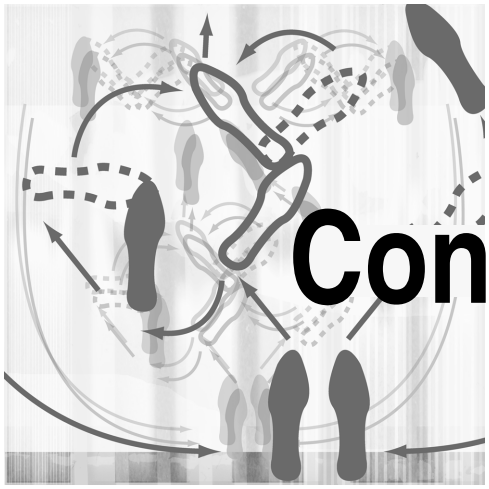
EclipseFM.fm Page ix Tuesday, June 3, 2003 3:27 PM



Contents

Foreword . . . . . **xiii**

Chapter 1 **Welcome to Eclipse!** **1**
How it works 3
Step 1.1—Brushing your teeth 4
What I'll cover 5
Eclipse 5
The Java Development Tools (or JDT) 6
The Software Widget Toolkit (or SWT) 6
JDBC and HSQLDB 7

Chapter 2 **Installing Eclipse** **9**
Step 2.1—Extract Eclipse 11
Step 2.2—Run Eclipse 19

Chapter 3 **Introducing the workbench** **35**
Introduction 36
Step 3.1—Getting to the welcome display 39
Step 3.2—Eclipse's own tutorial 46
Review 37
The bars 37
The panels 37

Chapter 4 **The Resource perspective** **35**
Step 4.1—Close the Welcome window. 38
Step 4.2—Create a project 39
Step 4.3—Create a Resource 48
Step 4.4—Create a folder, move your file into the folder 53
Step 4.5—Side-by-side editing 58
Overview 67

EclipseFM.fm Page x Tuesday, June 3, 2003 3:27 PM

Chapter 5 **The Java perspective 65**
Overview 67
Step 5.1—Clean up your workbench 68
Step 5.2—Create a New Project 70
Step 5.3—Look under the hood with the Resource perspective 77
Step 5.4—Explore the Java perspective 90

Chapter 6 **The Debug perspective 99**
Step 6.1—Open the Debug perspective 100

Chapter 7 **A simple program 107**
Step 7.1—Get into the Java perspective 109
Step 7.2—Create the Java project 112
Step 7.3—Creating a new class. 115
Step 7.4—Write the code for the new class 119
Option 1—Source Entry 119
Option 2—Importing Source from CD 121
Step 7.5—Reviewing the source and the generated class 127

Chapter 8 **Running and debugging. 129**
Step 8.1—Running your HelloWorld program 131
Step 8.2—Create HelloWorld2 135
Option 1—Source Entry 135
Option 2—Importing source from CD 140
Step 8.3—Run HelloWorld2 146
Step 8.4—Breakpointing a program 150
Step 8.5—Modifying a Variable and Continuing 154
Overview—The thick client interface 165

Chapter 9 **The user interface 161**
Step 9.1—Workbench cleanup 166
Step 9.2—Create a new project. 170
Step 9.3—Add a new class, HelloSWT 175
Step 9.4—Write the Code for the HelloSWT Class 178
Option 1—Source Entry 178
Option 2—Importing Source from CD 182
Step 9.5—Fixing import errors 190
Step 9.6—Running the HelloSWT class 203
Code review: HelloSWT 214
Step 9.7—Add a new class, Prompt 216
Step 9.8—Modify the new Prompt class 219
Option 1—Source Entry 219
Option 2—Importing Source from CD 224

EclipseFM.fm Page xi Tuesday, June 3, 2003 3:27 PM

Step 9.9—Running the Prompt class 232
Code review: Prompt 241
Overview 251

Chapter 10 **Adding the database. 249**
Step 10.1—Installing HSQLDB 253
Step 10.2—Add a new class, HelloHSQL 259
Step 10.3—Write the code for the HelloHSQL class. 262
Step 10.4—Import the HelloHSQL application 268
Step 10.5—Modifying the JDBC constants (EXPERT ONLY!). 276
Step 10.6—Running the HelloHSQL class. 278
Code review: HelloHSQL 288
Step 10.7—Import the Inquire application 293
Step 10.8—Modifying the JDBC constants (EXPERT ONLY!). 301
Step 10.9—Running the Inquire class 302
Code review: Inquire 305

SideStep 1 Install a Java runtime 311

SideStep 2 Install WinZip 323

SideStep 3 Download Eclipse 335

SideStep 4 On things GUI 347

SideStep 5 Start your SQL engines 353

Index 355