

Table of Contents

Introduction	vii
Integrating After Effects into a variety of workflows.	
How to Use This Book	viii
How this book is organized, typographical conventions, and what the icons mean.	
CD Roadmap	1
The enclosed CD is an essential companion for getting the most out of this book, including projects for most of the chapters, free plug-ins, and other goodies.	

PART Type, Draw, Paint



1 All About Alphas	2
Alpha channels are fundamental to how After Effects handles images. We'll explain the different types of alphas, how to create them, and how to manage them.	
2 Working with Photoshop	22
A crash course on integrating this standard paint program with After Effects, including managing transparency and getting the most out of layered Photoshop files.	
2B Dots, Pixels, and Inches <i>(Bonus Chapter PDF on CD)</i>	
Scanning artwork at the correct sizes to use in After Effects.	
3 Working with Illustrator	36
The basics on working in and using files from this Adobe vector-based art program, employed by many for logo and type creation. Includes the oft-misunderstood concept of Continuous Rasterization.	
4 Plugging In Type	50
Effect plug-ins that create numbers and text, including the powerful Path Text. Also includes important tips and hints for good typesetting plus a round-up of third party effects that excel at manipulating type.	
5 Vector Paint	62
This paint and rotoscoping plug-in is a miniprogram unto itself. We explain its nonstandard user interface and demonstrate ways to use it in production.	

PART Animation Assistants



- 6 Additional Assistants** 72
A set of useful Production Bundle utilities that automatically create and massage keyframe information, including Exponential Scale, The Wiggler, and Smart Mask Interpolation.
- 6B Motion Fun** (*Bonus Chapter PDF on CD*)
Exploring Motion Math, including using and modifying the stock scripts.
- 7 Express Yourself** 84
One of the most powerful (and intimidating) features of After Effects is Expressions – the ability to have virtually any parameter do tricks ranging from simply copying another layer’s values to performing intricate dances.
- 7B Deeper Modes of Expression** (*Bonus Chapter PDF on CD*)
Diving deeper into the expression language, including looping, interpolation, color manipulation, and advanced math functions.

PART More on Effects



- 8 Production Bundle Effects Round-Up** 112
Tips and tricks for our favorite effects that come with the Production Bundle, plus the Registration Incentive and Power Pack sets. Also includes sidebars on Zaxwerks 3D Invigorator and 16 bit per channel mode.
- 9 Compound Effects** 132
Compound effects can affect one layer based on the properties of another – with some limitations. An exploration of the Compound Blur, Texturize, and Displacement Map effects.
- 10 The Blue Riders** 142
Color keying and matte edge tools, with a focus on using the Production Bundle’s powerful Color Difference and Inner Outer keyers. Includes production tips for shooting and compositing.

PART Working with Audio



- 11 Audio Basics** 162
The basics of working with audio, including spotting hit points in music and dialog for animation, mixing, and editing sound.
- 12 Audio Effects** 170
Tips for using the Standard and Production Bundle audio effects.

PART Time and Tracking



- 13 Time Remapping** **178**
Vary the playback speed of a layer over time, with keyframes and velocity control.
- 14 Time Games** **190**
A survey of time-manipulating effects, including Posterize Time, Echo, Time Difference, and Time Displacement.
- 15 On Stable Ground** **200**
Mastering the Motion Stabilizer, for correcting wobbly footage.
- 16 Motion Tracking** **212**
How one object can track or be corner-pinned to features of another layer.

PART NLE, 3D, and Web Integration



- 17 Integration 101** **222**
An overview of managing the workflow between After Effects and other common production tools.
- 18 Integration with Nonlinear Editing Systems** **226**
The ins and outs of importing projects from popular nonlinear editing systems such as the Avid, Apple Final Cut Pro, Media 100, and Adobe Premiere.
- 19 Integration with 3D Applications** **236**
Importing project data from 3D applications including Maya, 3ds max, Electric Image, Cinema 4D XL, LightWave, and Softimage|XSI for camera matching and placing 2D layers into 3D scenes. Also includes working with RLA and RPF files, including camera data, Z-depth, and object IDs.
- 20 Integration with Web Applications** **274**
Importing and rendering to Web-centric file formats such as GIF, PNG, and SWF. Includes tips for working with Macromedia Flash MX and Adobe LiveMotion.

PART Format Issues and Rendering



- 21 Video Issues** **282**
An overview on the special considerations you need to make when you're creating content for video, such as safe areas and colors. Includes previewing to video.
- 22 Playing the Field** **294**
Issues surrounding interlaced footage, field rendering, and minimizing flicker. Includes checking the field order of your hardware and fixing wrong field orders.

23	3:2 Pulldown	310
	Extracting the original source frames after film is transferred to NTSC video, and rendering film footage to video.	
24	Luminance and IRE Issues	316
	How to manage the different hardware and software luminance range definitions in video.	
25	Working with D1/DV NTSC	328
	Issues specific to working with D1 or DV size frames inside the 525-line NTSC video standard, focusing on nonsquare pixels.	
26	Working with D1/DV PAL	336
	Issues specific to working with D1 and DV size frames inside the 625-line PAL video standard, focusing on nonsquare pixels.	
27	Working with Widescreen	342
	The various approaches that can be taken to create widescreen aspect video, including letterboxing, anamorphic, and high definition.	
28	Working at Film Resolution	354
	Frame sizes, safe areas and workflow considerations for working in film, including working practices for Cineon format files.	
29	Prerendering and Proxies	372
	Work more efficiently by prerendering elements and creating Comp Proxies.	
30	Advanced Rendering	378
	Managing projects using Collect Files and other tools, plus Network Rendering.	
31	What's Your Preference?	384
	An explanation of the various program preferences, including our own preferred settings.	
31B	The Secret Preferences (<i>Bonus Chapter PDF on CD</i>)	
	Editing the After Effects text-based preference file.	

The Road Home



Bonus CD Tutorials Overview

A number of tutorial projects are also included on this book's CD. See summary on page 390.

Afterword: CoSA Lives (*Bonus Chapter PDF on CD*)

David Simons – one of the original creators of After Effects – takes us back in time to learn how this program we love came into being.