Adobe Illustrator

2025 Release



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Classroom in a Book[®]

The official training workbook from Adobe

Brian Wood

FREE SAMPLE CHAPTER

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2025 Release



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Adobe Illustrator Classroom in a Book® 2025 Release

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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 peachpit.com/IllustratorCIB2025.
- 2 Sign in or create a new account.
- 3 Click Submit.

• **Note:** If you encounter problems registering your product or accessing the lesson files or web edition, go to *peachpit.com/support* for assistance.

- **4** Answer the questions as proof of purchase.
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CONTENTS

GETTING STARTED

About Classroom in a Book1
Prerequisites 1
Installing the program 2
Fonts used in this book 2
Online Content 2
Lesson files 2
Web Edition 3
Accessing the lesson files and Web Edition
Restoring default preferences 4
To reset the current Illustrator preferences
Additional resources 5

1

6

8

WHAT'S NEW IN ADOBE ILLUSTRATOR 2025 RELEASE

Objects on Path	6
Text to Vector Graphic improvements	6
Gen Shape Fill (Beta)	7
Mockup improvements	7
Star as a Live Shape	7

A QUICK TOUR OF ADOBE ILLUSTRATOR 2025 RELEASE



Starting the lesson
Saving the document10
Creating shapes 11
Resizing shapes 12
Copying shapes13
Rounding corners13
Combining shapes using the Shape Builder tool
Rounding a few corners15
Applying and editing color15
Practice making a leaf17
Transforming the leaf18
Applying a gradient
Practice applying a gradient20
Creating with the Curvature tool 20

Applying a brush	21
Working with type	22
Grouping content	23
Curving text	23
Formatting the text	24
Working with effects	25
Finishing your sticker	25

1 GETTING TO KNOW THE WORK AREA

Welcome to Adobe Illustrator!
Opening an Illustrator file 29
Exploring the workspace
Getting to know the tools
Working with the Properties panel
Exploring the Contextual Task Bar
Finding more tools
Working with panels
Moving and docking panels
Switching and resetting workspaces
Using panel and context menus
Changing the view of artwork
Using view commands43
Using the Zoom tool44
Panning in a document47
Rotating the view 48
Viewing artwork

2 TECHNIQUES FOR SELECTING ARTWORK

İĊ	TERM BU	+×	
	COMP ARCA HIGH	ANY IDE IT	·• •

GUITAR • FCST *

Starting the lesson 56
Selecting objects 57
Using the Selection tool57
Selecting and editing with the Direct Selection tool 59
Selecting with a marquee60
Locking objects 62
Unlocking objects63
Selecting similar objects63

Navigating multiple artboards 51

Hiding objects 64
Selecting in Outline mode65
Aligning objects
Aligning objects to each other
Aligning to a key object66
Distributing objects67
Aligning anchor points68
Aligning to the artboard69
Aligning objects to a path 70
Editing the objects on the path71
Working with groups72
Grouping items
Editing a group in Isolation mode
Exploring object arrangement74
Arranging objects74

76

3 MAKE A LOGO WITH SHAPES

	State of the second sec
	n and a
I	TREK
	OUTDOORS

We	Starting the lesson	
	Creating a new document	
	Saving your document	
	Working with basic shapes	82
DOORS	Creating rectangles	82
	Editing rectangles	83
	Changing the color of the shapes	85
	Rounding rectangle corners by dragging	86
	Rounding individual corners	87
	Changing a corner type	88
	Creating an ellipse	
	Editing an ellipse	
	Changing stroke alignment	
	Creating a pie shape from an ellipse	
	Drawing lines	
	Editing a line	
	Creating polygons	
	Editing a polygon	
	Creating a star	
	Working with drawing modes	
	Using Draw Inside mode	
	Practicing with Draw Inside mode	
	Editing content drawn inside	

Pasting artwork between documents10)2
Using Image Trace to convert images into editable vector art10)3
Cleaning up traced artwork10)5
Adding the text and bear logo to the flyer10)7
Using Text To Vector Graphic (Beta)10)7

4 EDITING AND COMBINING SHAPES AND PATHS



Starting the lesson114
Editing paths and shapes115
Cutting with the Scissors tool115
Joining paths117
Cutting with the Knife tool118
Cutting in a straight line with the Knife tool
Using the Eraser tool121
Erasing in a straight line122
Creating a compound path123
Outlining strokes125
Combining shapes126
Working with the Shape Builder tool
Combining objects using Pathfinder effects128
Understanding shape modes129
Reshaping a path131
Using the Width tool132
Using Intertwine134
Assembling the sign
Assembling the poster136

5 TRANSFORMING ARTWORK

LUNCH IS READY PODCAST

Starting the lesson140
How can you use artboards?141
Creating and editing artboards141
Creating a new artboard141
Copying artboards between documents
Moving and resizing artboards144
Aligning and arranging artboards146
Setting options for artboards147
Working with rulers and guides148
Creating guides149
Transforming content

138

Working with the bounding box
Positioning artwork using the Properties panel151
Scaling objects precisely153
Rotating objects with the Rotate tool
Scaling using Transform Each155
Shearing objects156
Transforming using menu commands
Using repeats158
Applying a mirror repeat158
Editing a mirror repeat159
Working with the Puppet Warp tool160
Adding pins160
Rotating pins162
Introducing the Dimension tool

6 USING THE BASIC DRAWING TOOLS



Starting the lesson
Creating with the Curvature tool169
Drawing paths with the Curvature tool
Editing the path with the Curvature tool
Joining the paths with the Join tool
Finishing the social graphic173
Creating corners with the Curvature tool
Practicing with the Curvature tool
Finishing the mug handle177
Creating with the Pencil tool178
Drawing paths with the Pencil tool
Creating dashed lines
Adding arrowheads to paths181
Practicing adding arrowheads182

7 DRAWING WITH THE PEN TOOL

4	w
and have	6
-	NAN
Radia Second	
13	20012

Starting the lesson	6
Why use the Pen tool?	6
Starting with the Pen tool	7
Creating straight lines to make a crown	7
Continuing to draw a path	9
Practicing by making another crown!	0
Drawing a house with the Pen tool	0

166

Practicing by making another house!
Exploring curved paths192
Drawing a curve with the Pen tool
Practicing by creating more curves!
Drawing a series of curves with the Pen tool
Practicing by creating continuous curves!
Changing path direction196
Practicing by creating more curves!
Combining curves and straight lines
Practicing by making the other sail!
Practicing by creating more curves!
Putting your learning into practice
Editing paths and points further204
Deleting and adding anchor points
Converting between smooth points and corner points 207
Converting anchor points with the Anchor Point tool 208

8 USING COLOR TO ENHANCE ARTWORK

Starting the lesson212
Exploring color modes
Working with color
Applying an existing color214
Making a custom color
Saving a color as a swatch
Editing the global swatch218
Editing a non-global swatch219
Using the Color Picker to create color
Using Illustrator swatch libraries
Creating and saving a tint
Copying appearance attributes
Using the Color Guide panel for creative inspiration 227
Applying colors from the Color Guide panel
Using Recolor Artwork to edit colors in artwork
Recoloring artwork229
Sampling color in Recolor Artwork
Making color variations with sample prompts using
Generative Recolor233
Making color variations with custom prompts using
Generative Recolor

Working with Live Paint2	235
Creating a Live Paint group2	235
Painting with the Live Paint Bucket tool2	236
Modifying a Live Paint group2	238

9 ADDING TYPE TO A PROJECT

Entropy of the second s	

Starting the lesson	242
Adding text	243
Adding text at a point	243
Adding area type	244
Converting between area type and point type	246
Importing a plain-text file	247
Threading text	248
Formatting type	250
Changing font family and font style	250
Activating Adobe Fonts	250
Applying fonts to text in Illustrator	252
Changing font size	254
Changing the color of text	255
Changing additional character formatting	255
Changing paragraph formatting	257
Vertically aligning area type	258
Resizing and reshaping type objects	259
Creating columns of text	259
Reshaping type objects	260
Creating and applying text styles	261
Creating and applying a paragraph style	261
Sampling text formatting	262
Practicing paragraph styles	263
Editing a paragraph style	263
Creating text lists	265
Applying text lists	265
Editing text lists	265
Wrapping text	266
Curving text on a path	267
Warping text	269
Reshaping text with a preset envelope warp	269
Editing the content of the envelope warp	269

ADOBE ILLUSTRATOR	CLASSROOM	IN A	A BOOK	2025	RELEASE	x

Creating text outlines	270
Exploring Retype (Beta)	271

10 ORGANIZING YOUR PROJECT WITH LAYERS

Starting the lesson
Understanding layers
Creating layers
Creating a sublayer280
Editing layers and objects
Locating content in the Layers panel
Dragging content between layers
Trying another method for dragging content to a layer $\dots 285$
Locking and hiding layers
Reordering layers and content
Viewing individual layers or objects as outlines
Pasting layers from another document
Merging layers into a new layer
Searching and filtering layers
Creating a clipping mask

11 GRADIENTS, BLENDS, AND PATTERNS





Modifying a blend	319
Creating a smooth color blend	320
Editing a smooth color blend	321
Getting creative with patterns	322
Applying an existing pattern	322
Creating your own pattern	323
Applying your pattern	325
Editing your pattern	326
Putting it all together	326

USING BRUSHES TO CREATE AN AD

-	- Parc	nental	7	
AL II	M	N	1	
1	X	V	K	
ι	JPL	/ _ I F	Tal	
"		011.0	RA	

- Purementali	Starting the lesson
7	Working with brushes
A1	Using Calligraphic brushes
	Applying a Calligraphic brush to artwork
XVIL	Editing a brush
	Drawing with the Paintbrush tool
11/	Editing paths with the Paintbrush tool
JPLIFT	Smoothing with the Paintbrush tool
A LEAF OIL BLEND	Editing the Paintbrush tool options
3	Removing a brush stroke
	Using Art brushes
	Applying an existing Art brush
	Creating an Art brush
	Editing an Art brush
	Using Pattern brushes
	Creating a Pattern brush
	Applying the Pattern brush
	Editing a Pattern brush
	Using Bristle brushes
	Changing Bristle brush options
	Painting with a Bristle brush
	Grouping Bristle brush paths
	Working with the Blob Brush tool
	Drawing with the Blob Brush tool 352
	Editing with the Eraser tool 354

13 EXPLORING CREATIVE USES OF EFFECTS AND GRAPHIC STYLES 356



Starting the lesson
Using the Appearance panel
Editing appearance attributes
Adding another fill to content
Adding multiple strokes and fills to text
Reordering appearance attributes
Using live effects
Applying an effect
Editing an effect
Styling text with a Warp effect
Temporarily disabling effects to make edits
Applying a Photoshop effect
Applying 3D effects
Using graphic styles
Creating and applying a graphic style
Updating a graphic style
Applying a graphic style to a layer
Scaling strokes and effects

14 EXPLORING TIME-SAVING TECHNIQUES

Starting the lesson	388
Working with symbols	389
Using default Illustrator symbol libraries	389
Transforming symbol instances	391
Editing a symbol	392
Working with dynamic symbols	393
Creating a symbol	394
Practice editing a symbol	396
Breaking a link to a symbol	396
Replacing symbols	397
Working with Creative Cloud libraries	399
Adding assets to a Creative Cloud library	399
Using library assets	401
Updating a library asset	402
Creating a mockup	403
Working with global editing	405

15 PLACING AND WORKING WITH IMAGES



Starting the lesson	410
Placing image files	
Placing an image	
Transforming a placed image	
Cropping an image	
Placing a Photoshop document	
Placing multiple images	
Masking content	420
Masking content with a shape	421
Exploring the mask you made	421
Editing the mask and image	422
Automatic masking for an image	423
Editing the image mask	424
Creating an opacity mask	425
Editing an opacity mask	427
Working with image links	428
Finding link information	428
Embedding and unembedding images	429

16 SHARING PROJECTS



Starting the lesson4	134
Fixing the missing image link4	135
Packaging a file4	136
Creating a PDF4	138
Exporting artboards and assets4	139
Exporting artboards4	139
Exporting assets4	140
Inviting others to edit4	43
Sharing for review4	45

INDEX

Contributors	;	464
Production N	lotes	464

432

3 MAKE A LOGO WITH SHAPES

Lesson overview

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

- Create a new document.
- What is a bleed?
- Use tools and commands to create a variety of shapes.
- Understand Live Shapes.
- Create rounded corners.
- Discover other ways to round corners.
- Work with drawing modes.
- Use Image Trace to create shapes.
- Simplify paths.
- Explore Text to Vector Graphic (Beta).
- Gen Shape Fill (Beta).



This lesson will take about 75 minutes to complete. To get the lesson files used in this lesson, download them from the web page for this book at *peachpit.com/IllustratorCIB2025*. For more information, see "Accessing the lesson files and Web Edition" in the Getting Started section at the beginning of this book.



Creating shapes and editing them are essential to creating Illustrator artwork. In this lesson, you'll create a new document and then use the shape tools to create and edit a series of shapes for a logo.

Starting the lesson

In this lesson, you'll explore the different methods for creating artwork by using the shape tools and other methods to create a logo for an adventure company.

- 1 To make sure that Adobe Illustrator behaves exactly as described in this lesson, reset the Adobe Illustrator preferences. See "Restoring default preferences" in the "Getting Started" section at the beginning of the book.
- 2 Start Adobe Illustrator.
- 3 Choose File > Open. Open L3_end.ai in the Lessons > Lesson03 folder you copied onto your hard disk.

This file contains the finished illustrations that you'll create in this lesson.

4 Choose View > Fit Artboard In Window; leave the file open for reference, or choose File > Close.



Creating a new document

To start, you'll create a new document for the logo.

- 1 Choose File > New.
- 2 In the New Document dialog box, change the following options:
 - Click the Print category at the top of the dialog box.
 - Click the Letter blank document preset, if it isn't already selected.

You can set up a document for different kinds of output, such as print, web, video, and more, by choosing a category.



For example, if you are designing a flyer or poster, you can select the Print category and select a document preset (size). The document will be set with the units in points (most likely), the color mode as CMYK, and the raster effects to High (300 ppi)—all optimal settings for a print document.

• Note: If you have not already downloaded the project files for this lesson to your computer from your Account page, make sure to do so now. See the "Getting Started" section at the beginning of the book.

- On the right side of the dialog box, in the Preset Details area, change the following:
 - Enter a name for the document under Preset Details: AdventureLogo.

The name will become the name of the Illustrator file when you save it later.

- Units: Choose Inches from the units menu to the right of the Width field.
- Width: Select the Width value, and type 8.
- Height: Select the Height value, and type 8.
- Orientation: Portrait (P).
- Artboards: 1 (the default setting).

At the bottom of the Preset Details section on the right side of the dialog box, you will also see Advanced Options and a More Settings button (you may need to scroll to see it). They contain more settings for document creation that you can explore on your own.

4 Click Create to create a new document.

Saving your document

With the document open, now you'll save it locally.

- 1 Choose File > Save.
- 2 If the Cloud Document dialog box opens, click Save On Your Computer to save the document locally.

To learn more about cloud documents, see the sidebar "What are cloud documents?" after this section.

- 3 In the Save dialog box, set the following options:
 - Filename: AdventureLogo.ai
 - Saved in the Lessons > Lesson03 folder.
 - Leave Adobe Illustrator (ai) chosen from the Format menu (macOS) or Adobe Illustrator (*.AI) chosen from the Save As Type menu (Windows).
- 4 Click Save.



• Note: You can set the units to whatever makes sense to you. Know that inches are used throughout the lesson. There is a note in the "Creating rectangles" section that will help when it comes to entering the value I give you in inches.





Adobe Illustrator (.ai) is called a *native format* and is your working file. That means it preserves all Illustrator data so you can edit everything later.

5 In the Illustrator Options dialog box that appears, leave the options at their default settings, and click OK.

The Illustrator Options dialog box is full of options for saving the Illustrator document, from specifying a version for saving to embedding any files that are linked to the document. You usually won't have to change anything in there.

- 6 Choose Window > Workspace and make sure "Essentials" is selected, and then choose Window > Workspace > Reset Essentials to reset the workspace.
- 7 Look in the Properties panel on the right.

With nothing selected in the document, you'll see settings for the document like the units, navigating and editing artboards, showing and hiding useful features like rulers and guides, and much more.

You can click the Document Setup button to set options like the document bleed and more.

8 Choose View > Fit Artboard In Window to ensure that you can see the entire artboard (page).







What is a bleed?

To learn about document bleed, check out the video *Edit document settings*, which you'll find in the Web Edition. For more information, see the "Web Edition" section of "Getting Started" at the beginning of the book.

What are cloud documents?

Aside from saving your Illustrator documents locally, you can also save them as cloud documents. A *cloud document* is an Illustrator document that is stored in Adobe Creative Cloud and can be accessed *anywhere* you sign in to Illustrator.

Here's how to save as a cloud document and access cloud documents.

 After you create a new document or open a document from your hard drive, you save the file as a cloud document by choosing File > Save As.

The first time you do this, you will see a Cloud Document dialog box with options to save as a cloud document or save on your computer.

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• To save as a cloud document, you would click the Save To Creative Cloud button. You can see it in the previous figure.

If instead of the Cloud Document dialog box you see the Save As dialog box and want to save as a cloud document, you can click the Save Cloud Document button.

 In the dialog box that appears, you can change the name and click the Save button to save the document to Creative Cloud.

When working on cloud documents, changes are automatically saved, so the document is always up to date.

Tip: If you change your mind and want to save the file locally, you can click On



Your Computer in that dialog box (an arrow is pointing to it in the previous figure).



Want to open a cloud document? Choose File > Open. In the Open dialog box, click the Open Cloud Document button.

You can then open a cloud document from the dialog box that appears.

Working with basic shapes

In the first part of this lesson, you'll create all kinds of shapes, including rectangles, ellipses, and polygons.

Shapes you create are made of *anchor points*, with paths connecting the anchor points.

For instance, a basic square is made of four anchor points on the corners, with paths connecting those anchor points (see the upper figure at right). A shape is referred to as a *closed path* because the ends of the path are connected.

A path like a line is an *open path*. An open path has distinct anchor points on each end, called *endpoints* (see the figure at right). You can fill both open and closed paths with color, gradients, or patterns.





Examples of open paths

Creating rectangles

The main logo art for the adventure company will be a bear. First we'll create the larger rectangle that will be the body of the bear.

- 1 Select the Rectangle tool () in the toolbar.
- 2 Near the top of the artboard, drag to create a rectangle, and then release the mouse button. Don't worry about the size yet; you'll resize it shortly.



As you drew the shape, did you happen to notice the width and height in the little gray tool tip next to the pointer? That is called the *measurement label*. That label is a part of Smart Guides (View > Smart Guides).

3 Move the pointer over the blue center dot of the rectangle (called the *center point widget*). When the pointer changes (▶_{iii}), drag the shape into the middle of the artboard.

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☐ (Constitution)



With the Rectangle tool

selected, this is how you move a shape. Otherwise, you'll draw a new one!

Next, you'll create a smaller rectangle using a more precise method to serve as the head of the bear.

- 4 With the Rectangle tool () selected, click in an empty area of the artboard to open the Rectangle dialog box.
- 5 In the dialog box, change the Width to 2.3 inches and the Height to 1.3 inches. Click OK to create a new rectangle.



The rectangle is created wherever you click. Creating a rectangle this way is useful when you need to make a shape of a specific size.

Editing rectangles

All of the main shape tools create *Live Shapes*. Live Shapes have attributes, such as width, height, rotation, and corner radius, that are editable without switching from the drawing tool you are using. With two rectangles created, you'll make some changes to them so they look more like the body and head of a bear and are scaled relative to each other.

- 1 Select the Selection tool (\blacktriangleright) in the toolbar.
- 2 Click the View menu and make sure that Smart Guides are on. A checkmark will appear next to Smart Guides in the menu if they are.

You can turn the Smart Guides on when they are useful. In this case, when you resize one of the rectangles, you will see a gray measurement label telling you its size.



3 Click anywhere in the larger rectangle to select it.

In Lesson 2 you learned about the bounding box and its points. Now you'll resize the rectangle using them!

4 Drag the bottom, middle point of the rectangle until you see a height of approximately 4.6 inches in the measurement label (the gray tool tip next to the pointer), release the mouse button.

Since your rectangle might be bigger or smaller, I didn't tell you which way to drag (up or down).



You can also resize shapes with more precision in the Properties panel, which is what you'll do next.

5 In the Transform section of the Properties panel on the right, make sure Maintain Width And Height Proportions to the right of Width (W:) and Height (H:) is *unselected* (it looks like this: ^N).



Setting Maintain Width And Height

Proportions (turning it on) is useful when you change the height or the width and want the other value to change proportionally.

6 Select the Width (W:) value, and type **2.9 in**. Press Return or Enter to accept the change.



Now you'll rotate the larger rectangle so the bear body is horizontal.

7 Move the pointer just off a corner of the larger rectangle. When you see rotate arrows (\$\scilengty\$), drag clockwise to rotate the shape. As you drag, press the Shift key to constrain the rotation to increments of 45 degrees. When the rectangle is horizontal, release the mouse button and then the key.



Tip: Look in the Properties panel and you'll also see a Rotate value. There are multiple ways to do almost everything in Illustrator. For instance, if you wanted to rotate more freely—at some random angle—you might do it by dragging, rather than choosing a rotation angle in the Properties panel.

► Tip: Why are we being so precise? In Illustrator you can work as loosely or precisely as you need. I want all of our bear logos to be about the same size and shape, so some precision is necessary! Now you'll drag the smaller rectangle onto the larger rectangle. With the Selection tool, you can drag from anywhere within the shape bounds, as long as it is filled with a color, pattern, or gradient.

- 8 Drag the smaller rectangle onto the larger rectangle where the head of the bear should go.
- **9** Choose File > Save to save the file.



Changing the color of the shapes

By default, shapes are filled with white and have a black stroke (border). Next, you'll change the color of both rectangles to brown so they start to look more like a bear.

- With the smaller rectangle selected, click the Fill color box (□) in the Contextual Task Bar.
- 2 In the panel that opens, make sure that Swatches (Select a brown color to fill the shape.



Click the Stroke option () in the Contextual Task Bar and change the Stroke Weight to 0 (zero).



4 Click the larger rectangle to select the body of the bear.

- 5 For practice, change the fill color to the same brown and set the Stroke Weight to 0 (zero) following the previous steps.
- **6** Choose Select > Deselect.

Rounding rectangle corners by dragging

The rectangles you created don't look very much like a bear yet. Luckily, we can round the corners of the rectangles to make them more interesting.

- 1 Select the larger rectangle.
- 2 Choose View > Zoom In once or twice.

You need to see the Live Corners widgets (•) in each corner of the rectangle. If you are zoomed out far enough, the Live Corners widgets are hidden on the shape. Zoom in until you see them.

3 Drag any of the Live Corners widgets (•) in the rectangle toward the center to round all of the corners. Drag until the corners are as round as they can be.





Drag a Live Corners widget far enough and a red arc appears on the shape, indicating you've reached the maximum corner radius.

4 Click to select the smaller brown rectangle (the head of the bear), and drag any of the Live Corners widgets (^(o)) to round the corners a little.







Rounding individual corners

You can also round individual corners using the Selection tool. Next, you'll explore rounding the individual corners of the head of the bear.

 With the smaller rectangle selected, click the Live Corners widget (
) in the upper-right corner to select it, and then release.

If you move the pointer away, you will see that the widget has changed in appearance, from this (() to this (). If you drag that corner widget now, it will be the only one that changes.

2 Now, drag the selected corner widget away from the center of the shape to remove the rounding.

Be careful! If you don't click, release, and then drag, you won't select just the one corner widget. Instead, you'll round them all!

- **3** Follow the previous steps to remove the rounding from the lower-left corner of the rectangle as well.
- 4 Click the corner widget in the lower-right corner and release to select it.
- **5** Then drag it toward the opposite corner, rounding the corner as much as possible.



- **6** Choose Select > Deselect.
- 7 Choose File > Save.











no longer seer

88 LESSON 3 Make a Logo with Shapes

Discover other ways to round corners

There are so many ways to round corners. To learn more ways, check out the video *Discover other ways to round corners*, which you'll find in the Web Edition. For more information, see the "Web Edition" section of "Getting Started" at the beginning of the book.

Changing a corner type

Aside from dragging to round corners, you can also use the Properties panel to change the type of corner radius and make more precise adjustments. The three types are shown in the figure at right.

Now you'll make a copy of the larger rectangle and change the corner types for a few corners. This rectangle will become the belly of the bear.

- 1 Choose View > Fit Artboard In Window to see the entire artboard.
- 2 Select the larger rectangle, and to copy it, choose Edit > Copy, and then paste it by choosing Edit > Paste.
- **3** Drag the copy just below the other rectangles.

You might need to select the two original rectangles and move them up a bit. If you do, make sure to select the copy again before continuing.

- 4 In the Properties panel, click More Options(•••) in the Transform section to show more options. It's circled in the following figure.
- 5 Ensure that Link Corner Radius Values is off—it should look like this: S. You can click the button to toggle it on and off. It's circled in the figure.

Each corner value in the panel corresponds to a corner in the shape.

For the next step, *pay attention to which corner is adjusted in the figure.* Since the rectangle was rotated earlier, the corner values in the panel no longer seem to correspond to the correct corner in the shape.







6 Change the lower-left and lower-right corners of the rectangle to 0 (zero).



Aside from changing the corner radius, you can also change the corner type. You can choose between Round (default), Inverted Round, and Chamfer.

7 Change the Corner Type setting for the upper-left corner and upper-right corner of the rectangle to Chamfer (



8 Make the corner radius for the same corners smaller—around 1 inch.



- 9 Press the Escape key to close the options panel, and leave the rectangle selected.
- **10** Drag a side handle to make the shape narrower. See the figure.



Creating an ellipse

The Ellipse tool is used to create ellipses and perfect circles. Next, you'll create an ellipse with the Ellipse tool (\bigcirc) to make an eye for the bear.

Press and hold the mouse button on the Rectangle tool () in the toolbar, and select the Ellipse tool ().

When you draw the circle that will become the eye of the bear, you'll can make it bigger than it will be in the end so you can work with it more easily.

2 In an empty area of the artboard, Shift-drag to make a perfect circle that will become the eye of the bear. As a reference, I made mine about 1 inch in width and height. Release the mouse button and then the key.



Zoom in to the circle by choosing View > Zoom In a few times or by pressing
 Command and + (macOS) or Ctrl and + (Windows) a few times.

Editing an ellipse

With the eye shape (circle) created, now you'll change the appearance and put it in place.

 Press the letter D on your keyboard to apply the default of a white fill and black stroke.

This is a keyboard shortcut that I use a lot to remove formatting from shapes and get them back to a default (that's what the "D" stands for) appearance of a white fill and black stroke!

2 Change the Stroke Weight setting in the Properties panel to **19 pt**.





You could also have used the same method as before to change the stroke weight—using the Contextual Task Bar. Now, we need the fill to be black and the stroke to be white. So the opposite of what is applied to the current shape.

► **Tip:** When an ellipse is a perfect circle, you will see magenta crosshairs in it as you are drawing it (with Smart Guides turned on [View > Smart Guides]). **3** To swap the fill and stroke colors, click the Swap Fill And Stroke arrow (****) toward the bottom of the toolbar on the left.



- **4** To see everything, choose View > Fit Artboard In Window.
- 5 Drag the circle by the blue center dot (the center point widget) onto the head of the bear, as you see in the figure.

Next you'll make the eye smaller. By default, stroke weights do not scale (they stay the same). So if you were to make the circle a lot smaller, for instance, the stroke weight would stay 19 pt and look rather large. See the figure for an example. To scale the stroke as the circle scales, you can turn on an option.

- 6 Click the More Options button (••••) in the Transform section of the Properties panel. Select Scale Strokes & Effects in the panel that opens.
- 7 Shift-drag the circle to make it smaller. When it's small enough to look good, release the mouse button and then the key.

8 Drag the eye where you want it on the bear head.

9 Choose File > Save.









Changing stroke alignment

As you've seen, strokes are borders of an object or path. By default, strokes *center* on a path, which means that along the path, half the stroke weight is on one side and half is on the other.

You can adjust this alignment so the stroke appears in the center (default), inside, or outside. Next, you'll change the stroke so you can see more of the fill of the eye.



- 1 With the eye circle still selected, zoom in by pressing Command and + (macOS) or Ctrl and + (Windows) a few times.
- 2 Click the word "Stroke" in the Properties panel to open the Stroke panel.
- 3 In the Stroke panel, click the Align Stroke To Outside button (E) to align the stroke to the outside edge of the circle.



I hope you can see the difference when the stroke is aligned to the outside. Zoom in if you need to. I made the eye a little smaller after aligning the stroke.

4 Choose Select > Deselect.

Creating a pie shape from an ellipse

Ellipses have a pie widget that you can drag to create a pie shape. Next, you'll make a new circle and turn it into an ear.

- With the Ellipse tool (
) still selected, change the Stroke Weight in the Properties panel to 0.
- **2** Shift-drag to make another circle in an empty area of the artboard.

This circle will become the ear of the bear—but you can make it bigger and scale it down later, if you want.

With it selected, *do you see the pie widget* (-••) *on the right side of the shape?* You can drag that to make a pie shape.





3 Drag the pie widget clockwise around the bottom of the ellipse, and then release.



Notice that there is another pie widget in the same place from which you started dragging this one. The pie widget you just dragged is called the *pie start angle*, and the other pie widget is called the *pie end angle*.

4 Drag the other pie widget (the *pie end angle*) from the same place counterclockwise around the top of the ellipse. Don't worry about how far.





Tip: Need to remove the pie angle change and go back to a whole circle? Double-click either pie widget!

The ear shape you are making will look best if we see exactly half of it. That requires the two pie widgets you dragged to be at precise angles to each other—showing 180 degrees of the circle. You can adjust them with precision in the Properties panel.

- 5 In the Contextual Task Bar, click the Ellipse Properties.
- 6 Choose 90° from the Pie Start Angle (♥) menu.



• Note: The figure shows the result after choosing 270° from the Pie End Angle menu.

- 8 Drag the half-circle ear on top of the bear head.
- **9** With the ear still selected, change the Fill color in the Properties panel to a lighter brown than the bear head.

10 Try adjusting the size of the ear if you need to make it look better, and rotate it slightly.

Want a little practice? You could make a new ear (or copy) to give the bear two ears! The new ear might look better if it were behind the bear head—so you can choose Arrange > Send To Back.



Drawing lines

Lines created with the Line Segment tool are Live, and similarly to Live Shapes, they have many editable attributes after they are drawn. Next, you'll create a line with the Line Segment tool. This line will become a leg of the bear.

- Press and hold on the Ellipse tool (○) in the toolbar, and select the Line Segment tool (∠).
- 2 In an empty area of the artboard, press and drag in any direction to draw a line. *Don't release the mouse button yet.*
- 3 As you drag, press the Shift key to constrain the line to a multiple of 45 degrees. Notice the length and angle in the measurement label next to the pointer as you drag. Drag directly to the right until the line is around 0.5 inches in length. Release the mouse button and then the key.



Editing a line

Now you'll change the color of, rotate, and change the stroke weight of the line.

1 Click the Stroke color box in the Properties panel, and make sure that the Swatches option () is selected in the panel that appears. Select the same brown color as the body of the bear.



Since this is a leg, and a bear leg is not horizontal, it needs to be rotated. Yes, you could have drawn it that way, but then we wouldn't explore rotating lines!

2 With the line selected, change the stroke weight to **90 pt** in the Properties panel to the right of the document.



3 With the new line selected, move the pointer just off the right end. When the pointer changes to a rotate arrow (\$\scrime\$), press and drag up until you see an angle of 90° in the measurement label next to the pointer. That will make the line vertical.





- 4 Choose View > Fit Artboard In Window.
- 5 Select the Selection tool (▶) in the toolbar, and drag the line by the center point to make it a leg for the bear.

It's a little short—so let's make it longer. For the following figures, I moved the belly shape that was below the bear out of the way.



Note: If you resize a line in the same trajectory as the original path, it will snap to that same trajectory. You will also see the words "Line Extension" and "on" appear at opposite ends of the line. These appear because the Smart Guides are turned on.

- **6** Drag the end of the line to make the leg longer.
- 7 Make a copy by Option-dragging (macOS) or Alt-dragging (Windows) the line to where the other leg should be. Release the mouse button and then the key.







Creating polygons

Using the Polygon tool ((), you can create shapes with multiple straight sides. By default, the Polygon tool draws hexagons (six-sided shapes). What's different about polygons is that they are drawn from the center. Polygons are also Live Shapes, which means attributes such as size, rotation, number of sides, and more remain editable after you create them.

Now you'll create several polygons to make the claws of the bear.

- Press and hold the Line Segment tool (∠) in the toolbar, and select the Polygon tool (○).
- 2 Choose View > Smart Guides to turn them off.
- **3** Choose Select > Deselect.
- **4** Press the letter D on your keyboard to apply the default of a white fill and a black, 1-pt stroke. Otherwise, the stroke will be a rather large 90 point!
- **5** Move the pointer into an empty area of the artboard. Drag to the right to draw a polygon. As you drag, press the Shift key to straighten the shape. Release the mouse button and then the key.



Notice that you didn't see the gray measurement label (the tool tip), since it's part of the Smart Guides that you turned off. Smart Guides can be helpful in certain situations, such as when more precision is necessary—maybe you want to know how large the shape is—and can be toggled on and off when needed.

- 6 Click the Fill color box (☑) in the Properties panel, make sure that the Swatches option (ⓐ) is selected, and change the color to a lighter brown.
- 7 Change the Stroke Weight in the Properties panel to 0 (zero).
- 8 Choose View > Smart Guides to turn them back on.

Now you'll make it look more like a claw by turning the shape into a triangle.

With the Polygon tool still selected, drag the little side widget (◊) on the right side of the bounding box up to change the number of sides to 3—making a triangle.

10 Choose File > Save.



Editing a polygon

Now you'll change the size of the polygon and create a nail from it.

- 1 Select the Selection tool (\blacktriangleright) in the toolbar.
- 2 Drag the polygon to the bottom of one of the legs. See the figure for where.
- 3 Zoom in to the claw shape by pressing Command and + (macOS) or Ctrl and + (Windows) a few times.
- 4 To make it smaller, press the Shift key and drag a corner to change the width and height proportionally (together). When it looks like the size of a proper claw, release the mouse button and then the key.

With the polygon shape now created, you'll round one of the corners so the claw is a little less sharp. We need to round only one of the corners, so you will select the corner you want to round.

With the Selection tool selected, a polygon shows only a single Live Corner widget, so you can't round just one corner with the Selection tool. To round only one corner, you will use the Direct Selection tool.

- 5 Select the Direct Selection tool in the toolbar. Click the Live Corners widget(()) in the corner showing in the figure.
- 6 Drag the selected Live Corners widgets toward the center of the triangle to round the one corner a little.









• Note: Depending on how big your polygon was to start, you made it either larger or smaller in this step to match the height we suggest.



l only

- 7 Select the Selection tool (▶) and drag the triangle into position like you see in the figure.
- 8 To make a copy, choose Edit > Copy and then Edit > Paste In Front.

A copy is placed directly on top of the original.

9 Drag it into place on the other leg, like you see in the figure. You may need to zoom out.





Creating a star

Next, you'll use the Star tool (\clubsuit) to create a star that will become the tail of the bear. The Star tool also creates Live Shapes, so editing the star after the fact is made easy.

- 1 Press and hold the Polygon tool (\bigcirc) in the toolbar, and select the Star tool (\diamondsuit).
- 2 In an empty area of the artboard, drag to make a star. As you drag, press Shift to straighten it. Drag until the measurement label shows a width of about 1 inch. Release the mouse button and then the key.
- **3** To change the number of points on the star, drag the Side widget down to increase the number to nine.
- **4** To make the arms shorter, drag the Radius 1 widget toward the center.









5 Click the Fill color box () in the Properties panel, make sure that the Swatches option () is selected, and change the color to a darker brown.

- **6** Drag it into position, as you see in the figure.
- 7 Click the Arrange button in the Properties panel and choose Send To Back to send the star behind the rest of the bear.







Working with drawing modes

Illustrator has three different drawing modes that allow you to draw shapes in different ways. They are found near the bottom of the toolbar: Draw Normal, Draw Behind, and Draw Inside.

• **Draw Normal mode:** Every document starts by drawing in Normal mode, which stacks shapes on top of each other.



- **Draw Behind mode:** This allows you to draw behind all artwork on a layer if no artwork is selected. If artwork is selected, the new object is placed beneath the selected object.
- **Draw Inside mode:** This mode lets you draw objects or place images inside other objects, automatically creating a clipping mask of the selected object.

Using Draw Inside mode

Now you'll add a nose (and a few other things) to the bear by drawing and pasting inside of shapes using the Draw Inside drawing mode. This can be useful if you want to hide (mask) part of the artwork. You can draw, place, or paste content into a shape with Draw Inside mode active.

- 1 Select the Selection tool (\blacktriangleright) and click to select the bear's head.
- 2 Choose Draw Inside from the Drawing Modes menu (), near the bottom of the toolbar.
- 3 Press and hold on the Star tool (☆) in the toolbar and select the Ellipse tool (○).



• Note: A clipping mask is a shape that hides parts of other artwork. You will learn more about clipping masks in Lesson 15, "Placing and Working with Images."

• Note: If the toolbar you see is displayed as a double column, you will see all three of the drawing modes as buttons toward the bottom of the toolbar.

- 4 Draw a circle on the bear head that will become a nose. See the following figure.
- **5** Change the fill color to black.



6 With the Selection tool selected, drag the circle into position where the nose might go.

If you drag the circle so it extends beyond the edges of the bear's head, you will see that part is hidden because it is inside of the bear head.

Now you'll draw a line to give the bear a smile.

- 7 Press and hold the Ellipse tool in the toolbar and select the Line Segment tool. Draw a straight line that will be the mouth of the bear.
- 8 Change the Stroke Weight to 2 pt and the Stroke Color to black.





9 Click the Drawing Modes button () toward the bottom of the toolbar. Choose Draw Normal.

When you're finished adding content inside a shape, you can choose Draw Normal so that any new content you create will be drawn normally (stacked rather than drawn inside).



Practicing with Draw Inside mode

Now you'll take the brown chamfered corner rectangle and paste it into the body of the bear to make the belly.

- 1 With the Selection tool (\blacktriangleright), click the rectangle with chamfered edges to select it.
- 2 Change the fill color to a lighter brown.
- 3 Choose Edit > Cut to cut it from the artboard.
- 4 Select the body of the bear.
- 5 Choose Draw Inside from the Drawing Modes menu (<), near the bottom of the toolbar.
- 6 Choose Edit > Paste.

The artwork is pasted within the bear body shape. You'll get it into place in the next section.

7 Click the Drawing Modes button(() toward the bottom of the toolbar.Choose Draw Normal.



8 Choose Select > Deselect, and then choose File > Save.

Editing content drawn inside

Next you'll make adjustments to the bear's belly to see how you can edit an object inside another object after you create it.

With the Selection tool (▶) selected, try clicking the lighter bear belly shape. You'll wind up selecting the darker brown bear body that it's inside of.



The bear body is now a mask (called a *clipping path*). The bear body and the belly artwork you pasted inside make a *clip group*. Looking at the top of the Properties panel, you will see "Clip Group."

Tip: As with a group, you can also doubleclick the clip group to enter Isolation mode. 2 With the clip group selected, click the Isolate Mask button in the Properties panel to enter Isolation mode. Now you can select either the clipping path (the brown bear body shape) or the lighter brown artwork pasted within.



3 Drag the lighter brown belly shape to look more like you see in the figure.

You can use the arrow keys to move it, make it smaller, and perform any other type of transformation as well.

4 Press the Escape key to exit Isolation mode.



You'll probably see that the legs are in front of the bear body. Let's put them behind.

5 Drag across both the legs and the claws (triangles). Choose Object > Arrange > Send To Back.

I moved my legs up and farther apart.

6 Choose Select > Deselect.



Pasting artwork between documents

Next you'll paste the bear logo you've created so far into another Illustrator document that contains a flyer design.

- 1 To select all of the bear artwork, choose Select > All On Active Artboard.
- **2** Copy it by choosing Edit > Copy.
- 3 Choose File > Open. Open L3_flyer.ai in the Lessons > Lesson03 folder you copied onto your hard disk.
- 4 Click in the blank artboard on the right to make it active, and fit the artboard in the window by pressing Command+0 (macOS) or Ctrl+0 (Windows).
- **5** Choose Edit > Paste to paste the bear logo.

- 6 Click the Group button in the Contextual Task Bar below (or above) the artwork to group it.
- **7** Choose Select > Deselect.



Using Image Trace to convert images into editable vector art

In this part of the lesson, you'll learn how to work with the Image Trace command, which converts a raster image, like a JPEG, into editable vector artwork. Tracing can help turn something you drew on paper—for instance, a logo, a pattern or texture, or hand-drawn type—into editable vector art. In this section, you'll trace hand-drawn text that is part of the logo type.

- 1 Choose File > Place. In the Place dialog box, select the hand-drawn-text.jpg file in the Lessons > Lesson03 folder on your hard disk, leave all options at their defaults, and click Place.
- **2** Click in the artboard to place the image.
- 3 If you need to, drag the image you just placed and the bear so they don't overlap.
- 4 Select the TREK image, and to center the image in the Document window, choose View > Zoom In a few times.
- 5 With the image selected, click the Image Trace button in the Contextual Task Bar.

This image is converted into vector and is now called an *image tracing object*. You can't edit the vector content yet, but you can still try other tracing settings.

An image tracing object comprises



the source image and the tracing result, which is the vector artwork. By default, only the tracing result is visible. However, you can change the display of both the original image and the tracing result.

6 Choose 3 Colors from the Preset menu in the Properties panel.



You can choose from trace presets, depending on the raster image you are tracing.

7 Click the Open The Image Trace Panel button () in the Properties panel.

The buttons at the top of the Image Trace panel are for converting the image to grayscale, black and white, and more.

Below the buttons at the top, you'll see the Preset menu. This menu has the same options as in the Properties panel.

The Mode menu allows you to change the color mode of the resulting artwork

(color, grayscale, or black and white). The Palette menu is also helpful in limiting the color palette or assigning colors from a color group.

- 8 In the Image Trace panel, click the triangle to the left of the Advanced options to reveal them. Change the following options in the Image Trace panel, using these values as a starting point:
 - Colors: **2**
 - Paths: **100%** (For path fitting. A higher value means a tighter fit.)
 - Corners: **25%** (A higher value means more corners.)
 - Noise: **50 px** (Reduce noise by ignoring areas of a set pixel size. A higher value means less noise.)



> Tip: You can deselect Preview at the bottom of the Image Trace panel when modifying values so Illustrator won't apply the trace settings to what you are tracing every time you make a change.



- **9** In the panel still, select Ignore Color. This lets you sample a color that will be excluded from the tracing.
- 10 Click the Eyedropper icon () next to the Ignore Color option and click to sample the yellow color in the text background.

There are a lot of options in the Image Trace panel for you to explore. You will see an option for Simplify. I'm pointing that out because you will learn about a



Simplify command with more options in the next section.

- **11** Close the Image Trace panel.
- **12** With the text still selected, click the Expand button in the Properties panel.

The text is no longer an image tracing object but is composed of shapes and paths that are grouped together.



Cleaning up traced artwork

Since the text image has been converted to shapes using the Image Trace command, you can refine the shapes to make the text look better. You'll apply the Simplify command to make the edges a bit smoother. The Simplify command reduces the number of anchor points the path is made of without affecting the overall shape much. It can be used to remove imperfections in the traced path when using Image Trace.

1 With the text selected, choose Object > Path > Simplify.

In the Simplify options that appear, the Reduce Anchor Point slider is set to an auto-simplified value by default.

2 Drag the slider all the way to the left to remove a lot of points and see what the text looks like.



Dragging the slider to the left reduces the anchor points and simplifies the path. The closer the slider is to the minimum value on the left, the fewer the anchor points there are, but the path will most likely look different. The closer the slider is to the maximum value, the more it will look like it did before you applied the Simplify command.



4 Click the Advanced Options (♣) in the Simplify options bar. In the dialog box that opens, make sure Preview is selected to see the changes happen.

You can see the original number of anchor points (Original) of the text and the number of anchor points after applying the Simplify command (New).

5 In the Simplify dialog box, drag the Simplify Curve slider all the way to the right (Maximum).

This is a great starting point, and the artwork will look like it did before you applied the Simplify command.

- **6** Drag the same Simplify Curve slider to the left until you think it looks smoother on the edges. I set the Simplify Curve option to around 65%.
- 7 Do the same for the Corner Point Angle Threshold. Drag the slider until there are fewer ripples in the edge of the text. I set it to 94°.



For the Corner Point Angle Threshold, if the angle of a corner point is less than the angle threshold, the corner point is not changed. This option helps keep corners sharp, even if the value for Curve Precision is low.

8 Click OK.

- 9 Choose View > Fit All In Window.
- **10** Select the Eyedropper tool (𝒴) from the toolbar and click in the "OUTDOORS" text in the flyer to sample the color and apply it to the "TREK" text.



Adding the text and bear logo to the flyer

Now you'll move the bear logo artwork and the text into place.

 With the Selection tool (▶) selected, drag the bear logo and the text into the flyer and arrange them however you like.

If you want to resize either, do so with the Selection tool, pressing the Shift key to maintain proportions.



2 Choose File > Save.

Using Text To Vector Graphic (Beta)

Using Text To Vector Graphic, you can generate all kinds of vector content based on a simple everyday language text prompt. As of this writing, this feature is still in beta, *so it will change over time*. Keep that in mind as you go through this section. Also, we will touch on features that you can explore more on your own. We will use this feature to create a sunshine icon for our flyer.

1 Choose View > Fit Artboard In Window to fit the flyer in the Document window.

To generate artwork with Text To Vector Graphic, you can either select a placeholder shape—like a rectangle—and replace it or generate artwork that is added to your design. You'll add a rectangle to the flyer so it is used as a placeholder and sized roughly as we need it to be.

2 Select the Rectangle tool () from the shape tools in the toolbar.

3 Draw a rectangle at the top of the design.

- 4 Click the Generate Vectors (Beta) button in the Contextual Task Bar beneath the artwork.
- te Vectors (Beta) ntextual Task Bar ork.
- 5 Type in a prompt to make a sunshine icon. I typed **yellow sun with rays**.

Most of the time you want to be more descriptive with your prompts to get the desired artwork. But this prompt worked well for me.

6 Click the View All Settings option (♣) in the Contextual Task Bar.

In the Generate Vectors (Beta) dialog box that opens, you have a lot of options you can set to refine the artwork generated.

The thumbnails on the right side of the dialog box are example prompts you can click to start from. Hover over a thumbnail and you can see the prompt used.

There are currently three types of artwork you can generate using this method. You can see them in the Content Type section of the dialog box:

rompt on (🏟)





• Scene: Creates an entire vector scene with many elements.



- **Subject:** Creates artwork without a background. Choose this if you want to add something to an existing scene or design.
- Icon: Creates vector artwork that is low in detail without a background.
- 7 Select Icon and make sure the Detail slider is farther to the left so the sunshine has less detail.

There are a number of Style options in the dialog box that you can use to control the appearance of the generated artwork. I urge you to explore those. Here is a high-level overview of what each is:



- **Style Reference**: You can sample artwork in your document to match the style of it.
- Effects: This is a fun way to control the "look" of your artwork.
- **Color and Tone**: Specify the number of colors and/or what colors to use in the generated artwork.
- 8 Click the Style Reference button. In the upper-right of the dialog box, turn off Auto.



That way, it will follow the suggested prompt word "yellow." Otherwise, it will make the generated art aqua or some other color widely used in the artwork on the artboard, by default.

9 Click Generate at the bottom of the dialog box.

The first time you generate, a dialog box may appear asking you to agree with the user guidelines—do so, if you see the dialog box. Then, after a short time, the rectangle will be replaced with generated artwork. The



generated artwork is vector-which means it is completely editable!

The sunshine artwork that you see will *definitely* be something different when you generate your own artwork.

10 In the Properties panel, click one of the other variation thumbnails to replace the selected sunshine artwork in the flyer.





Don't like what you see? Click the Generate button again to generate more artwork based on the same text prompt. You can also try changing your prompt text and/or the options and clicking Generate again!

I wound up lowering the detail for the Content Type further and generating a few more times to get the result you see.



There are other options to explore related to the Text to Vector Graphic feature, but I just wanted to give you a taste of what is to come. As time goes on, this feature will only get better!

- 11 Choose File > Save.
- 12 If you want to try the new Gen Shape Fill (Beta), watch the following video.Otherwise, choose File > Close to close the open files.

Gen Shape Fill (Beta)

Discover a whole new way to "fill in" a shape with amazing generated artwork using Gen Shape Fill (Beta). To learn more, check out the video *Gen Shape Fill (Beta)*, which you'll find in the Web Edition. For more information, see the "Web Edition" section of "Getting Started" at the beginning of the book.

Review questions

- 1 When creating a new document, what is a document category?
- 2 What are the basic tools for creating shapes?
- 3 What is a Live Shape?
- 4 Describe what Draw Inside mode does.
- 5 How can you convert a raster image into editable vector shapes?
- 6 Briefly describe what Text To Vector Graphic is.

Review answers

- 1 You can set up a document for different kinds of output, such as print, web, video, and more, by choosing a category. For example, if you are designing a web page mockup, you can select the Web category and select a document preset (size). The document will be set with the units in pixels, the color mode as RGB, and the raster effects to Screen (72 ppi)—all optimal settings for a web design document.
- **2** There are five shape tools in the Essentials workspace: Rectangle, Ellipse, Polygon, Star, and Line Segment (the Rounded Rectangle and Flare tools are not in the toolbar in the Essentials workspace).
- 3 After you draw a rectangle, ellipse, star, or polygon (or a rounded rectangle, which wasn't covered) using a shape tool, you can continue to modify its properties, such as width, height, rounded corners, corner types, and radii (individually or collectively). This is what is known as a Live Shape. The shape properties, such as corner radius, are editable later in the Transform panel, in the Properties panel, or directly on the art.
- **4** Draw Inside mode lets you draw objects or place images inside other objects, including live text, automatically creating a clipping mask of the selected object.
- 5 You can convert a raster image into editable vector shapes by selecting it and then clicking the Image Trace button in the Properties panel. To convert the tracing to paths, click Expand in the Properties panel, or choose Object > Image Trace > Expand. Use this method if you want to work with the components of the traced artwork as individual objects. The resulting paths are grouped.
- **6** Using Text To Vector Graphic, you can generate all kinds of vector content based on a simple everyday language text prompt and settings you can refine.

INDEX

3D And Materials panel, 376–378 3D effects applying to artwork, 376–378 export formats for, 378

A

Adobe add-ons, 5 Adobe Authorized Training Partners, 5 Adobe Creative Cloud, 81 Adobe Firefly, 7, 233 Adobe Fonts, 250-252 Adobe Illustrator. See Illustrator Adobe PDF files, 438 Adobe Stock assets, 399, 404 Adobe Substance 3D, 377, 378 alignment guides, 58, 191 Anchor Point tool, 208 anchor points, 59 adding, 21, 206 aligning, 68-69 constraining handles on, 202 converting, 173, 207-208 deleting, 171, 206 editing, 205-207 key, 69 paths made of, 169 reducing number of, 105-106 selecting, 59-60, 205 shapes and, 17, 82 size adjustment, 60 smooth vs. corner, 174 undoing, 195, 203 Android export options, 442

Angular Dimension option, 164 appearance attributes, 360-368 adding multiple, 362-367 copying, 226 deleting, 362, 381 editing, 361-362 graphic styles as, 379-383 reordering, 367-368 text with, 364-367 viewing hidden, 362 Appearance panel, 360-368 attributes edited in, 361-362 effects edited in, 371-372 formatting options in, 367 multiple attributes added in, 362-367 overview of options in, 360 patterns applied in, 322-323, 325 reordering attribute rows in, 367-368 Application bar, 30 Apply Filter button, 295 area type, 244-245, 246, 256, 258 Arrange button, 74, 99, 136, 173, 267, 326 arrange commands, 288, 289 arrowheads on paths, 181–182 Art Brush Options dialog box, 341–343 Art brushes, 339-343, 355 applying existing, 339-340 creating from existing artwork, 340 - 341editing options for, 341-343 Artboard Editing mode, 141–143, 144, 147 Artboard Options dialog box, 148, 165 Artboard tool, 141, 143, 144, 146, 165

artboards, 11, 29, 141-148 aligning content to, 69–70 arranging and aligning, 146–147 copying between documents, 143-144 creating new, 141–143 deleting, 145 exporting, 439-440, 447 fitting in window, 29 moving, 144-145 navigating, 51-52, 53 options for, 147-148 renaming, 147-148 reordering, 148 resizing, 145, 165 artwork Art brush created from, 340-341 combining vector and raster, 411 creating with Pen tool, 200–204 editing colors in, 229-231 erasing parts of, 121-123, 125 exporting assets and, 440-443 file formats for exporting, 439 fills added to, 362-363 generating from text, 107-110 gradient applied to, 309-310 masking, 420-428 Outline mode for, 50, 288–289, 290 pasting between documents, 102-103 positioning, 151–152 previewing, 50-51 recoloring, 229-231, 233-235 rotating, 18, 154-155 scaling, 153-154, 155 shearing, 156 traced, 103-107 transforming, 18-19, 150-157 viewing, 43-51 warping, 160–163 See also objects aspect ratio, 311-312 Asset Export panel, 440-443, 447

assets Creative Cloud library, 399–403 exporting artwork and, 440–443, 447 asynchronous editing, 443 attribute rows, 362, 367–368 automatic masking, 423 Auto-Simplify button, 106

В

bitmap images, 28 bleed, document, 80 blend objects, 318-321 Blend Options dialog box, 319, 321 Blend tool, 321 blends, 318-321 creating, 318-319 modifying, 319-320, 321 smooth color, 320-321 See also gradients Blob Brush tool, 352-354, 355 drawing with, 352-353 Eraser tool used with, 354 bounding box, 58, 150-151 Break Link to Symbol button, 397 Bring to Front command, 136, 288, 326 Bristle brushes, 350-352 changing options for, 350 grouping paths made with, 352 painting with, 351 brushes, 328-355 applying, 21-22, 332-333, 339-340, 347-348 Art, 339-343 Blob Brush tool, 352-354 Bristle, 350-352 Calligraphic, 331–338 creating new, 340-341, 345-347 editing, 333-334, 341-343, 348-349 libraries of, 335, 339, 344, 350 Paintbrush tool, 331, 334-338, 351 Pattern, 344-349

brushes *(continued)* previewing changes to, 334 removing strokes made by, 338 resizing, 353, 354 tool tips for, 344 types of, 331 Brushes panel, 39, 331, 332, 333, 338 bullet character, 246 bullet lists, 265–266 Bullets and Numbering dialog box, 266

С

Calligraphic brushes, 331-338 applying to artwork, 332-333 editing options for, 333-334 libraries of, 335 Paintbrush tool and, 334-338 removing strokes made by, 338 canvas, rotating, 48-49 Caps Lock key, 119, 120, 178, 187 center point widget, 82 Chamfer corners, 89 Character panel, 256 character styles, 261, 264, 273 characters formatting applied to, 255-256 styles applied to, 261, 264, 273 circles, creating/editing, 90-91 Clear Filter button, 253 clip groups, 101, 421-422 clipping masks, 99, 295-296, 297, 420 closed paths, 82, 101, 420 Cloud Document dialog box, 10, 56, 81, 359, 438 cloud documents/files, 81, 420, 443-444, 445 cloud icon, 429 CMYK color mode, 213, 214, 226 color groups, 227, 232 Color Guide panel, 227-228 color harmonies, 228, 230, 239 Color Mixer panel, 215-216, 225

color modes, 213 Color panel, 215 Color Picker, 221-223 color spectrum, 215 color stops, 302 freeform gradient, 314-316 linear gradient, 304-305 Lines mode for applying, 317 radial gradient, 310 stroke gradient, 308-309 color swatches, 216-220 applying colors with, 15-16 creating copies of, 217 editing, 16, 218-220 global, 217, 218, 220, 239 libraries of, 223-224 non-global, 219-220 saving colors as, 216-217, 222-223, 239 Color Theme Picker, 231 color wheel, 229-230 colors, 214-235 applying, 15-16, 214-215, 228 blending, 320-321 Color Picker for, 221-223 converting between modes, 226 copying with Eyedropper, 226 creating custom, 215-216 editing, 16, 229-231 gradient, 307-309, 310-311, 316 groups of, 227, 232 guidance for choosing, 227-228 layer, 205-206, 279, 297 naming, 217 preset, 223–224 sampling, 105, 107, 173, 231-232 shape, 85-86 stroke, 16, 21, 94 swatches for, 216-220 text or type, 255 tints of, 224-225, 239

variations of, 233-235 columns, text, 259-260 combining shapes, 126-130 Pathfinder effects for, 128-130 Shape Builder tool for, 126–128 compound paths, 123-124 Content Aware feature, 315, 414 context-sensitive menus, 41-42 Contextual Task Bar, 33, 124 convert-point icon, 196, 197, 199 Copy Links option, 436 corner points, 174, 188 converting between smooth and, 207-208, 209 creating with Curvature tool, 174–175 smooth points distinguished from, 174,209 corner radius widgets, 13-14, 17 corners changing type of, 88-89 creating, 174-175 Pattern brush, 347 rounding, 13-14, 15, 17, 86-88, 97 Create New Layer button, 278, 279 Create New Style button, 261, 263 Creative Cloud desktop app, 250, 251, 444, 445, 446 Creative Cloud libraries, 399-403 adding assets to, 399-401 updating assets in, 402-403 using assets in, 401 See also libraries cropping images, 414-416 Curvature tool, 20-21, 169-171, 174-176 creating corners with, 174-175 drawing paths with, 169-170 editing paths with, 171 practicing with, 176 curves combining straight lines and, 198-199 Pen tool for drawing, 192-195, 209

text on a path, 24 cutting shapes Knife tool for, 118–120 Scissors tool for, 115–116

D

dashed lines, 180 default preferences, 4 Delete Selection icon, 381 deselecting paths, 194, 204 Desktop Illustrator home screen, 445 Dimension tool, 163-164 Direct Selection tool, 59-60, 61, 189, 195, 393 direction lines, 192, 193, 194, 195, 196-197,203 direction points, 192 distorting artwork, 160 distributing objects, 67-68 docking panels, 38 Document Setup button, 80 Document window, 30 documents arranging multiple, 52 categories for, 78, 111 cloud, 81, 443-444 copying artboards between, 143-144 creating new, 78-79 inviting others to edit, 443-445, 447 panning in, 47-48 pasting artwork between, 102-103, 291 - 293presets for, 79, 213 saving, 10-11, 79-80, 81 sharing links to, 444, 445-446 Draw Behind mode, 99 Draw Inside mode, 99-100, 101, 111 Draw Normal mode, 99, 100, 101 drawing Blob Brush tool for, 352-353 Curvature tool for, 20-21, 169-170

drawing (continued) curves, 192–195, 209 lines, 94, 179, 187–188, 190–191 modes for, 99–101 Paintbrush tool for, 334–336 paths, 169–170, 178–179, 189–190 Pen tool for, 187–192, 193–195 Pencil tool for, 178–179 shapes, 11–12 Drawing Modes button, 100, 101 Drop Shadow effect, 25, 370–372 Duplicate Artboard button, 142 dynamic symbols, 393–394, 407

Е

Edit Artboards button, 141 Edit Clipping Path button, 424 Edit Contents button, 269, 424 Edit Envelope button, 270 editing anchor points, 205-207 appearance attributes, 361-362 artboards, 141-143, 144-145 asynchronous, 443 blends, 319-320, 321 brushes, 333-334, 341-343, 348-349 color swatches, 16, 218-220 colors in artwork, 229-231 effects, 371-372 ellipses, 90–91 envelope warp, 269-270 Eraser tool for, 121-123, 125, 354 global, 405-406 gradients, 302-303, 307-309, 315-316 inside content, 101-102 invitations to, 443-445, 447 isolated groups, 72–73 lines, 94–95 lists, 265–266 mirror repeats, 159 opacity masks, 427-428 paragraph styles, 263-264

paths, 21, 171, 204-207, 336 patterns, 326 polygons, 97–98 rectangles, 83-85 shapes, 12, 115-126 symbols, 392-393, 396, 407 text, 373-374 educator resources, 5 Effect menu, 369, 375 effects, 25, 369-378 3D effects, 376-378 applying, 369-371, 375-378, 385 Drop Shadow effect, 25, 370–372 editing in Appearance panel, 371–372 Pathfinder effects, 128-130 Photoshop effects, 369, 375-376 scaling, 383-384 temporarily disabling, 373-374 text styling with, 372-373 vector vs. raster, 369 Warp effect, 372–373 Ellipse tool, 11, 90, 92 ellipses, 90-94 embedded images, 412, 415, 416, 429-430, 431 Enclosed mode, 62 endpoints, 82 envelope warp, 269-270 Eraser tool Blob Brush tool and, 354 erasing parts of artwork with, 121-123, 125 shortcut for resizing, 354 straight line erasures using, 122–123, 137 undoing mistakes made with, 121, 123 Escape key, 21, 67, 243, 245, 416 Essentials workspace, 29, 39, 80 Expand command, 159, 163 Export for Screens dialog box, 439-440, 443, 447 Export Selection option, 440

exporting, 439–443 3D artwork, 378 artboards, 439–440, 447 assets and artwork, 440–443, 447 file formats for, 439, 447 eye icon, 205, 287, 288, 290, 291, 363 Eyedropper tool, 105, 107, 177, 226, 262, 309

F

Fidelity slider, 178, 337 files formats for exporting, 439, 447 importing plain-text, 247 packaging, 436-437 Fill color box, 85, 96, 98, 301 fills adding multiple, 362-363, 364-365 color of, 85, 96, 98, 214 gradient, 301, 304-306 removing, 20 shape, 85-86 text, 24, 364-365 Filter Fonts icon, 251 Filter Gallery dialog box, 375–376 filtering layers, 294 Find Fonts button, 358 Fit All In Window view, 107, 136, 145, 182 Fit Artboard In Window view, 10, 43, 141, 143, 145, 187 flipping content, 18, 172, 396, 414, 424 folder icon, 436, 440 fonts activating, 114, 140, 168, 212, 250-252,358 applying to text, 252-253 fixing missing, 253, 276 Retype feature and, 271-272 sizing/resizing, 254 used in this book, 2 See also text Fonts icon, 251, 358

formatting appearance attributes, 367 sampling with Eyedropper, 262 type or text, 24, 250–259 freeform gradients, 301, 314–316 freeform paths, 169, 178

G

Gen Shape Fill feature, 7, 110 Generate artwork button, 109, 110 Generate Vectors dialog box, 108-109 Generative Recolor feature, 233-235 global editing, 405-406 global swatches, 217, 218, 220, 239 glyph snapping, 259 Glyphs panel, 259 Go To Link button, 429, 435 GPU performance, 46, 47 gradient annotator, 305, 308, 310 Gradient panel, 302, 303, 304-305, 307, 312 gradient slider, 308, 309, 327 Gradient tool, 19, 304, 305-306, 310, 311, 313, 314 gradients, 19, 301-317, 327 adjusting, 304-306, 311-312 applying, 19-20, 312-313, 314-315 artwork utilizing, 309-310 aspect ratio of, 311-312 changing colors in, 307-309, 310-311 color stops in, 302, 304-305, 308-309, 310, 314-317 editing, 302-303, 307-309, 315-316 fill, 301, 304-306 freeform, 301 linear, 301, 304-307 multiple object, 312-313 opacity mask, 427-428 radial, 301, 309-312 resizing, 311, 312 rotating, 309 saving, 303-304

gradients (continued) stroke, 306-309 transparency added to, 313-314 See also blends Grain effect, 375-376 graphic styles, 379-383, 385 applying multiple, 383 creating and applying, 379-380 layers and, 381-382, 385 updating, 380-381 Graphic Styles panel, 379, 380, 382 grid repeats, 158 Group button, 72 groups clip, 101, 421-422 color, 227, 232 isolated, 72-73 Live Paint, 235-238 object, 23, 72-73 panel, 38 path, 352 guides, 148 alignment, 58, 191 creating, 149-150 Smart, 58, 82, 96, 191

Η

Hand tool, 47–48, 193 handles anchor point, 202 bounding box, 58 color wheel, 229–230 width point, 132, 133 harmony rules, 227–228 Help resources, 5, 234 hiding layer content, 287 masks, 427 objects, 64–65, 75 panels, 36 horizontal alignment, 69, 70 horizontal distribution, 67–68

I

Illustrator installing, 2 native format, 80 new features, 6-7 preferences file, 4 resources, 5 UI scaling, 38 Illustrator Options dialog box, 11, 80 Image Trace panel, 104–105 images combining with artwork, 411 cropping, 414-416 embedded, 412, 415, 416, 429-430 importing, 416-418 linked, 412, 415, 428-430, 435-436 masking, 420-428 Photoshop, 416-418, 420 placing, 411-412, 416-420 replacing, 430, 431 resizing, 413 resolution of, 413, 414, 415 tracing, 103-105 transforming, 413-414 importing Photoshop images, 416-418 plain-text files, 247 installing Illustrator, 2 instances, symbol, 389, 390, 391-392, 396-397 Intertwine feature, 134-135 Invite To Edit dialog box, 443-444 iOS export options, 442 Isolate Mask button, 424 Isolation mode, 72-73, 102, 238, 270, 422-423, 424

J

Join tool, 117, 172–173, 183 joining paths, 117, 172–173

Κ

key anchor points, 69 key objects, 66–67 keyboard shortcuts displayed in tool tips, 31 modifying on macOS, 46 Knife tool, 34, 118–120, 137

L

layer comps, 417 Layer Options dialog box, 279 layers, 274-297 arranging content on, 289 clipping masks for, 295-296, 297 colors for, 205-206, 279, 297 creating new, 278-279 dragging content between, 283-286 explanation of, 277 graphic styles on, 381-382, 385 hiding content on, 287 locking/unlocking, 287, 290 merging selected, 293 naming/renaming, 278 Outline mode for, 290-291 pasting from other documents, 291-293, 297 placing Photoshop files with, 417-418 reordering content and, 288-290, 297 scenarios for using, 277 searching and filtering, 294 sublayers and, 280 Layers panel eye icon, 205, 287, 288, 290, 291 locating content in, 281-282, 286 menu icon, 292, 293 opening and working in, 278-279 search feature, 294 target icon, 381, 382 leading, text, 256 leading direction lines, 195, 199 lesson files, 2, 3

libraries brush, 335, 339, 344, 350 graphic style, 379 swatch, 223-224 symbol, 389-390 See also Creative Cloud libraries Libraries panel, 399-401, 402 Line Segment tool, 94, 182 Linear Dimension option, 164 linear gradients, 301, 304–307 lines dashed, 180 direction, 192, 193, 194, 195, 196-197 editing, 94-95 Line Segment tool for drawing, 94 Pen tool for drawing, 187–188, 190 - 191Pencil tool for drawing, 179 rotating, 95 See also straight lines Lines mode, 317 link icon, 428, 430, 436 Link Unlink Harmony Colors icon, 230 linked images, 412, 428-430 cropping of, 415 embedded images vs., 412, 429-430, 431 finding information about, 428-429 fixing missing, 435-436 links image, 412, 428-430, 435-436 library asset, 402 opacity mask, 428 sharing document, 444, 445-446 symbol, 389, 396-397 text, 248 Links panel, 402, 413, 428-430, 435 list creation, 265-266 Live Corners widget, 86, 87, 97 Live Paint Bucket tool, 236-237

Live Paint groups, 235–238, 239 creating, 235–236 modifying, 238 painting objects in, 236–237 Live Shapes, 7, 83, 96, 111 loaded graphics pointer, 412, 417, 419–420 Locate Object button, 281, 286, 294, 418, 422 locking/unlocking layers, 287, 290 objects, 12, 62–63, 146

Μ

macOS commands, 2 magenta alignment guides, 58, 191 magnification level, 43 Make Mask button, 426 marquee selections, 60-61 masks, 420-428, 431 automatic, 423 clipping, 99, 295-296, 297, 420 editing images and, 422-423, 424-425 hiding/showing, 427 opacity, 425-428 shape, 421 text, 425 measurement labels, 58, 82, 191 measurement units, 79, 149, 153 mirror repeats, 158-159, 163 Missing Fonts dialog box, 114, 140, 168, 212, 276, 358, 399 Mockup feature, 7, 403-404 Mop brush, 350, 351, 352 Move Artwork with Artboard option, 143, 144 Move dialog box, 157

Ν

native format, 80 Navigator panel, 48 New Artboard button, 142 New Brush dialog box, 340, 346 New Document dialog box, 78–79, 213 New Swatch dialog box, 217, 222, 224, 303 New Symbol button, 394 non-global swatches, 219–220

0

Object on Path tool, 6, 70 objects 3D effects on, 376-378 aligning, 66-70 arranging, 25, 74 blended, 318-321 coloring, 214 distributing, 67–68 gradients applied to, 312-313 grouped, 23, 72-73 hiding, 64-65, 75 image tracing, 103 Intertwine, 134-135 key, 66-67 locating, 281, 286 locking/unlocking, 12, 62-63, 146 painting, 236-237 repeat, 158-159 rotating, 154–155 scaling, 19, 23, 153-154, 155 selecting, 57-65 shearing, 156 similar, 63-64 stacking order of, 74, 288 text or type, 244, 246 wrapping text around, 266-267 See also artwork online content, 2-3 opacity appearance attribute, 365 gradient, 314 pattern, 323 opacity masks, 425-428 creating, 425-426, 431

editing, 427–428 open paths, 82, 267 Options Of Selected Object button, 344 Outline mode artwork viewed in, 50, 288–289, 290 layers or objects displayed in, 290–291 selecting artwork in, 65 outlines stroke, 125–126, 137, 177 text, 270–271, 273 overflow text, 248, 273 overset text icon, 263

Ρ

Package dialog box, 436 packaging files, 436-437, 447 Paintbrush tool, 331, 334-338, 355 Blob Brush tool vs., 352 drawing or painting with, 334–336, 351 editing paths with, 336 smoothing paths with, 336-337 tool options for, 337-338 painting objects. See Live Paint groups panels, 30, 35-38 hiding/showing, 36 menu options in, 40-41 moving and docking, 37-38 working with, 35-37 panning documents, 47-48 Pantone colors, 224 Paragraph panel, 257 paragraph styles, 261-262, 263-264, 273 paragraphs changing formatting of, 257-258 styles applied to, 261-262, 263-264, 273Paste Remembers Layers option, 292, 297 Pathfinder effects, 128-130, 137 Pathfinder panel, 128 paths

adjusting shapes on, 71 aligning objects to, 70 arrowheads on, 181-182 changing direction of, 196-197 clipping, 101, 420 closed, 82 compound, 123-124 curved, 192-195 deselecting, 194, 204 dragging across, 173 drawing, 169-170, 178-179, 189-190 editing, 21, 171, 204-207, 336 freeform, 169, 178 grouping, 352 joining, 117, 172-173 open, 82, 267 reshaping, 131, 206-207 segments of, 59, 174, 188, 204 simplifying, 105–106 smoothing, 336-337 text on, 267-268 Pattern Brush Options dialog box, 346 Pattern brushes, 344-349 applying, 344-345, 347-348 corners for, 347 creating, 345-347 editing, 348-349 Pattern Editing mode, 323, 326 Pattern Options panel, 323-325 patterns, 322-326 applying, 322-323, 325 creating your own, 323-325 editing, 326 saving a copy of, 325 swatches for, 322, 325, 346, 348, 365 tiling, 324-325, 346-347, 349 PDF file creation, 438 Pen tool, 186-204 artwork created with, 200-204 curves drawn with, 192-195 practicing with, 190, 192, 194, 195, 197, 199-204

Pen tool (continued) reasons for learning about, 186 straight lines drawn with, 187-188, 190-191 undoing mistakes made with, 188, 195, 196, 203 Pencil tool, 178-179 paths drawn with, 178-179, 183 straight lines drawn with, 179 tool options for, 178, 183 Photoshop effects, 369, 375-376, 385 Photoshop images Creative Cloud files as, 420 placing in documents, 416-418 Photoshop Import Options dialog box, 417, 418 pie widget, 92-93 pins adding, 160-161 rotating, 162-163 Pixel Preview mode, 50-51 Place dialog box, 103, 411, 416, 419 placeholder text, 22, 243, 244, 268 placing images, 411-412, 416-420 PNG files, 442-443 point type, 243-244, 246, 256 points corner, 174-175 direction, 192 smooth, 174 width, 132-133 See also anchor points Points mode, 315-316 Polygon tool, 96 polygons, 96-98 positioning artwork, 151–152 PPI (pixels per inch), 414, 415 preferences file, 4 presets Adobe PDF, 438 color, 223-224 document, 79, 213

text warp, 269 Preview mode, 50 previews brush edit, 334 Pen tool, 188, 192 pixel, 50–51 profiles, stroke, 132, 133 prominent colors, 232 Properties panel changing corner type in, 88–89 overview on working with, 32–33 positioning artwork using, 151–152 scaling artwork using, 153–154, 383–384 Puppet Warp tool, 160–163, 165

R

radial gradients, 301, 309-312 radial repeats, 158 raster effects, 369, 375-376 raster images, 28 combining with vector artwork, 411 creating Art brushes from, 340 tracing and converting, 103-105, 111 See also images Ray Tracing option, 378 Rearrange All Artboards dialog box, 147 Recolor Artwork dialog box, 229–232, 233, 239 Rectangle tool, 12, 17, 82-83, 107, 426 rectangles, 82-89 reference point locator, 152, 153 Relink button, 431, 435 Remove Brush Stroke button, 338 repeats, 158-159 Reset Essentials command, 29, 40, 80 Reset Preferences button, 4 Reset Rotate View command, 49 Reshape tool, 131 resizing. See sizing/resizing resolution

image, 413, 414, 415 raster effect, 376 resources, Illustrator, 5 Retype feature, 271-272, 273 Reverse Gradient button, 307, 310 review, sharing for, 445-446 RGB color mode, 213 Rotate tool, 154-155 Rotate View tool, 48-49, 53 rounding corners, 86-88 changing corner type and, 88-89 corner radius widgets for, 13-14, 15 Live Corners widget for, 86, 87, 97 Stroke panel option for, 367 rubber bands, 188, 202 ruler origin, 149, 150, 165 rulers, working with, 148-150

S

sampling appearance attributes, 226 colors, 105, 107, 173, 231-232 text formatting, 262 Save a Copy option, 325 Save To Creative Cloud dialog box, 444 saving colors as swatches, 216-217, 222-223 documents, 10-11, 79-80, 81 gradients, 303-304 patterns, 325 PDF files, 438 selections, 64 workspaces, 40 Scale Strokes & Effects option, 136, 153, 154, 165, 383 scaling effects, 383-384 exported assets, 442 objects, 19, 23, 153-154, 155 patterns, 326 strokes, 153, 154, 383-384

user interface, 38 See also sizing/resizing Scatter brushes, 331 Scissors tool, 115–116, 137 scrubbing across paths, 173 searching/filtering layers, 294 segments, path, 59, 174, 188, 204 selected-art indicator, 282, 285 Selection Indicator, 32 Selection tool, 31, 57-58, 60-61, 176, 270, 398 selections bounding box of, 58 Enclosed mode, 62 exporting, 440 marquee, 60-61 Outline mode, 65 rotating view to, 48 saving, 64, 75 similar object, 63-64 tools for making, 57-61 Send to Back command, 159, 288 Shape Builder tool, 14, 126–128, 137 shape modes, 129-130, 137 shapes, 82-99 color of, 85-86 combining, 14, 126-130 copying, 13 creating, 11-12 deleting, 127 editing, 12, 115-126 ellipses, 90-94 lines and, 94-95 Live, 83, 96, 111 masking with, 421 polygons, 96-98 rectangles, 82-89 resizing, 12 rotating, 84 stars, 7, 98–99 stroke alignment for, 92

shapes (continued) widgets for, 82, 86, 87, 97 Share button, 445 Share for Review feature, 445-446 shared library assets, 399 sharing files for review, 445-446 links to documents, 444, 445-446 shearing objects, 156 shortcuts. See keyboard shortcuts Show Activated Fonts button, 252 Show Rulers button, 149 Simplify command, 105–106, 125 sizing/resizing anchor points, 60 artboards, 145, 165 brushes, 353, 354 fonts, 254 gradients, 311, 312 images, 413 lines, 95 shapes, 12 See also scaling Smart Guides, 58, 96 components of, 82, 191 turning on/off, 96, 187, 191, 389, 392 smooth color blends, 320-321 smooth points, 174, 192 converting between corner and, 207-208, 209 corner points distinguished from, 174, 209 smoothing paths, 336-337 spine of blends, 319 splitting direction lines, 196, 203 spot colors, 226 spread of gradients, 311 stacking order, 74, 277, 288 stars, 7, 98-99 Status bar, 30, 52 straight lines combining curves and, 198-199

cutting in, 119-120 erasing in, 122-123, 137 Pen tool for drawing, 187–188, 190– 191, 209 Pencil tool for drawing, 179 See also lines Stroke panel, 92, 180, 181, 366-367 strokes aligning, 92 color of, 16, 21, 94, 214 dashed line, 180 gradients on, 306-309 outlining, 125-126, 137, 177 rounding corners of, 367 scaling, 153, 154, 383-384 text, 365-367 variable-width, 132-133 weight of, 90, 91, 95, 177 styles character, 261, 264 graphic, 379-383 paragraph, 261-262, 263-264 subfolders, 440 sublayers, 280 SVG files, 442-443 Swatch Conflict dialog box, 293 Swatch Options dialog box, 218, 220 swatches color, 15-16, 216-220 gradient, 303-304 pattern, 322, 325, 346, 348, 365 Swatches panel, 15, 216, 217, 219, 222, 223, 303-304 Symbol Options dialog box, 393, 394-395 Symbol Sprayer tool, 397 symbols, 389-398 adding to projects, 389-390 benefits of using, 407 breaking links to, 396-397 creating, 394-395 dynamic, 393-394, 407

editing, 392–393, 396, 407 instances of, 389, 390, 391–392, 396–397 libraries of, 389–390 reordering, 395 replacing, 397–398 selecting instances of, 396 spraying onto artboard, 397 transforming instances of, 391–392 viewing names of, 390 Symbols panel, 389, 390, 394, 397 symmetry axis, 158

Т

target icon, 381, 382 text, 23-24, 240-273 adding, 22, 243-245 area type as, 244–245 character formatting, 255-256 color applied to, 24, 255 converting between types of, 246 creating columns of, 259-260 curving, 23-24 disabling effects to edit, 373-374 fills added to, 364-365 fonts used for, 250-254 formatting, 24, 250-259 generating artwork from, 107-110 importing from files, 247 library assets as, 401 list creation, 265-266 masking content with, 425 outlines created from, 270-271 paragraph formatting, 257–258 path-based, 267-268 placeholder, 22, 243, 244, 268 point type as, 243-244 Retype feature, 271–272 sampling attributes of, 262 strokes added to, 365-367 styles applied to, 261–264 threading, 248-249, 273

type objects and, 244, 246, 260 vertically aligning, 258-259 warping, 269-270, 372-373 wrapping, 266-267 See also fonts Text Import Options dialog box, 247 Text to Vector Graphic (Beta) feature, 6, 107-110, 111 Text Wrap Options dialog box, 267 threading text, 248-249, 273 tiling patterns, 324-325, 346-347, 349 tints, color, 224-225, 239 Tool Options dialog box Eraser tool, 121, 122 Paintbrush tool, 337 Pencil tool, 178, 183 tool tips, 31, 344 toolbar, 30, 31-32, 34-35 appearance of, 99, 214 moving and customizing, 35 tools finding additional, 34–35 selecting in toolbar, 31 traced artwork, 103–107 trailing direction line, 195 Transform Each dialog box, 155 transforming artwork, 18-19, 150-157 bounding box for, 150–151 menu commands for, 157 placing images and, 413-414 positioning and, 151-152 rotating objects, 154-155 scaling objects, 153-154, 155 shearing objects, 156 transparency gradient, 313-314 pattern, 323 Transparency panel, 323, 365, 425, 427 - 428tutorials, Illustrator, 5 type objects, 244, 246, 260

Type On A Path tool, 24 Type tool, 22, 243, 244, 250, 257, 269, 273

U

unembedding images, 429–430 Ungroup button, 72 Unite button, 128, 130 Update Content button, 446 Update Link button, 402 updating graphic styles, 380–381 library assets, 402–403 shared documents, 446 symbol instances, 392–393 user interface, 38, 42

V

variable-width strokes, 132-133 vector effects, 369 vector graphics, 28, 411 vertical alignment, 66, 67, 70, 146, 258 videos on arranging multiple documents, 52 on blending with Blend tool, 321 on character styles, 264 on color groups, 227 on customizing the toolbar, 35 on document settings, 80 on drawing tool selection, 169 on editing the ruler origin, 150 on exploring Enclosed mode, 62 on fixing missing fonts, 253 on Gen Shape Fill feature, 110 on glyph snapping, 259 on Glyphs panel, 259 on masking with text, 425 on moving the toolbar, 35 on panning with Navigator panel, 48 on Pencil tool exploration, 179 on placing Creative Cloud files, 420 on reordering artboards, 148 on replacing images, 430

on rounding corners, 88 on scaling the user interface, 38 on Symbol Sprayer tool, 397 viewing artwork, 43–51 modes for, 50–51 panning for, 47–48 rotating the canvas for, 48–49 view commands for, 43–44 Zoom tool for, 44–46

W

Warp effect, 372-373 Warp Options dialog box, 269, 270, 373, 374 warping artwork, 160-163 text, 269-270, 372-373 Web Edition of book, 3 weight, stroke, 90, 91, 95, 177 widgets center point, 82 corner radius, 13-14 Live Corners, 86, 87, 97 pie, 92–93 width points, 132–133 Width tool, 132-133 Windows commands, 2 workspaces, 30-35 Contextual Task Bar, 33 illustrated overview of, 30 panel features in, 35-38, 40-41 Properties panel, 32-33 resetting, 11, 29, 40 saving custom, 40 switching, 39-40 toolbar in, 31-32, 34-35 wrapping text, 266-267

Ζ

Zoom tool, 44–46 zooming in/out, 43, 46–48