wide Web Introduction to C Programming Introduction to Classes and Objects Control Statements Part 1 Control Statements Part 2 Functions and an Introduction to Recursion Arrays and Vectors Pointers and Pointer Based Strings Classes A Deeper Look Part 1 Classes A Deeper Look Part 2 Object Oriented Programming Inheritance Object Oriented Programming Polymorphism Optional ATM Case Study Part 1 Object Oriented Design with the UML Optional ATM Case Study Part 2 Implementing an Object Oriented Design Exception Handling Templates Operator Overloading String and Array Objects String Processing with Class string Stream Input Output File and String Stream Processing Searching and Sorting Data Structures Standard Template Library STL Bits Characters C Strings and structs Game Programming with Ogre Boost Libraries Technical Report 1 and C 0x Other Topics Operator Precedence and Associativity Chart ASCII Character Set Fundamental Types Number Systems C Legacy Code Topics Preprocessor UML 2 Additional Diagram Types Using the Visual Studioreg 2008 Debugger Using the GNUtrade C Debugger MARKET A useful reference for programmers *Data Structures and Algorithm Analysis in Java* Mark Allen Weiss,2007 As the speed and power of computers increases so does the need for effective programming and algorithm analysis By approaching these skills in tandem Mark Allen Weiss teaches readers to develop well constructed maximally efficient programs in Java A full language update to Java 5 0 throughout the text particularly its use of generics adds immeasurable value to this advanced study of data structures and algorithms This Second Edition features integrated coverage of the Java Collections Library as well as a complete revision of lists stacks queues and trees Weiss clearly explains topics from binary heaps to sorting to NP completeness and dedicates a full chapter to amortized analysis and advanced data structures and their implementation Figures and examples illustrating successive stages of algorithms contribute to Weiss careful rigorous and in depth analysis of each type of algorithm A logical organization of topics and full access to source code compliment the text s coverage **Mathematics Catalog 2005** Neil Thomson,2004-10 **Developing Java Software** Russel Winder,Graham Roberts,1998 This book takes the reader from the basic principles of object oriented design and programming using Java through to class library construction and application development It teaches fundamental programming concepts object oriented principles and how to exploit class based abstraction This is supported by a detailed

description of how programs are designed and is illustrated by substantial examples With the core concepts in place the book then provides a Java programming language reference detailing each language feature from types and variables through to classes exceptions and threads A key part of the reference is the provision of many small example programs allowing the reader to see how the language features are used **Proceedings of MELECON … ,**1998

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