Adobe After Effects

2024 Release



Classroom in a Book[®]

The official training workbook from Adobe

Brie Gyncild & Lisa Fridsma

CONTENTS

WHERE ARE TH	IE LESSON FILES?	iii
GETTING STAR	TED	1
	About Classroom in a Book	1
	Prerequisites	2
	Installing After Effects, Bridge, and Media Encoder	2
	Activating fonts	2
	Optimizing performance	3
	Restoring default preferences	3
	Online content	4
	How to use these lessons	6
	Additional resources	6
	Adobe Authorized Training Centers	7
1 GETTING T	O KNOW THE WORKFLOW	8
	About the After Effects work area	. 10
197	Getting started	. 11
on the same	Creating a project and importing footage	. 11
	Creating a composition and arranging layers	. 15
	About layers	. 17
0	Adding effects and modifying layer properties	. 18
Ci	Animating the composition	. 22
	About the Tools panel	. 24
	About timecode and duration	. 26
	About the Timeline panel	. 27
	Previewing your work	. 30
	Using the Properties panel	. 30
	Optimizing performance in After Effects	. 33
	Rendering and exporting your composition	. 33
	Customizing workspaces	. 33
	Controlling the brightness of the user interface	. 35
	Collaborating in After Effects	. 36
	Finding resources for using After Effects	. 36
	Review questions and answers	. 37

2	CREATING A	A BASIC ANIMATION USING EFFECTS AND PRESETS	38
	EXPLORE HAWAII	Getting started	40
-		Creating a new composition	40
Pro-		Working with imported Illustrator layers	43
		Applying effects to a layer	
		Applying and controlling effects	
		Applying an animation preset	
		Precomposing layers for a new animation	
		Previewing the effects	50
		Adding transparency	51
		Rendering the composition	52
		Review questions and answers	55
3	ANIMATING	STEXT	56
6	real Terms	Getting started	58
Sr	ISLA MUJERES	About text layers	60
(and the second	Installing a font using Adobe Fonts	60
	ALL Provident Laborations Data	Creating and formatting point text	63
		Animating with scale keyframes	65
		Using a text animation preset	67
		About Adobe Bridge	69
		Animating imported Photoshop text	71
		Animating type tracking	75
		Animating text opacity	77
		Animating an image to replace text	77
		Using a text animator group	80
		About text animator groups	81
		Animating a layer's position	83
		Adding motion blur	85
		Review questions and answers	87
4	WORKING V	VITH SHAPE LAYERS	88
	1287	Getting started	90
🗨 🌟 🔪 Creating the composition	Creating the composition	90	
-		Adding a shape layer	91
		Creating a self-animating shape	93
		Duplicating a shape	95

Creating custom shapes with the Pen tool	98
Positioning layers with snapping1	00
Animating a shape1	02
Animating using parenting1	06
Using nulls to connect points1	10
About parent and child layers1	10
Previewing the composition1	13
Animating layers to match audio1	14
Review questions and answers1	15

5 ANIMATING A MULTIMEDIA PRESENTATION

116

146



1	Getting started	118
	Using Creative Cloud Libraries in After Effects	119
	Adjusting anchor points	121
	Parenting layers	123
	Precomposing layers	125
	Keyframing a motion path	127
	Animating additional elements	131
	Applying an effect	135
	About solid-color layers	136
	Animating precomposed layers	139
	Animating the background	141
	Supported audio file formats	142
	Adding an audio track	143
C	Editing audio files in Adobe Audition	144
	Review questions and answers	145

6 ANIMATING LAYERS



Getting started	148
Preparing layered Photoshop files	150
Simulating lighting changes	151
Duplicating an animation using the pick whip	.153
About Photoshop layer styles	.155
Using a track matte to confine animation	156
About expressions	156
About track mattes and traveling mattes	.159

	Animating using the Corner Pin effect	161
	Simulating a darkening sky	
	Viewing render times for layers	167
	Retiming the composition	168
	Review questions and answers	179
7 WORKI	NG WITH MASKS	180
	About masks	
105	Getting started	
	Creating a mask with the Pen tool	184
	Tips for creating masks	184
	Editing a mask	
	About mask modes	
	Feathering the edges of a mask	
	Replacing the content of the mask	
	Creating a Bezier mask	
	Zooming and panning by touch	
	Adjusting the opacity	191
	Adding a shadow	
	Creating a vignette	
	Using the Rectangle and Ellipse tools	
	Review questions and answers	
8 DISTOR	RTING OBJECTS WITH THE PUPPET TOOLS	200
00	Getting started	



Getting started202
About the Puppet tools
Adding Position pins208
Adding Advanced and Bend pins210
Defining areas of overlap212
Stiffening an area213
Squash and stretch213
Animating pin positions214
Using the Puppet tools to animate video215
Recording animation216
Extra credit
Review questions and answers219

9 USING THE ROTO BRUSH TOOL



About rotoscoping	222
Getting started	222
Creating a segmentation boundary	224
Editing Adobe Premiere Pro clips with After Effects	227
Fine-tuning the matte	231
Refine Soft Matte and Refine Hard Matte effects	232
Freezing your Roto Brush tool results	234
Changing the background	235
Adding animated text	238
Outputting your project	241
Extra credit	243
Review questions and answers	245

10 ADJUSTING COLOR AND MOOD



	Getting started	248
	Previewing your project on a video monitor	250
S	Detecting scenes in a composition	251
	Making color enhancements	252
	Adding a colorized effect	255
	Replacing a background	257
	Color-correcting using Auto Contrast	261
	Cloning an object in a scene	261
	Darkening a scene	265
7	Freezing the action	270
	Adding transitions	274
1	Review questions and answers	277

11 CREATING MOTION GRAPHICS TEMPLATES



Getting started	280
Preparing a master composition	281
Setting up a template	286
Adding properties to the Essential Graphics panel	287
Protecting the timing of a section	291
Exporting the template	292
Creating essential properties	294
Extra credit	295
Review questions and answers	297

278

12 USING 3D FEATURES



Getting started	
Creating a 3D shape in After Effects	
Viewing the 3D ground plane	
Using the 3D Transform Gizmo	
Importing 3D objects	
About importing 3D objects	
Creating 3D text	
Converting 2D objects to 3D	
Using 3D views	
Using the camera tools	
Adding a background	
Lighting a scene	
Adding a camera	
Using HDR images as lights	
Animating objects in a 3D scene	
Animating a camera	320
3D channel effects	321
Working with Cinema 4D Lite	322
Review questions and answers	

13 WORKING WITH THE 3D CAMERA TRACKER



About the 3D Camera Tracker effect
Getting started
Tracking the footage
Repairing rolling shutter distortions
Creating a ground plane, a camera, and the initial text329
Creating additional text elements
Locking an image to a plane with a solid layer
Adjusting the camera's depth of field
Tidying the composition
Adding a final object
Creating realistic shadows
Adding ambient light
Adding an effect
Previewing the composition
Review questions and answers

298

14 ADVANCED EDITING TECHNIQUES



	Getting started	348
	Stabilizing a shot	348
	Bicubic scaling	349
	Warp Stabilizer VFX settings	351
	Removing motion blur	353
	Using single-point motion tracking	356
	Moving and resizing the track points	359
	Removing unwanted objects	363
	Checking for drift	363
	Creating a particle simulation	367
	Mocha AE	367
	Understanding Particle Systems II properties	370
	About high dynamic range (HDR) footage	378
	Retiming playback using the Timewarp effect	379
	Review questions and answers	385
		206
NC	S AND OUTPOTTING	380
	Getting started	388
	About rendering and output	389
	Exporting using the Render Queue	389
	Preparing movies for mobile devices	392

15 RENDERI

Base .
See.

A STR	About rendering and output	
-5-000	Exporting using the Render Queue	389
	Preparing movies for mobile devices	392
	Creating templates for the Render Queue	393
0	Rendering movies with Adobe Media Encoder	394
	About compression	395
\mathbf{O}	Preparing a movie for broadcast output	400
	Review questions and answers	401

APPENDIX: TOOLS FOR TROUBLESHOOTING	402

INDEX

403

9 USING THE ROTO BRUSH TOOL

Lesson overview

In this lesson, you'll learn how to do the following:

- Extract a foreground object from the background using the Roto Brush tool.
- Correct the segmentation boundary across a span of frames.
- Touch up a matte with the Refine Edge tool.
- Freeze a matte across a clip.
- Replace a background.
- Animate properties for creative effects.
- Track a face in footage.



This lesson will take about an hour to complete. If you haven't already done so, download the project files for this lesson from peachpit.com/ AfterEffectsCIB2024, following the instructions in the Getting Started section under "Accessing the lesson files and Web Edition."



PROJECT: WEB BANNER

With the Roto Brush tool, you can quickly separate a foreground object from a background across many frames. You can achieve professional results in a fraction of the time you'd spend performing the same task with traditional rotoscoping.

About rotoscoping

When you draw or paint on the frames of a movie, you're *rotoscoping*. For example, a common use of rotoscoping is to trace an object, using the path as a mask to isolate it from the background so you can work with it separately. You could draw masks, animate the mask paths, and then use the masks to define a matte. (A *matte* is a mask used to hide part of an image so that another image can be superimposed.) While effective, this is a time-intensive, tedious process, especially if the object moves a great deal or the background is complex.

If a background or foreground object is a consistent, distinct color, you could use color keying to separate the object from the background. If the subject was shot against a green or blue background (green screen or blue screen), keying is usually much easier than rotoscoping. However, keying is less efficient when you're working with complex backgrounds.

The Roto Brush tool in After Effects, powered by an AI model, is much faster than conventional rotoscoping. You use the Roto Brush tool to define the foreground and background elements. Then After Effects creates a matte, and tracks the movement of the matte over time. The Roto Brush tool does much of the work for you, leaving only a little cleanup work to be done.

Getting started

In this lesson, you'll use the Roto Brush tool to isolate a bird and rock pool so you can replace the background. To finish up the project, you'll add an animated title.

First, you'll preview the final movie and set up your project.

- 1 Make sure the following files are in the Lessons/Lesson09 folder on your hard disk, or download them from peachpit.com now:
 - In the Assets folder: Chickadee.mov, Facetracking.mov, MillPond.mov
 - In the Sample_Movie folder: Lesson09.mp4
- 2 Open and play the Lesson09.mp4 sample movie in Windows Movies & TV or QuickTime Player to see what you will create in this lesson. When you are done, close Windows Movies & TV or QuickTime Player. You may delete the sample movie from your hard disk if you have limited storage space.

When you begin this lesson, restore the default application settings for After Effects. See "Restoring default preferences" on page 3.

3 Start After Effects, and then immediately hold down Ctrl+Alt+Shift (Windows) or Command+Option+Shift (macOS). In the Startup Repair Options dialog box, click Reset Preferences.

4 Click New Project in the Home window.

After Effects opens to display an empty, untitled project.

- **5** Choose File > Save As > Save As.
- 6 In the Save As dialog box, navigate to the Lessons/Lesson09/ Finished_Project folder.
- 7 Name the project Lesson09_Finished.aep, and then click Save.

Creating the composition

You'll import a footage file and create a composition from it.

1 Click New Composition From Footage in the Composition panel.

\times for Composition (none) \equiv	
New Composition	New Composition
	From Footage

2 Navigate to the Lessons/Lesson09/Assets folder, select the Chickadee.mov file, and then click Import or Open.

After Effects creates a composition named Chickadee, based on the settings in the Chickadee.mov file. The composition is two and one half seconds long, with a frame size of 1920 x 1080. The movie file was shot at a rate of 29.97 frames per second.

3 Choose File > Save to save the project so far.



Creating a segmentation boundary

You use the Roto Brush tool to specify which parts of the clip are in the foreground and which are in the background. You add strokes to distinguish the two, and then After Effects creates a segmentation boundary between the foreground and background.

Creating a base frame

To use the Roto Brush tool to isolate a foreground object, you start by adding strokes to a base frame to identify foreground and background areas. You can start on any frame in the clip, but in this exercise, you'll use the first frame as the base frame. First, you'll add the strokes that identify the bird and the rock pool as the foreground objects.

- 1 Move the current-time indicator across the time ruler to preview the footage.
- **2** Press the Home key to move the current-time indicator to the beginning of the time ruler.
- **3** Select the Roto Brush tool (*m*) in the Tools panel.

You use the Roto Brush tool in the Layer panel, which you'll open now.

4 Double-click the Chickadee.mov layer in the Timeline panel to open the clip in the Layer panel.



5 Choose Fit from the Magnification Ratio pop-up menu at the bottom of the Layer panel if you don't see the entire image clearly.

By default, the Roto Brush tool creates green foreground strokes. You'll start by adding strokes to the foreground—the rock pool and the bird. Generally, it's most efficient to start with broad strokes and then use smaller brushes to refine the border.

6 Choose Window > Brushes to open the Brushes panel. Set up a hard round 100-pixel brush. (You may need to resize the Brushes panel to see the options.)

When you're drawing strokes to define the foreground object, follow the skeletal structure of the subject. Unlike traditional rotoscoping, you don't need to define a precise boundary around the object. Start with broad strokes, and work down to small regions as After Effects determines where the boundary is supposed to be.

7 Draw a green stroke horizontally across the rock pool.



Tip: You can quickly zoom in and out of the Layer panel using the scroll wheel on your mouse, if it has one.

Roto Brush tool properties appear in the Effect Controls panel. In the Layer panel, a magenta outline identifies the boundaries After Effects created for the foreground object. After Effects recognized only about half of the pool, because you initially sampled only a small area of the subject. You'll help After Effects find the boundary by adding some more foreground strokes. First, you'll make sure you're using version 3 of the Roto Brush tool.

8 In the Effect Controls panel, make sure 3.0 is selected for the Version.



9 Still using a large brush, continue to draw green strokes along the inside edges of the pool. Do not include the branches directly behind the pool and the bird.







- **10** Zoom to 200% and use the Hand tool (\Downarrow) to pan to the bird.
- **11** Select the Roto Brush tool again. Then select a smaller brush, and draw a green stroke across the bird's body.



It can be tricky to get some areas without accidentally adding background as well. It's okay if you haven't captured every detail in the foreground. You'll use background strokes to remove any extraneous areas of the matte.

12 Press Alt (Windows) or Option (macOS) to switch to the red background stroke brush. Add red strokes to background areas you want to exclude from the matte.





13 Switch back and forth between the foreground and background brushes and brush sizes to fine-tune the matte. Don't forget to deselect the branches directly behind the bird and the pool. In some cases, one click may be all it takes to exclude an object or area from the matte.



14 When you're happy with the bird's matte, zoom back out and fine-tune any remaining areas that need to be addressed with the rock pool.



Editing Adobe Premiere Pro clips with After Effects

You can work with a clip in both Adobe Premiere Pro and After Effects, moving easily between the two applications as you edit your project.

To edit an Adobe Premiere Pro clip in After Effects, do the following:

1 Right-click or Control-click the clip in Adobe Premiere Pro, and choose Replace With After Effects Composition.

After Effects starts, and opens the Adobe Premiere Pro clip.

- 2 Save the project when you're prompted by After Effects. Then, work in the composition just as you'd work in any other After Effects project.
- 3 When you're finished, save the project, and return to Adobe Premiere Pro.

Your changes are automatically reflected in the timeline.

Don't worry about being exact about your brush strokes. Just make sure the matte is within 1 to 2 pixels of the edge of the foreground object. You'll have an opportunity to refine the matte later. However, After Effects uses the information on the base frame to adjust the matte for the rest of the span, so you want the matte to be accurate.

- **15** Click the Toggle Alpha button (M) at the bottom of the Layer panel. The selected area is white against a black background, so you can see the matte clearly.
- 16 Click the Toggle Alpha Overlay button (III) at the bottom of the Layer panel. The foreground area appears in color, and the background has a red overlay.
- 17 Click the Toggle Alpha Boundary button () at the bottom of the Layer panel to see the outline around the bird and rock pool again.







As you use the Roto Brush tool, the Alpha Boundary is the best way to see how accurate your boundary is, because you can see everything in the frame. However, the Alpha and Alpha Overlay options let you see your matte without the distraction of the background.

Refining the boundary across the span

You used the Roto Brush tool to create a base frame, which includes a segmentation boundary that divides the foreground from the background. The Roto Brush span appears below the time ruler at the bottom of the Layer panel. When After Effects has propagated the current boundary for a frame, the bar beneath that frame on the time ruler is green.

As you move forward and backward through the footage, the segmentation boundary moves with the foreground object (in this case, the bird and the rock pool). You'll step through the frames in the span and make adjustments to the segmentation boundary as necessary.

Because the rock pool is stationary, its track matte is consistent throughout the span. Given that, we'll focus on the bird, which moves around a lot.

- 1 Zoom in on the bird, and then make sure the Roto Brush tool is selected in the Tools panel.
- **2** Press the 2 key on your main keyboard (not the numeric keypad) to move forward one frame.



Working from the base frame, After Effects tracks the edge of the object and attempts to follow its movement. Depending on how complex your foreground and background elements are, the boundary may or may not conform exactly to the area you hoped it would.

3 Using the Roto Brush tool, paint foreground and background strokes to refine the matte for this frame. If the matte is accurate, you don't need to paint any strokes.



• Note: As it propagates the segmentation boundary for a frame, After Effects caches that frame. Cached frames have a green bar in the time ruler. If you jump ahead to a frame further along the span, After Effects may take longer to calculate the boundary.

As you progress through this clip, you'll notice changes to the segmentation boundary with the bird's beak. Likewise, you may need to refine the segmentation boundary around the feet and legs. Tip: To move forward one frame, press the 2 key on your keyboard; to move back one frame, press the 1 key.

- 4 Press the 2 key again to move forward to the next frame.
- **5** Use the Roto Brush tool to add to the foreground or subtract from the background as necessary to refine the boundary.

If you make a stroke you don't like, you can always undo the stroke and try again. As you move through the span, each change you make affects the frames after it. The more you refine your selection, the better the overall results will be. You may find it useful to move forward a few frames to see how changes affect the boundary.

When the bird is moving quickly (such as 0:14 - 0:19), you'll notice that the segmentation boundary becomes more vague, but then "catches up" once the bird slows down again. When a frame displays rapid movement, focus on removing areas that should be excluded (such as the branch behind the bird), rather than adding blurry areas of the bird.



6 Repeat steps 4 and 5 until you reach the end of the layer.



- **7** Once you're satisfied with the bird, zoom out to fit the entire screen, and scroll though the span, making any adjustments as needed.
- 8 When you have completed refining the segmentation boundary for the entire layer, choose File > Save to save your work so far.



Fine-tuning the matte

Roto Brush does a pretty good job, but there may be stray bits of background in the matte, or foreground areas that weren't included. You'll clean those up by refining the edge.

Adjusting the Roto Brush & Refine Edge effect

When you use the Roto Brush tool, After Effects applies the Roto Brush & Refine Edge effect to the layer. You can modify the effect using settings in the Effect Controls panel. You'll use those settings to further refine the edge of the matte.

1 Press the spacebar to play the clip in the Layer panel. Press the spacebar again to end the preview when you've seen the whole clip.

As you preview the clip, you may notice that the segmentation boundary jumps around a bit. You'll adjust the Reduce Chatter and Contrast settings to make it smoother.

2 In the Effect Controls panel, decrease the Contrast to **40%** and increase Reduce Chatter to **20%**.



The Reduce Chatter value determines how much influence the current frame has when performing a weighted average across adjacent frames. Contrast affects how tight the boundary is.

3 Preview the clip again.

Refine Soft Matte and Refine Hard Matte effects

After Effects includes two related effects for refining mattes: Refine Soft Matte and Refine Hard Matte. The Refine Soft Matte effect does the same thing as Refine Edge Matte, except it applies the effect to the entire matte at a constant width. If you need to capture subtle variations across an entire matte, use this effect.

The Refine Hard Matte effect performs the same edge refinements as the Roto Brush when Fine-Tune Roto Brush Matte is turned on in the Roto Brush & Refine Edge effect in the Effect Controls panel.

Using the Refine Edge tool

When an object isn't smooth, the Roto Brush may not pick up the nuanced edge. The Refine Edge tool lets you include fine details such as wisps of hair in designated areas of the segmentation boundary.

Though it might be tempting to use the Refine Edge tool immediately after creating the base frame, it's best to wait until you've refined the segmentation boundary across the entire clip. Because of the way After Effects propagates the segmentation boundary, using the Refine Edge tool too early results in a matte that is difficult to use.

- 1 Go to the base frame, which is the first frame of the clip, and then zoom in so that you can see the edges of the bird's tail clearly. Use the Hand tool if necessary to move the layer so you can see the entire bird.
- 2 Select the Refine Edge tool (☑), hidden beneath the Roto Brush tool in the Tools panel.

The tail is relatively soft, so a small brush size will work well. For a fuzzier object, you might have better results with a much larger brush. The brush needs to overlap the stray edges that emerge from the object.

3 Change the brush size to **5** pixels.

When you use the Refine Edge tool, draw strokes along the edges of the matte.

4 In the Layer panel, move the Refine Edge tool over the edge of the tail straddling the segmentation boundary and including the variations in the feathers. You can use multiple strokes if needed.



When you release the mouse, After Effects switches to the Refine Edge X-ray view so that you can see how the Refine Edge tool changes the matte, capturing the detail in the edges.

- 5 Move the current-time indicator across the time ruler to view the edge. At 0:15, Refine Edge breaks away from the tail as the bird moves away rapidly.
- 6 Change the brush size to **19** pixels.
- 7 At 0:15, press Alt (Windows) or Option (macOS) and erase the artifact from the Refine Edge tool, as it's no longer useful going forward.
- 8 Continue to move forward and backward through the scene, applying the Refine Edge tool wherever the matte's edge doesn't capture the fuzziness of the bird's feathers, and removing it wherever it strays from the tail.





9 Zoom out to see the entire scene, resize the Layer panel if you enlarged it, and then choose File > Save to save your work. • Note: Use the Refine Edge tool only after you have cleaned up the matte across the entire clip.

Freezing your Roto Brush tool results

You've put a fair amount of time and effort into creating the segmentation boundary across the entire clip. After Effects has cached the segmentation boundary so it can recall it without having to make the calculations again. To keep that data easily accessible, you'll *freeze* it. This reduces the processing demands on your system so you can work faster in After Effects.

Once the segmentation is frozen, you cannot edit it unless you unfreeze it. Refreezing the segmentation is time-consuming, so it's best to refine the segmentation boundary as much as possible before freezing.

1 Click the Freeze button in the lower right area of the Layer panel.



After Effects displays a progress bar as it freezes the Roto Brush and Refine Edge tool data. Freezing may take a few minutes, depending on your system. As After Effects freezes the information for each frame, the cache line turns blue. When it has finished freezing, a blue warning bar appears above the time ruler in the Layer panel, reminding you that the segmentation is frozen.

A Roto Brush & Refine Edge propagation is frozen. Unfreeze to update.									
DOF	10f	20f	01:p0f	10f	20f	02:pof	10f	20f	
	f 🔢 🕅 🔲 100 %	{ 0:00:00:00	} 0:00:02:25	Δ 0:00:02:27	View: Ro	oto Brush & Refine Edge	~	Render 🖅 Freez	e e
(78%) - 🖾 🖻 🕀 🚺 🗳	+0.0 🔯 🖉	0:00:02:25						



2 Click the Toggle Alpha Boundary button () in the Layer panel to see the matte. Then click the Toggle Transparency Grid button (). Move the time marker across the time ruler to see the subject without the distractions of the background.



- 3 Click the Toggle Alpha Boundary button again to see the boundary.
- 4 Choose File > Save.

After Effects saves the frozen segmentation information with the project.

Changing the background

There are many reasons to isolate a foreground image from a background. You may want to replace the background entirely, moving the subject to a different setting. Or you could simply want to change the foreground or background without modifying the other. In this lesson, you'll remove the fenced in area of the background, and replace it with a different background, which you'll enhance with color correction tools.

- 1 Close the Layer panel to return to the Composition panel, and then move the current-time indicator to the beginning of the timeline. Choose Fit from the Magnification Ratio pop-up menu at the bottom of the Composition panel.
- 2 Hide the properties for the Chickadee.mov layer, if they're visible.



The Composition panel displays the composition, which includes only the Chickadee.mov layer, consisting only of the foreground you isolated from the clip.

3 Click the Project tab to display the Project panel, and double-click an empty area in the Project panel. Navigate to the Lessons/Lesson09/Assets folder, select the MillPond.mov file, and click Import or Open.

- **4** Drag the MillPond.mov clip from the Project panel to the Timeline panel, and place it below the original Chickadee.mov layer.
- 5 Click the new layer, press Enter or Return, and rename the layer Mill Pond Start. Then press Enter or Return again.



6 Select the Chickadee layer. Then, using the Selection tool (►), drag the layer to the lower half of the Composition panel. Your values should be similar to ours.



7 Select the Mill Pond Start layer, and choose Effect > Color Correction > Hue/Saturation.

You'll use the Hue/Saturation effect in two different ways, so you'll create a duplicate layer for the second effect.

8 With the Mill Pond Start layer selected, choose Edit > Duplicate. Rename the bottom layer Mill Pond End. Then rename the top layer to remove the number 2 from the name (so that its name is Mill Pond Start).



- **9** Select the Mill Pond Start layer, and then, in the Effect Controls panel, do the following:
 - Select Colorize.
 - Change Colorize Hue to **56** degrees.
 - Change Colorize Saturation to 19.
 - Change Colorize Lightness to -25.



- **10** In the Properties panel, click the stopwatch icon for the Opacity value to create an initial keyframe at 100%.
- **11** Go to 1:10, and change the Opacity to **0**.



- **12** Still at 1:10, select the Mill Pond End layer.
- **13** In the Effect Controls panel, click the stopwatch icon for the Channel Range property to create an initial keyframe.
- 14 Go to the end of the footage (2:25), and change the Master Hue to -30.



15 Press the spacebar to preview the project. Press the spacebar again when you've finished.



The background transitions from a monochromatic dusk to a full summer day and then again to the beginning of fall as the leaves change.

16 Choose File > Increment And Save.

If you save incrementally, you can return to earlier versions of your project to make adjustments later. This can be very useful if you're experimenting or want to try alternative effects. The Increment And Save feature preserves the previously saved version of the project and creates a new project with the same name, with an increasing number added to the filename.

Adding animated text

You're nearly done. All you need to do is to add the animated title between the bird and the background.

- 1 Deselect all layers, and then move the current-time indicator to the beginning of the time ruler.
- 2 Select the Type tool (T), and then type **Reflections** in the Composition panel.

A new text layer named Reflections appears in the Timeline panel at the top of the layer stack.

- **3** Select the Reflections layer, and then do the following in the Text section of the Properties panel:
 - Choose Courier New for the font.
 - Choose Bold for the font style.
 - Type **300** px for the font size.
 - Choose Optical from the Kerning menu.
 - Select white for the Fill color.
 - Deselect the Stroke checkbox.
- 4 Click the More button, and then type 140% for the vertical scale.



5 Use the Selection tool () to reposition the text to rest along the top edge of the rock pool, and then move the Reflections layer below the Chickadee layer.





You'll animate the text so that it appears on the screen in a liquid motion.