





# Classroom in a Book<sup>®</sup>

The official training workbook from Adobe Brie Gyncild & Lisa Fridsma









# Classroom in a Book<sup>®</sup>

The official training workbook from Adobe Brie Gyncild & Lisa Fridsma Adobe After Effects Classroom in a Book (2021 Release)

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Cover Illustration: Helena Baltazar Costa

ISBN-13: 978-0-13-681564-8 ISBN-10: 0-13-681564-2

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# WHERE ARE THE LESSON FILES?

Purchase of this Classroom in a Book in any format gives you access to the lesson files you'll need to complete the exercises in the book.

- 1 Go to www.adobepress.com/AfterEffectsCIB2021.
- 2 Sign in or create a new account.
- 3 Click Submit.



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# **2** CREATING A BASIC ANIMATION USING EFFECTS AND PRESETS

## Lesson overview

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

- Use Adobe Bridge to preview and import footage items.
- Work with the layers of an imported Adobe Illustrator file.
- Use guides to position objects.
- Apply drop-shadow and emboss effects.
- Apply a text animation preset.
- Precompose layers.
- Apply a dissolve transition effect.
- Adjust the transparency of a layer.
- Render an animation for broadcast use.



This lesson will take about an hour to complete. If you haven't already done so, download the project files for this lesson from www.adobepress. com/AfterEffectsCIB2021, following the instructions in the Getting Started section under "Accessing the lesson files and Web Edition."



PROJECT: ANIMATED LOGO

Hit the ground running with a variety of effects and animation presets in After Effects. You can use them to create great-looking animations quickly and easily.

# **Getting started**

In this lesson, you will become more familiar with the Adobe After Effects project workflow. You'll learn new ways to accomplish basic tasks as you create a simple identification graphic for the introduction to a video presentation called "Explore Hawaii" for the fictional Blue Crab Charter Services. You will animate the title and logo so that they fade to become a watermark in the lower right corner of the screen during the presentation. Then you'll export the introduction for broadcast output.

First, take a look at the final project files to see what you'll be doing.

- 1 Make sure the following files are in the Lessons/Lesson02 folder on your hard disk, or download them from www.adobepress.com now:
  - In the Assets folder: BlueCrabLogo.ai, MauiCoast.jpg
  - In the Sample\_Movies folder: Lesson02.avi, Lesson02.mov
- 2 Open and play the Lesson02.avi sample movie in Windows Movies & TV or the Lesson02.mov sample movie in 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 movies from your hard disk if you have limited storage space.

Before you begin the lesson, you'll restore the default application settings for After Effects. See "Restoring default preferences" on page 3 for more information.

- Start After Effects, and then immediately hold down Ctrl+Alt+Shift (Windows) or Command+Option+Shift (macOS) to restore default preferences settings. When prompted, click OK to delete your preferences.
- 4 In the Home window, click New Project.

After Effects opens to display a blank, untitled project.

- **5** Choose File > Save As > Save As.
- 6 In the Save As dialog box, navigate to the Lessons/Lesson02/ Finished\_Project folder.
- 7 Name the project Lesson02\_Finished.aep, and then click Save.

# Importing footage using Adobe Bridge

In Lesson 1, you chose File > Import > File to import footage. However, you can also use Adobe Bridge—a powerful, flexible tool for organizing, browsing, and locating the assets you need to create content for print, web, television, DVD, film, and mobile devices. Adobe Bridge keeps native Adobe files (such as PSD and PDF files) as well as non-Adobe files available for easy access. You can drag assets into your layouts, projects, and compositions as needed; preview your assets; and even add metadata (file information) to assets to make files easier to locate.

Adobe Bridge is not automatically installed with After Effects; you need to install it separately from Creative Cloud. If Bridge is not installed, you'll be prompted to install it when you choose File > Browse In Bridge.

In this exercise, you will jump to Adobe Bridge to import the still image that will serve as the background of your composition.

1 Choose File > Browse In Bridge. If you receive a message about enabling an extension to Adobe Bridge, click Yes. You may also be asked to allow Adobe Bridge to access various content folders on your computer.

Adobe Bridge opens, displaying a collection of panels, menus, and buttons.

- 2 Click the Folders tab in the upper left corner of Adobe Bridge.
- **3** In the Folders panel, navigate to the Lessons/Lesson02/Assets folder. Click the arrows to open nested folders. You can also double-click folder thumbnail icons in the Content panel.



The Content panel updates interactively. For example, when you select the Assets folder in the Folders panel, thumbnail previews of the folder's contents appear in the Content panel. Adobe Bridge displays previews of image files such as those in PSD, TIFF, and JPEG formats, as well as Illustrator vector files, multipage Adobe PDF files, QuickTime movie files, and more.

► Tip: You can use Adobe Bridge separately to manage your files. To open Adobe Bridge directly, choose Adobe Bridge from the Start menu (Windows) or doubleclick the Adobe Bridge icon in the Applications/ Adobe Bridge folder (macOS).

• Note: We're using the Essentials workspace, which is the default workspace in Bridge. ► Tip: To prioritize different information in Adobe Bridge, change the workspace: Choose Window > Workspace, and then select a workspace. See Adobe Bridge Help to learn about customizing Adobe Bridge. **4** Drag the thumbnail slider at the bottom of the Adobe Bridge window to enlarge the thumbnail previews.



5 Select the MauiCoast.jpg file in the Content panel, and notice that it appears in the Preview panel as well. Information about the file, including its creation date, bit depth, and file size, appears in the Metadata panel.



- 6 Double-click the MauiCoast.jpg thumbnail in the Content panel to place the file in your After Effects project. Alternatively, you can drag the MauiCoast.jpg thumbnail into the Project panel in After Effects.
- Return to After Effects, if you're not already there.



You can close Adobe Bridge if you'd like. You won't be using it again during this lesson.

# Creating a new composition

Following the workflow you learned in Lesson 1, the next step is to create a new composition. You'll create one, and then add your footage items to it.

# Creating an empty composition

First, you'll create the composition itself, without any layers.

- 1 Create a new composition by doing one of the following:
  - Click the Create A New Composition button (E) at the bottom of the Project panel.
  - Click the New Composition button in the Composition panel.
  - Choose Composition > New Composition.
  - Press Ctrl+N (Windows) or Command+N (macOS).
- 2 In the Composition Settings dialog box, do the following:
  - Name the composition Explore Hawaii.
  - Choose NTSC DV Widescreen from the Preset pop-up menu. NTSC DV Widescreen uses the customary settings for television in the United States and some other countries. This preset automatically sets the width, height, pixel aspect ratio, and frame rate for the composition to NTSC standards.
  - In the Duration field, type **300** to specify 3 seconds.
  - Click OK.

| Composition Settings  |  |  |  |  |  |
|---|--|--|--|--|--|
| Composition Name: Explore Hawaii  |  |  |  |  |  |
| Basic Advanced 3D Renderer<br>Preset NTSC DV Widescreen<br>Width: 720 px<br>Height: 480 ox  |  |  |  |  |  |
| Pixel Aspect Ratio: D1/DV NTSC Widescreen (1.21)  Frame Aspect Ratio: 20:11 (1.82) Frame Rate: 29.97  Frames per second Drop Frame                          |  |  |  |  |  |
| Resolution:         Full         Y 720 x 480, 1.3 MB per 8bpc frame           Start Timecode:         0;00;00;00         is 0;00;00;00         Base 30 drop |  |  |  |  |  |
| Duration. (0,00;03;00) is 0;00;03;00 Base 30 drop   |  |  |  |  |  |
| Background Color: 🥂 Black   |  |  |  |  |  |
|   |  |  |  |  |  |

After Effects displays an empty composition named Explore Hawaii in the Composition panel and in the Timeline panel. Now, you'll add the background.

3 Drag the MauiCoast.jpg footage item from the Project panel to the Timeline panel to add it to the Explore Hawaii composition.



► **Tip:** The keyboard shortcut for fitting a layer to a composition is Ctrl+Alt+F (Windows) or Command+Option+F (macOS). 4 With the MauiCoast layer selected in the Timeline panel, choose Layer > Transform > Fit To Comp to scale the background image to the dimensions of the composition.



# Importing the foreground element

Your background is now in place. The foreground object you'll use is a layered vector graphic that was created in Illustrator.

- 1 Choose File > Import > File.
- 2 In the Import File dialog box, select the BlueCrabLogo.ai file in the Lessons/ Lesson02/Assets folder. (The file appears as BlueCrabLogo if file extensions are hidden.)
- 3 Choose Composition from the Import As menu. (In macOS, you may need to click Options to display the Import As menu.) Then click Import or Open.

| *** E           |                               | Assets   | 0 | Q Search |      |
|-----------------|-------------------------------|--|---|----------|------|
| BiueCrabLogo.al | MauiCoast.jpg                 |  |   |          |      |
|                 | Enable<br>Format<br>Import As | All Acceptable Files     Illustrator/PDF/EPS     Composition                   | 0 |          |      |
|                 |                               | Create Composition<br>Illustrator/PDF/EPS Sequence<br>Force alphabetical order | ) |          |      |
| Options         |                               |  |   | Cancel   | Open |

The Illustrator file is added to the Project panel as a composition named BlueCrabLogo. A folder named BlueCrabLogo Layers also appears. This folder contains the three individual layers of the Illustrator file. Click the arrow to open the folder and see its contents if you like.

**4** Drag the BlueCrabLogo composition file from the Project panel into the Timeline panel above the MauiCoast layer.



You should now see both the background image and the logo in the Composition panel and in the Timeline panel.

**5** Choose File > Save to save your work so far.

# Working with imported Illustrator layers

The BlueCrabLogo graphic was created in Illustrator; your job in After Effects is to add text and animate it. To work with the layers of the Illustrator file independently of the background footage, you'll open the BlueCrabLogo composition in its own Timeline and Composition panels.

1 Double-click the BlueCrabLogo composition in the Project panel.

The composition opens in its own Timeline and Composition panels.

| Project ≡           BlueCrabLogo ▼ , used 1 time           873 x 480 (1.00)           Δ 0,00;03;00, 29.97 fps |            |           |            |     |  |  |  |
|---|------------|-----------|------------|-----|--|--|--|
| P.  |            |           |            |     |  |  |  |
| Name  | -          | 🔖 Type    | e          | Siz |  |  |  |
| BlueCrabLogo  |            | Cor       | mposition  | Å   |  |  |  |
| > 🖬 BlueCrabLogo Lay  | /ers       | - Fol     | der        |     |  |  |  |
| Explore Hawaii  |            | Cor       | mposition  |     |  |  |  |
| MauiCoast.jpg   |            | Im:       | orterJPEG  |     |  |  |  |
|   |            |           |            |     |  |  |  |
| Explore Hawaii  |            | BlueCrabL | ogo 📃      |     |  |  |  |
| 0;00;00;00<br>00000 (29.97 fps)   |            |           |            |     |  |  |  |
| ••••  | Layer Name |           | ▲ ☆ 入      | f×  |  |  |  |
| • • 1   | 💾 text     |           | <u>+ /</u> |     |  |  |  |
| ○   | 🛃 crab     |           | <u>₽ /</u> |     |  |  |  |
| • 3   | 🚹 backgro  | und       | <b>₽</b> / |     |  |  |  |
|   |            |           |            |     |  |  |  |

- **2** Select the Horizontal Type tool (T) in the Tools panel, and click in the Composition panel.
- **3** Type **EXPLORE HAWAII**, all capital letters, and then select all of the text you just entered. Notice that the generic Text 1 layer name in the Timeline panel changes to EXPLORE HAWAII, the text you typed.



4 In the Character panel, select a sans serif typeface such as Impact, and change the font size to 80 pixels. Click the eyedropper (1) in the Character panel, and click the outer border on the logo to select the yellow color. After Effects applies it to the text you typed. Leave all other options in the Character panel at their defaults.



You'll position the text you just typed using a guide.

- **5** Select the Selection tool (**b**) in the Tools panel.
- 6 Choose View > Show Rulers, and then drag a guide from the top ruler into the Composition panel.
- 7 Right-click or Control-click the guide, click Edit Position, type 120 in the Edit Value dialog box, and click OK. The guide moves to the position you specified.



- 8 Drag the text so that it is centered over the image, snapping its bottom side to the guide.
- **9** Drag another guide from the top ruler, right-click or Control-click it, click Edit Position, type **150** in the Edit Value dialog box, and click OK.
- **10** In the Timeline panel, select the background layer, and then Shift-select the text layer to select all three logo layers. Align the top of the logo with the lower guide.



• Note: If the Character panel isn't open, choose Window > Character. You may need to expand the width of the panel to see the eyedropper.

Tip: You can also choose View > Show Grid to make the nonprinting grid visible to help you position objects. Choose View > Show Grid again to hide the grid later.

- 11 Choose View > Show Rulers, and then choose View > Show Guides, to hide the ruler and the guide.
- **12** Choose File > Save to save your work.

# Applying effects to a layer

Now you'll return to the main composition, Explore Hawaii, and apply an effect to the BlueCrabLogo layer. This will apply the effect to all of the layers nested in the BlueCrabLogo composition.

1 Click the Explore Hawaii tab in the Timeline panel, and then select the BlueCrabLogo layer.

The effect you create next will be applied only to the logo elements, not to the background image.

2 Choose Effect > Perspective > Drop Shadow.



A soft-edged shadow appears behind the nested layers of the BlueCrabLogo layer the logo graphic and the words *Explore Hawaii*—in the Composition panel. You can customize the effect using the Effect Controls panel, which appears in front of the Project panel when you apply an effect.

**3** In the Effect Controls panel, make sure that the drop shadow's Distance is **5**, and increase its Softness to **4**. You can set each value by clicking the field and typing the number or by dragging the blue value.



# **Applying and controlling effects**

You can apply or remove an effect at any time. Once you've applied effects to a layer, you can temporarily turn off one or all of the effects in the layer to concentrate on another aspect of your composition. Effects that are turned off do not appear in the Composition panel, and typically aren't included when the layer is previewed or rendered.

By default, when you apply an effect to a layer, the effect is active for the duration of the layer. However, you can make an effect start and stop at specific times, or make the effect more or less intense over time. You'll learn more about creating animation using keyframes and expressions in Lesson 5, "Animating a Multimedia Presentation," and Lesson 6, "Animating Layers."

You can apply and edit effects on adjustment layers just as you do with other layers. Note, however, that when you apply an effect to an adjustment layer, the effect is applied to all layers below it in the Timeline panel.

Effects can also be saved, browsed, and applied as animation presets.

The drop shadow is nice, but the logo will stand out even more if you apply an emboss effect. You can use either the Effect menu or the Effects & Presets panel to locate and apply effects.

- 4 Click the Effects & Presets tab to open the panel. Then click the arrow next to Stylize to expand the category.
- 5 With the BlueCrabLogo layer selected in the Timeline panel, drag the Color Emboss effect into the Composition panel.



The Color Emboss effect sharpens the edges of objects in the layer without suppressing the original colors. The Effect Controls panel displays the Color Emboss effect and its settings below the Drop Shadow effect.

**6** Choose File > Save to save your work.

# Applying an animation preset

You've positioned the type and applied some effects to it. It's time to add some animation! You will learn several ways to animate text in Lesson 3; for now, you'll use a simple animation preset that will fade the words *Explore Hawaii* onto the screen next to the logo. You'll need to work in the BlueCrabLogo composition so that you can apply the animation to only the EXPLORE HAWAII text layer.

- 1 Click the BlueCrabLogo tab in the Timeline panel, and select the EXPLORE HAWAII layer.
- **2** Move the current-time indicator to 1:05, which is the point at which you want the text to start fading in.



- 3 In the Effects & Presets panel, choose Animation Presets > Text > Animate In.
- 4 Drag the Fade Up Words animation preset onto the EXPLORE HAWAII layer in the Timeline panel or over the words *Explore Hawaii* in the Composition panel. Don't worry about the text disappearing you're looking at the first frame of the animation, before the words have started to appear.



Effects & Presets

\* Animation Presets

🗸 🛅 Text

> 🚞 Backgrounds

Synthetics

**5** Click a blank area of the Timeline panel to deselect the EXPLORE HAWAII layer, and then drag the current-time indicator to 2:10 to manually preview the text animation. The text appears, one word at a time, until the words *Explore Hawaii* are fully onscreen at 2:10.



# Precomposing layers for a new animation

The presentation graphic is coming along nicely, and you're probably eager to preview the complete animation. Before you do, however, you'll add a dissolve to all of the logo elements except the words *Explore Hawaii*. To do this, you need to precompose the other three layers of the BlueCrabLogo composition: text, crab, and background.

*Precomposing* is a way to nest layers within a composition. Precomposing moves the layers to a new composition, which takes the place of the selected layers. When you want to change the order in which layer components are rendered, precomposing is a quick way to create intermediate levels of nesting in an existing hierarchy.

- 1 Shift-click to select the text, crab, and background layers in the BlueCrabLogo Timeline panel.
- 2 Choose Layer > Pre-compose.
- **3** In the Pre-compose dialog box, name the new composition **Dissolve\_logo**. Make sure the Move All Attributes Into The New Composition option is selected. Then click OK.



The three layers are replaced in the BlueCrabLogo Timeline panel with a single layer, Dissolve\_logo. This new, precomposed layer contains the three layers that you selected in step 1. You can apply the dissolve effect to it without affecting the EXPLORE HAWAII text layer and its Fade Up Words animation.

- **4** Make sure the Dissolve\_logo layer is selected in the Timeline panel, and press the Home key or drag the current-time indicator to 0:00.
- 5 In the Effects & Presets panel, choose Animation Presets > Transitions Dissolves, and then drag the Dissolve – Vapor animation preset onto the Dissolve\_logo layer in the Timeline panel or onto the Composition panel.

| Project 🛛 🛋 🖬 Effect Con     | trols Dissolve_logo ≡      |                   |                                      |
|------------------------------|----------------------------|-------------------|--------------------------------------|
| BlueCrabLogo • Dissolve_logo |                            |                   |                                      |
| ✓ fx Dissolve Master Control | Reset                      |                   |                                      |
| > 🙋 Transition Completion    | 0.0%                       |                   |                                      |
| ✓ fx (Box Blur)              |                            |                   |                                      |
| > 💍 Blur Radius              |                            |                   |                                      |
| > 💍 Iterations               |                            |                   |                                      |
| 💍 Blur Dimensions            | Horizontal and Vertical $$ | Explore Hawaii    | × 📕 BlueCrabl.ogo =                  |
| Ď                            | 🗹 Repeat Edge Pixels       |                   |                                      |
| Solid Composite)             |                            | 0;00;00;00 0-     |                                      |
| > 💍 Source Opacity           | 0.0%                       | 00000 (29.97 fps) |                                      |
| Ö Color                      |                            | • • • 6 • • •     | Layer Name – – – – → – , <i>fx</i> 📗 |
| > 💍 Opacity                  | 0.0%                       | •                 | T EXPLORE HAWAII 🕀 🔅 🖊               |
| 💍 Blending Mode              | Normal 🗸                   | ○ → 2             | Dissolve_logo] 🕂 🍂                   |
|                              |                            |                   | <u> </u>                             |

The Dissolve – Vapor animation preset includes three components—a master dissolve, a box blur, and a solid composite, all of which appear in the Effect Controls panel. The default settings are fine for this project.

6 Choose File > Save.

# **Previewing the effects**

It's time to preview all of the effects together.

- 1 Click the Explore Hawaii tab in the Timeline panel to switch to the main composition. Press the Home key or drag the current-time indicator to make sure you're at the beginning of the time ruler.
- 2 Make sure the Video switch (••) is selected for both layers in the Explore Hawaii Timeline panel.

**Tip:** To locate the Dissolve – Vapor preset quickly, type **vap** in the search box in the Effects & Presets panel.

3 Click the Play button (▶) in the Preview panel, or press the spacebar, to watch the preview. Press the spacebar to stop playback at any time.



# **Adding transparency**

The logo should appear semitransparently in the corner of the frame during the presentation. You'll reduce the opacity of the logo, scale it, and shift its position so that it can be used this way.

- 1 Still in the Explore Hawaii Timeline panel, go to 2:10.
- 2 Select the BlueCrabLogo layer, and press T to display its Opacity property. By default, the Opacity is 100%—fully opaque. Click the stopwatch icon (☉) to set an Opacity keyframe at this point in time.



**3** Press the End key or drag the current-time indicator to go to the end of the time ruler (2:29), and change the Opacity to **40%**. After Effects adds a keyframe.



The logo appears, the words *Explore Hawaii* show up, and it all fades to 40% opacity.

- **4** Go to 2:10, and press P to display the Position property and then Shift+S to display the Scale property, too. Click the stopwatch icons (<sup>™</sup>) to set initial keyframes for both properties.
- **5** Go to 2:25, and change the Scale to 25% and the Positon to 620, 410.



6 Click the Play button (▶) in the Preview panel, press the spacebar, or press 0 on your numeric keypad to preview your composition.



- 7 Press the spacebar to stop playback when you're done.
- 8 Choose File > Save to save your project.

# **Rendering the composition**

• Note: For more about output formats and rendering, see Lesson 15, "Rendering and Outputting." You're ready to prepare your presentation intro for output. When you create output, the layers of a composition and each layer's masks, effects, and properties are rendered frame by frame into one or more output files or, in the case of an image sequence, into a series of consecutive files.

Making a movie from your final composition can take a few minutes or many hours, depending on the composition's frame size, quality, complexity, and compression method. When you place your composition in the Render Queue, it becomes a render item that uses the render settings assigned to it.

After Effects provides a variety of formats and compression types for rendering output; the format you choose depends on the medium from which you'll play your final output or on the requirements of your hardware, such as a video-editing system.

You'll render and export the composition so that it can be broadcast on television.

- Click the Project tab to bring the Project panel forward. If the Project tab is not visible, choose Window > Project.
- **2** Do one of the following to add the composition to the Render Queue:
  - Select the Explore Hawaii composition in the Project panel, and choose Composition > Add To Render Queue. The Render Queue panel opens automatically.
  - Choose Window > Render Queue to open the Render Queue panel, and then drag the Explore Hawaii composition from the Project panel onto the Render Queue panel.
- **3** Click the arrow to expand the Render Settings options. By default, After Effects renders compositions with Best Quality and Full Resolution. The default settings are fine for this project.
- 4 Click the arrow to expand the Output Module options. By default, After Effects uses lossless compression to encode the rendered composition into a movie file. If you're using Windows, skip to step 5. If you're using macOS, click the arrow next to Lossless, and choose QuickTime DV NTSC 48kHz.
- 5 Click the blue words next to the Output To menu.



• Note: For output to final-delivery formats, you can use Adobe Media Encoder. You'll learn about Adobe Media Encoder in Lesson 15, "Rendering and Outputting."

- 6 In the Output Movie To dialog box, accept the default movie name (Explore Hawaii), select the Lessons/Lesson02/Finished\_Project folder for the location, and then click Save.
- 7 Back in the Render Queue panel, click the Render button.



After Effects displays a progress bar in the Render Queue panel as it encodes the file, and issues an audio alert when all items in the Render Queue have been rendered and encoded.

- 8 If you want to see your final product, double-click the Explore Hawaii.avi or Explore Hawaii.mov file in the Lessons/Lesson02/Finished\_Project folder to open it in Windows Media Player or QuickTime, and then play the file.
- **9** Save and close the project file, and then quit After Effects.

Congratulations. You've created a presentation intro suitable for broadcast.

# **Review questions**

- 1 How do you use Adobe Bridge to preview and import files?
- 2 What is *precomposing*?
- 3 How do you customize an effect?
- 4 How do you modify the transparency of a layer in a composition?

# **Review answers**

- 1 Choose File > Browse In Bridge to jump from After Effects to Adobe Bridge. If Bridge isn't installed, you'll be prompted to download and install it. In Bridge, you can search for and preview image assets. When you locate the asset you want to use in an After Effects project, double-click it or drag it to the Project panel.
- **2** *Precomposing* is a way to nest layers within a composition. Precomposing moves the layers to a new composition, which takes the place of the selected layers. When you want to change the order in which layer components are rendered, precomposing is a quick way to create intermediate levels of nesting in an existing hierarchy.
- 3 After you apply an effect to a layer in a composition, you can customize its properties in the Effect Controls panel. This panel opens automatically when you apply the effect, or you can open it at any time by selecting the layer with the effect and choosing Window > Effect Controls.
- **4** To modify the transparency of a layer, reduce its opacity. Select the layer in the Timeline panel, press T to reveal its Opacity property, and enter a value lower than 100%.

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# **Production Notes**

Adobe After Effects Classroom in a Book (2021 release) was created electronically using Adobe InDesign. Art was produced using Adobe InDesign, Adobe Illustrator, and Adobe Photoshop.

References to company names in the lessons are for demonstration purposes only and are not intended to refer to any actual organization or person.

#### Typefaces used

Adobe Myriad Pro and Adobe Warnock Pro as well as other Adobe typefaces are used throughout the lessons.

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