

Table of Contents

rd intro.doc\$
rd hlpapp.doc\$
rd simple.doc\$
rd design.doc\$
rd guides.doc\$
rd author.doc\$
rd topics.doc\$
rd format.doc\$
rd hotspot.doc\$
rd windows.doc\$
rd graphics.doc\$
rd hyper.doc\$
rd mrbc.doc\$
rd custom.doc\$
rd macros.doc\$
rd macroref.doc\$
rd hpj.doc\$
rd hc.doc\$
rd errors.doc\$
rd api.doc\$
rd dll.doc\$
rd vkcodes.doc\$
rd rtf.doc\$
rd baggage.doc\$
μ

Introduction

About This Guide.....	i
About Windows Help.....	iii
What's New in Version 3.1?.....	iv
What Should You Know to Begin?.....	vi
System Requirements.....	vii
Authoring System Requirements.....	vii

Hardware.....	vii
Software.....	vii
Viewing System Requirements.....	vii
Hardware.....	vii
Software.....	vii
What Tools Do You Need?.....	viii
Document Conventions.....	ix
Related Documentation.....	x

Chapter 1: The Windows Help Application

The Windows Help User Interface.....	1-1
Starting Help.....	1-1
The Main Help Window.....	1-1

Main Window Attributes.....	1-2
Title Bar.....	1-2
Size.....	1-2
Placement.....	1-3
Background Color.....	1-3
Authoring Predefined Attributes.....	1-3
The Topic Area.....	1-4
The Nonscrolling Region.....	1-4
The Scrolling Region.....	1-4
Scroll Bars.....	1-5
Topic Text and Graphics.....	1-5
Topic Hot Spots.....	1-6
Windows Help Menus.....	1-6
Customizing the Menu Bar.....	1-7
The File Menu.....	1-7
Open.....	1-7
Print Topic.....	1-8
Print Setup.....	1-8
Exit.....	1-9
The Edit Menu.....	1-9
Copy.....	1-9
Annotate.....	1-10

The Bookmark Menu.....	1-12
Define.....	1-13
Bookmark Names.....	1-14
More.....	1-14
The Help Menu.....	1-15
How To Use Help.....	1-15
Always On Top.....	1-15
About Help.....	1-16
The Windows Help Button Bar.....	1-17
Customizing the Button Bar.....	1-17
The Contents Button.....	1-18
The Search Button.....	1-19
The Back Button.....	1-20
The History Button.....	1-21
Browse Buttons.....	1-22
Customizing the Help Application.....	1-23
Creating a Program Item for Your Help File.....	1-24
Starting Help from the MS-DOS Command Line.....	1-24
Changing the Standard Help Icon.....	1-25
Changing Help's Default Color Scheme.....	1-25
Changing Hot-Spot Colors.....	1-26
Overriding Author-Defined Hot-Spot Colors.....	1-27
Changing Help's Startup Screen Colors.....	1-27

The Mouse and the Keyboard Interfaces.....	1-28
Mouse Interface.....	1-28
Scrolling with the Mouse.....	1-28
Keyboard Interface.....	1-29
Help Access Keys.....	1-29
Help Button Keys.....	1-29
Help Window Keys.....	1-30
Help Movement Keys.....	1-30

Chapter 2: Getting Started With Help Authoring

Windows Help Files.....	2-1
Help Topics.....	2-2
Hypertext Jumps.....	2-2
Pop-Up Windows.....	2-3
Developing Help Files.....	2-3
Developing a Documentation Plan.....	2-4
Programming the Application.....	2-4
Creating the Topic Files.....	2-5
Creating the Help Project File.....	2-6
Building the Help File.....	2-6
Displaying the Built Help File.....	2-6
Building a Simple Help File.....	2-6

Using Help Author to Build a Simple Help File.....	2-7
Creating a Project Subdirectory.....	2-7
Starting the Help Project Editor.....	2-8
Creating a New Help Project.....	2-8
Defining the New Project.....	2-8
Adding a Topic File to the Help Project.....	2-9
Creating the Topic File.....	2-9
Creating Individual Topics.....	2-10
Inserting a Jump Hot Spot.....	2-11
Adding a Picture.....	2-11
Saving the Topic File.....	2-12
Saving the Project File.....	2-12
Building the Help File.....	2-12
Displaying the Help File.....	2-13
Quitting Help Author.....	2-13
Building a Simple Help File Without Help Author.....	2-14
Creating a Help Project Directory.....	2-14
Creating a Help Topic File.....	2-14
Creating Individual Topics.....	2-15
Entering Context Strings.....	2-15
Inserting a Jump.....	2-16
Adding a Picture.....	2-16
Saving the Topic File.....	2-17
Saving the Project File.....	2-17

Creating a Help Project File.....	2-18
Listing Topic Files.....	2-18
Specifying Options.....	2-18
The Complete Help Project File.....	2-19
Building Your Help File.....	2-19
Testing Your Help File.....	2-19
Quitting Help.....	2-20

Chapter 3: Designing the Help System

Designing for People.....	3-1
What Help Authoring Requires.....	3-2
A Rhetorical Definition.....	3-2
Choosing an Audience.....	3-2
Audience Expertise.....	3-3
Who Uses Help?.....	3-4
Why Do People Use Help?.....	3-4
Why Don't People Use Help?.....	3-5
So What Do Users Want?.....	3-6
Providing Context-Sensitive Help.....	3-6
Design Issues.....	3-7
A Word About Design Guidelines.....	3-8
Fundamentals.....	3-8
Hypertext.....	3-11
Problems.....	3-12
Issues.....	3-12

Navigation.....	3-13
Information Structure and Layout.....	3-14
Visual Grouping.....	3-15
Visual Order.....	3-15
Issues.....	3-16
Visual Hierarchy.....	3-16
Creating Emphasis.....	3-17
Consistency.....	3-18
Foreground and Background.....	3-19
White Space.....	3-20
Margins.....	3-20
Color.....	3-21
Issues.....	3-22
Text.....	3-23
Legibility and Readability.....	3-24
Issues.....	3-25
Lists.....	3-26
Tables.....	3-26
Graphics.....	3-28
Issues.....	3-30
Picture Types.....	3-30
Contrast and Emphasis.....	3-31
Combining Text and Graphics.....	3-32
Explanatory Text.....	3-32
Picture Text.....	3-33

Chapter 4: Help Authoring Guidelines

The Guidelines.....	4-1
Help Organization.....	4-1
Help Menu.....	4-2
Contents Screens.....	4-2
Keyword Lists and Indexes.....	4-3
Individual Help Topics.....	4-3
Formatting and Style.....	4-4
Guideline Organization.....	4-4
Bulleted Lists and Numbered Lists.....	4-4
Principles.....	4-4
Strategies.....	4-5
Color.....	4-5
Principles.....	4-5
Strategies.....	4-6
Context Sensitivity.....	4-6
Principles.....	4-7
Strategies.....	4-7
Cross-References.....	4-7
Principles.....	4-7
Strategies.....	4-8
Examples.....	4-9
Principles.....	4-9
Strategies.....	4-9

Fonts.....	4-10
Principles.....	4-10
Strategies.....	4-11
Graphics.....	4-11
Principles.....	4-11
Strategies.....	4-13
Headings.....	4-14
Principles.....	4-14
Strategies.....	4-15
Jumps.....	4-15
Principles.....	4-15
Strategies.....	4-16
Nonscrolling Region.....	4-17
Principles.....	4-17
Strategies.....	4-17
Notes, Comments, Hints, and Tips.....	4-18
Principles.....	4-18
Strategies.....	4-19
Pop-up Windows.....	4-19
Principles.....	4-19
Strategies.....	4-19
Secondary Windows.....	4-19
Principles.....	4-20
Strategies.....	4-20

Shortcuts and Shortcut Keys.....	4-21
Principles.....	4-21
Strategies.....	4-21
Tables.....	4-22
Principles.....	4-22
Strategies.....	4-23
White Space: Margins, Indents, and Leading.....	4-24
Principles.....	4-24
Strategies.....	4-25

Chapter 5: Using Help Author

About Help Author.....	5-1
Installing Help Author.....	5-2
Installing Help Author Without Word for Windows.....	5-3
Getting Started.....	5-4
Getting Help.....	5-5
Windows Help Project Editor.....	5-5
The Help Project Editor Window.....	5-6
The Help Project Editor Menus.....	5-6
The File Menu.....	5-6
The Edit Menu.....	5-7
The Compile Menu.....	5-8
Creating a New Help Project File.....	5-8
Opening an Existing Help Project.....	5-9
Editing Project Information.....	5-9
Adding Topic Files to the Help Project.....	5-10
Choosing an RTF Editor.....	5-11

Changing Your RTF Editor.....	5-11
Using a Custom Macro to Change Your RTF Editor.....	5-11
Changing Your RTF Editor by Hand.....	5-12
Editing Topic Files.....	5-12
Removing Topic Files from the Help Project.....	5-12
Specifying a Location for Bitmap Files.....	5-13
Cutting or Copying Bitmap Filenames.....	5-13
Pasting Bitmap Filenames into the Graphics Dialog Box.....	5-14
Specifying the Level of Compression.....	5-14
Mapping Application Context IDs.....	5-15
Defining New Context IDs.....	5-15
Updating Context IDs from a File.....	5-16
Updating Context IDs from More Than One File.....	5-17
Editing Context IDs.....	5-17
Deleting Context IDs.....	5-18
Specifying Window Definitions.....	5-18
Defining the Main Window.....	5-19
Defining a Secondary Window.....	5-19
Specifying Background Colors.....	5-20
Setting the Window's Position.....	5-20
Using the Window Sizer.....	5-21
Moving the Window.....	5-21
Resizing the Window.....	5-21
Deleting Window Definitions.....	5-21
Adding Comments to the Help Project File.....	5-22
Cutting or Copying Comment Text.....	5-22
Pasting Text into the Comments Box.....	5-22

Saving Help Project Files.....	5-23
Building the Help File.....	5-23
Viewing Error Messages.....	5-24
Displaying a Project's Help File.....	5-24
Quitting the Help Project Editor.....	5-25
The Windows Help Authoring Templates.....	5-25
How the Help Authoring Templates Work.....	5-25
The Template Macros.....	5-26
The Template Style Sheet.....	5-27
The Help Authoring Template Commands.....	5-29
The File Menu.....	5-29
The Edit Menu.....	5-30
The View Menu.....	5-30
The Insert Menu.....	5-31
Creating New Help Topic Files.....	5-31
Opening Existing Help Topic Files.....	5-33
Adding New Topics.....	5-33
Editing Topic Information.....	5-34
Adding Jumps and Pop-Up Windows to Help Topics.....	5-35
Adding Macro Hot Spots to Help Topics.....	5-36
Editing Hot-Spot Information.....	5-37
Adding Graphics to Help Topics.....	5-39
Editing Graphic Information.....	5-39
Saving Topic Files.....	5-40
Displaying Topics in Windows Help.....	5-41
Help Authoring Template Keys.....	5-41

Chapter 6: Creating Topics

What Are Topics?.....	6-1
Getting Started.....	6-2
Choosing a Text Editor.....	6-2
Making a Help Directory.....	6-3
Creating New Topics.....	6-3
Dividing the Text into Topics.....	6-4
Identifying Topics.....	6-4
Editing Topics.....	6-5
Understanding Topic Footnotes.....	6-6
Assigning Context Strings.....	6-7
Inserting Context-String Footnotes as Topic Identifiers.....	6-7
Inserting Spot References.....	6-8
Context String Guidelines.....	6-9
Inserting Topic Titles.....	6-9
Topic Title Guidelines.....	6-10

Assigning Keywords.....	6-11
How Keywords Work in Windows Help.....	6-11
Defining Keywords for a Topic.....	6-12
Placing Keywords in the Topic.....	6-12
Creating Multiple Keyword Indexes.....	6-13
Keyword Guidelines.....	6-15
Specifying Topic-Entry Macros.....	6-15
How Entry Macros Work.....	6-16
Inserting Macro Footnotes.....	6-16
Entry Macro Guidelines.....	6-17
Specifying Browse Sequences.....	6-17
How Browse Sequences Work.....	6-18
A Single Browse Sequence.....	6-18
Multiple Browse Sequences.....	6-18
Sorting Order.....	6-19
Assigning Browse Sequence Footnotes.....	6-20
Assigning Build Tags.....	6-20
How Build Tags Work.....	6-21
Assigning Build Tag Footnotes.....	6-21
Build Tag Guidelines.....	6-22
Inserting Topic Comments.....	6-22
Comment Guidelines.....	6-23

Chapter 7: Formatting Topics

- Understanding Help Formatting.....7-1
 - Character Formatting.....7-1
 - Fonts.....7-2
 - Special Fonts.....7-3
 - Special Characters.....7-3
 - Bold text.....7-4
 - Italic text.....7-4
 - Small Caps.....7-4
 - Colored text.....7-5
 - Unsupported Character Formatting.....7-5
 - Using Strikethrough Text in Word for Windows.....7-6
 - Inserting Superscript and Subscript Characters.....7-6
 - Paragraph Formatting.....7-6
 - Alignment.....7-7
 - Indents.....7-7
 - Paragraph Spacing.....7-8
 - Line Spacing.....7-9
 - Tabs.....7-9
 - Using Paragraph Borders.....7-10
 - Disabling Word Wrapping in Paragraphs.....7-11
 - Unwanted Line Breaks.....7-11
 - Table Formatting.....7-12

Creating Tables.....	7-13
Creating Fixed-Width Tables.....	7-13
Creating Relative Tables.....	7-13
Setting the Minimum Width.....	7-14
Adjusting the Table Columns.....	7-15
Creating Tables Without Using Word’s Table Feature.....	7-15
Hanging Indent Tables.....	7-15
Side-By-Side Paragraphs.....	7-17
Manually Formatted Tables.....	7-17

Chapter 8: Creating Links and Hot Spots

Linking Topics Using Jumps.....	8-1
Creating Tables of Contents.....	8-2
Using Jumps to Reference Related Information.....	8-3
Jump Destinations.....	8-3
Defining Mid-Topic Jump Destinations.....	8-3
Using Jump Macros.....	8-4
Activating Jumps.....	8-4
Entry Macros.....	8-4
Using Entry Macros to Create Automatic Jumps.....	8-4
Creating Hot Spots.....	8-5
How Jump Hot Spots Appear in Help.....	8-5
Text Hot Spots.....	8-6
Bitmap Hot Spots.....	8-6
Hypergraphic Hot Spots.....	8-6
Types of Hot Spots.....	8-7
Special Hot-Spot Characters.....	8-7

Inserting Standard Jump Hot Spots.....	8-8
Jump Hot Spot Guidelines.....	8-8
Creating Links Between Help Files.....	8-9
How Interfile Jump Hot Spots Appear in Help.....	8-9
Creating Standard Interfile Jump Hot Spots.....	8-9
How Windows Help Locates Help Files.....	8-10
Creating a WINHELP.INI File for Search Paths.....	8-11
Example.....	8-11
Creating Links to Version 3.0 Help Files.....	8-12
Interfile Jump Hot Spot Guidelines.....	8-13
Creating Pop-Up Hot Spots.....	8-13
How Pop-Up Hot Spots Appear in Help.....	8-13
Creating Standard Pop-Up Hot Spots.....	8-14
Pop-Up Hot Spot Guidelines.....	8-15
Creating Macro Hot Spots.....	8-15
How Macro Hot Spots Appear in Help.....	8-16
Creating Standard Macro Hot Spots.....	8-16
Macro Hot Spot Guidelines.....	8-17
Creating Links to Online Tutorials.....	8-18
Creating the Hot Spots.....	8-18
Tutorials on Windows Help.....	8-19
Changing the Standard Appearance of Hot Spots.....	8-19
Creating Invisible Hot Spots.....	8-20
Creating Underlined Hot Spots Without Color.....	8-20
Creating Hot Spots with Custom Colors.....	8-21
Issues to Consider Before Changing Hot Spot Colors.....	8-21
The Windows Color Palette.....	8-22

Conflicts with the User's Screen Colors.....	8-22
Problems with Color on Different Displays.....	8-22
Problems with Assigning Meaning to Color.....	8-23
Overriding Custom Hot Spot Colors.....	8-23
Creating Custom Hot Spots.....	8-23

Chapter 9: Defining Topic Windows

About Help Windows.....	9-1
The Main Help Window.....	9-2
Window Name.....	9-3
Caption.....	9-3
X-Coord and Y-Coord.....	9-3
Width and Height.....	9-4
Window State.....	9-4
Scrolling and Nonscrolling Region Background Colors.....	9-4
The Windows Help Coordinate System.....	9-5
Secondary Windows.....	9-6
How Secondary Windows Work.....	9-7
Limitations.....	9-7
Creating a Secondary Window.....	9-8

Defining Secondary Window Attributes.....	9-9
Window Name.....	9-10
Caption.....	9-10
X-Coord and Y-Coord.....	9-10
Width and Height.....	9-10
Window State.....	9-11
Scrolling and Nonscrolling Region Background Colors.....	9-11
On Top State.....	9-11
Creating Jumps to Secondary Windows.....	9-12
Creating Standard Jumps to Secondary Windows.....	9-12
Creating Jumps to the Main Help Window.....	9-12
Creating Interfile Jumps to Secondary Windows.....	9-14
Closing Secondary Windows.....	9-14
Defining Nonscrolling Regions.....	9-15
How the Nonscrolling Region Works.....	9-16
Creating a Nonscrolling Region.....	9-17
Setting the Background Color.....	9-17
Pop-Up Windows.....	9-18
How Pop-Up Windows Work.....	9-19
Creating a Pop-Up Window.....	9-20
Creating Pop-Up Topics.....	9-20
Creating Pop-Up Window Hot Spots.....	9-20

Embedded Windows.....	9-21
How Embedded Windows Work in Help.....	9-21
Creating an Embedded Window.....	9-22
Positioning Embedded Windows.....	9-23
Character-Aligned Embedded Windows (ewc).....	9-24
Left- and Right-Justified Embedded Windows (ewl, ewr).....	9-24
Left and Right Margins.....	9-25
Vertical Positioning.....	9-26
Using Tables to Position Embedded Windows.....	9-27
How Help Locates .DLLs.....	9-28

Chapter 10: Adding Graphics

Creating Pictures.....	10-1
Sources.....	10-1
Picture Quality.....	10-2
Tools and Methods.....	10-2
Picture Formats.....	10-3
Creating Bitmaps from Screen Shots.....	10-4
Creating Pictures from Scratch.....	10-5
Creating Realistic 3D Graphics.....	10-6
Creating Pictures from Scanned Images.....	10-7
Creating Bitmaps with a Digitizing Tablet.....	10-7

Creating Pictures on the Macintosh.....	10-8
Importing Art from Macintosh Graphics Applications.....	10-8
Some Conversion Issues.....	10-8
Using Batch Files to Control the Conversion Process.....	10-9
Importing Art From Microsoft Word for the Macintosh.....	10-12
Preparing Pictures for Different Displays.....	10-13
Placing Graphics in Topic Files.....	10-14
Placing Pictures Directly in the Topic File.....	10-14
Placing Bitmaps in Word for Windows.....	10-15
Importing Bitmaps into Word for Windows.....	10-15
Selecting Inline Bitmaps with the Mouse.....	10-16
Sizing Pasted-In Bitmaps.....	10-16
Formatting Inline Bitmaps as Hot Spots.....	10-16
Placing Bitmaps by Reference in the Topic File.....	10-17
Including Bitmaps by Reference.....	10-18
Positioning Character-Aligned Bitmaps (bmc).....	10-18
Positioning Left-Aligned Bitmaps (bml).....	10-19
Positioning Right-Aligned Bitmaps (bmr).....	10-20
Storing Bitmaps with Data.....	10-21
Benefits.....	10-21
Limitations.....	10-21
Guidelines.....	10-22

Creating Bitmap Hot Spots.....	10-23
Assigning Bitmap Locations in the Help Project File.....	10-25

Chapter 11: Creating Hypergraphics

What Are Hypergraphics?.....	11-1
Hotspot Editor.....	11-2
Starting Hotspot Editor.....	11-3
Importing Image Files.....	11-4
Hotspot Editor Window.....	11-4
Hotspot Editor Menus.....	11-4
The File Menu.....	11-5
The Edit Menu.....	11-5
The Window Menu.....	11-6
The Help Menu.....	11-6
Opening Image Files.....	11-7
Opening New Files.....	11-7
Opening Previously Edited Files.....	11-8
Adding Hot Spots to Images.....	11-8
Drawing Hot Spots.....	11-8
Creating a Tabbing Order.....	11-9
Viewing the Tabbing Order.....	11-9
Changing the Tabbing Order.....	11-9
Defining Hot-Spot Attributes.....	11-10
Setting Preferences.....	11-12

Editing Hot Spots.....	11-13
Selecting Hot Spots.....	11-13
Deleting Hot Spots.....	11-14
Cutting or Copying Hot Spots.....	11-14
Pasting Hot Spots.....	11-15
Moving Hot Spots.....	11-15
Resizing Hot Spots.....	11-15
Saving the Hypergraphic.....	11-16
Editing and Replacing Images.....	11-16
Preparing Hypergraphics for Different Displays.....	11-17
Saving Resolution Information.....	11-17
Creating Hypergraphics Without Hotspot Editor.....	11-18

Chapter 12: Creating Graphics for Different Displays

How Help Displays Images.....	12-1
Multi-Resolution Bitmap Compiler.....	12-2
Including .MRB Files in a Help File.....	12-2
Using MRBC.....	12-3
MRBC Preprocessing Checks.....	12-3
Starting the Conversion Process.....	12-4
Compressing MRB Files.....	12-5
MRBC Error Messages.....	12-6
Preprocessing Errors.....	12-6
Run-time Errors.....	12-7
Run-time Warnings.....	12-7

Chapter 13: Customizing the Help File

Defining Menus and Buttons.....	13-1
---------------------------------	------

Menu and Button Macros.....	13-2
Properties of Menu Items and Buttons.....	13-2
Suggested Uses for Menu Items and Buttons.....	13-3
Defining Menus.....	13-3
Using the Standard Menus.....	13-4
Adding Menus.....	13-5
Adding and Removing Menu Items.....	13-6
Adding Menu Items.....	13-6
Inserting Items.....	13-6
Appending Items.....	13-7
Removing Menu Items.....	13-7
Disabling and Enabling Menu Items.....	13-7
Checking and Unchecking Menu Items.....	13-8
Changing the Menu Item's Function.....	13-8
Defining Buttons.....	13-9
Using the Standard Buttons.....	13-9
How Help Disables Standard Buttons.....	13-10
Adding and Removing Buttons.....	13-10
Creating Buttons.....	13-10
Removing Buttons.....	13-11
Disabling and Enabling Buttons.....	13-11
Changing the Function of Buttons.....	13-11

Defining Accelerator Keys.....	13-12
Running Applications from Help.....	13-12
Creating a Custom Window Title.....	13-13
Creating a Custom Icon for Your Help File.....	13-14
Creating a Custom How To Use Help File.....	13-14
Creating the File.....	13-15
Source Files.....	13-15
Customizing the Help Menu.....	13-16
Adding Additional Items to the Help Menu.....	13-17
Adding a Custom Help Icon.....	13-17

Chapter 14: Help Macros

What Are Help Macros?.....	14-1
Executing Help Macros.....	14-2
Executing Macros when Opening a Help File.....	14-2
Executing Macros from a Topic Footnote.....	14-3
Executing Macros from a Menu Item or Button.....	14-4
Executing Macros from a Hot Spot.....	14-4
Executing Macros in a WinHelp Function Call.....	14-5
Constructing Help Macros.....	14-6
Macro Guidelines.....	14-6
Macro Syntax.....	14-6
Using String Parameters.....	14-7

Nested Macros and Nested String Parameters.....	14-8
Some Incorrect Examples.....	14-9
Some Complex Examples.....	14-9
Using Special Characters in Strings.....	14-9
Using Numeric Parameters.....	14-10
Making Arbitrary DLL Calls in Help Macros.....	14-11
Return Values in Help Macros.....	14-11
Macro Error Checking.....	14-12
Using DLL Calls as Help Macros.....	14-12
Using DLLs in Help.....	14-13
Registering DLL Routines.....	14-13
How Help Locates .DLL and .EXE Files.....	14-14
Windows Help Internal Variables.....	14-15
Macro Quick Reference.....	14-16
Button Macros.....	14-16
Menu Macros.....	14-17
Linking Macros.....	14-18
Window Macros.....	14-18
Keyboard Macros.....	14-18
Auxiliary Macros.....	14-18
Text-Marker Macros.....	14-19

Chapter 15: Help Macro Reference

Macro Reference.....	15-1
----------------------	------

Chapter 16: Help Project File

Help Project File Sections.....	16-1
Project-File Features.....	16-2
Sample Help Project File.....	16-3
Help Project File Reference.....	16-4

Chapter 17: Building the Help File

The Windows Help Compiler.....	17-1
Choosing the Correct Version for your Help File.....	17-1
Building a Help File.....	17-2
Building Large Help Files.....	17-3
Getting Around Memory Problems.....	17-3
Speeding Up the Build.....	17-5
Compiling a 3.0 Help File Under 3.1 Help.....	17-6
Performing Simultaneous Builds.....	17-6
Building Identical Help Files.....	17-7
Building Files Saved in Word for the Macintosh version 4.00.....	17-7
Building Help Projects with Multiple Files.....	17-8
Setting Up the Project Directories.....	17-8
Creating Help Project Files for Each Help file.....	17-9
Building the Individual Help files.....	17-10
Creating a Batch File.....	17-10

Debugging the Help File.....	17-11
Displaying Error Messages on the Screen.....	17-12
Warning Message Reporting.....	17-12
Redirecting Errors to a File.....	17-13
Testing the Built Help File.....	17-13
Using the Keyboard Debug Option.....	17-14

Chapter 18: Help Error Messages

Help Compiler 3.1 Error Messages.....	18-1
The Error Message File.....	18-1
Interpreting Error Messages.....	18-2
Error Message Categories.....	18-3
Error Message Reference.....	18-3
File Errors.....	18-4
Project-File Errors.....	18-6
Syntax Errors.....	18-7
General Section Errors.....	18-9
[ALIAS] or [MAP] Section Errors.....	18-10
[WINDOWS] Section Errors.....	18-11
[OPTIONS] Section Errors.....	18-14
ROOT Option Errors.....	18-14
MAPFONTSIZE Option Errors.....	18-15
FORCEFONT Option Errors.....	18-15
MULTIKEY Option Errors.....	18-16
Other [OPTIONS] Errors.....	18-17

Build Tag or Build Expression Errors.....	18-19
Macro Errors.....	18-21
Context String Errors.....	18-23
Footnote Errors.....	18-26
Browse Sequence Errors.....	18-26
Topic Title Errors.....	18-27
Keyword Errors.....	18-27
Build Tag Errors.....	18-28
Entry Macro Errors.....	18-29
Topic File Errors.....	18-29
Miscellaneous Errors.....	18-32
Help Compiler 3.0 Error Messages.....	18-34
Interpreting Help 3.0 Error Messages.....	18-34
Help 3.0 Error Message Categories.....	18-35
Help 3.0 Error Message Reference.....	18-35
Project File Error Messages.....	18-35
RTF Topic File Error Messages.....	18-44

Chapter 19: The WinHelp API

The WinHelp Function.....	19-1
Using Help in a Windows Application.....	19-5
Choosing Help from the Help Menu.....	19-6
Defining More Than One Help Contents.....	19-7
Choosing Help with the Keyboard.....	19-8
Choosing Help with the Mouse.....	19-11
Searching for Help with Keywords.....	19-13
Displaying Help in a Secondary Window.....	19-15

Canceling Help.....	19-16
---------------------	-------

Chapter 20: Writing DLLs for Windows Help

Creating Custom Help Macros.....	20-2
Registering DLL Functions as Help Macros.....	20-2
How Help Locates DLLs.....	20-4
Windows Help Internal Variables.....	20-5
List of Variables.....	20-5
Error Handling.....	20-6
fwFlags.....	20-6
wError.....	20-6
rgchError.....	20-7
Notifying DLLs of Windows Help Events.....	20-7
DC_INITTERM Flag.....	20-9
DW_INIT.....	20-9
DW_TERM.....	20-9
DC_MINMAX Flag.....	20-9
DW_MINMAX.....	20-9
DW_SIZE.....	20-10
DC_JUMP Flag.....	20-10
DW_STARTJUMP.....	20-10
DW_ENDJUMP.....	20-10
DW_CHGFILE.....	20-11

DC_ACTIVATE Flag.....	20-11
DW_ACTIVATE.....	20-11
Calling Windows Help Internal Functions.....	20-11
Sample Code.....	20-12
Accessing Windows Help Functions (DW_CALLBACKS).....	20-13
Copying Files from the .HLP File System.....	20-14
Getting a Handle to the .HLP File System.....	20-15
Verifying the .HLP File.....	20-15
Copying the Baggage File.....	20-16
Writing DLLs for Embedded Windows.....	20-17
Creating Embedded Windows.....	20-18
How Embedded Windows Work in Help.....	20-18
Initialization.....	20-19
Embedded Window Behavior.....	20-20
Message Processing for Embedded Windows.....	20-21
EWM_RENDER.....	20-21
EWM_QUERYSIZE.....	20-22
EWM_ASKPALETTE.....	20-22
Sample Embedded Window DLL.....	20-22
Functions.....	20-23
Initialization (WM_CREATE).....	20-23
Painting (WM_PAINT).....	20-24

Obtaining Rendering Information (EWM_RENDER).....	20-24
CF_BITMAP.....	20-24
CF_TEXT.....	20-27
Obtaining the Window Size (EWM_QUERYSIZE).....	20-28

Appendix A: Windows Virtual-Key Codes

Appendix B: Help RTF Statements

Rich-Text Format.....	B-1
Elements of RTF.....	B-2
RTF Statements.....	B-2
Delimiters.....	B-3

Control Symbols.....	B-3
Groups.....	B-3
Destinations.....	B-4
Unformatted Text.....	B-4
RTF Semantics.....	B-4
Acting on Control Information.....	B-5
Acting on Symbol Table Entries.....	B-6
The RTF File.....	B-6
Sample RTF File.....	B-6
Required Entries.....	B-7
Font Table.....	B-7
Color Table.....	B-9
Style Sheet.....	B-10
Topic Information.....	B-11
Font and Formatting Information.....	B-12
Help-Specific Information.....	B-12
Help Features in Footnote Groups.....	B-12
Context Strings.....	B-13
Topic Titles.....	B-13
Browse Sequences.....	B-13
Keyword Entries.....	B-14
Help Macros Executed on Topic Entry.....	B-14
Build Tags.....	B-14
Comments.....	B-15
Help Features Embedded in Text.....	B-15
Layout Features.....	B-15
Hot Spots.....	B-15

Bitmaps.....	B-17
Embedded Windows.....	B-17
Topic End.....	B-18
Sample Topic.....	B-18
Overview of Help RTF Statement Support.....	B-19
Overloaded Statements.....	B-19
Character Set.....	B-20
Special Characters.....	B-20
Destinations.....	B-21
Document Formatting.....	B-22
Section Formatting.....	B-23
Paragraph Formatting.....	B-24
Character Formatting.....	B-26
Tables.....	B-26
Pictures.....	B-27
Absolute-Positioned Objects.....	B-28
Annotations.....	B-29
Headers and Footers.....	B-29
Document Information.....	B-29
Fields.....	B-30
Index Entries.....	B-31
Table of Contents Entries.....	B-31
Bookmarks.....	B-31
Help RTF Statement Reference.....	B-31

Appendix C: Baggage Access Functions

Function Calls.....	C-1
The Baggage Include File.....	C-2

