

Java A COMPREHENSIVE PRIMER IN PROGRAMMING actually

The aim of this book is to demonstrate fundamental programming concepts. This comprehensive version of *Java Actually* builds a foundation for novice programmers to move on to the more specialised and advanced technologies that use Java. Coverage is organised as follows:

- Part 1:** Structured programming
- Part 2:** Object-Based programming
- Part 3:** Basic program building blocks
- Part 4:** Object-oriented programming
- Part 5:** Applying OOP
- Part 6:** Appendices

Control structures, strings and arrays and Object-based programming (objects with no inheritance) are covered in the first two Parts so that objects are introduced as soon as possible. This material should be taught in all courses and a shorter version of this book exists to cover just these basics. For those moving onto to an intermediary level, the last parts of the book describe OOP (object-oriented programming) concepts and explain how they are applied.

Features

- Up to date with Java technology as of Java 6.0 and JDK 1.6
- Uses classes from the Java standard library
- Practical usage of Java emphasised through examples
- Each program example is complete and easily reproducible
- Common pitfalls in programming are pointed out
- Focuses on problem-solving techniques
- Testing program behaviour to instil good programming practice
- A case study of developing a game (Four in a Row) is used to illustrate test-driven development
- Concepts emphasized over syntax
- Modelling of abstractions and data structures explained and illustrated with UML diagrams
- Encourages algorithm development

Benefits

- Clear and focused learning objectives
- Ample review questions which test the topics covered in each chapter with annotated answers
- Exercises varying in scale and level of difficulty to help practice and develop programming skills
- Best practice callouts promote good programming habits
- Platform and tool-independence showing Java without bells and whistles

For Students:

- Source code for all the examples in the book
- Links to useful resources such as articles/tutorials on programming, web browsers, Java tools and more
- Errata

For Lecturers:

- Slides
- Source code for all the examples in the lecture notes
- Links providing suggestions for projects and weekly assignments



Java actually

COMPREHENSIVE

Mughal,
Hamre
Rasmussen

ISBN: 978-1-84480-933-2



9 781844 809332 >

 COURSE TECHNOLOGY
CENGAGE Learning

For your lifelong learning solutions, visit www.cengage.co.uk and course.cengage.com

 COURSE TECHNOLOGY
CENGAGE Learning

THOMSON

Java actually

A COMPREHENSIVE PRIMER IN PROGRAMMING

Khalid A. Mughal
Torill Hamre
Rolf W. Rasmussen



Visit the website at: www.cengage.co.uk/mughal

