# How to Do *Everything* with

# Adole Encore DVD

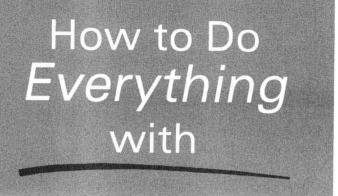
Create professional, high-quality DVDs

Properly prepare video, audio, and image assets

Create
eye-catching
menus,
submenus,
and buttons







# Adobe° Encore™ DVD



## Doug Sahlin

#### McGraw-Hill/Osborne

New York Chicago San Francisco Lisbon London Madrid Mexico City Milan New Delhi San Juan Seoul Singapore Sydney Toronto

#### The McGraw·Hill Companies

McGraw-Hill/Osborne 2100 Powell Street, 10th Floor Emeryville, California 94608 U.S.A.

To arrange bulk purchase discounts for sales promotions, premiums, or fund-raisers, please contact McGraw-Hill/Osborne at the above address. For information on translations or book distributors outside the U.S.A., please see the International Contact Information page immediately following the index of this book.

#### How to Do Everything with Adobe® Encore™ DVD

Copyright © 2004 by The McGraw-Hill Companies. All rights reserved. Printed in the United States of America. Except as permitted under the Copyright Act of 1976, no part of this publication may be reproduced or distributed in any form or by any means, or stored in a database or retrieval system, without the prior written permission of publisher, with the exception that the program listings may be entered, stored, and executed in a computer system, but they may not be reproduced for publication.

1234567890 CUS CUS 019876543

ISBN 0-07-223190-4

Publisher: Brandon A. Nordin

Vice President &

Associate Publisher Scott Rogers Megg Morin **Acquisitions Editor** Athena Honore **Acquisitions Coordinator** Jennifer Malnick **Project Editor Technical Editor** Joe Bowden Copy Editor Andrea Boucher Proofreader Marian Selig Indexer Claire Splan

Composition International Typesetting & Composition Illustrators International Typesetting & Composition

Series Design Mickey Galicia Tom Willis **Cover Illustration Cover Series Design** Dodie Shoemaker

This book was composed with Corel VENTURA™ Publisher.

Information has been obtained by McGraw-Hill/Osborne from sources believed to be reliable. However, because of the possibility of human or mechanical error by our sources, McGraw-Hill/Osborne, or others, McGraw-Hill/Osborne does not guarantee the accuracy, adequacy, or completeness of any information and is not responsible for any errors or omissions or the results obtained from the use of such information.

#### **About the Author**

**Doug Sahlin** is a graphic and web site designer living in Central Florida. He is the author of 12 books on computer graphics and web animation including *How To Do Everything with Macromedia Contribute* and *How To Do Everything with Adobe Acrobat 6.0*, which was recently ranked 22<sup>nd</sup> in Amazon's top 50 computer books. He has authored online Flash courses and presented on-location seminars.

Doug has also coauthored a book on digital video; he is an accomplished photographer, videographer, and video editor, skills that he uses to augment his clients' web sites, multimedia applications, and DVD presentations.

# Acknowledgments

An endeavor of this magnitude would not have been possible without a vast support team. Many thanks to all the fine folks at McGraw-Hill/Osborne, especially Acquisitions Editor Megg Morin for making this project possible. A bouquet of virtual tulips and a bowlful of chicken soup to Project Editor Jenny Malnick for keeping my inbox full and translating Yiddish terms of endearment. Special thanks to Acquisitions Coordinator Athena Honore for making sure the chapters and accompanying screenshots were forwarded to the right parties. Thanks to the talented and very blonde copyeditor Andrea Boucher for not having any brunette moments while polishing this text for public consumption.

Kudos to technical editor Joe Bowden, whose input and insightful comments helped keep this book on track. Thanks to the Adobe Encore DVD design team and Adobe Video Evangelist Daniel Brown. As always, thanks to the lovely and talented Margot Maley Hutchison for providing liaison between publisher and author. Many thanks to my friends and family for their support, with special thanks to Karen and Ted.

## Introduction

Adobe Encore DVD is a Windows application used to author DVDs. If you do not own a Windows computer, quietly put this book back on the shelf, as the application will not work on a Macintosh machine. But if you do own a Windows machine, by all means read on.

Adobe Encore DVD 1.0 is a brand-new application. But the name Adobe ensures you it's a rock-solid, well-thought-out application with the necessary tools and menu commands to author DVDs. If you use the application to its fullest, you'll create more than just garden-variety DVDs; you'll create compelling, eye-catching DVDs with features such as motion menus, animated buttons, subtitle tracks, alternate audio tracks, and much more. However, this degree of sophistication doesn't come without a learning curve.

That's where this book comes into play. How To Do Everything with Adobe Encore DVD is designed to help you get up and running quickly while getting the most from the application. The book will help users of all levels understand digital video and DVD authoring. In addition to finding a full-course serving of Adobe Encore DVD, you'll also find useful snippets of information on related topics such as shooting digital video for use with a DVD project, working with sound for DVD projects, replicating DVDs, and much more.

The information is presented in a logical progression starting with some necessary information about digital video and digital video formats as well as information about the DVD format and television broadcast standards. This preliminary information is followed with the information you need to author a DVD project with Adobe Encore DVD.

Each chapter builds on the previous, in the same progression that you'll use the various facets of the application to author DVD projects. The first chapters in the book show you how to organize your project, import assets, and create timelines,

and is followed by chapters that show you how to use the application and your creative talent to author state-of-the-art DVD discs. The information is presented with a minimum of technical jargon; where technical information is presented, it is condensed into easy-to-understand terms.

#### The Structure of This Book

This book is organized into the following parts:

#### Part I: Introducing Adobe Encore DVD

In the first part of this book, you'll find information on the DVD format, digital video, and television broadcast standards used in the Americas and the rest of the world. You'll also receive an introduction to Adobe Encore DVD as well as a glimpse at the steps you'll use to author a DVD disc. In addition, you'll find a chapter that delves into all facets of the Adobe Encore DVD workspace (Chapter 3) with additional information that shows you how to customize the workspace to suit your workflow.

#### Part II: Authoring a DVD

This part of the book gets into the nitty-gritty of authoring a DVD project. You'll learn how to create a new project and specify project settings for the part of the world in which your DVD will be viewed, and you'll learn how to work with and organize project assets. In addition, you'll find information on how to properly plan your DVD project to avoid any potential pitfalls when you're deep into a project. In this part you'll find an entire chapter (Chapter 6) devoted to creating timelines for your video and audio assets, as well as creating chapter points and poster frames for each part of your DVD disc.

#### Part III: Working with Menus and Buttons

When your DVD is loaded into a set-top DVD player, the only visible parts of your handiwork are the menus, buttons, and, of course, the video that is linked to each menu button. Even though you do devote a considerable amount of time to planning your project and working with assets, if your menus are not eye-catching, and they have buttons that don't function properly, your finished DVD will fall short of the mark. In this part of the book, you'll find everything you need to know about creating flawless menus that pique viewer interest. You'll also learn how to properly link buttons to video clips and other menus. If you want to create a DVD disc that stands out from the crowd, you'll find the chapter on motion menus (Chapter 10) essential.

#### Part IV: Advanced DVD Techniques

If you've explored the application prior to purchasing this book, you know that Adobe Encore DVD ships with an impressive array of menus and buttons. However, if you want to put your own stamp of originality on a project, you need to create a custom menu, a skill you'll learn in the chapter devoted to creating custom DVD menus in Adobe Photoshop (Chapter 11). If your DVD needs features such as subtitles and alternate audio tracks, you'll find a chapter devoted to each in this part of the book.

#### Part V: Creating the DVD Disc

The end result of any DVD project is creating a disc. In this part of the book you'll find out how to do this in Adobe Encore DVD. You'll learn how to burn a project to a DVD disc, create a DVD image, and create a DVD master. You'll also find a chapter devoted to preparing your project for output (Chapter 14), in which you'll find useful information to ensure your DVD projects are error free. Information on copy-protecting your DVD discs can also be found in this part of the book.

#### Appendix A: Create Your Own DVD: A Step-By-Step Tutorial

This appendix encapsulates each phase of creating a DVD project in a condensed format. It reinforces the material presented in each part of the book and serves as a quick reference guide on how to create a DVD from start to finish.

#### **Appendix B: Adobe Encore DVD Keyboard Shortcuts**

This appendix lists each Adobe Encore DVD keyboard shortcut you can use to streamline your workflow. If you prefer the convenience of keyboard shortcuts, this appendix is a must read.

#### **Appendix C: Internet DVD and Video Resources**

The Internet is a treasure trove of useful information on most any topic, and DVD is no different. However, finding *useful* web sites about a topic can often be a daunting task. This appendix separates the wheat from the chaff and lists some beneficial Internet resources for creating DVDs and working with digital video.

#### **Conventions Used In This Book**

Whenever you find instructions to use a menu command, you'll see the path to the command listed. For example, when you see instructions to import an asset, the path to the Adobe Encore DVD menu command is listed as follows: File | Import

#### **XXIV** How to Do Everything with Adobe Encore DVD

As Asset. When new terms are introduced, they are *italicized*. You will find a parenthetical reference for new terms, or a brief explanation. Whenever information on how to perform a detailed task is presented, it is listed in step-by-step format.

Throughout the book you'll find useful Tips that show you ways to streamline your workflow and Notes that alert you to certain issues or pitfalls to avoid. You'll find insights and interesting tidbits about related Adobe Encore DVD subjects in the Did You Know sidebars. You'll also find a generous helping of How to... sidebars, jam-packed with information on how to create elements for your Adobe Encore DVD projects.

#### Conclusion

This book is designed to be a desktop reference for creating DVDs with Adobe Encore DVD. You can read the book from cover to cover, or use the index to locate information pertaining to a specific task. I hope you find the information useful in your goal to get the most from Adobe Encore DVD and create state-of-the-art DVDs for yourself, your clients, or your organization.

# Contents at a Glance

PART I	Introducing Adobe Encore DVD	
1	About DVD and Digital Video	3
2	Get to Know Adobe Encore DVD	25
3	Explore the Adobe Encore DVD Workspace	41
PART II	Author a DVD	
4	Create a Project	71
5	Manage Project Assets	89
6	Work with Timelines	109
7	Transcode Project Assets	133
PART III	Work with Menus and Buttons	
8	Create and Edit Menus	151
9	Work with Submenus and Buttons	177
10	Create Motion Menus	213
PART IV	Advanced DVD Techniques	
11	Create Custom Menus in Adobe Photoshop	227
12	Advanced DVD Techniques	245
13	Add Subtitles to a DVD	257

## VIII How to Do Everything with Adobe Encore DVD

PART V	Create the DVD	
14	Prepare the Project for Output	281
15	Build the DVD	295
PART VI	Appendixes	
Α	Create Your Own DVD: A Step-By-Step Tutorial	313
В	Adobe Encore DVD Keyboard Shortcuts	329
С	Internet DVD and Video Resources	333
	Index	339

# **Contents**

	Acknowledgments Introduction	xix
PART I	Introducing Adobe Encore DVD	
CHAPTER 1	About DVD and Digital Video	3
	About Digital Video Formats	5
	Understand the MPEG-2 Format	5
	Understand the AVI Format	6
	About Codecs	7
	About Digital Audio Formats	11
	Understand the PCM Format	11
	About Dolby Digital Sound	11
	About MPEG Sound	12
	Choose the Proper DVD Media	12
	About DVD+ Discs	13
	About DVD+ RW Discs	14
	About DVD-R Discs	14
	About DVD-RW Discs	14
	About DVD-RAM Media	14
	Using Dual-Sided and Dual-Layer Media	14
	About CD-R Media	15
	Understand Television Broadcast Standards	16
	About NTSC	16
	About PAL	17
	Understand Aspect Ratios	17
	About Pixel Aspect Ratio	18
	About Backgrounds and Menus for Video Projects	18
	Understand DVD Terms	20
	About DVD Data Rate	20
	About DVD Menus	21
	About Chapter Points	21

### X How to Do Everything with Adobe Encore DVD

	About Poster Frames	22
	About Subpictures	22
	Work Within the Safe Title Area	22
	Summary	24
CHAPTER 2	Get to Know Adobe Encore DVD	25
	About Adobe Encore DVD	26
	Author DVD Discs	27
	Create a New Project	28
	Import Assets	28
	Create Timelines	32
	Transcode Assets	32
	Use Adobe Encore DVD Library Presets	33
	Use Adobe Encore DVD Menus and Submenus	33
	Create Menus with Library Presets	33
	Use Adobe Encore DVD Library Images	34
	Create Custom Menus and Assets in Adobe Photoshop	36
	Add Buttons to Menus	37
	Create Buttons in Adobe Photoshop	37
	Link Buttons	38
	Set Button, Menu, and Timeline Actions	38
	Preview the Project	38
	Build the Project	39
	Summary	40
CHAPTER 3	Explore the Adobe Encore DVD Workspace	41
	Introducing the Adobe Encore DVD Workspace	42
	Use the Project Window	42
	About the Project Tab	43
	About the Menus Tab	46
	About the Menu Editor Window	47
	About the Timelines Tab	47
	About the Disc Tab	48
	About the Properties Palette	49
	Use the Palette Window	50
	About the Library Palette	50
	About the Layers Palette	52
	About the Character Palette	54
	Use Adobe Encore DVD Menu Commands	55
	Use the Adobe Encore DVD Toolbar	56
	Set Adobe Encore DVD Preferences	57
	Set General Preferences	57
	Set Subtitle Preferences	59

	Set Menus Preferences	60
	Set Timelines Preferences	62
	Preview Preferences	63
	Set Encoding Preferences	64
	Set Mastering Preferences	65
	Customize the Adobe Encore DVD Workspace	66
	Use Shortcut Menus	68
	Summary	68
PART II	Author a DVD	
CHAPTER 4	Create a Project	71
	Plan Your Project	72
	DVD Checklist	73
	Preview the Project Assets	74
	Create a Project Storyboard	74
	Prepare Your Assets	75
	Capturing Video for DVDs	76
	Rendering Video and Audio for DVDs	77
	Calculate Data Rate for Video Assets	78
	Create a New Project	82
	Specify Disc Size	83
	Check Project Size with the Disc Tab	85
	Save the Project	86
	Open an Existing Project	87
	Summary	88
CHAPTER 5	Manage Project Assets	89
	Import Project Assets	90
	Import Audio, Video, and Image Assets	90
	Import Menu Assets	92
	Scale and Swap Image Assets	93
	Replace Assets	94
	Organize Assets with the Project Tab	95
	About Project Tab Columns	96
	View/Hide Project Assets	97
	Rename Project Assets and Items	98
	Sort Project Assets	99
	Preview Project Assets	99
	Organize Assets with Project Folders	101
	Create Project Folders	101
	Add Assets to Project Folders	101
	About Missing and Offline Files	102
	Locating Missing or Offline Files	103

## XII How to Do Everything with Adobe Encore DVD

	Work with Library Items Preview Library Presets View/Hide Library Items Import Items to the Library Add Assets from Projects to the Library Delete Library Items	103 103 104 105 106 107
	Summary	108
CHAPTER 6	Work with Timelines About Timelines Create Timelines	109 110 112
	Create a Blank Timeline Set Timeline as DVD First Play	112
	Explore the Timeline Window	114 115
	Add Audio Clips to a Timeline	116
	Remove an Audio Track from a Timeline	116
	Clear an Audio Track	116
	Navigate the Timeline	117
	Preview a Timeline	119
	About the Monitor Window	120
	View Timeline Properties	122
	Edit a Timeline	123
	Set Chapter Points	123
	Name Chapter Points	124
	Edit Chapter Points	126
	Set Poster Frames	127
	Trim Video and Audio Clips	128
	Edit Tracks and Clips	129
	Edit Timeline Graphics	129
	Modify Display Duration	130
	Modify Image Location on Timeline	130
	Copy and Paste Images	131
	Summary	132
CHAPTER 7	Transcode Project Assets	133
	What Is Transcoding?	134
	When to Transcode	135
	Transcode Project Assets	136
	About CBR Encoding	136
	About VBR Encoding	137
	About the Project Tab Transcode Settings Column	137
	Transcode with Automatic Settings	138
	Transcode with Preset Settings	139

	Revert to Original File  Modify Transcode Presets  Understand Transcode Settings  Create a Custom Transcode Setting  Delete a Custom Transcode Setting  Delete All Custom Transcode Settings  Summary	141 141 141 144 146 148
PART III	Work with Menus and Buttons	
CHAPTER 8	Create and Edit Menus About DVD Menus Create the Main Menu Use Library Menu Assets Create a New Menu Change the Default Menu Use the Menus Tab Use the Menu Editor Window Set Menu Properties Name the Menu Set Menu Display Duration Set Menu as DVD First Play Import a PSD File as a Menu Edit Menus in Adobe Photoshop Edit Menus in Adobe Encore DVD Edit Layers Modify a Preset Menu Use a Blank Menu Duplicate a Menu Save a Custom Menu Add Text Objects to Menus Use the Text Tools Use the Character Palette Select and Edit Text Add a Drop Shadow to Objects Summary	151 152 153 154 155 155 155 156 158 159 160 161 163 164 165 165 166 167 168 168 168 169 170 174 174
CHAPTER 9	Work with Submenus and Buttons  Add Submenus to a Project  Add Buttons to Menus and Submenus  Working with Menu Objects  Add Project Assets to Menus	177 178 180 180

## **XIV** How to Do Everything with Adobe Encore DVD

	Use the Direct Select Tool	182
	Use the Zoom Tool	183
	Modify Menu Objects	183
	Scale Objects	184
	Duplicate Objects	184
	Delete Objects	185
	Arrange Objects	185
	Align Objects	186
	Distribute Objects	187
	Rotate and Mirror Objects	188
	Convert Objects to Buttons	189
	Add Text Subpictures	189
	Create a Menu Template	190
	Duplicate Menus	190
	Create Menu and Button Links	190
	Create Menu Links	191
	Link Menu Buttons to Chapter Points	192
	Link Timelines to Menus	193
	Create Menu Links to Timelines	
	with Multiple Chapter Points	193
	Set Default Library Button	195
	Set Default Menu Button	195
	Renumber Buttons	196
	Set Button to Auto Activate	197
	Set Video Timeline End Action	198
	Set Override Action	198
	Set Remote Title Button Link	199
	Set Remote Menu Button Link	200
	Preview a Menu	200
	Edit Menu Links	201
	Set Remote Control Button Routing	202
	View Default Button Routing	202
	Manually Set Button Routing	202
	About Menu Color Sets	204
	Define Menu Color Set	204
	Understand the Default Menu Color Set	206
	Specify Menu Color Set and Button Highlight Group	207
	Import and Export Color Sets	209
	Summary	211
CHAPTER 40	Court Matie Manager	010
CHAPTER 10	Create Motion Menus	213
	Create Video for Motion Menus	214
	Import a Motion Menu Video	216