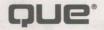
JAVA

Quick Reference

Michael M. Afergan





Java Quick Reference Copyright© 1996 by Que® Corporation.

All rights reserved. Printed in the United States of America. No part of this book may be used or reproduced in any form or by any means, or stored in a database or retrieval system, without prior written permission of the publisher except in the case of brief quotations embodied in critical articles and reviews. Making copies of any part of this book for any purpose other than your own personal use is a violation of United States copyright laws. For information, address Que Corporation, 201 W. 103rd Street, Indianapolis, IN 46290. You may reach Que's direct sales line by calling 1-800-428-5331.

Library of Congress Catalog No.: 96-68985

ISBN: 0-7897-0868-x

This book is sold as is, without warranty of any kind, either express or implied, respecting the contents of this book, including but not limited to implied warranties for the book's quality, performance, merchantability, or fitness for any particular purpose. Neither Que Corporation nor its dealers or distributors shall be liable to the purchaser or any other person or entity with respect to any liability, loss, or damage caused or alleged to have been caused directly or indirectly by this book.

98 97 96 6 5 4 3 2 1

Interpretation of the printing code: the rightmost double-digit number is the year of the book's printing; the rightmost single-digit number, the number of the book's printing. For example, a printing code of 96-1 shows that the first printing of the book occurred in 1996.

All terms mentioned in this book that are known to be trademarks or service marks have been appropriately capitalized. Que cannot attest to the accuracy of this information. Use of a term in this book should not be regarded as affecting the validity of any trademark or service mark.

Screen reproductions in this book were created using Collage Plus from Inner Media, Inc., Hollis, NH.

Credits

President

Roland Elgey

Publisher

Joseph B. Wikert

Publishing Manager

Fred Slone

Senior Title Manager

Bryan Gambrel

Editorial Services Director

Elizabeth Keaffaber

Managing Editor

Sandy Doell

Director of Marketing

Lynn E. Zingraf

Acquisitions Editor

Angela C. Kozlowski

Production Editor

Thomas Cirtin

Product Marketing Manager

Kim Margolius

Assistant Product Marketing

Manager

Christy M. Miller

Strategic Marketing Manager

Barry Pruett

Technical Editor

Mark Robinson

Technical Support Specialist

Nadeem Muhammed

Acquisitions Coordinator

Bethany A. Echlin

Software Relations Coordinator

Patty Brooks

Editorial Assistant

Andrea Duvall

Book and Cover Designer

Nathan Clement

Production Team

Marcia Brizendine Amy Gornik

Darvl Kessler

Paul Wison

Indexer

Cheryl Dietsch

About the Author

Michael M. Afergan (mikea@ai.mit.edu) began working with Java during the Spring of 1995 through his research at the Massachusetts Institute of Technology AI Labs. Since then, he has carefully studied its growth, developing practical applets for large businesses as an independent consultant. Michael is a founding member of TeamJava, a network of Java professionals, and is also a weekly contributor to *Digital Espresso*, Java's online digest. Michael was a contributing author for Que's *Special Edition Using Java*, and wrote a chapter on multi-user environments for *Java Unleashed*, Sams Publishing.

Although only 18 years old, Michael has been programming for 10 years and has even taught Java overseas and a computer science class at MIT. He is currently attending Harvard University where he was accepted for early admissions. His official Web page is at http://www.ai.mit.edu/people/mikea/resume.html.

We'd Like to Hear from You!

As part of our continuing effort to produce books of the highest possible quality, Que would like to hear your comments. To stay competitive, we *really* want you, as a computer book reader and user, to let us know what you like or dislike most about this book or other Que products.

You can mail comments, ideas, or suggestions for improving future editions to the address below, or send us a fax at (317) 581-4663. For the online inclined, Macmillan Computer Publishing has a forum on CompuServe (type **GO QUEBOOKS** at any prompt) through which our staff and authors are available for questions and comments. The address of our Internet site is **http://www.mcp.com** (World Wide Web).

In addition to exploring our forum, please feel free to contact me personally to discuss your opinions of this book: I'm **75703,3504** on CompuServe, and I'm **akozlowski@que.mcp.com** on the Internet.

Thanks in advance. Your comments will help us to continue publishing the best books available on computer topics in today's market.

Angela C. Kozlowski Product Development Specialist Que Corporation 201 W. 103rd Street Indianapolis, Indiana 46290 USA To my parents, for supporting me no matter which paths I choose to take.

To Papa Bert, for inspiring me to march down all paths with determination and dedication.

To Dan, for always being awesome.

Contents at a Glance

Introduction 1

API Reference 5

Syntax Reference 307

Action Index 327

Index of Fields 333

Index of Methods 345

Index of Classes and Interfaces 415

Table of Contents

Java Quick Reference

Continue	
DoWhile	
Else	_
Extends	
Final	
Finally	
For	
If	
Implements	
Import	
Instanceof317	
Modifiers	
Native	
New319	
Package319	
Public	
Private	
Return	
Super	
This	
Throw	
Throws	
Static	
Static	3
Switch323	
Synchronized	
Try	
While	5
Action Index327	,
Animation 329	
Applets	
Applications)
Communication	
Image Processing)
Input and Output	
Math331	
User Interfaces	,
Index of Fields333	2
Index of Methods345	
Index of Classes and Interfaces415	j

INTRODUCTION

What Does This Manual Contain?

The Java language consists of two parts: the *syntax* and the *libraries*. The Java syntax closely resembles that of C++ as it defines the structure of your programs. The Java API (application programming interface) libraries are the resources that you as a programmer, have to work with. By using hyllbraries according to the Java syntax, you are able to develop thoughout the Java Syntax, you are able to develop thoughout the Java API librarie. These libraries were written by the developers of Java to enable you to create full-blown applies and application.

The API libraries are made up of several packages, each containing several classes that are grouped by functionality. These classes are composed of *fields* and *methods*.

This manual lists and explains every class and interface as well as their respective fields and methods. The classes are in alphabetical order by package, and the summaries of many classes include examples of their use as well as the output of the code. In addition, every component has a picture, so you know how your interface will look before you even begin.

Indexes

To make this manual easy to use, there are several indexes that organize the "API Reference" section in various manners. At the end of this book, you will find indexes of all classes, methods, and fields. Each entry provides you with the full package and class name as well as the page number directing you to a detailed summary of the class.

Java Quick Reference

Furthermore, you will also find at the back of this book the "Action Index," which not only lists several of the major tasks that Java is used for, but also lists the classes necessary to accomplish those tasks.

How to Use This Manual

Designed as a handy reference, this manual can be used in a myriad of ways as described in the following sections.

API Reference

This section serves as the primary source of information for the manual. Each class, interface, exception, and error used in Java programming is listed here and explained in depth. In addition, every method and field within these classes and interfaces is explained in detail. For easy reference, they are in alphabetical order and grouped by package. Furthermore, to give you a jump start on your task, several classes have complete applets that serve as code examples.

Due to their unique natures, *exceptions* and *errors* are listed separately after the classes and interfaces. They too are in alphabetical order and grouped by package.

Syntax Reference

Even the most experienced programmer sometimes forgets the exact usage of a certain keyword or construct. Arranged alphabetically, this section provides you not only with an explanation of each keyword in the Java language, but also a general definition of the syntax and a specific example.

Action Index

Few programs can be written using only one class. The task-related "Action Index" provides you with a list of the several common uses of Java along with the packages, classes, and methods necessary to accomplish these tasks and the page numbers for finding these packages, classes, and methods in the "API Reference" section. Therefore, the "Action Index" enables you to learn not only what classes you need to use, but also how to use them.

Index of Classes and Interfaces

Because you may not always know the package of a class based solely on its name, this index lists all classes in alphabetical order and provides their complete names and page numbers. Conveniently located at the end of the manual, this index can also be used even if you do know the package of a class.

Index of Methods

Just because you know of a method doesn't mean that you know where it came from. This index enables you to look up a method based on its name and find its class as well as its page number.

Index of Fields

Similar to methods, it is not always clear which package a field belongs to. This index enables you not only to find the page on which the field is explained, but also the class to which it belongs.

API REFERENCE



API REFERENCE

This reference presents and explains the entire Java API. The API, which stands for *Application Programming Interface*, is a set of classes and interfaces that outline a set of platform-independent behaviors that establish the foundation of all Java applets and applications. Although any program depends on the strategies of the programmer, these classes and interfaces are the tools that all programmers use in creating Java applications.

试读结束: 需要全本请在线购买: www.ertongbook