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Steve Johnson, Perspection, Inc.

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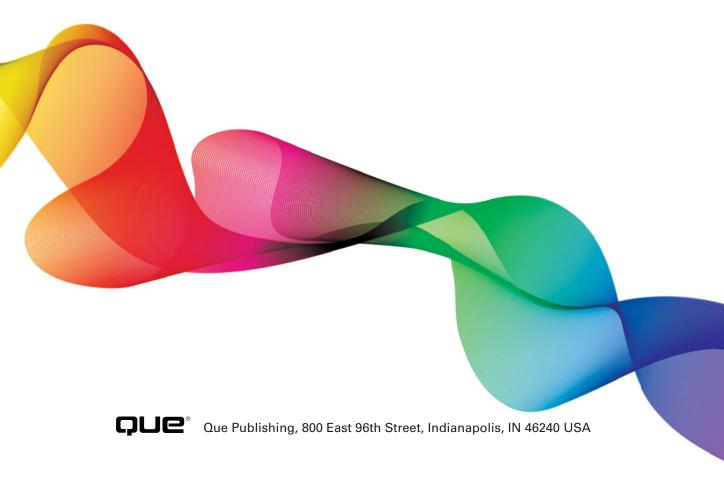




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Perspection

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As the reader of this book, *you* are our most important critic and commentator. We value your opinion and want to know what we're doing right, what we could do better, what areas you'd like to see us publish in, and any other words of wisdom you're willing to pass our way.

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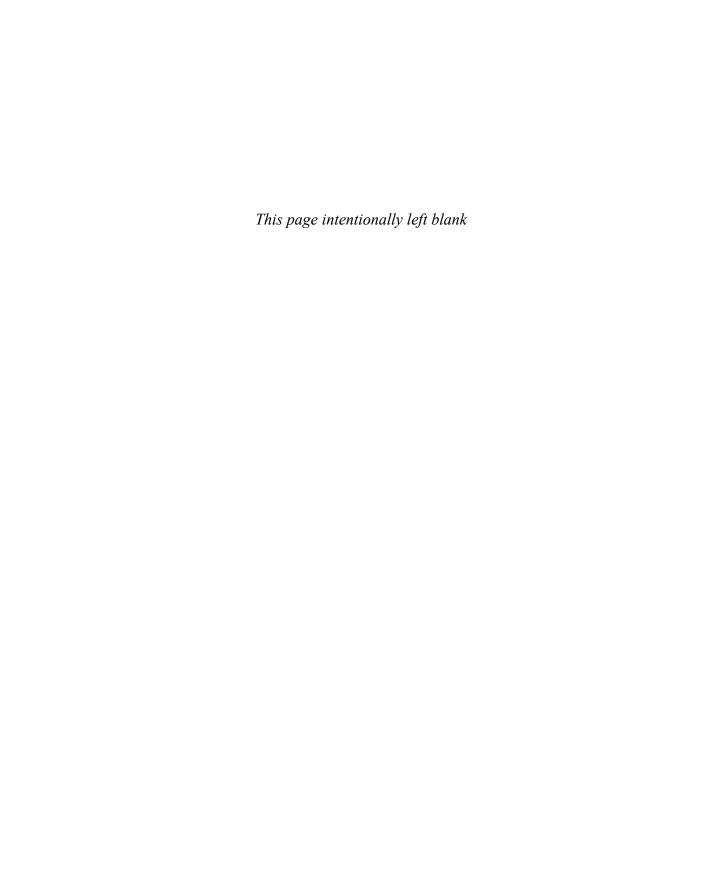
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C

Contents

	Introduction	xvii	
1	Getting Started with Illustrator CC	1	
	Installing Illustrator	2	New!
	Getting Started	4	New!
	Viewing the Illustrator Window	6	New!
	Showing and Hiding Panels	8	
	Working with Panels	10	
	Using the Tools and Control Panel	12	New!
	Opening a Document	14	New!
	Opening a Document with Adobe Bridge	16	
	Inserting Images in a Document	18	New!
	Using the Status Bar	19	New!
	Working with Document Windows	20	
	Checking for Updates Online	22	New!
	Getting Help While You Work	24	
	Saving a Document	26	
	Finishing Up	28	
2	Creating and Viewing a Document	29	
	Creating a New Document	30	
	Creating a New Document Using Presets	31	New!
	Creating a New Document from a Template	32	
	Setting Up a Document	34	New!
	Using Multiple Artboards	36	
	Working with Multiple Artboards	38	
	Changing the Display View	40	New!
	Changing the View with the Navigator Panel	42	
	Customizing the Navigator Panel	44	
	Changing the Screen Display Mode	45	
	Changing the View with the Zoom Tool	46	New!
	Viewing and Using Rulers	48	

	Using the Guides	50	New!
	Using Smart Guides	52	
	Using the Grid	54	
	Moving Around with the Hand Tool	55	
	Using Crop Marks	56	
	Working with the Info Panel	58	
	Using Undo and Redo	59	
	Creating and Selecting Workspaces	60	
	Working on Touch Screens	62	New!
Vork	ring with Objects	63	
	Understanding Vector and Raster Graphics	64	
	Understanding Paths	65	
	Selecting a Drawing Mode	66	
	Creating Pixel Aligned Objects	67	
	Creating Rectangles and Ellipses	68	
	Creating Polygons and Stars	70	
	Creating Line Segments	71	
	Creating Arcs and Spirals	72	
	Creating Grids	74	
	Using the Shape BuilderTool	76	
	Creating Perspective Objects	78	
	Working with Perspective Objects	80	
	Customizing a Perspective Grid	81	
	Understanding Selections	82	
	Using the Selection Tool	83	
	Using the Direct Selection Tool	84	
	Using the Lasso Tool	85	
	Using the Magic Wand Tool	86	
	Selecting and Grouping Objects	88	
	Selecting Similar Objects	90	
	Saving and Editing Selections	92	
	Moving Objects	93	
	Duplicating Objects	94	
	Aligning and Distributing Objects	96	
	Transforming Objects	97	
	Using the Free Transform Tool	98	New!
	Rotating and Scaling Objects	100	
	Reflecting and Shearing Objects	101	
	Applying Multiple Transformations	102	

	Reshaping Objects with Envelopes	104	
	Using the Transform Panel	106	
4	Working with Color	107	
	Changing Color Settings	108	
	Changing Color Profiles	110	
	Working with Color Modes	111	
	Changing Color Modes	112	
	Applying Colors	113	
	Working with the Color Panel	114	New!
	Working with the Swatches Panel	116	New!
	Creating Groups in the Swatches Panel	118	
	Working with Swatch Libraries	120	
	Adding Colors Using the Kuler Panel	122	New!
	Replacing Colors	124	
	Inverting Colors	126	
	Using the Color Guide Panel	127	
	Applying Color with the Color Guide Panel	128	
	Editing Colors with Live Color	130	
	Proofing Colors on the Screen	132	
5	Applying Fills, Strokes, and Gradients	135	
	Applying Fill and Stroke Colors	136	
	Changing Stroke Attributes	138	
	Changing Stroke Style	140	
	Creating Variable Stroke Widths	142	
	Using the EyedropperTool	144	
	Creating Patterns for Fills	146	
	Editing Patterns	148	
	Using Patterns as Fills	149	
	Blending Fill Colors	150	
	Creating Blends Automatically	151	
	Applying Blend Options	152	
	Creating Blends with the Blend Tool	153	
	Modifying Blend Objects	154	
	Setting Transparency Options	155	
	Controlling Transparency Effects	156	
	Creating Transparency Masks	157	
	Flattening Object Transparency	158	
	Using the Transparency Grid	159	
	Applying Gradients	160	

	Using Gradients Libraries	162
	Creating Gradients	163
	Editing Gradients	164
	Using the Gradient Tool	165
	Creating a Gradient Mesh	166
6	Working with Points and Paths	169
	Drawing with the Pen Tools	170
	Setting Anchor Point Preferences	172
	Moving Points and Segments	173
	Converting Points	174
	Adding and Deleting Anchor Points	176
	Aligning and Joining Anchor Points	178
	Reshaping Paths	180
	Erasing to Reshape Paths	182
	Smoothing Paths	183
	Simplifying Paths	184
	Dividing Paths	185
	Splitting Paths	186
	Merging Paths	188
	Working with Shape Mode	190
	Working with Pathfinder	191
	Creating a Compound Path	192
	Creating a Clipping Set	194
	Editing a Clipping Set	196
7	Working with Layers	199
	Understanding the Layers Panel	200
	Setting Layers Panel Options	201
	Creating Layers	202
	Selecting Layers	204
	Deleting Layers	205
	Selecting Objects with Layers	206
	Arranging Layers and Objects	208
	Duplicating Layers and Objects	210
	Locking Layers and Objects	211
	Showing and Hiding Layers and Objects	212
	Merging Layers and Groups	213
	Moving Objects to a Layer	214
	Flattening Layers	216
	Locating Objects in the Layers Panel	217

Viewing Layers as Outlines	219	
Working with Type	221	
Using Type Tools	222	New!
Creating Point Type	223	
Creating Point Type in a Text Box	224	New!
Creating Area Type	225	
Modifying Area Type	226	
Converting Point and Area Type	227	New!
Creating Path Type	228	
Modifying Type on a Path	230	
Importing Text	231	
Selecting Type	232	
Copying or Moving Type	234	
Working with Overflow Type	236	
Changing Fonts	238	New!
Finding and Changing Fonts	240	New!
Changing Font Size	242	
Leading Type	243	
Kerning Type	244	
Tracking Type	245	
Scaling Type	246	
Rotating Type	247	
Touching Up Type	248	New!
Formatting Type	250	
Anti-aliasing Type	251	
Aligning Paragraphs	252	
Indenting and Spacing Paragraphs	253	
Setting Tabs	254	
Working with Hyphenation	255	
Working with Different Languages	256	New!
Working with Type Styles	258	
Using Smart Punctuation	260	
Working with Glyphs	261	
Working with OpenType Fonts	262	
Working with Justification	263	
Wrapping Type Around an Object	264	
Creating Type Outlines	265	
Applying Color and Stroke to Type	266	New!

218

Creating a Template Layer

9	Working with Graphics	267	
	Opening Graphics	268	New!
	Placing Graphics	269	New!
	Placing Graphics from Adobe Bridge	270	
	Linking or Embedding Graphics	272	
	Change Linked or Embedded Graphics	274	New!
	Managing Linked or Embedded Graphics	276	New!
	Tracing Raster Graphics	278	
	Adjusting Tracing Options	280	
	Converting Tracing to Paths	282	
	Applying Graphic Styles	283	
	Creating Graphic Styles	284	
	Editing Graphic Styles	286	
	Applying Appearance Attributes	288	
	Creating a Mosaic Graphic	290	
10	Manipulating Artwork with Effects	291	
	Applying Illustrator Effects	292	
	Applying the Convert to Shape Effect	294	
	Applying the Scribble Effect	295	
	Applying the Inner or Outer Glow Effect	296	
	Applying the Drop Shadow Effect	297	
	Applying 3D Effects	298	
	Applying Warp Effects	300	
	Applying Distort & Transform Effects	301	
	Changing Raster Effects Settings	302	
	Working with the Effect Gallery	304	
	Applying Multiple Effects	306	
	Controlling Effects Using Selections	307	
	Using Blur Effects	308	
	Viewing Various Effects	310	
11	Drawing and Painting	313	
	Using the Pencil Tool	314	
	Creating Live Paint Groups	316	
	Setting Live Paint Bucket Tool Options	318	
	Using the Live Paint BucketTool	320	
	Using the Live Paint Selection Tool	322	
	Modifying Live Paint Groups	324	
	Selecting Gap Options	326	

	Using the Brushes Panel	327	New
	Using the Paintbrush Tool	328	New
	Creating and Editing Scatter Brushes	330	New
	Creating and Editing Calligraphic Brushes	332	
	Creating and Editing Art Brushes	334	New
	Creating and Editing Pattern Brushes	336	New
	Creating and Editing Bristle Brushes	338	
	Working with Brushes	340	
	Working with Liquify Tools	342	
12	Using Symbols	343	
	Using the Symbols Panel	344	
	Using Symbol Libraries	345	
	Working with Symbols	346	
	Duplicating and Editing Symbols	348	
	Breaking Symbol Links	350	
	Using the Symbol Sprayer Tool	352	
	Setting Symbolism Tools Options	353	
	Using the Symbol Shifter Tool	354	
	Using the Symbol Scruncher Tool	355	
	Using the Symbol SizerTool	356	
	Using the Symbol SpinnerTool	357	
	Using the Symbol Stainer Tool	358	
	Using the Symbol Screener Tool	359	
	Using the Symbol StylerTool	360	
	Expanding Symbol Instances	361	
	Using 9-Slice Scaling for Symbols	362	
	Aligning Symbols to the Pixel Grid	364	
	Setting the Symbol Registration Point	365	
13	Automating the Way You Work	367	
	Examining the Actions Panel	368	
	Building a New Action	370	
	Controlling the Playback of a Command	371	
	Adding a Stop to an Action	372	
	Inserting a Non-Recordable Command into an Action	373	
	Adding a Command to an Action	374	
	Deleting a Command from an Action	375	
	Working with Batch File Processing	376	
	Opening and Using Scripts	378	

	Defining and Editing Data Variables	380	
	Creating and Formatting a Data Graph	382	
	Adding Graph Designs to a Graph	384	
	Cleaning Up Unneeded Elements	385	
14	Proofing and Printing Documents	387	
	Using Spell Check	388	
	Using Custom Dictionaries	389	
	Finding and Replacing Text and Elements	390	
	Finding and Changing Fonts	392	
	Printing a Document	394	
	Printing with Presets	395	
	Setting General Print Options	396	
	Setting Marks and Bleed Options	398	
	Setting Graphics Options	400	
	Previewing Color Separations	401	New!
	Setting Output Options	402	
	Setting Advanced Options	404	New!
	Setting Color Management Options	406	
	Checking for Print Problems	407	
	Inserting File Information	408	
	Using the Document Info Panel	410	
15	Exporting a Document	411	
	Packaging a Document	412	New!
	Exporting a Document	414	New!
	Understanding Export File Formats	415	New!
	Exporting as a Bitmap	416	
	Exporting as a TIFF	417	
	Exporting as a PNG or JPEG	418	
	Exporting to Photoshop	420	
	Exporting as an AutoCAD	422	New!
	Exporting as a Flash Movie	424	
	Generating and Exporting CSS	426	New!
	Saving as an Adobe PDF	428	
	Saving as an EPS	430	
	Saving as a SVG	432	New!
	Saving a Document for Microsoft Office	434	
	Saving as a Template	435	
	Saving Time with Presets	436	

16	Designing for the Web and Devices	437	
	Saving for the Web	438	
	Working with Save For Web Options	440	
	Working with Web File Formats	442	
	Optimizing a JPEG Document	444	
	Optimizing a GIF Document	446	
	Optimizing a PNG-8 Document	448	
	Optimizing a PNG-24 Document	450	
	Optimizing an Image to File Size	451	
	Slicing Images the Easy Way	452	
	Working with Slices	454	
	Adding HTMLText or an URL Link to a Slice	456	
	Arranging Slices	458	
	Combining or Dividing Slices	460	
	Saving Slices for the Web	461	
	Saving Selected Slices	462	
	Previewing in a Browser	463	
	Sharing on Behance	464	New!
17	Customizing the Way You Work	465	
	Setting General Preferences	466	
	Changing Sync Settings Preferences	468	New!
	Changing Selection & Anchor Display Preferences	470	
	Setting Type Preferences	472	New!
	Changing Units Preferences	474	
	Setting Slices Preferences	475	
	Setting Hyphenation Preferences	476	
	Selecting Plug-ins	477	New!
	Selecting Scratch Disks	478	
	Setting User Interface Preferences	479	
	Setting File Handling & Clipboard Preferences	480	
	Working with Appearance of Black Preferences	482	
	Defining Keyboard Shortcuts	483	
	Using Drawing Tablets or Screens	484	
18	Working Together with Adobe Programs	485	
	Exploring Adobe Programs	486	New!
	Exploring Adobe Bridge	487	
	Getting Started with Adobe Bridge	488	
	Getting Photos from a Digital Camera	489	

Working wit	th Raw Images from a Digital Camera 490	New!
Modifying I	mages in Camera Raw 492	New!
Working wit	th Images Using Adobe Bridge 494	
Setting Pref	erences in Adobe Bridge 496	
Applying Im	nage Adjustments 498	
Automating	Tasks in Adobe Bridge 499	
Using Mini	Bridge 500	
Scripting wi	th Adobe ExtendScriptToolkit 501	
Working wit	th Adobe Media Encoder 502	
Working wit	th Adobe Extension Manager 504	New!
Using the A	dobe Exchange Panel 505	New!
Accessing A	dobe Creative Cloud 506	New!
New Features	507	New!
Adobe Certification	n 513	
Index	519	



Introduction

Welcome to Adobe Illustrator CC on Demand, a visual quick reference book that shows you how to work efficiently with Illustrator. This book provides complete coverage of basic to advanced Illustrator skills.

How This Book Works

You don't have to read this book in any particular order. We've designed the book so that you can jump in, get the information you need, and jump out. However, the book does follow a logical progression from simple tasks to more complex ones. Each task is presented on no more than two facing pages, which lets you focus on a single task without having to turn the page. To find the information that you need, just look up the task in the table of contents or index, and turn to the page listed. Read the task introduction, follow the step-by-step instructions in the left column along with screen illustrations in the right column, and you're done.

What's New

If you're searching for what's new in Illustrator CC, just look for the icon: **New!**. The new icon appears in the table of contents and throughout this book so you can quickly and easily identify a new or improved feature in Illustrator. A complete description of each new feature appears in the New Features guide in the back of this book.

Keyboard Shortcuts

Most menu commands have a keyboard equivalent, such as Ctrl+P (Win) or HP (Mac), as a quicker alternative to using the mouse. A complete list of keyboard shortcuts is available on the web at www.perspection.com.

How You'll Learn

How This Book Works

What's New

Keyboard Shortcuts

Step-by-Step Instructions

Real World Examples

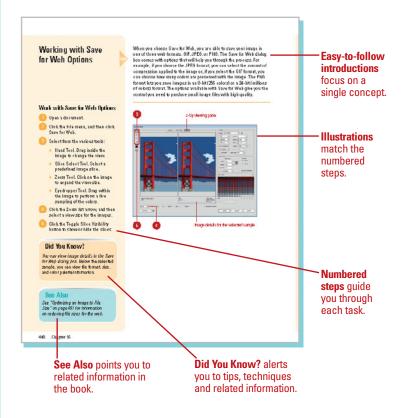
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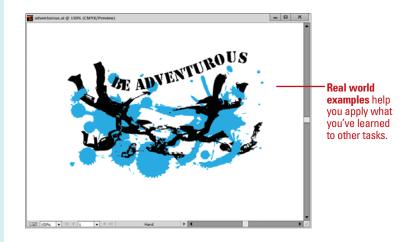
Step-by-Step Instructions

This book provides concise stepby-step instructions that show you "how" to accomplish a task. Each set of instructions includes illustrations that directly correspond to the easy-to-read steps. Also included in the text are timesavers, tables, and sidebars to help you work more efficiently or to teach you more in-depth information. A "Did You Know?" provides tips and techniques to help you work smarter, while a "See Also" leads you to other parts of the book containing related information about the task.



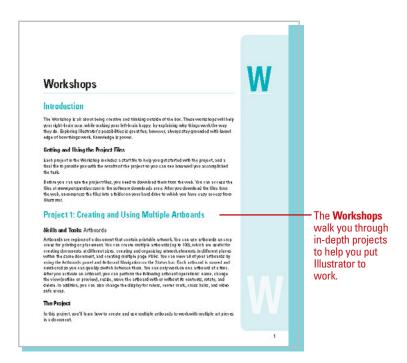
Real World Examples

This book uses real world example files to give you a context in which to use the task. By using the example files, you won't waste time looking for or creating sample files. You get a start file and a result file, so you can compare your work. Not every topic needs an example file, such as changing options, so we provide a complete list of the example files used throughout the book. The example files that you need for project tasks along with a complete file list are available on the web at www.queondemand.com or www.perspection.com.



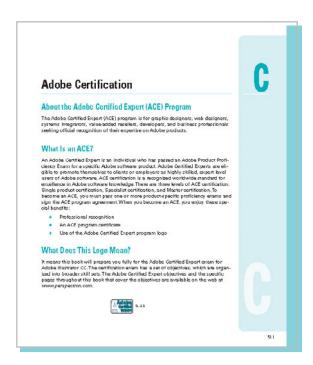
Workshops

This book shows you how to put together the individual step-by-step tasks into in-depth projects with the Workshop. You start each project with a sample file, work through the steps, and then compare your results with a project results file at the end. The Workshop projects and associated files are available on the web at www.queondemand.com or www.perspection.com.



Adobe Certification

This book prepares you fully for the Adobe Certified Expert (ACE) exam for Adobe Illustrator CC. Each Adobe Certified Expert certification level has a set of objectives, which are organized into broader skill sets. To prepare for the certification exam, you should review and perform each task identified with an ACE objective to confirm that you can meet the requirements for the exam. Information about the ACE program is available in the back of this book. The Adobe Certified Expert objectives and the specific pages that cover them are available on the web at www.queondemand.com or www.perspection.com.



Get More on the Web

In addition to the information in this book, you can also get more information on the web to help you get up-to-speed faster with Illustrator CC. Some of the information includes:

Transition Helpers

Only New Features.
 Download and print the new feature tasks as a quick and easy guide.

Productivity Tools

Keyboard Shortcuts.
 Download a list of keyboard shortcuts to learn faster ways to get the job done. Also available in the back of this book.

More Content

- Photographs. Download photographs and other graphics to use in your Illustrator documents.
- More Content. Download new content developed after publication.

You can access these additional resources on the web at www.perspection.com.



Keyboard Shortcuts

Adobe Illustrator CC

If a ommand on a new includes a key-board affectore, known as a key-board short or, to the fight of the command name, you can perform the action by preating and holding the first key, and their pressing the second key to perform the command quidly. In some cases, a key-board chorest uses three keys, Simply prease and hold the first two keys, and then press the third key, Key-board shorecure provide an alternative to unity the mouse and make it leads to perform repetitive commanders to unity the mouse and make it leads to perform repetitive committee.

If you're searching for new keyboard shortouts in Illustrator CC, just look for the letter: N. The Mappears in the Keyboard Shortouts table so you can quickly and easily identify new or changed shortouts.

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Direct Selection tool	A	А
Magic Wand tool	γ	γ
Lasso tool	u	u
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- Additional content is available on the web.

1

Working with Objects

Introduction

Adobe Illustrator is an application that that provides tools you can use to work with vector graphics, which include vector shapes and vector objects. Vector graphics are created using mathematical shapes, not pixels, and that's why vector shapes are considered resolution-independent. When you draw a vector object, you create one or more lines called a path. A path is made up of one or more curved or straight line segments. The start and end points for a line segment is known as an anchor point, which you can drag to change and move.

Illustrator provides drawing tools on the Tools panel that you can use to create a variety of shapes, including rectangles, rounded rectangles, ellipses, polygons, stars, flares, lines, arcs, spirals, rectangle grids, and polar (circular) grids. After you draw an object, you can use Illustrator selection tools to modify it. The two main selection tools are the Selection tool and the Direct Selection tool. The Selection tool allows you to select entire objects, while the Direct Selection tool allows you to select paths and segments. In addition to these tools, you can also use the Select menu. The Select menu provides a variety of powerful selection commands for you to use in a document or artboard. For example, you can select objects whose attributes (including Appearance, Blending Modes, Fill & Stroke, Opacity, and Stroke Color) are similar to the current or last selection.

After you select one or more objects, you can move, align, group, and transform them. The transformation tools allow you to rotate, scale (resize), reflect (mirror image), or shear (slant) an object.

What You'll Do

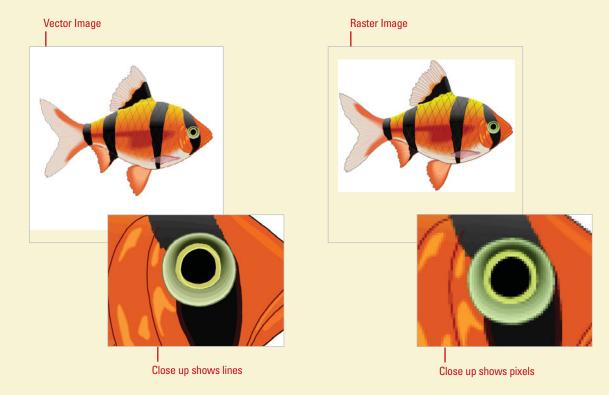
Understand Vector and Raster Images Understand Paths Select a Drawing Mode **Create Pixel Aligned Objects Create Rectangles and Ellipses Create Polygons and Stars Create Line Segments** Create Arcs, Spirals, and Grids Use the Shape Builder Tool **Create Perspective Objects** Use the Selection Tool Use the Direct Selection Tool Use the Lasso Tool **Use the Magic Wand Tool** Select and Group Objects Save and Edit Selections **Move and Duplicate Objects** Align and Distribute Objects Transform Objects Rotate, Scale, Reflect, or Shear Objects Apply Multiple Transformations

Reshape Objects with Envelopes

Understanding Vector and Raster Graphics

Illustrator is an application that gives you great control over vector graphics, which include vector shapes and vector objects. Vector graphics are created using mathematical shapes, not pixels, and that's why vector shapes are considered resolution-independent. For example, if you enlarge a vector image to 100 times its original size, Illustrator merely changes the mathematical formulas to reflect the new size, and since vector shapes are constructed of mathematical data instead of pixels, file sizes are extremely small.

Raster graphics, such as bitmaps and photographs, are images creating using individual pixels that identify one piece of color information. The reason raster images are considered resolution-dependent is that once the image is created or scanned, any enlargement of the image forces Illustrator to enlarge and average the existing color information in the document. This process, called **interpolation**, is what causes enlarged raster images to become blurred, or pixelated.



Understanding Paths

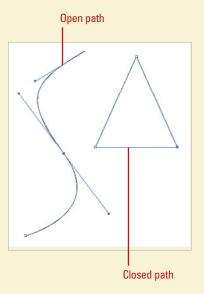
When you draw an object, you create one or more lines called a path. A path is made up of one or more curved or straight lines, known as **segments**. The start and end points for a segment is called an **anchor point**. An anchor point is a bending point to modify the line segment. A path can be open or closed. An open path has open-ended endpoints, such as a line, while a closed path has connected endpoints, such as a circle. Paths can have two types of anchor points: smooth points or corner points. A smooth point connects two curved segments to create a smooth line, while a corner point connects two straight or curved segments to create a path direction change. You can draw a path using both smooth and corner points. The outline of a path is called a stroke, which you can format with different characteristics. You can specify stroke weight (thickness), color, or a dashed pattern. The interior of an open or closed path is called a fill, which you can also format with a color or gradient.

You can change the shape of a path by dragging its anchor point. A selected anchor point or endpoint appears as a solid square, while an unselected one appears as a white square. When you select an anchor point with a curved segment, a direction line appears with direction points on each end, which you can drag to change the shape of the path. When you change the shape of a smooth point with curved segments on each side, both segments get changed. When you change a shape of a corner point, the corner is maintained, but adjusted based on the change.

Working with Anchor Points

In Illustrator, you can show or hide anchor points, direction lines, and direction points by choosing the View menu, and then choosing Show Edges or Hide Edges. If you want to show or hide direction lines for selected anchor points, select the Direct Selection tool, select the anchor point that you want, and then click Show Handles For Multiple Selected Anchor Points or Hide Handles For Multiple Selected Anchor Points button in the Control panel.

You can specify options in the Selection & Anchor Display preferences to always show handles when multiple anchor points are selected (this option is turned off by default).



Selecting a Drawing Mode

object. You can draw on top of an object, behind an object, or inside an object using one of the following drawing modes: Draw Normal, Draw Behind, or Draw Inside. Draw Normal mode is the default drawing mode and the one used in previous versions of Illustrator. The Draw Behind mode allows you to draw behind all objects on a selected layer (no other objects selected). If an object is selected, the new object is drawn directly behind it. The Draw Inside mode allows you to draw inside a single selected object, which automatically creates a clipping mask from the selected object. You can select a drawing mode at the bottom of the Tools panel or use the Shift+D keyboard shortcut to cycle through each one.

In Illustrator, you can specify how and where you want to draw an

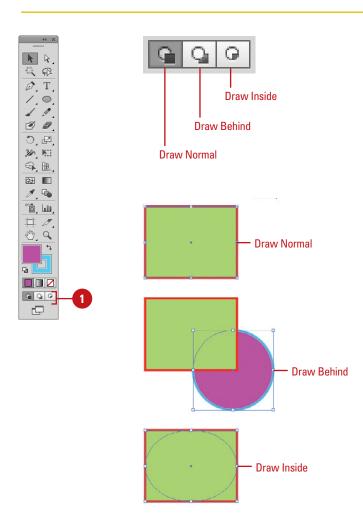
Select a Drawing Mode

- Select the **Drawing Mode** tool on the Tools panel:
 - Draw Normal. Draws an object on top of any other object; the default mode.
 - Draw Behind. Draws an object behind all objects (no selection) or directly behind a selected object.
 - Draw Inside. Draws an object inside a single selected object.

TIMESAVER Press Shift+D to cycle through the Drawing Mode tools.

Did You Know?

You can create a clipping mask using the Draw Inside mode. Select the path you want to draw, and then click the Draw Inside mode button on the Tools panel. Subsequent paths are clipped by the selected path until you switch to the Draw Normal mode. The clipping masks created using the Draw Inside mode retain the appearance on the clipping path unlike the Make command on the Clipping Mask submenu on the Object menu.

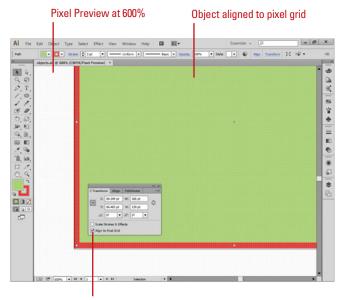


Creating Pixel Aligned Objects

Work with Pixel Aligned Objects

- Align All Objects in a New Document. Click the File menu, click New, specify new document settings, select the Align New Objects To Pixel Grid check box in the Advanced section, and then click OK.
- Align Existing Objects. Select the object, open the Transform panel, and then select the Align To Pixel Grid check box. If not available, click the Options button, and then click Show Options.
- Not Align Objects. Select the objects you want to change, click the Select menu, point to Object, and then click Not Aligned To Pixel Grid.
- View The Pixel Grid. Click the View menu, click Pixel Preview, and then zoom to 600% or higher.
 - To set preferences for viewing pixel grid, click the Edit (Win) or Illustrator (Mac) menu, point to Preferences, click Guides & Grid, select the Show Pixel Grid (Above 600% Zoom) check box, and then click OK.

Pixel aligned vector objects allow you to create precisely drawn images that look crisp and sharp for use on different outputs, such as the Web and mobile devices. The Align to Pixel Grid option enables the vertical and horizontal segments of the paths of an object to be nudged and aligned to the pixel grid. The stroke width values become full integer to create crisp paths. To view the pixel grid, zoom to 600% or higher in Pixel Preview mode. The Align to Pixel Grid option remains enabled with the object until it's disabled. You can set the option in the Advanced section of the New Document dialog box or the Options menu on the Transform panel. The option in the New Document dialog box applies it any new objects in the document. You cannot pixel-align objects without paths, such as rasters, raster effects, and text objects.



Align To Pixel Grid option in the Transform panel

Creating Rectangles and Ellipses

Draw an Ellipse or Circle

1 Select the **Ellipse** tool on the Tools panel.

TIMESAVER *Press L to select the Ellipse tool.*

- 2 Select a Stroke and Fill Color from the Colors area of the Tools panel.
- 3 Click and drag on the artboard, and then release the mouse.

TIMESAVER Press and hold Shift while you drag to create a circle.

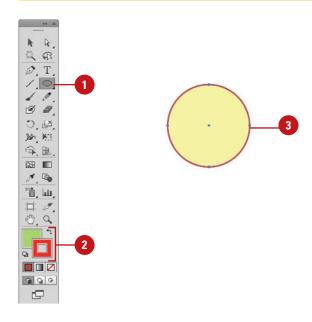
To create an oval or circle with a specific width and height, click on the artboard where you want the top left corner, enter width and height values, and then click **OK**.

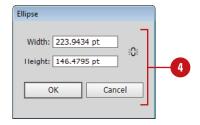
Did You Know?

You can enter values ranging from 0 to 16,383 points in the Rounded Rectangle Settings dialog box. A value of zero gives you a straight-sided-square. Higher numbers produce squares with more rounded sides.

You can draw shapes without a stroke or a fill. Set either of these properties to No Fill in the Colors section of the Tools panel or in the Color panel.

The Illustrator Tools panel includes several tools for quickly creating simple geometric vector shapes. They are easy to use; you just click and drag on the Stage to create the shapes. The Rectangle tool creates rectangles with square or rounded corners. The Ellipse tool creates circular shapes such as ovals and circles. These shapes can be comprised either of Strokes, which are lines that surround and define the shape, or Fills, which can be a color or texture inside the shape, or both.





Draw a Rectangle or Rounded Rectangle

Click the **Rectangle** or **Rounded Rectangle** tool on the Tools panel.

TIMESAVER Press M to select the Rectangle tool.

- 2 Select a Stroke and Fill color from the Colors area of the Tools panel.
- 3 Click and drag on the artboard, and then release the mouse.

TIMESAVER Press and hold Shift while you drag to create a square.

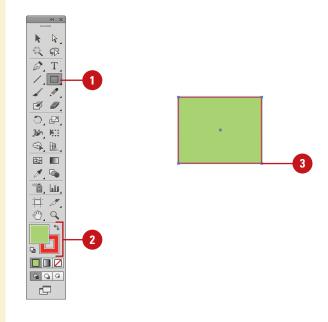
4 To create a square, rectangle, or rounded rectangle with a specific width and height, click on the artboard where you want the top left corner, enter width and height values, and then click **OK**.

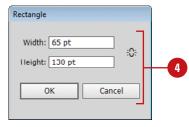
Did You Know?

You can change the corner radius for a rounded rectangle. While you drag a rounded rectangle, press the Up Arrow or Down Arrow key. To create square corners, press the Left Arrow key. To create corners with maximum roundness, press the Right Arrow key.

You can draw shapes with no stroke or fill. If you want to draw an oval or a rectangle without a stroke or fill, you can set either of these options to No Fill in the Colors area of the Tools panel or in the Color panel.

You can create a flare shape using the Flare tool. Select the Flare tool on the Tools panel, click and drag on the artboard, and then release the mouse.





Creating Polygons and **Stars**

Draw a Polygon or Star Shape

1 Select the **Polygon** or **Star** tool on the Tools panel.

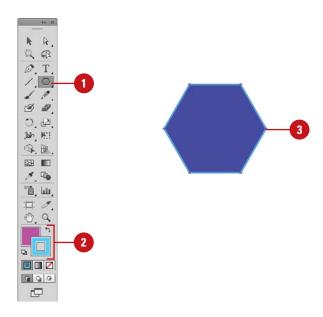
The pointer becomes a crosshair that you can drag anywhere on the artboard.

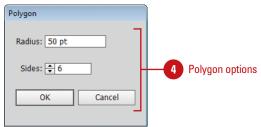
- Select a Stroke and Fill color from the Colors area of the Tools panel.
- 3 Click and drag on the artboard, and then release the mouse.

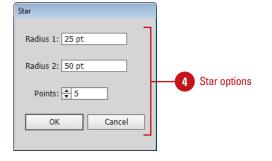
TIMESAVER Press and hold Shift while you drag to create a proportional shape.

- To create a shape with a specific radius and number of sides or points, click on the artboard where you want the center of the shape, enter the following values, and then click **OK**.
 - Polygon. Enter a radius and number of sides for the polygon. To create a triangle, enter 3 sides.
 - Star. Enter radius 1 for the distance from the center of the star to the innermost points and enter radius 2 for the distance from the center to the outermost points.

The Polygon and Star tools work in much the same way as the Ellipse and Rectangle tools do to allow you to easily create complex vector shapes. You can use these tools to create either polygons or stars. Polygons are shapes based on a center radius and a number of sides, while stars are shapes based on two center radiuses: one for the distance from the center of the star to the innermost points, and another for the distance from the center to the outermost points. Experiment with several options to get the kind of shape you want.







Creating Line Segments

Draw a Line Segment

1 Click the **Line Segment** tool on the Tools panel.

The pointer becomes a crosshair that you can drag on the artboard.

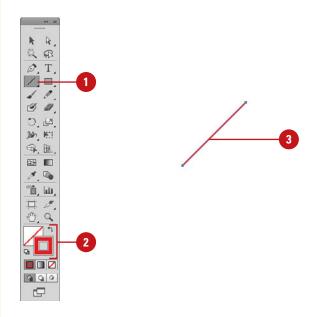
TIMESAVER *Press* \ *to select the Line tool.*

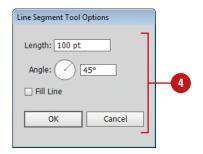
- Select a Stroke color from the Colors area of the Tools panel.
- 3 Click and drag on the artboard, and then release the mouse when the line is the length you need.

TIMESAVER Hold down the Shift key, and then drag to draw a 45, 90, or 180 degree line.

4 To create a line with a specific length and angle, click on the artboard where you want the line to begin, enter length and angle values, select the **Fill Line** check box to fill the line with the current fill color, and then click **OK**.

The Line Segment tool draws perfectly straight lines in any direction you drag your mouse. In Illustrator, a line is called a stroke and there is a variety of thicknesses, styles, colors, and fills that can be applied to it. You can also create your own line style for specific types of dashed, dotted, or artistic lines. You can constrain the path a line draws to 45-degree angles or create closed shapes by intersecting the lines you draw.





Creating Arcs and Spirals

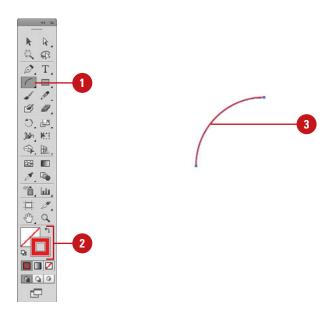
Draw an Arc

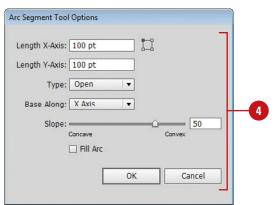
1 Click the **Arc** tool on the Tools panel.

The pointer becomes a crosshair that you can drag on the artboard.

- 2 Select a Stroke color from the Colors area of the Tools panel.
- 3 Click and drag on the artboard, and then release the mouse when the arc is the length you need.
- 4 To create an arc with specific settings, click on the artboard where you want the arc to begin, enter x and y lengths, specify type (open or closed), arc direction (Base Along) and slope options, select the **Fill Arc** check box to fill the arc with the current fill color, and then click **OK**.

The Arc and Spiral tools make it easy to create unique and interesting shapes. These tools draw curved lines to create an individual arc or a Spiral wind. An arc consists of an x and y axis length, open or closed path, arc direction (known as the Base Along), arc slope, and arc fill (optional). A Spiral consists of a radius from the center to the outermost point in the Spiral, decay (the amount each wind decreases), number of segments for the spiral, and Spiral style. Each full wind of a Spiral consists of four segments.



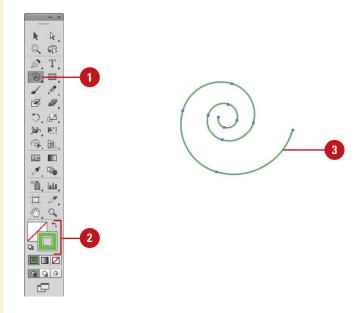


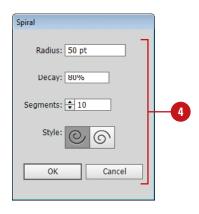
Draw a Spiral

1 Click the **Spiral** tool on the Tools panel.

The pointer becomes a crosshair that you can drag on the artboard.

- Select a Stroke color from the Colors area of the Tools panel.
- 3 Click and drag on the artboard, and then release the mouse when the Spiral is the length you need.
- To create a Spiral with specific settings, click on the artboard where you want the Spiral to begin, enter a radius (distance) from the center to the outermost point, decay percentage (amount of the wind decreases), the number of segments, and style options, and then click **OK**.





Creating Grids

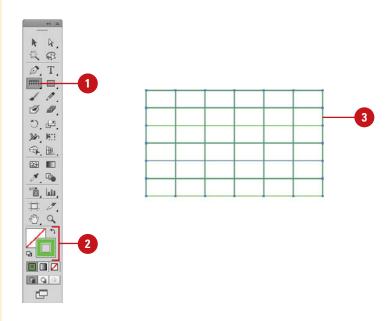
Draw Rectangle Grids

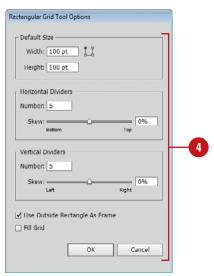
1 Click the **Rectangle Grid** tool on the Tools panel.

The pointer becomes a crosshair that you can drag on the artboard.

- Select a Stroke color from the Colors area of the Tools panel.
- 3 Click and drag on the artboard, and then release the mouse when the grid is the size you need.
- To create a grid with specific settings, click on the artboard where you want the grid reference point, enter a width and height for the grid, specify the number of horizontal and vertical dividers, select the Use Outside Rectangle As Frame check box to replace individual segments with a separate rectangle object, select the Fill Grid check box to fill the grid with the current fill color, and then click OK.

The grid tools on the Tools panel allow you to create a rectangular or circular polar grid. The Rectangular Grid tool creates rectangular grids of a specified size and number of horizontal and vertical dividers. The Polar Grid tool creates concentric circles of a specified size and specific number of concentric and radial dividers.



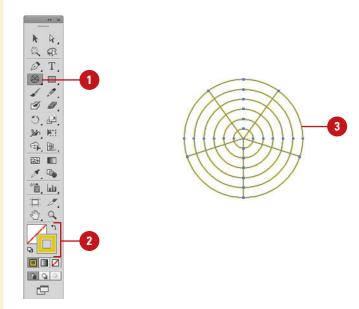


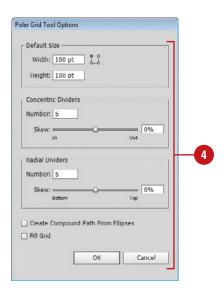
Draw Circular Polar Grids

1 Click the **Polar Grid** tool on the Tools panel.

The pointer becomes a crosshair that you can drag on the artboard.

- Select a Stroke color from the Colors area of the Tools panel.
- 3 Click and drag on the artboard, and then release the mouse when the grid is the size you need.
- To create a grid with specific settings, click on the artboard where you want the grid reference point, enter a width and height for the grid, specify the number of concentric and radial dividers, select the Create Compound Path From Ellipses check box to replace circles with separate compound paths, select the Fill Grid check box to fill the grid with the current fill color, and then click OK.





Using the Shape Builder Tool

Create an Object with the Shape Builder Tool

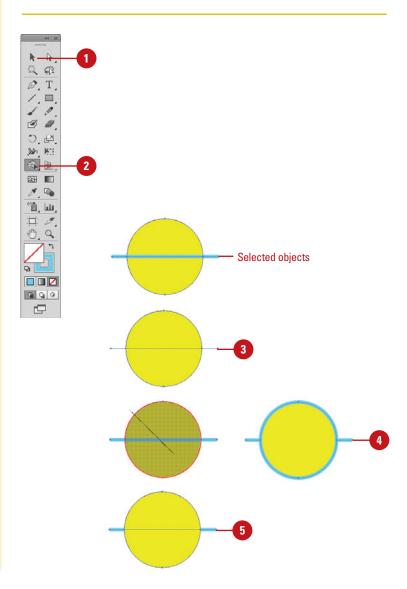
- 1 Click the **Selection** tool on the Tools panel, and then select only the paths you want to merge to create a shape.
- 2 Click the **Shape Builder** tool on the Tools panel. By default, merge mode is selected.
- 3 To break or extract a region from the shape, click the selected region.
- 4 To merge paths, drag along the region.

The two regions get merged to form a new shape. The attributes from the region are applied to the merging shapes.

TIMESAVER Pressing Shift as you drag displays a rectangle marquee for merging multiple paths.

5 To erase paths, press Alt (Win) or Option (Mac) and click the closed region or edge you want to delete.

The Shape Builder tool allows you to create complex objects by merging and erasing simpler objects. The Shape Builder tool selects edges and regions of an object, which can be merged or erased to form a new object. An edge is any section of a path that doesn't intersect the path of other selected objects and a region is a closed area. You can also break overlapping objects to create new ones. The style attributes of an object are adopted after the merge. By default, the Shape Builder tool is in merge mode; however, you can switch to erase mode by using the Alt (Win) or Option (Mac) key. Before you start using the Shape Builder tool, you can set up and customize options, such as coloring source, highlighting, and gap detection, to suit your own preferences.



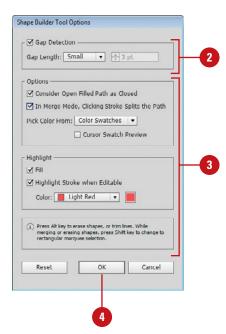
Set Shape Builder Tool Options

- 1 Double-click the Shape Builder tool on the Tools panel.
- To detect and show the gap between objects, select the Gap **Detection** check box, and then select a Gap Length, either Small (3 points), Medium (6 points), or Large (12 points), or select the Custom check box and specify a point size length.

IMPORTANT Make sure the gap length value is close to the actual gap length, otherwise Illustrator may not detect it.

- Specify the Options and Highlight settings you want:
 - Consider Open Filled Path as Closed. Select to create an invisible edge for an open path to make a region.
 - ♦ In Merge Mode, Clicking Stroke Splits the Path. Select to split the parent path into two; the first edge you click specifies the split location.
 - Pick Color From. Select Color Swatches or Artwork as the source for coloring objects. If you select Color Swatches, select the Cursor Swatch Preview check box to preview and select colors.
 - Fill. Select to highlight the merged area in gray or mouse over the selected path.
 - Highlight Stroke When Editable. Select to highlight strokes you can edit in the color you select.
- Click OK.





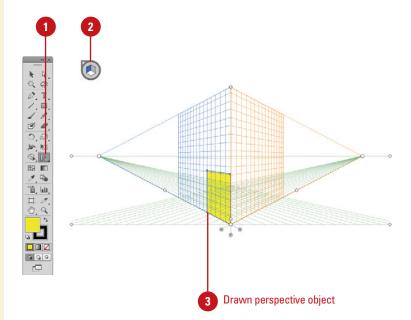
77

Creating Perspective Objects

Draw Perspective Objects

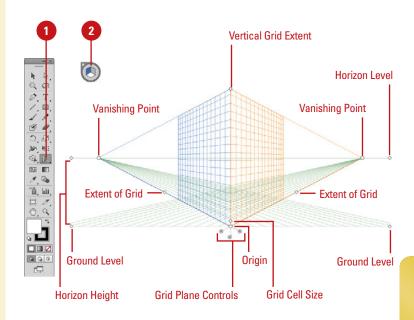
- 1 Click the **Perspective Grid** tool on the Tools panel.
 - If the grid doesn't appear, click the View menu, point to Perspective Grid, and then click Show Grid.
- To select a perspective grid preset, click the View menu, point to Perspective Grid, point to a Point Perspective (One, Two, or Three), and then select a preset.
- 3 To draw objects on the grid, do any of the following:
 - Draw Perspective Objects.
 Select a Line tool (other than the Flare tool) or Rectangle tool, and then drag to draw it.
 - Attach Normal Objects. Select the plane to which you want to use, select the normal object, click the Object menu, point to Perspective, and then click Attach to Active Plane.
 - Release Perspective Objects.
 Select the attached object,
 click the Object menu, point to
 Perspective, and then click
 Release with Perspective.
 - Move Plane to Match Objects.
 Select the existing object, click the Object menu, point to Perspective, and then click Move Plane To Match Object.

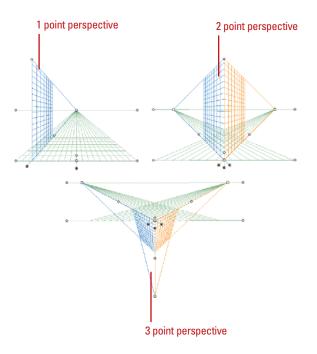
The Perspective Grid tool allows you to display a perspective grid that you can use to draw shapes and create scenes with 1, 2, or 3-point perspective. For example, you can create a row of trees down a street to create perspective. The perspective grid provides presets with a 1, 2, or 3-point perspective to help you get started. You can change the viewing angle and distance along with widgets to control vanishing points, horizon height, ground level, and the origin. You can draw objects directly on the perspective grid or attach existing ones to it. If you want to match the depth or height of an existing perspective object, you can use the Move Plane To Match Object command to adjust the grid, so you can draw or adjust another object to it.



Adjust the Perspective Grid

- 1 Click the **Perspective Grid** tool on the Tools panel.
 - If the grid doesn't appear, click the View menu, point to
 Perspective Grid, and then click
 Show Grid.
- 2 To select the active grid plane, click a plane in the cube (Right, Left, or Horizontal) in the Plane Switching Widget. Click the area outside the cube to select no plane.
- To adjust the perspective grid, drag the left or right controls on the grid for any of the following:
 - Ground Level. Moves the perspective grid.
 - Vanishing Points. Adjusts the perspective in or out.
 - Horizon Height. Adjusts the horizon line up or down.
 - Extend the Grid. Extends or shortens the perspective grid.
 - Grid Plane Controls. Adjust the Right, Horizontal, or Left.
 - Grid Cell Size. Increases or decreases the grid cell size.
 - Origin. Adjusts the X and Y coordinates of the grid plane.
- 4 To set perspective grid related options, click the **View** menu, point to **Perspective Grid**, and then click any of the following:
 - Show/Hide Rulers. Shows or hides the ruler on the height line.
 - Snap to Grid. Snaps an object to a perspective gridlines.
 - Unlock/Lock Grid. Unlocks or locks the perspective grid.
 - Lock Station Point. Locks the station point in place. When you move one vanishing point, the other one moves in sync.





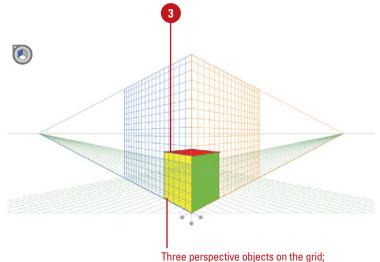
Working with Perspective Objects

Modify Perspective Objects

- 1 Click the View menu, point to Perspective Grid, and then click Show Grid.
- 2 Click the **Perspective Selection** tool on the Tools panel.
- 3 To work with perspective objects on the grid, do any of the following:
 - Move Perspective Objects.
 Select the object, and then drag it to another position or use the Arrow keys. Press tilde (~) to constrain the move to parallel.
 - Move or Copy Perspective
 Objects and Grid Plane.
 Double-click a grid plane
 control, click the Move All
 Objects or Copy All Objects
 option, click OK, and then drag
 the grid plane control.
 - Copy Perspective Objects.
 Select the object, and then
 Option+drag (Mac) or Alt+drag
 (Win) it to another position.
 - Resize Perspective Objects.
 Select the object, and then drag a resize handle.
 - Add Normal Objects. Select the active plane, and then drag the normal object to the plane.
 - Add Text and Symbols. Select an existing normal text or symbol, and then drag it on the active plane. To modify the text and symbols, use the Edit Text, Edit Perspective, and Isolate Selected Object buttons on the Control panel.

The Perspective Selection tool allows you to select, move, scale, copy, and transform objects in perspective. You can also add normal objects, text, and symbols to the perspective grid. When you move or change a normal object to the perspective grid, its appearance and scale change to adhere to the grid. You can select perspective objects in the grid with the Perspective Selection tool by clicking individual objects or dragging a selection marquee, just like normal objects.





they were moved, copied and resized.

Customizing a Perspective Grid

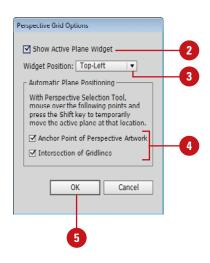
Set Perspective Grid Options

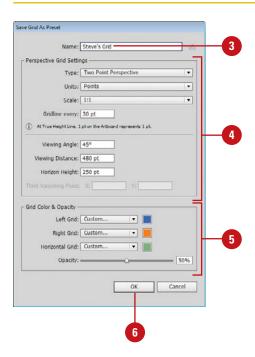
- 1 Double-click the **Perspective Grid** tool on the Tools panel.
- 2 Select the Show Active Plane Widget check box to display it.
- 3 Click the **Widget Position** list arrow, and then select a position.
- 4 Select the Anchor Point Of
 Perspective Artwork or the
 Intersection Of Gridlines check
 boxes to specify the points where
 you want to temporarily hide the
 active plane with the Shift key.
- 5 Click **OK**.

Create a Perspective Grid Preset

- 1 Click the View menu, point to Perspective Grid, and then click Define Grid to create a grid (steps 3 thru 6) or manually create one.
- Click the View menu, point to Perspective Grid, and then click Save Grid As Preset.
- Type a name for the preset.
- Specify the perspective grid settings you want.
- 5 Specify the grid color & opacity settings you want.
- 6 Click **OK**.
- 7 To edit a grid preset, click the Edit menu, click Perspective Grid Presets, select a preset, click Edit, make changes, and then click OK.

If you create your own perspective grid, you save it as a preset for use later. You can create a perspective grid by using the Define Grid command to set exacting measurements and options or by manually adjusting an existing grid, and then saving it as a preset, which you can edit at any time. When you create or work with an existing perspective grid, you can set grid options to show or hide the active plane widget, change the widget position, and specify which points you want to use to temporarily hide the active plane with the Shift key.





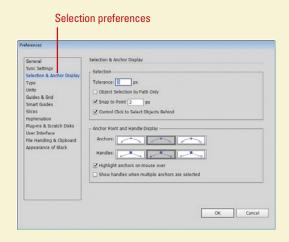
Understanding Selections

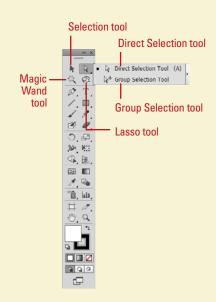
When you create vector graphics in Illustrator, they are comprised of distinct segments that can be selected separately or as a whole with a variety of selection tools. The type of editing you need to perform determines which tool you use. For example, a simple rectangle is comprised of four line segments that surround the contour of the shape and one fill in the center. Each of these parts can be selected as a group with the Selection tool or individually with the **Direct Selection** tool. To select an object using the fill, you need to deselect the Object Selection by Path Only check box in Selection & Anchor Display preferences. If an object is behind another object, you can use the keyboard shortcut (3 %)+click (Mac) or Ctrl+click (Win) to select it. The pointer changes to an arrow with a small caret on the first [3] /Ctrl+click; as you continue to click, the selection moves through the objects under the pointer. To use this option, you need to select the Control (Win) or Command (Mac) Click to Select Objects Behind check box in Selection & Anchor Display preferences.

In addition to the Selection and Direct Selection tools, you can also use the **Group Selection** tool to select all the anchor points on a single path. With the Group Selection tool, click to select an object, click twice to select the object's group, and click three times to select the group within the group (if available). The Group Selection tool is useful for working with multiple objects. If you want to work with an individual object without affecting other objects, it's better to use Isolation Mode.

The **Lasso** tool is a classic selection tool that allows you to select path points and segments by dragging a freeform marquee around them.

The **Magic Wand** tool allows you to select objects of the same or a similar fill color, stroke color, stroke weight, opacity, or blending mode.





Using the Selection Tool

Select an Object with the Selection Tool

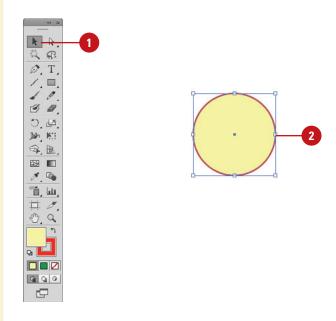
1 Click the **Selection** tool on the Tools panel.

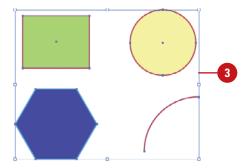
The pointer becomes an arrow.

TIMESAVER Press V to select the Selection tool.

- 2 Position the arrow on the edge of the object, and then click it.
 - You can also drag a marquee across all or part of the object to select the entire path.
 - If the path has a color fill, appears in Preview mode, and the Object Selection by Path Only check box is deselected in Selection & Anchor Display preferences, you can also click the fill to select the object.
- 3 To add or subtract objects from the selection, hold down the Shift key, and then click unselected objects to add or click selected objects to subtract them from the selection.

There are several ways to select objects in Illustrator. With the Selection tool, you can select an object's stroke or fill. You can only select an object using the fill if the path appears in Preview mode, and the Object Selection by Path Only check box is deselected in Selection & Anchor Display preferences. After you select one or more objects, you can add or subtract objects to/from the selection. In addition, you can use the Selection tool and drag a marquee to select parts of the object or drag over a portion of it to create a selection rectangle.





Using the Direct Selection Tool

Select Anchor Points and Segments with the Direct Selection Tool

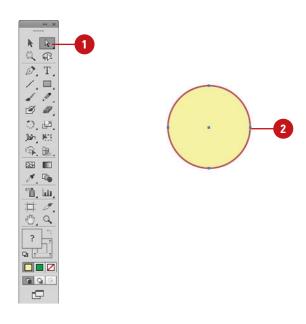
1 Click the **Direct Selection** tool on the Tools panel.

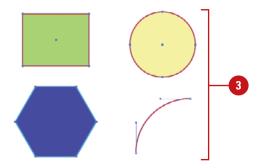
The pointer becomes an arrow.

TIMESAVER *Press A to select the Direct Selection tool.*

- Position the arrow on the edge of the path and click to select a segment, and then click an anchor point to select it.
 - You can also select an anchor point directly. Pass the pointer over a path, point to an anchor point and then click it.
 - You can also drag a marquee across all or part of the object to select the entire path.
- To add or subtract anchor points or segments from the selection, hold down the Shift key, and then click unselected items to add them or selected items to subtract them from the selection.

With the Direct Selection tool, you can select individual points and segments of a path. After you select one or more individual points and segments, you can add or subtract items to/from the selection. In addition, you can also use the Direct Selection tool and drag a marquee to select parts of the path or drag over a portion of it to create a selection rectangle.





Using the Lasso Tool

Select with the Lasso Tool

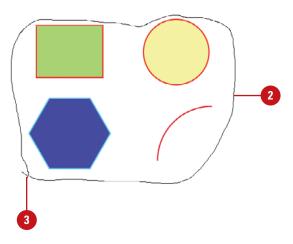
- 1 Click the **Lasso** tool on the Tools panel.
- 2 Draw around the shapes you want to select.
- 3 To complete the selection, return to the point where you started.

Did You Know?

You can select single or multiple objects. Holding the Shift key adds line segments and fills them. Shift-clicking selected items deselects them.

Use the Lasso tool when you want to select shapes that are very close to shapes you don't want to select. This tool allows you to draw around the shape, selecting everything contained within the drawn area. When you draw a selection, you can drag across a path to include it in the selection instead of dragging completely around it. This selection tool is useful when you are working with overlapping paths.





Using the Magic Wand Tool

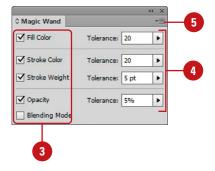
Select Options for the Magic Wand Tool

- 1 Double-click the **Magic Wand** tool on the Tools panel.
 - You can also click the Window menu, and then click Magic Wand to display the panel.
- Click the Options button, and then select the Show Stroke Options and Show Transparency Options (if necessary) to display them in the Magic Wand panel.
 - You can also click the doublearrow next to the Magic Wand title to display options.
- 3 Select the check box for the attributes that you want the Magic Wand to select. The options include: Fill Color, Stroke Color, Stroke Weight, Opacity, or Blending Mode.
- 4 Enter a Tolerance value (0 to 255).
 The higher the value, the more information the Magic Wand tool selects.
- 5 To select objects on all layers, click the **Options** button, and then select **Use All Layers** to check it. Select it again to select objects only on the current layer.
- To reset all fields in the Magic Wand panel, click the **Options** button, and then click **Reset**.

The Magic Wand tool (so named since it looks like a magic wand) is unique in the fact that you do not drag and select with this tool; you simply click. The Magic Wand tool creates a selection based on the shift in brightness ranges within an image. If there is a definable shift in the brightness of the pixels, it can be a very powerful tool for the selection of odd-shaped areas. To use the Magic Wand, click on the Magic Wand Tool button on the Tools panel.







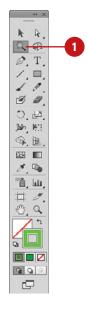
Use the Magic Wand Tool

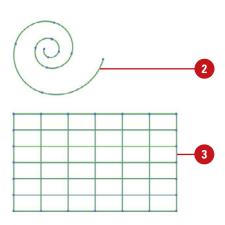
- 1 Select the **Magic Wand** tool on the Tools panel.
- Click an object area to make a selection.

Depending on the options you selected in the Magic Wand panel, other objects with the same or similar attributes (fill color, stroke color, stroke weight, opacity, or blending mode) are selected.

To add to the selection, hold down the Shift key, and then click another unselected object.

To subtract from the selection, hold down the Alt (Win) or Option (Mac) key, and then click a selected object.



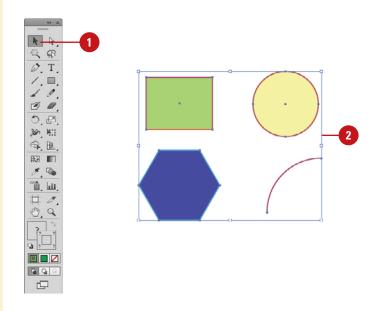


Selecting and Grouping Objects

Create a Group

- Select the **Selection** tool on the Tools panel.
- 2 Use a selection method to select the objects that you want in the group.
- 3 Click the **Objects** menu, and then click **Group**.
 - You can use the Group command again to group objects already in a group; this is known as a nested group.

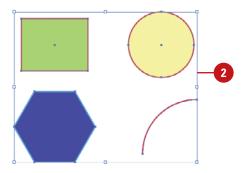
Selecting and grouping objects makes it easier to work with multiple objects as if they were a single object. You can easily select, isolate, cut, copy, paste, move, recolor, and transform a grouped object. You can group all types of objects, yet still edit individual objects within the group as needed without having to ungroup them first by using Isolation Mode. Illustrator places a grouped object on the top level of the top object in the group and uses the same selection color. If you no longer need to group objects, you can ungroup them.



Ungroup Objects

- 1 Select the **Selection** tool on the Tools panel.
- 2 Select the grouped objects that you want to ungroup.
- 3 Click the **Objects** menu, and then click **Ungroup**.
 - If you have nested groups within an object, you can use the Ungroup command again to ungroup it.





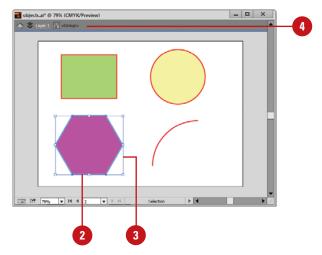
Use Isolation Mode to Work with Groups

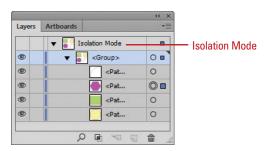
- 1 Select the **Selection** tool on the Tools panel.
- Double-click a grouped object.
 - You need to click the Isolate Selected Object button on the Control panel or select the Double-click to Isolate check box in General preferences.

A gray bar appears with the name of the group at the top of the document window. All objects outside the group are dimmed out and uneditable. The words "Isolation Mode" also appear on the Layers panel.

- 3 Edit individual objects or add new objects to the group.
- 4 To exit Isolation Mode, click the gray bar.





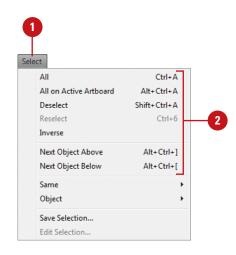


Selecting Similar Objects

Use the Select Menu to Select Objects

- 1 Click the Select menu.
- Select the command that you want:
 - All. Selects all objects in the document.
 - All on Active Artboard. Selects all objects in the active artboard.
 - Deselect. Deselects all objects in the document.
 - Reselect. Reselects the most recent selection.
 - Inverse. Inverses the current selection.
 - Next Object Above. Selects the next object above the current selection.
 - Next Object Below. Selects the next object below the current selection.

The Select menu provides a variety of powerful selection commands for you to use in a document or artboard. In addition to the common commands, such as All, Deselect, and Inverse, you can also select objects whose attributes (including Appearance, Blending Modes, Fill & Stroke, Opacity, and Stroke Color) are similar to the current or last selection. For more selection power, you can select objects based on the object type (including All on Same Layers, Direction Handles, Bristle Brush Strokes, Clipping Masks, Stray Points, Text Objects).

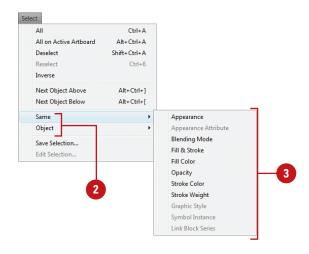


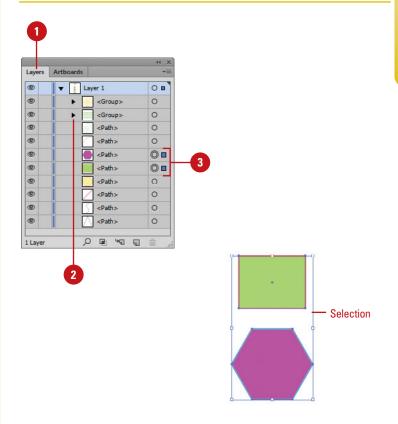
Select Similar Objects or Object Attributes

- 1 Select an object on which to base the new selection or deselect all objects to base the new selection on the last selected object.
- Click the Select menu, and then point to Same or Object.
- 3 Choose the command that you want to use to make a selection.

Select Objects in the Layers Panel

- Open the Layers panel.
- Click the expand/collapse triangle to display the layer that you want to select.
- 3 Click the selection area on the right side of the layer in the Layers panel that has the object that you want to select.
 - You can also click the Select menu, point to Object, and then click All on Same Layers to select all on a layer.



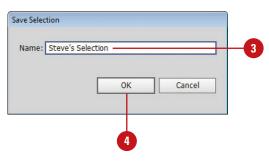


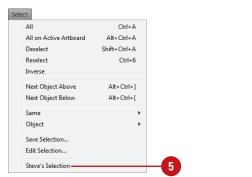
Saving and Editing Selections

Save and Use a Selection

- 1 Make the selection that you want to save.
- 2 Click the **Select** menu, and then click **Save Selection**.
- Enter a name for the selection.
- 4 Click **OK**.
- Click the Select menu, and then click the name of the saved selection at the bottom of the menu.

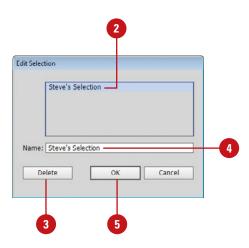
If you frequently select the same elements in a document, you can save yourself some time by saving the selection with a name of your choice. After you save a selection, the saved selection name appears as a menu command at the bottom of the Select menu. When you need to make the same selection, simply choose the command. When you no longer use a saved selection, you can delete it.





Edit a Saved Selection

- 1 Click the **Select** menu, and then click **Edit Selection**.
- Select the saved selection that you want to rename or delete.
- 3 To delete a saved selection, click **Delete**.
- To rename a saved selection, change the name in the Name box.
- 5 Click OK.



Moving Objects

Move an Object

- Select the **Selection** tool on the Tools panel.
- 2 Select one or more objects that you want to move.
- Orag the edge of an object.
 - To constrain the movement of the object to multiples of 45 degrees or the current angle in General preferences, hold down the Shift key as you drag.
 - If the path has a color fill, appears in Preview mode, and the Object Selection by Path Only check box is deselected in Selection & Anchor Display preferences, you can also click the fill to select the object.

Did You Know?

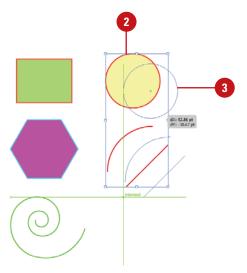
You can delete an object. Select the object that you want to delete, and then press Delete, or click the Edit menu, and then click Clear.

See Also

See "Using Smart Guides" on page 52 for more information on setting Smart Guide preferences and using Smart Guides.

Moving an object or group of objects is very easy. The simplest way is to drag the edge of an object in Outline or Preview view. If you want to constrain the movement of the object in multiples of 45 degrees, then use the Shift key as you drag. While you drag an object, Smart Guides appear automatically to make it easier for you to align objects with other objects.





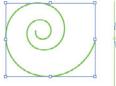
Duplicating Objects

Duplicate or Copy Objects

- 1 Select the **Selection** tool on the Tools panel.
 - If the object is in a group, select the **Direct Selection** tool on the Tools panel.
- Use any of the following methods:
 - Same Document. Hold down Alt (Win) or Option (Mac), and then drag the edge or fill of the object.
 - Different Documents. Open the documents side by side, and then drag the edge or fill of the object from one document to another.
 - Copy/Paste from Clipboard.
 Select the object, click the Edit menu, and then click Copy.
 Click in the target document or artboard, click the Edit menu, and then click Paste, Paste in Front, Paste in Back, Paste in Place, or Paste on All Artboards.
 - ★ Keyboard. Select the object, press Control (Win) or ☑® (Mac), and then use an Arrow key to move the duplicated object in the direction you want. The duplicate object moves away from the original object based on the current keyboard increment value in General preferences.

Duplicating objects can be a powerful way of creating geometrical artwork. You can duplicate one or more selected objects by dragging them, using Arrow keys, copying to and pasting from the Clipboard, or using the Offset Path command. When you copy objects to the Clipboard, you can paste them on an artboard several different ways: Paste, Paste in Front, Paste in Back, Paste in Place, or Paste on All Artboards. The Offset Path command duplicates a path (along with fill and stroke attributes) and places it on the artboard based on the offset distance specified in the Offset Path dialog box. The duplicate path is reshaped to fit around the original path.

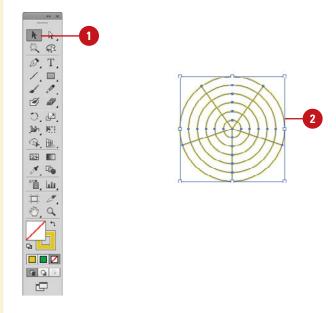


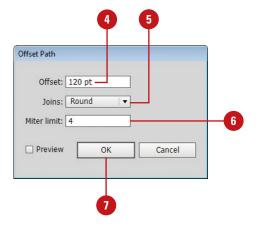


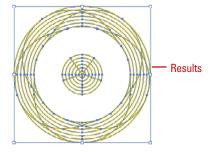


Duplicate Objects Using an Offset

- 1 Select the **Selection** tool on the Tools panel.
- 2 Select an object.
- 3 Click the **Object** menu, point to **Path**, and then click **Offset Path**.
- 4 Enter the distance you want to offset the duplicate path from the original object.
- 5 Click the **Joins** list arrow, and then select a bend style: **Miter** (pointed), **Round** (circular), or **Bevel** (square-cornered).
- You can set a limit (1-16,000) to determine when a mitered corner changes into a beveled corner. A low number creates a more beveled corner, while a high number creates a sharper corner.
- 7 Click **OK**.





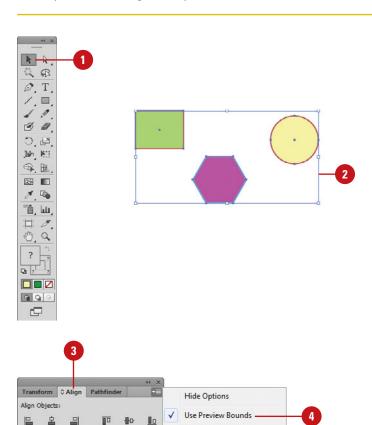


Aligning and Distributing Objects

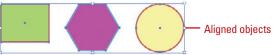
Align or Distribute Objects

- 1 Select the **Selection** tool on the Tools panel.
- Select two or more objects to align them or select three or more objects to distribute them.
- 3 Select the Align panel or click Align on the Control panel.
- 4 Click the **Options** button, and then click **Use Preview Bounds**. A checked option uses the object's stroke weight and any applied effects when aligning or distributing.
- If you want to align objects along the edges of the artboard, click the Align To button on the Align or Control panel, and then click Align to Artboard. Objects are moved on the artboard based on the alignment or distribution command to the closest edge (top and bottom, or left and right).
- 6 If you want to align objects to a key object, click an object to make it the key object (a thick blue outline appears and the Align To Key Object option is selected in the Align and Control panel).
- Use the alignment and distribution buttons on the Align or Control panel.

In addition to using grids and guides to align objects to a specific point, you can align a group of objects to each other. The Align panel buttons make it easy to align two or more objects relative to each other or to the page. To evenly align several objects to each other across the document, either horizontally or vertically, select them and then choose a distribution option. Before you select an align command, specify how you want Illustrator to align the objects. You can align the objects in relation to the document or to the selected objects. If you want to align all the objects to another object, you can select and use a key object, before you select an alignment option.







Transforming Objects

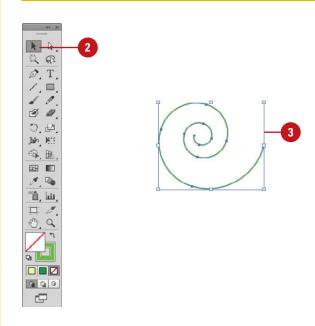
Transform an Object with the Bounding Box

- 1 Click the View menu, and then click **Show Bounding Box** to display it.
- 2 Select the **Selection** tool on the Tools panel.
- 3 Select one or more objects to transform.
- Use any of the following methods:
 - Scale. Drag a corner handle to scale along two axes; drag a side handle to scale along one axis; Shift-drag to scale proportionally; hold down Alt (Win) or Option (Mac), and then drag to scale from the center. Also hold down Shift to scale from the center proportionally.
 - Reflect. Drag a side handle all the way across the object to the other side.
 - Rotate. Point slightly outside a corner handle (pointer changes to a double arrow), and then drag in a circular motion.

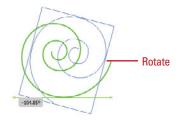
To rotate an object 180 degrees, drag a corner handle diagonally all the way across the object.

5 To transform an object using exact values or percentages, select the **Transform** panel.

The easiest way to transform an object is to use the bounding box. With the bounding box, you can quickly scale (resize), reflect (mirror), and rotate an object. However, you cannot copy an object or move the reference point. As you drag to transform an object, you can use keyboard keys to alter the results of a transformation. Experiment with the different options to create some new results.







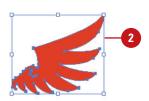
Using the Free Transform Tool

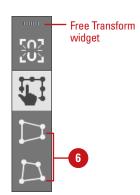
Transform an Object with the Free Transform Tool

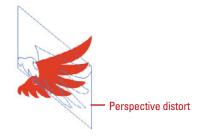
- 1 Select the **Selection** tool on the Tools panel.
- 2 Select one or more objects to transform.
- 3 Select the **Free Transform** tool on the Tools panel.
- 4 To adjust the reference point (New!), point to the reference point (blue point, cursor changes to caret with a circle point), and then drag it.
 - Reset Reference Point. Doubleclick the reference point.
- 5 To use Smart Guides as you transform an object:
 - Click the View menu, and then click Smart Guides to display them or select the Transform Tools check box in Smart Guides preferences.
 - As you drag to transform an object, smart guides appear, which you can use to align the transformed object.
- To distort an object, click the Perspective Distort or Free Distort button on the widget to toggle it on (Highlighted icon). The Constrain button also toggles off.

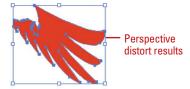
The Free Transform tool allows you to rotate, scale (resize), reflect (mirror image), shear (slant), or distort an object. In addition, you can apply perspective and distortion to an object. When you select the Free Transform tool, the free transform widget (New!) appears with button options to constrain, free transform, perspective distort, and free distort. As you drag to free transform an object, you can also use keyboard keys to alter the results of a transformation. The selected object also has a movable reference point (New!) to specify the center position of the transformation. To help you align the results the way you want, you can use Smart Guides to make it easier. Free Transform is also touchenabled (New!), which allows those with a touch screen device to pinch and swipe for panning and zooming.











- 7 To free transform an object, click the **Free Transform** button on the widget, and then use any of the following methods:
 - Scale. Drag a corner resize handle to scale along two axes; drag a side handle to scale along one axis.

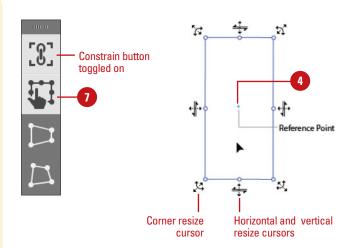
To scale proportionally, click the **Constrain** button on the widget to toggle it on (Lock icon) and then drag or Shiftdrag. To scale from the center, hold down Alt (Win) or Option (Mac), and then drag. Also hold down Shift to scale from the center proportionally.

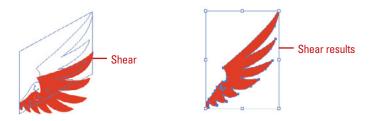
- Reflect. Drag a side handle all the way across the object to the other side.
- Rotate. Point slightly outside a corner handle (pointer changes to a double arrow), and then drag in a circular motion. To rotate in 45 degree increments, Shift-drag.

To rotate an object 180 degrees, drag a corner handle diagonally all the way across the object.

- ◆ Shear. Drag a side handle and then hold down Ctrl (Win) or

 (Mac) as you continue to drag. To constrain the movement, also press Shift. To shear from the center, also press Alt (Win) or Option (Mac).
- ◆ Perspective. Drag a side handle and then hold down Ctrl+Alt+Shift (Win) or ★+Option+Shift (Mac) as you continue to drag.
- Distort. Drag a corner handle and then hold down Ctrl (Win) or (Mac) as you continue to drag.





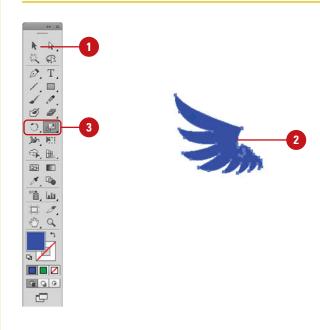


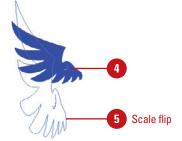
Rotating and Scaling Objects

Rotate or Scale an Object

- 1 Select the **Selection** tool on the Tools panel.
- 2 Select one or more objects to transform.
- 3 Select the **Rotate** or **Scale** tool on the Tools panel.
- 4 To move the reference point, click a new point.
- 5 Use the appropriate method:
 - Rotate. Drag in a circular motion. To rotate in 45 degree increments, Shift-drag.
 - Scale. Drag away from or toward the object. Shift-drag to scale proportionally; hold down Alt (Win) or Option (Mac), and then drag to scale from the center. Also hold down Shift to scale from the center proportionally.
 - Scale and Flip. Drag across the entire object.
 - Scale and Copy. Hold down Alt+Shift (Win) or Option+Shift (Mac), and then drag.
- 6 To rotate or scale an object using exact values or percentages, select the **Transform** panel.

After you create an object, you can change its orientation by rotating it or change its size by scaling it. For a freeform rotation, when you want to rotate the object in other than 90 or 180 degree increments, you can use the Rotate tool. To resize an object, either smaller or larger, you can use the Scale tool. With either tool, you can transform the object from its center or the reference point. To rotate or scale an object using exact values or percentages, use the Transform panel, which is available on the Control panel or Window menu.



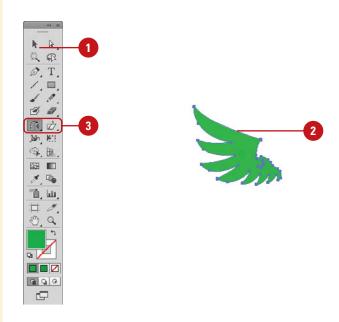


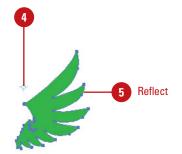
Reflecting and Shearing Objects

Reflect or Shear an Object

- 1 Select the **Selection** tool on the Tools panel.
- 2 Select one or more objects to transform.
- 3 Select the **Reflect** or **Shear** tool on the Tools panel.
- To move the reference point, click a new point.
- 5 Use the appropriate method:
 - Reflect. Click to establish a reference point, and then click again to establish the axis of reflection.
 - Shear. Drag away from the object.
- To reflect or shear an object using exact values or percentages, select the **Transform** panel.

The Reflect and Shear tools on the Tools panel allow you to be creative as you transform an object. The Reflect tool creates a mirror image of an object, while the Shear tool creates a slanted image of an object. To reflect or shear an object using exact values or percentages, open the Transform panel, which is available on the Control panel or Window menu.



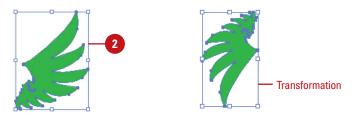


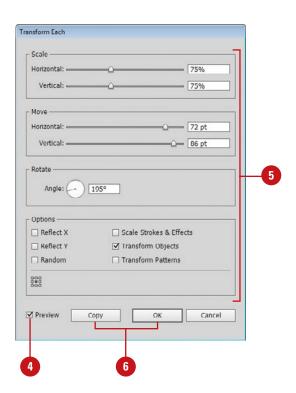
Applying Multiple Transformations

Use the Transform Each Command

- 1 Select the **Selection** tool on the Tools panel.
- 2 Select one or more objects to transform.
- 3 Click the **Object** menu, point to **Transform**, and then click **Transform**
- 4 Select the **Preview** check box to view your object changes.
- 5 Do any of the following:
 - Scale Horizontal or Vertical.
 Specify to scale objects from their reference point.
 - Move Horizontal or Vertical.
 Specify to move objects left or right and up or down.
 - Rotate Angle. Enter a rotate angle or drag the dial.
 - Reflect X or Y. Select to create a mirror reflection.
 - Random. Select to apply random transformations using the values in the dialog box.
 - Scale Strokes & Effects. Select to scale strokes and effects along with objects.
 - Transform Objects. Select to transform only objects.
 - Transform Patterns. Select to transform only the object's fill pattern.
 - Reference Point. Click a square to change the reference point.
- 6 Click **OK** or **Copy** (creates a copy and applies the transformation).

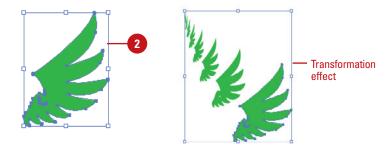
The Transform Each command allows you to transform—such as rotate, reflect, scale, and shear—multiple objects relative to their reference points instead of a single reference point. You can scale or move objects, rotate objects by a specific angle, and create a mirror reflection of the objects. If you want to create a unique effect, you can also have Illustrator apply random transformations. You can also use the Transform Effect command to create and modify similar effects.

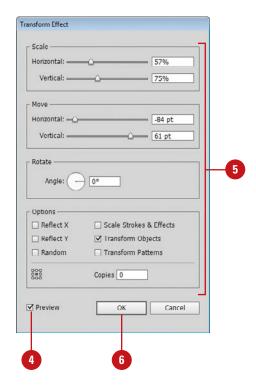




Use the Transform Effect

- 1 Select the **Selection** tool on the Tools panel.
- Select one or more objects to transform.
- 3 Click the Effect menu, point to
 Distort & Transform, and then click
 Transform.
- 4 Select the **Preview** check box to view your object changes.
- Do any of the following:
 - Scale Horizontal or Vertical.
 Specify to scale objects from their reference point.
 - Move Horizontal or Vertical.
 Specify to move objects left or right and up or down.
 - Rotate Angle. Enter a rotate angle or drag the dial.
 - Reflect X or Y. Select to create a mirror reflection.
 - Random. Select to apply random transformations using the values in the dialog box.
 - Scale Strokes & Effects. Select to scale strokes and effects along with objects.
 - Transform Objects. Select to transform only objects.
 - Transform Patterns. Select to transform only the object's fill pattern.
 - Reference Point. Click a square to change the reference point.
 - Copies. Enter the number of copies you want.
- 6 Click **OK**.
- 7 To edit the transformation, select the object, and then click **Transform** on the Appearance panel.





For Your Information

Repeating a Transformation

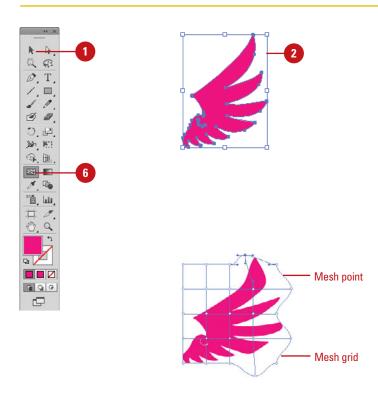
The Transform Again command allows you to quickly repeat the last transformation with the last-used values on a selected object. To use the command, transform and select an object or group, click the Object menu, point to Transform, and then click Transform Again or press Ctrl+D (Win) or 8 +D (Mac).

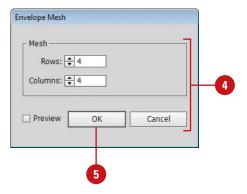
Reshaping Objects with Envelopes

Distort Objects with an Envelope

- 1 Select the **Selection** tool on the Tools panel.
- Select one or more objects to reshape.
- 3 Click the **Object** menu, point to **Envelope Distort**, and then click one of the following:
 - Make With Warp. Uses a preset warp shape.
 - Make with Mesh. Uses a rectangle grid.
 - Make With Top Object. Uses an object as the shape of the envelope. The object needs to be at the top of the stacking order.
- Specify the options you want for the envelope type; select the Preview check box to view your changes on the selected object.
- 5 Click OK.
- Do any of the following:
 - Reshape. Select the Selection or Mesh tool, and then drag any anchor points.
 - Delete Anchor Points. For a mesh grid, select the Selection or Mesh tool, select an anchor point, and then press Delete.
 - Add Anchor Points. For mesh grid, select the Mesh tool, and then click on the grid.

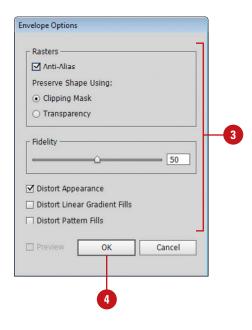
Envelopes are objects you can use to reshape other objects, except graphs, guides, or linked objects. You can use one of the built-in envelopes or create your own out of an existing object. The built-in envelopes use warp shapes or a mesh grid as the object. After you apply an envelope, you can edit the original object or the envelope (anchor points), separately, using the Selection and Mesh tools on the Tools panel. In addition, you can specify envelope options to determine how objects are distorted to fit the envelope.





Set Envelope Options

- 1 Click the **Object** menu, point to **Envelope Distort**, and then click **Envelope Options**.
- 2 To set options for an object, select one or more objects to reshape.
- 3 Do any of the following:
 - Anti-Alias. Select to smooth rasterized images when distorted with an envelope.
 - Preserve Shape Using. Select the option to specify how to rasterized images preserve their shape when distorted by nonrectangular envelopes. Use a clipping mask on the raster image or apply an alpha channel (transparency) to the raster image.
 - Fidelity. Drag the slider or enter a number to specify how you want to fit the envelope mold.
 - Distort Appearance. Select to distort appearance attributes along with an object's shape.
 - Distort Linear Gradient Fills.
 Select to distort linear gradients along with an object's shape.
 - Distort Pattern Fills. Select to distort pattern fills along with an object's shape.
 - Preview. Select to view your changes in the Document window.
- 4 Click **OK**.



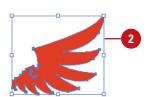
Using the Transform Panel

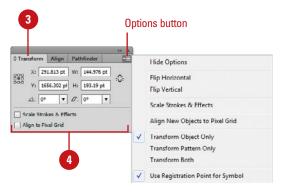
Transform an Object with the Transform Panel

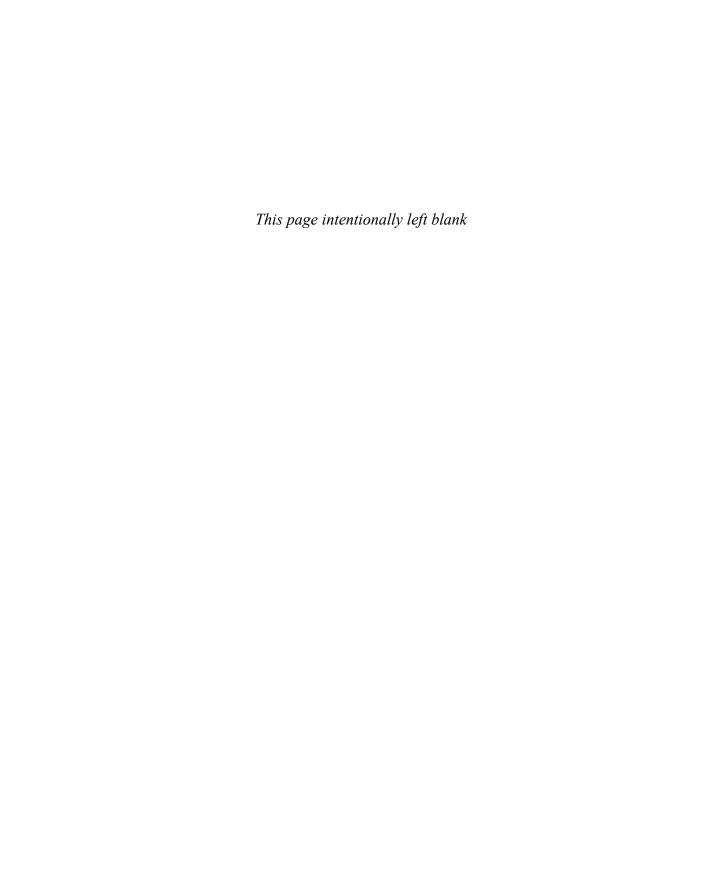
- 1 Select the **Selection** tool on the Tools panel.
- Select one or more objects to transform.
- 3 Select the Transform panel.
- 4 Specify exact values or percentages for any of the following:
 - X & Y Coordinates. Enter X and Y values, which refer to the selected reference point; click a white square to change it.
 - Width (W) & Height (H). Enter width and height values. Use the Lock icon to constrain proportions.
 - Rotate Angle. Enter a rotate angle.
 - Shear Angle. Enter a shear angle.
 - Align to Pixel Grid. Select to pixel-align individual object to the pixel grid.
 - Scale Strokes & Effects. Select to scale strokes and effects along with objects.
 - Click the **Options** button to select additional options.

The easiest way to transform an object is to use the bounding box or the Free Transform tool. You can quickly drag to transform an object. However, if you want to transform an object to an exact size or dimension, you can do it with the Transform panel. With the Transform panel, you can specify exact values or percentage for X & Y coordinates, width & height, rotate angle, and shear angle as well as other options to align to the pixel grid, and scale strokes & effects.









Index

preferences, setting, 496-497

A	revealing documents in, 16
accented edges effects, 311	Web Photo Gallery creation, 495
accounts	working with images using, 17, 494–495
Creative Cloud, 23, 468, 506	Adobe Creative Cloud, 485-486
actions	installing Illustrator, using, 2-3
Actions panel, 368–369	managing account, 468, 506
adding commands to, 374	sign in and out, 23, 468, 506
adding stops to, 372	starting Illustrator, using, 4-5
batch file processing, 376–377	syncing settings on, 468-469
building new, 370	Adobe Dreamweaver, 426-427, 432-433
built-in scripts, 378	Adobe Edge Animate
controlling playback of, 371	saving SVG for, 433
deleting commands from, 375	Adobe Exchange
inserting a non-recordable command in	Extension Manager, using with, 504, 505
an Action, 373	panel, 3, 486, 505
order of commands in, changing, 374	resources, accessing, 3, 486, 505
recording, 370	selecting plug-ins, 477
running actions within actions, 370	Adobe ExtendScriptToolkit, 486, 501
saving, 369	Adobe Extension Manager, 433, 486, 504, 505
scripts, 378–379	Adobe Flex File
activation, 2	opening documents as, 14-15, 268
active documents, 21	placing images, 18, 269
active windows, 20	Adobe ID
Adobe.com. See Adobe Web site, Adobe	installing Illustrator, using, 2-3
ID, Adobe Creative Cloud	Kuler web site, 122-123
Adobe Acrobat Reader, 438	profile, 23
Adobe Bridge	sign in and out (Creative Cloud), 23, 486,
automating tasks in, 499	506
browsing documents with, 16	starting Illustrator, using, 4-5
Camera Raw feature, 490–493	syncing settings (Creative Cloud),
color settings, 109	468-469
components of, 487	Adobe Idea File (IDEA), 14-15
description of, 486	Adobe Media Encoder, 502-503
editing images in, 498	Adobe Mini Bridge, 500
Get Photos from Camera command, 489	Adobe PDF Presets command (Edit menu),
opening documents with, 16–17, 488	436
placing graphics from, 270-271	Adobe Product Improvement Program, 25

Adobe SVG Viewer, 432-433

Adobe Updater, 23	arranging
Adobe Web site	documents, 20
Adobe applications, downloading, 3	layers, 208–209
Adobe Exchange, 3, 505	slices, 458–459
Community Help, 24	arrowheads, stroke, 140-141
Adobe World-Ready Composer (WRC), 256-	art brushes, 334–335
257, 473	Artboard tool
advanced print options, 404-405	artboard creation, 36
Advanced tab (File Info dialog box), 409	Artboard Options button, 37
alignment	multiple artboards, 38
anchor points, 178–179	artboards
objects, 96	within artboards, 36
paragraphs, 252	aspect ratio, 37
pixel grid, 67	centerpoints, 37
slices, 459	deleting, 38
stroke, 138	display options, 39
All Objects command (Select menu), 90	duplicating, 36
All Objects in Active Artboard command	exiting editing mode, 36
(Select menu), 90	landscape/portrait orientation, 37
anchor points	moving, 38
adding new, 176–177	multiple, working with, 38
alignment, 178–179	navigating within, 36
average, 173	presets, 36
Convert Anchor Point tool, 175	previewing, 38
converting, 174–175	resizing, 38
deleting, 177	rotating, 38
direction lines, 172	size, 37
endpoints, 179	switching between, 19, 39
highlighting, 172	video safe areas, 37
moving, 172–173	X and Y positioning, 37
paths and, 65	artwork, inserting in documents, 18
preferences, 172	Asian languages
selecting with Direct Selection tool, 84	support, 256-257, 472-473
showing and hiding, 65	Assign Profile command (Edit menu), 110
smooth points, converting to corner	attributes
points, 174	appearance, 288–289
anchors, 471	stroke, 138–141
Android (Media Encoder), 502-503	Audio Data tab (File Info dialog box), 408
anti-aliasing, 251, 466	auto slices, 452
Appearance of Black preferences, 482	AutoCAD File format, 415
Appearance panel, 288–289	exporting as, 422-423
Apple devices (Media Encoder), 502-503	opening with, 14, 268
Arc tool, 72	placing with 18, 269
arcs, drawing, 72	automatic corner generation, pattern
area graphs, 382-383	brushes, 336–337
Area Type tool, 222, 225-226	

converting, 227

В	placing graphics from, 270-27 i
har grapha 202 202	preferences, setting, 496–497
bar graphs, 382-383	revealing documents in, 16
baseline type, character, 248-249	Web Photo Gallery creation, 495
batch file processing, 376–377	working with images using, 17, 494–495
Batch Rename command, 499	Bristle brushes, 338-339
Behance (web site), sharing on, 6, 19, 464	creating and editing, 338-339
bend styles, 95	Browse in Bridge command (File menu),
bevel bend style, 95	16–17, 270-271
bevel joins, 139	browser
bitmap, exporting documents as, 416	preview in (Save for Web), 463
black appearance options, 482	brushes
bleed	art, 334–335
bleed print option, 399	Blob Brush tool, 189
document creation, 34	•
Blend command (Objects menu), 151–152	Bristle, 338-339
Blend tool, 153	Brushes panel, 327
blends	calligraphic, 332–333
	deleting, 340
blending fill colors, 150	library, saving, 341
changing and applying blend options, 152	Paintbrush tool, 328–329
	pattern, 336–337
creating automatically, 151	scatter, 330–331
creating with Blend tool, 153	strokes, removing, 340
making and releasing blend objects, 151	Brushes panel, 327
objects, modifying, 154	built-in scripts, actions, 378
opacity, 155	
transformation, 154	C
transparency settings, 156	
Bloat tool, 342	calligraphic brushes, 332–333
Blob Brush tool	Camera Data tab (File Info dialog box), 408
brush options, setting, 189	Camera Raw feature, 486, 490–493
merging paths with, 188	canvas (user interface), 479
blur effects, 308-309	caps, 139
BMP format, 415	case, text, 393
bold font, 238-239	Cascading Style Sheet. See CSS
Bounding Box command (View menu),	Categories tab (File Info dialog box), 408
324–325	center mark, 39
Bridge (Adobe)	centerpoints, 37
automating tasks in, 499	Character panel, 238-251
browsing documents with, 16	changing fonts, 238-239
Camera Raw feature, 490–493	changing font size, 242
color settings, 109	finding and changing fonts, 240-241
components of, 487	formatting type, 250
description of, 486	touching up type, 248-249
editing images in, 498	Character Styles panel, 258-259
Get Photos from Camera command, 489	Check Spelling command (Edit menu), 388
Mini Bridge, 500	
opening documents with, 16–17, 488	circles, drawing, 68
Opening accuments With, 10-17, 400	

placing graphics from, 270-271 preferences, setting, 496–497 revealing documents in, 16 Web Photo Gallery creation, 495 working with images using, 17, 494–495 Bristle brushes, 338-339 creating and editing, 338-339 Browse in Bridge command (File menu), 16–17, 270-271 browser preview in (Save for Web), 463
art, 334–335 Blob Brush tool, 189 Bristle, 338-339 Brushes panel, 327 calligraphic, 332–333 deleting, 340 library, saving, 341 Paintbrush tool, 328–329 pattern, 336–337 scatter, 330–331 strokes, removing, 340 Brushes panel, 327 built-in scripts, actions, 378
C
calligraphic brushes, 332–333 Camera Data tab (File Info dialog box), 408 Camera Raw feature, 486, 490–493 canvas (user interface), 479 caps, 139 case, text, 393
Cascading Style Sheet. See CSS Categories tab (File Info dialog box), 408 center mark, 39 centerpoints, 37 Character panel, 238-251
changing fonts, 238-239 changing font size, 242 finding and changing fonts, 240-241 formatting type, 250 touching up type, 248-249

clean up unneeded elements, 385	Color panel, 114–115
clearing	color profiles, changing or removing, 109
guides, 51	color settings, changing, 108–109
objects, 93	converting to grayscale, 125
clipping masks	crop mark registration color, 56-57
creating, 194	finding, 115-116
creating for groups or layers, 195	gamut warning icon, 115
editing, 196	global, 124–126
masked object, editing in Isolation	grayscale images, 125
Mode, 197	grid colors transparency settings, 35
release objects from, 195	grids, 54
clipping sets, 197	group, creating, 118-119
Close button, 28	guides, 50, 53
Close command (File menu), 28	hue, 115
closed paths, 65	inverting, 126
closing	Kuler panel, 122–123
documents, 28	Live Color feature, 130–131
Illustrator, 28	luminosity, 115
panels, 8-9	nonglobal, 124–126
CMYK (Cyan, Magenta, Yellow and Black)	proofing, 132-133
color mode, 30, 111, 115	replacing, 124–125
collapsing panels, 8-9	saturation, 115
Color Guide panel	selecting, 115
applying color with, 128–129	soft proof, 132-133
color groups, 129	Swatches panel, 116–121
harmony rules, variations based on, 129	themes, 122–123
variation options, selecting, 127	type, 266
variation types, displaying, 127	ungroup, 119
color management print options, 406	view box color, 44
color modes. See also colors	Web-safe, 115
changing, 112	column graphs, 382-383
CMYK, 30, 111, 115	combining
document creation, 30	slices, 460
Grayscale, 30, 114	commands
RGB, 30, 111, 114	adding to actions, 374
switching between, 111	basic description of, 6-7
working with, 111	deleting from actions, 375
Color panel	Panel Options menu, 11
Color sliders, 114	Community Help site, 24
working with, 114–115	compound paths
colored paper simulation, 35	creating, 192
colors. See also Color Guide panel; color	releasing, 193
modes; Swatches panel	reversing object's fill in, 193
applying to objects, fills, or stroke, 113,	condensed font, 238-239
136-137	Constrain Angle general preference, 466
applying with Eyedropper tool, 144–145 Color Guide Panel, 127–129	Control panel
Color Guide Fallel, 127-129	anchor points converting 175

basic description of, 13	data variables, 380–381
splitting paths using, 186-187	deactivate Illustrator, 22
tools in, 6-7	Delete button (Actions panel), 369
Convert Anchor Point tool, 175	deleting
Convert to Shape command (Effect menu),	anchor points, 177
294	artboards, 38
convert to shape effects, 294	brushes, 340
converting anchor points, 174–175	commands from actions, 375
Copy command (Edit menu), 235	crop marks, 56-57
copying text, 234–235	data sets, 380–381
corner generation (automatic), pattern brushes, 336–337	files, 14 graphic styles, 287
corner points, 174	layers, 205
Corner Radius general preference, 466	objects, 93
Create New Action button (Actions panel),	selections, 92
369	slices, 454
Create New Set button (Actions panel), 369	symbols, 347
Creative Cloud (Adobe). See Adobe	workspaces, 61
Creative Cloud	Description tab (File Info dialog box), 408
crop marks	Deselect command (Select menu), 90
creating, 56-57	dialogs
deleting, 56	Reset All Warning Dialogs, 467
general preferences, 467	DICOM tab (File Info dialog box), 409
registration color, 56	dictionaries, spell checking, 389
trim marks, editable, 57 cross hairs, 39	diffuse glow effects, 311
•	Direct Selection tool
Crystallize tool, 342 CSS (Cascading Style Sheets)	anchor points, adding new, 176
CSS Properties panel, 426	anchor points or segments, moving, 173
exporting as CSS file, 427	deleting anchor points using, 177
file formats, 415	end points, connecting, 179
generating CSS, 426	selecting anchor points and segments
saving as SVG with, 432-433	with, 84
CSS Properties panel, 426	showing/hiding direction lines, 65
cursor preferences, 466	understanding selections, 82
curved segments, 173	direction lines
curves, drawing, 171	anchor points, 172
custom dictionaries, spell checking, 389	showing and hiding, 65
Cut command (Edit menu), 235	Discard White Overprint in Output, 34-35,
cutout effects, 310	404-405
•	Distort & Transform command (Effect menu), 102, 301
D	distributing
dashed stroke, 140	objects, 96
data graphs, 382-383	slices, 459
data sets	dithering, 447
creating, 380–381	dividing
deleting, 380–381	paths, 185
renaming 381	slices, 460

renaming, 381

drawing mode, 66	revealing in Adobe Bridge, 16
behind, 66	rulers, 48–49
normal, 66	saving, 26–27
inside, 66	as EPS format, 430–431
DOC format, 231	as Microsoft Office, 434
docking	as PDF format, 428–429
documents, 21	as SVG format, 432-433
panels, 10	as template, 435
Document Color Mode command (File menu), 112, 394	for the Web, 438-439 setting up, 34-35
Document Info panel, 410	spell checking, 388–389
Document Setup command (File menu), 34, 159	switching between, 20 tabbed, 20
Document window, 6-7	'
documents	templates, 18
active, 21	transparency settings, 34–35
arranging, 20	type options settings, 35
bleed and view options settings, 34	view size, 19
browsing with Adobe Bridge, 16	viewing information in, 19
closing, 28	views, 40–43
color modes, 30	windows, 20–21
creating	working with multiple, 20–21
from scratch, 30	DOCX format, 231
from templates, 32–33	double quotes, 35
using presets, 31	drawing
docking/undocking, 21	arcs, 72
exporting	circles, 68
as bitmap, 416	curves, 171
Export command, 414	ellipses, 68
export file formats, 415	line segments, 71
as Flash Movie, 424–425	with Pencil tool, 314–315
to Photoshop, 420-421	polygons, 70, 170
with presets, 436	rectangle grids, 74
as TIFF format, 417	rectangles, 69
file information, inserting, 408-409	spirals, 72–73 stars, 70
finding and replacing text and elements	drawing tablets, using, 484
in, 390–391	
grid pattern, 21	Dreamweaver (Adobe). See Adobe Dreamweaver
inserting images in, 18	drop shadow effects, 297
language options, 35, 256	duplicating
linking, 18	artboards, 36
measurement units, 34	color in Swatches panel, 117
opening	graphic styles, 285
with Adobe Bridge, 16–17	layers, 210
existing documents, 14	objects, 94–95
recently opened, 15	slices, 454, 460
printing, 394	symbols 348

E	blur, 308-309
Edit Colors command (Edit manu) 126 150	controlling with selections, 307
Edit Colors command (Edit menu), 126, 150	convert to shape, 294
Edit Custom Dictionary command (Edit menu), 389	cutout, 310
Edit menu commands	diffuse glow, 311
Adobe PDF Presets, 436	distort, 301
Assign Profile, 110	drop shadow, 297
Check Spelling, 388	dry brush, 310
Color Settings, 108	Fresco, 310
Copy, 235	gaussian blur, 308-309
Cut, 235	glass, 311
Edit Colors, 126, 150	glowing edges, 311
Edit Custom Dictionary, 389	grain, 312
	graphic pen, 312
Find and Replace, 390–391 Paste, 234–235	Illustrator, 292–293
Paste in Back, 235	inner glow, 296–297
•	mosaic tiles, 312
Paste in Front, 235	note paper, 311
Print Presets, 395	outer glow, 296–297
Redo, 59	panel knife, 310
Transparency Flattener Presets, 405	Photoshop Effect Gallery, 304–305
Undo, 59	plastic wrap, 312
Edit Selection command (Select menu), 92	previewing, 292
Edit View command (View menu), 40	raster graphics, 302
editing	scribble, 295
blend objects, 154	spatter, 312
clipping masks, 196	stained glass, 312
color in Swatches panel, 117	stamp, 311
colors with Live Color, 130–131	text, 230
gradients, 164	transform, 301
graphic styles, 286	3D, 298–299
images in Adobe Bridge, 498	vector objects, 303
paths within clipping sets, 197	warp, 300
patterns, 148	Ellipse tool, 68
selections, 92	ellipses, drawing, 68
symbols, 349	embedding
Edge Animate (Adobe). See Adobe Edge Animate	graphics, 269, 272–277
Effect menu commands	endpoints, 179
Convert to Shape, 294	Enhanced Metafile format, 415
Crop Marks, 56	Envelopes, reshaping with, 104-105
Distort & Transform, 102	EPS format, 27, 409, 430–431
•	Eraser tool, 182
Effect Gallery, 304–307	erasing path parts, 182
Stylize, 295 effects	exiting Illustrator, 28
	Expand button (Pathfinder panel), 190
accented edges, 311	Expand command (Objects menu),
applying multiple, 306	

160-161

expanding	Open, 14, 268
gradients, 160-161	Open Recent, 15
panels, 8-9	Open With, 270
patterns, 149	Place, 18, 269, 272, 276
ExportDocsAsFlash, script, 378–379	Print, 394, 396
exporting	Return to Adobe Illustrator, 16
documents	Revert, 26
as bitmap, 416	Save, 26
as CSS, 426-427	Save a Copy, 27
Export command, 414	Save As, 27, 33
as Flash Movie, 424–425	Save for Web, 438–441, 442-443
as JPEG, 418-419	Scripts, 378–379
to Photoshop, 420-421	files
as PNG, 418-419	deleting, 14
with presets, 436	formats (Save for Web), 438-443
as TIFF format, 417	images, optimizing to file size (Save fo
export file formats, 415	Web), 451
ExtendScriptToolkit (Adobe). See Adobe	saving actions as, 369
ExtendScript Toolkit	fills
Extension Manager (Adobe). See Adobe	applying color to, 113, 128, 136-137
Extension Manager	blending fill colors, 150
extensions, downloading and installing	patterns as, 146–149
with Adobe Exchange, 3, 505	finding
with Adobe Extension manager, 504	fonts, 240-241
Extensions command (Window menu),	for help information, 25
122–123	Find and Replace command (Edit menu),
Eyedropper tool	390–391
applying colors and attributes with, 144–145	Find Font command, 392
color attributes, changing, 145	Fire/Nook HD device, 31
Save for Web tool, 440-441	Fit All In Window command (View menu), 46
E	Fit Artboard In Window command (View
F	menu), 46
families, font, 238-239	Flare tool, 69
File Handling & Clipboard preferences,	Flash Builder, 31
480-481	Flash format, SWF, 415, 424-425
File Info command (File menu), 408	Flash Movie, exporting documents as, 424–425
file information, inserting into documents, 408–409	Flash (Media Encoder), 502-503
File menu commands	Flattener Preview command (Window
Browse in Bridge, 16-17, 270-271	menu), 41, 405
Close command, 28	flattening layers, 216
Device Center, 41	flattening object transparency, 158
Document Color Mode, 112, 394	fonts
Document Setup, 34, 159	bold, 238-239
File Info, 408	condensed, 238-239
New, 30–31	families and styles, 238-239
New From Template, 32	Find Font command, 241, 392

finding, 240-241	grain effects, 312
italic, 238-239	graphic pen effects, 312
OpenType fonts, 262	graphics
replacing, 241	embedded, 272–277
reusing recent, 238-239	linked, 272–277
size, 242	linking, 272–277
formatting type, 250	mosaic, 290
Freehand format, 14	opening graphic images, 268
Free Transform tool, 98–99	placing, 269-272
Transform panel, 106	print options, 400
free transform widget, 98-99	raster
Fresco effects, 310	interpolation and, 64
full screen mode, 45	tracing, 278–282
FXG format, 14, 18, 268-269	understanding raster graphics, 64
.,	styles
G	applying, 283
	breaking links to, 287
gamut warning icon, 115	creating, 284
Galaxy S III device, 31	deleting, 287
Gap options, 326	duplicating, 285
gaussian blur effects, 308-309	editing, 286
General preferences, 466	graphs, 382-383
gestures	add designs, 384
touch-enabled features, 62, 98-99	create and format, 382-383
Get Photos from Camera command	Grayscale color mode, 30, 114
(Adobe), 489	grayscale images, 125
GIF documents, optimizing, 446–447	grid colors transparency settings, 35
GIF format, 409	grid colors transparency settings, 33
glass effects, 311	Grid, Perspective
global colors, 124–126	adjusting, 79
glowing edges effects, 311	
glyphs, 261	copying, 80
Go to Bridge button, 16–17	customizing, 81
GPS Data tab (File Info dialog box), 408	drawing, 78
Gradient tool, 165	moving, 80
gradients	objects, adding, 80
applying to objects, 160-161	resizing, 80
creating, 163	text, adding, 80
editing, 164	unembedded graphics, 274–275
expanding, 160-161	grid, pixel aligned, 67
fill, 160	grid size transparency setting, 34
Gradient Annotator, 165	grids. See also guides
Gradient tool, 165	color, 54
libraries, using, 162	displaying in back of artwork, 54
linear type, 163	Polar Grid tool, 75
mesh, 104-105, 166-167	preferences, 54
radial type, 163	Rectangle Grid tool, 74
stroke 161	showing and hiding, 54

stroke, 161

grids (continued)	Hide Edges command (View menu), 65
Snap to Grid command, 54	Hide Panels command (Window menu), 20
styles, 54	hiding
subdivisions, 54	anchor points, 65
Transparency, 159	direction lines, 65
Group command (Objects menu), 88	grids, 54
Group Selection tool, 82	guides, 50
grouping objects, 88-89	layers, 212
groups	panels, 10, 45
creating clipping masks for, 195	rulers, 49
colors, creating in the Swatches panel, 118-119	slices, 454–455
guides. See also grids	Transparency grid, 159 HiDPI, 2, 47
clearing, 51	
color, 50	highlighting anchor points, 172
converting vector objects to, 51	histograms, 493
creating, 51	History tab (File Info dialog box), 409
locking, 50	HSB color slider (Color panel), 114
preferences, 50	HTML text, adding to slices, 456
ruler, 49	hue, 115
showing and hiding, 50	hyphenation, 255, 476
smart guides	hyphenation preferences, 476
object transformation, 99	1
preferences, 53	'
turning on/off, 52	icons, collapsing and expanding panel sets
working with, 52–53	between icons and panels, 11
snap to point, 50	Illustrator Help command (Help menu), 24–25
style, 50	Illustrator tab (File Info dialog box), 409
switching, 51	images
	inserting in documents, 18
H	replacing, 18
Hand tool	working with images using Bridge, 17
moving elements around with, 55	ImageTracing, script, 378–379
quick access to, 55	Image Tracing options, 278-281
Save for Web tool, 440-441	Image Trace panel, 278-281
handles, 471	importing text, 231
hanging indents, 253	indentation
hardware, Illustrator system	hanging indents, 253
requirements, 3	paragraphs, 253
Help menu commands	Indian languages
Adobe Product Improvement Program,	support, 256-257, 472-473
25	Info panel
Illustrator Help, 24–25	color fill and stroke information, 58
Updates, 23	uses for, 58
help options	inner glow effects, 296–297
Community Help site, 24	iPad/iPad Mini device, 31
searching topics, 25	Media Encoder, 502-503

IPTC tab (File Info dialog box), 408	layers. See also Layers panel
IPTC Extension tab (File Info dialog box),	arranging, 208–209
408	creating clipping masks for, 195
iPhone device, 31	creating top level layers, 202–203
Media Encoder, 502-503	deleting, 205
installing Illustrator	deselecting, 204
in Macintosh, 3	duplicating, 210
in Windows, 2	flattening, 216
Internet, checking for updates from, 22	hiding, 212
interpolation, 64	locking, 211
Inverse command (Select menu), 90	merging, 213
inverting colors, 126	moving, 208–209
IPTC tab (File Info dialog box), 408	moving objects to, 214–215
Isolation Mode, 197	naming, 203
italic font, 238-239	outlines, viewing, 219
,	Paste Remembers Layers, 214
J	releasing objects to, 215
	reverse order, 208
JavaScript, SVG, 432-433	
joining anchor endpoints, 179	selecting, 204 selecting objects with, 206–207
joins, 139	
JPEG documents, optimizing, 444–445	showing and hiding, 212
JPEG format, 409, 415	sublayers, 202–203
exporting as, 418-419	template, creating, 218
justification options, 263	Layers panel. See also layers
	accessing, 200
K	components of, 200
kerning type, 244	locating objects in, 217
Keyboard Increment general preference,	options, setting, 201
466	layouts, workspace, 60
keyboard shortcuts, 483	leading text, 243
Kindle Fire HD device, 31	libraries
Knife tool, 185	brushes, saving, 341
Knockout Group option, 156	gradients, 162
Kuler	ligature, 263
MyKuler, 122-123	line graphs, 382-383
panel, 122-123	Line Segment tool, 71
web site, 122	line segments, drawing, 71
Web elec, 122	linear gradient type, 163
L	linked graphics, 272–277
_	linking
landscape/portrait orientation, 37	documents, 18
language options	graphics, 272-273
document creation, 35, 256	slices, 455
preferences, 256-257, 472-473	Liquify tools, 345
Lasso tool	Live Color
selecting objects with, 85	applying color groups to objects with,
understanding selections, 82	130–131

Live Paint (continued)	Middle East & South Asian Single-line
editing colors with, 130–131	Composer, 256-257, 473
Live Paint Bucket tool	Mini Bridge (Adobe). See Adobe Mini
paint fills, 320	Bridge
preferences, setting, 319	miter bend style, 95
selecting options to paint fills or strokes	miter joins, 139
with, 318	Mobile SWF tab (File Info dialog box), 408
stroke edges, changing, 321	mode, drawing, 66
Live Paint Groups	mosaic tiles effects, 290, 312
adding paths to, 325	Move tool, 52
converting traced objects to, 317	moving
creating, 316–317	anchor points, 172–173
Gap options, 326	artboards, 38
reshaping or moving paths in, 324–325	document elements with Hand tool, 55
Live Paint Selection tool, 322–323	layers, 208–209
locking, 211	objects, 93
guides, 50	objects to layers, 214–215
layers, 213	segments, 172–173
lossy compression, 447	slices, 458
lowercase text, 393	text, 229, 234-235
luminosity, 115	between tools, 55
М	N
Macintosh	naming
Illustrator system requirements, 3	layers, 203
installing Illustrator in, 3	selections, 92
starting Illustrator in, 5	workspaces, 60
Macintosh PICT format, 415	navigation
Magic Wand tool	artboards, 39
selecting objects with, 86–87	within artboards, 36
understanding selections, 82	Navigator panel
marks print options, 398–399	customizing, 44
Measure tool, 58	view area, 43
measurement	view box color, 44
distance between objects, measuring, 58	view size, 42
	New command (File menu), 30–31
measurement units, document creation, 34	New From Template command (File menu),
Media Encoder (Adobe). See Adobe Media	32
Encoder (MadSe): See MadSe Wedia	New View command (View menu), 40
menus, 6-7	Next Object Above command (Select
merging	menu), 90
layers, 213	Next Object Below command (Select
paths, 188–189	menu), 90
mesh, 104-105, 166-167	9-slice scaling, 362-363
metadata, 408-409, 494	Nook HD device, 31
Microsoft Office, saving documents as, 434	nonglobal colors, 124–126
Middle East & South Asian Every-line	non-recordable command in an Action, 373
Composer, 256-257, 473	normal screen mode, 45

note paper effects, 311	opacity mask, transparency, 157
0	Open command (File menu), 14, 268
0	open paths, 65, 177
objects	Open Recent command (File menu), 15
alignment, 96	OpenType fonts, 262
applying color to, 113, 128, 136-137	Open With command (File menu), 270
clearing, 93	opening
deleting, 93	documents
distributing, 96	with Adobe Bridge, 16–17
duplicating, 94–95	existing documents, 14
grouping, 88–89	recently opened, 15
measuring distance between, 58	graphic images, 268
moving, 93	panels, 8-9
moving to layers, 214–215	optimizing
Perspective Grid	images to file size (Save for Web), 451
adjusting, 79	Origin tab (File Info dialog box), 409
copying, 80	outer flow effects, 296–297
customizing, 81	Outline view, 40–41
drawing, 78	outlines, 265
moving, 80	outlines, viewing layers as, 219
objects, adding, 80	output print options, 402–403
resizing, 80	overflow, text, 236–237
text, adding, 80	Overprint Preview command (View menu),
pixel grid, aligned, 67	41, 401
reflecting, 97, 101	
rotating, 97–98, 100	P
_	Packaging
scaling, 97, 100 selecting	packaging a document, 412-413
<u> </u>	viewing a package folder, 412-413
with Magic Wand tool 96 97	Paintbrush tool, 181
with Magic Wand tool, 86–87	painting
similar objects, 90–91	art brushes, 334–335
using Direction Selection tool, 84	Brushes panel, 327
using Select menu, 90–91	calligraphic brushes, 332–333
using Selection tool, 83	Live Paint Bucket tool, 318–321
Shape Builder tool, 76-77	Live Paint Groups
transforming, 97–99	adding paths to, 325
Objects menu commands	converting traced objects to, 317
Blend, 151–152	creating, 316–317
Clipping Mask, 194	_
Compound Path, 192	Gap options, 326
Expand, 160-161	reshaping or moving paths in, 324–325
Group, 88	Live Paint Selection tool, 322–323
Text Wrap, 264	Paintbrush tool, 328–329
Transform, 102	pattern brushes, 336–337
Ungroup, 88	scatter brushes, 330–337
offsetting paths, 95, 187	panel knife effects, 310
appoint blands 155	paner kille ellects, 310

opacity, blends, 155

Panel Options menu, 8-11	splitting into grid, 187
panels	pattern brushes, 336–337
adding, 10	patterns
closing, 8-9	applying to objects, 149
collapsing, 8-9, 11	creating, 146-147
displaying hidden, 45	editing, 148
docking/undocking, 10	expanding, 149
expanding, 8-9, 11	as fills, 149
hiding, 10, 45	as strokes, 149
opening, 8-9	PDF format, 27
Panel Options menu, 11	saving as, 409, 428–429
resizing, 8-9	SaveDocsAsPDF, script, 378–379
sets, collapsing and expanding between	Pen tool
icons and panels, 11	anchor points, adding, 177
subtracting, 10	drawing curves with, 171
paragraphs	drawing polygons with, 170
alignment, 252	Pencil tool
indentation, 253	preferences, 315
spacing, 253	reshaping paths with, 181
Paragraph panel, 252-253, 255	working with, 314–315
Paragraph Styles panel, 258-259	Perspective Grid
Paste command (Edit menu), 234–235	adjusting, 79
Paste in Back command (Edit menu), 235	copying, 80
Paste in Front command (Edit menu), 235	customizing, 81
Pathfinder commands, 191	drawing, 78
Pathfinder panel, 190-191	moving, 80
paths	objects, adding, 80
anchor points and, 65	resizing, 80
clean up unneeded elements, 385	text, adding, 80
clipping mask, 194–197	Photoshop Effect Gallery, 304–305
closed, 65	Photoshop, exporting to, 420-421
compound, 192–193	Photoshop format, 415
convert mesh object to, 174	pie graphs, 382-383
convert strokes to compound, 192	pixel grid, align, 30, 67, 364
dividing, 185	Pixel Preview command (View menu), 41
erasing parts of, 182, 314	pixels, 37
join, 179	Place command (File menu), 18, 269, 272,
merging, 188–189	276
offsetting, 95, 187	placing graphics, 18, 269–271
open, 65, 177	plastic wrap effects, 312
outline stroke, 181	Play button (Actions panel), 369
reshaping, 180–181	playback, action, 371
segments and, 65	plug-ins
Shape Mode command, 190	downloading and installing (Adobe
shape of, changing, 65	Exchange), 3, 505
simplify, 184	preferences, 477
smoothing, 183	PNG format, 409, 415
splitting, 186–187	exporting as, 418-419

PNG-8 document, 448–449	text, 472-473
PNG-24 document, 450	Transparency grid, 159
point type, 222-223	type, 472–473
converting, 227	Units Performance, 474
creating, 223-224	updates, 22
point/pica size, 48	user interface, 479
points, anchor	presets
adding new, 176–177	artboard, 36
alignment, 178–179	creating new documents using, 31
average, 173	exporting with, 436
Convert Anchor Point tool, 175	list of, 31
converting, 174–175	printing with, 395, 404
deleting, 177	Preview in browser (Save for Web), 463
direction lines, 172	Preview view, 40–41
endpoints, 179	Preview View command (View menu), 314
highlighting, 172	previewing
moving, 172–173	artboards, 38
paths and, 65	color separations, 401
preferences, 172	effects, 292
selecting with Direct Selection tool, 84	Save for Web, 463
showing and hiding, 65	Print command (File menu), 394, 396
smooth points, converting to corner	Print Presets command (Edit menu), 395
points, 174	printing
Polar Grid tool, 75	advanced print options, 404–405
Polygon tool, 70	bleed options, 399
polygons, drawing, 70, 170	color management settings, 406
portrait/landscape orientation, 37	color separations, previewing, 401
preferences	documents, 394
Adobe Bridge, 496–497	general print options, 396–397
anchor points, 172	graphics print options, 400
Appearance of Black, 482	marks options, 398–399
cursor, 466	number of copies, specifying, 397
File Handling & Clipboard, 480-481	output options, setting, 402–403
General, 466	Overprint preview, 401
grids, 54	overprints, 404
guide, 50	presets, 404
hyphenation, 476	with presets, 395
keyboard shortcut, 483	Print command, 394
Live Paint Bucket tool, 319	print problems, checking for, 407
Pencil tool, 315	print tiling, 397
plug-in, 477	reverse order, 396
ruler, 48	Separations preview, 401
Scratch Disk, 478	spot colors, showing, 401
Selection & Anchor Display, 470–471	summary print options, 407
slices, 475	Product Improvement Program (Adobe), 25
smart guides, 53	Proof Colors command (View menu),
Sync Settings, 468-469	132-133

Proof Setup command (View menu), 41	Reshape tool, 180
proofing colors, 132-133	reshaping objects, with Envelopes, 104-105
PSD format, 409	reshaping paths, 180–181
Pucker tool, 342	resizing
punctuation, 260	artboards, 38
	slices, 458
Q	Resolution Independent Effects (RIE), 293
Quit Illustrator command (Illustrator menu),	resolution preset transparency setting, 35
28	Return to Adobe Illustrator command (File
quotes, 35	menu), 16
44.01.00, 00	reverse order printing, 396
R	Revert command (File menu), 26
	revolving 3D effects, 299
radar graphs, 382-383	RGB (Red, Green, Blue) color mode, 30, 111
Radial Blur, 308-309	114
radial gradient type, 163	Rotate tool, 100
raster graphics	rotating
effects, 293, 302	artboards, 38
interpolation and, 64	objects, 97–98, 100
Resolution Independent Effects (RIE), 293	text, 247
tracing, 278–282	touch type, 248-249
understanding raster graphics, 64	round bend style, 95
Record button (Actions panel), 369	round joins, 139
recording actions, 370	Rounded Rectangle tool, 69
Rectangle Grid tool, 74	RTF format, 231
Rectangle tool, 69	rulers
Redo command (Edit menu), 59	artboard display options, 39, 49
Reflect tool, 101	displaying, 48–49
reflecting objects, 97, 101	document, 48–49
registration, 4–5	guides
registration point, 365	alignment, 53
releasing	changing, 49
compound paths, 193	clearing, 51
objects from clipping masks, 195	color, 50
objects to layers, 215	converting vector objects to, 51
renaming	creating, 51
data sets, 381	locking, 50
selections, 92	preferences, 50
workspaces, 61	ruler, 49
rendering intent color management print	showing and hiding, 50
option, 406	smart guides, 52–53
replacing	snap to point, 50
colors, 124–125	style, 50
fonts, 241	switching, 51
images, 18	hiding, 49
Reselect command (Select menu), 90	origin, changing, 49
Reset All Warning Dialogs, 467	nreferences 48

S	scribble effects, 295
	scripts, actions, 378–379
safe area, artboard display options, 39	searching
Same command (Select menu), 91	fonts, 240-241
saturation, color, 115	for help information, 25
Save a Copy command (File menu), 27	segments
Save As command (File menu), 27, 33	curve, 173
Save command (File menu), 26	moving, 172–173
SaveDocsAsPDF, script, 378–379	paths and, 65
SaveDocsAsSVG, script, 378–379	selecting with Direct Selection tool, 84
Save for Web command (File menu), 438–441	Select menu commands, 90–91
as GIF format, 438-439, 446-447	Edit Selection, 82
as JPEG format, 438-439, 444-445	Same command, 91
as PNG-8 format, 438-439, 448-449	Save Selection, 82
as PNG-24 format, 438-439, 450	Selection & Anchor Display preferences,
Save Selection command (Select menu), 82	470–471
Save Workspace command (Workspace	Selection tool. See also selections
menu), 60	aligning and distributing objects using, 96
saving	duplicating objects with, 94–95
actions	moving objects with, 93
as files, 369	reflecting or shearing objects, 101
into sets, 369	rotating and scale objects with, 100
brush library, 341	selecting objects with, 83
documents, 26–27	transforming objects with, 97
as EPS format, 430–431	understanding selections, 82
as Microsoft Office, 434	selections. See also Selection tool
as PDF format, 428–429	anchor points, 84
as SVG format, 432-433	controlling effects using, 307
as template, 435	deleting, 82
for the Web, 438–439	editing, 82
selections, 82	examples of, 82
slices for Web, 461	inverting color of, 90
slices (from selection) for Web, 462	layers, 204
symbols, 347	naming, 82
Scale Strokes & Effects option, 467	renaming, 82
Scale tool, 100	reselecting, 90
scaling	saving, 82
9-slice scaling, 362-363	selecting next object above/below
objects, 97, 100	current, 90
touch type, 248-249	slices, 454–455
type, 246	type, 232–233
Scallop tool, 342	understanding selections, 82
scatter brushes, 330–331	sentence case, 393
scatter graphs, 382-383	Separations Preview command (Window
Scissor tool, 186	menu), 41
Scratch Disk preferences, 478	Shape Mode command (Pathfinder panel),

190

screen modes, 45

applying color to, 113, 128, 136-137	sync settings
arrowheads, 140-141	Creative Cloud, 469
attributes, changing, 138-141	preferences, 468-469
caps or joins, changing, 139	working with, 468
dashed, 140	symbols
patterns as, 146–149	9-slice scaling, 362-363
type, 266	creating, 346
weight of, changing, 138	deleting, 347
widths, variable, 142-143	duplicating, 348
styles	editing, 349
font, 238-239	links, breaking, 350–351
graphic	pixel grid, align, 364
applying, 283	registration point, 365
breaking links to, 287	saving, 347
creating, 284	sets, expanding instances of, 361
deleting, 287	Symbol Libraries, 345
duplicating, 285	Symbol Screener tool, 359
editing, 286	Symbol Scruncher tool, 355
grids, 54	Symbol Shifter tool, 354
guides, 50	Symbol Sizer tool, 356
type, 258–259	Symbol Spinner tool, 357
Stylize command (Effect menu), 295	Symbol Sprayer tool, 352
sublayers, 202–203	Symbol Strainer tool, 358
subscript text, 35	Symbol Styler tool, 360
subslices, 453	symbolism tool options, setting, 353
subtracting panels, 10	Symbols panel, 344
summary print options, 407	Symbol Libraries, 345
superscript text, 35	Symbol Screener tool, 359
SVG format, 27	Symbol Scruncher tool, 355
saving as, 432-433	Symbol Shifter tool, 354
SaveDocsAsSVG, script, 378–379	Symbol Sizer tool, 356
Swatches Library	Symbol Spinner tool, 357
copying swatches between libraries, 120	Symbol Sprayer tool, 352
customized swatch panels, saving, 121	Symbol Strainer tool, 358
displaying, 120	Symbol Styler tool, 360
gradient library, 160, 162	system requirements, 3
Swatches panel	System requirements, o
creating color groups in, 117	т
deleting colors from, 116	· •
display of, changing, 116	tab stops, 254
editing or duplicating color in, 117	tabbed documents, 20
finding, 115-116	tabs, 254
_	Tabs panel, 254
groups, creating, 118-119 sorting colors in, 116	Targa format, 415
swatches, displaying by type, 116	templates
Swatches Library, 120–121	creating documents from, 32–33
SWF format, Flash, 415, 424-425	document, 18, 32–33
OVVI 101111at, 1 18311, 413, 424-423	saving documents as, 435

template layer, creating, 218	Control panel, 6-7
text	moving between, 55
anti-aliasing, 238, 251	shortcuts to, 13
baseline, character, 248-249	Tools panel
case, 393	accessing tools in, 12
clean up unneeded elements, 385	contents of, 6-7
color, applying, 266	touch screen
converting, 227	devices, using, 484
copying, 234–235	touch-enabled features, 62, 98-99
effects, 230	Touch Type tool
fonts, 238–242	using, 222, 248-249
glyphs, 261	tracing raster graphics, 278–281
hyphenation, 255	tracking type, 245
importing, 231	transformations
justification, 263	applying multiple, 102–103
kerning, 244	blends, 154
leading, 243	Distort & Transform command, 102
moving, 229, 234–235	Transform panel, 106
outlines, 265	repeating, 102
overflow, 236–237	Transform Each command, 102
paragraphs, 252–253	transforming objects, 97–99
preferences, 472–473	Transform panel, 106
rotating, 247, 248-249	Transparency Flattener Presets command
scaling, 246, 248-249	(Edit menu), 405
selecting, 232–233	Transparency grid, 159
spacing, 263	transparency settings
styles, 258–259	blends, 156
subscript, 35	colored paper simulation, 35
superscript, 35	controlling transparency effects, 156
tabs, 254	document creation, 34–35
threads, 236–237	flattening object transparency, 158
touching up, 222, 248-249	grid colors, 35
tracking, 245	grid size, 34
typing new, 223–224	opacity mask, 157
wrapping, 264	resolution preset, 35
Text Format, 415	trim marks, editable, 57
Text Wrap command (Objects menu), 264	turning on/off smart guides, 52
themes, color, 122–123	TXT format, 231
threads, text, 236-237	type
3D effects, 298-299	Adobe World-Ready Composer (WRC),
thumbnail views, 43	256-257, 473
TIFF format, 409, 415, 417	anti-aliasing, 238, 251
Tolerance selection option, 470	Area Type tool, 225-226
tool tips, 467	baseline, character, 248-249
tools	color, applying, 266
accessing in Tools panel, 12	converting, 227
accessing multiple, 12	copying, 234–235
= :	deleting empty text paths, 234

fonts, 238-242	user interface
justification, 263	changing, 6-7
kerning, 244	preferences, 6-7, 479
language options, 256-257, 472-473	user slices, 452
leading, 243	
moving, 234–235	V
OpenType fonts, 262	variables, data
outlines, 265	creating, 380–381
overflow, 236–237	deleting, 380–381
paragraphs, 252–253	renaming, 381
preferences, 472–473	variable stroke widths, 142-143
rotating, 247, 248-249	vector objects
scaling, 246, 248-249	•
selecting, 232-233	converting to guide, 51 effects, 303
spacing, 263	
styles, 258–259	understanding vector graphics, 64
threads, 236–237	Vertical Type and Peth tool, 222, 225-226
Touch Type tool, 248-249	Vertical Type on a Path tool, 222, 228 Vertical Type tool, 222, 223
tracking value, 245	***
Type on a Path tool, 228	Video Data tab (File Info dialog box), 408 video safe areas, artboards, 37
Vertical Area Type tool, 225-226	View menu commands
Vertical Type on a Path tool, 228	
Vertical Type tool, 223	Bounding Box, 324–325
wrapping, 264	Edit View, 40
Type on a Path tool, 222, 228	Fit All In Window, 46
Type tool, 222-223	Fit Artboard In Window, 46
typographer's quotes, 35	Hide Edges, 65
Twirl tool, 342	New View, 40
	Overprint Preview, 41
U	Pixel Preview, 41
Linda command (Edit manu) EQ	Preview View, 314
Undo command (Edit menu), 59	Proof Colors, 132-133
undocking	Proof Setup, 41
documents, 21	Rulers, 48
panels, 10	Show Bounding Box, 97
unembedded graphics, 274–275	Show Edges, 65
Ungroup command (Objects menu), 88	Show Print Tiling, 40
ungroup, color group, 119	Show Text Threads, 236
Units Performance preferences, 474	Show Transparency Grid, 159
Updater (Adobe). See Adobe Updater	Smart Guides, 52
updates	Soft Proof, 132-133
checking for, 22–23	view size, documents, 19
preferences, 22	views
Updates command (Help menu), 23	box color, 44
updating, from previous versions, 2	changing, with Zoom tool, 46–47
uppercase text, 393	display view, changing, 40–41
URL links, adding to slices, 457	document, 40–43

views (continued) fit in window, 46 Outline, 40–41 Preview, 40–41 ruler options, 48 size, 42 thumbnail, 43 Vimeo (Media Encoder), 502-503
W
Warp effect, 300 Warp tool, 342 Web
browser preview in (Save for Web), 463 file formats, 442–443
GIF files, optimizing, 438-439, 446-447 images, optimizing to file size, 451 JPEG files, optimizing, 438-439, 444-445 PNG-8 files, optimizing, 438-439, 448-449
PNG-24 files, optimizing, 438-439, 450 saving documents for, 438-439 saving slices for, 461
Web-safe color, 115
Window menu Extensions, 477, 504
Flattener Preview, 41, 405
Hide Panels, 20
panel display, 8–10
Separations preview, 41
Show Panels, 20
Windows
Illustrator system requirements, 3
installing Illustrator in, 2
starting Illustrator in, 4
windows
active, 20
document, 20–21
Workshape many commands 60
Workspace menu commands, 60 workspaces
creating, 60
deleting, 61
displaying, 60
layouts, 60
naming, 60

renaming, 61

wrapping text, 264 Wrinkle tool, 342

X

X and Y positioning, 37 XML, SVG, 432-433 XMP metadata, 408-409 XMP Software Development Kit, 409 Xoom device, 31



YouTube (Media Encoder), 502-503

Z

zoom
in/out, 47
using Navigator thumbnail, 43
view size, 42
Zoom tool
changing view with, 46–47
Save For Web tool, 404