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- More than 500 essential Illustrator CS6 tasks



Illustrator CS6 on Demand



Adobe® Illustrator® CS6 on Demand

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Perspection

About the Author

Steve Johnson has written more than 70 books on a variety of computer software, including Adobe Photoshop CS5, Adobe Dreamweaver CS5, Adobe InDesign CS5, Adobe Illustrator CS5, Adobe Flash Professional CS5, Microsoft Windows 7, Microsoft Office 2010 and 2007, Microsoft Office 2008 for the Macintosh, and Apple Mac OS X Lion. In 1991, after working for Apple Computer and Microsoft, Steve founded Perspection, Inc., which writes and produces software training. When he is not staying up late writing, he enjoys coaching baseball, playing golf, gardening, and spending time with his wife, Holly, and three children, JP, Brett, and Hannah. Steve and his family live in Northern California, but can also be found visiting family all over the western United States.

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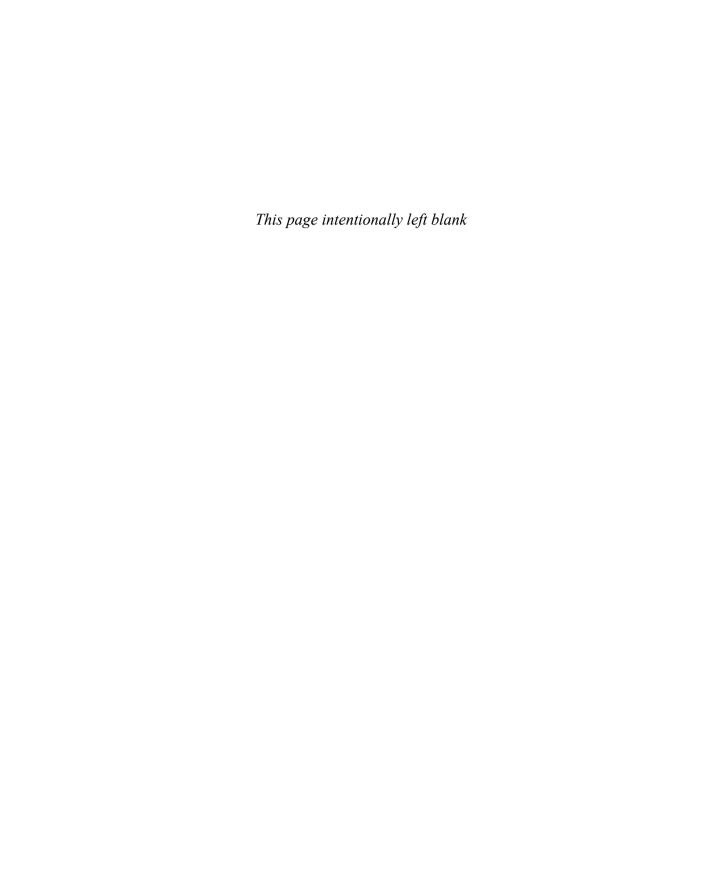
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Introduction

Welcome to Adobe Illustrator CS6 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 CS6, 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 and in the back of this book.

How You'll Learn

How This Book Works

What's New

Keyboard Shortcuts

Step-by-Step Instructions

Real World Examples

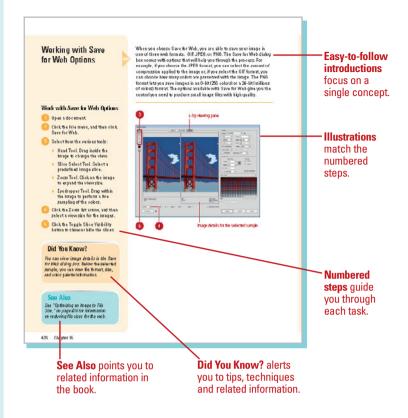
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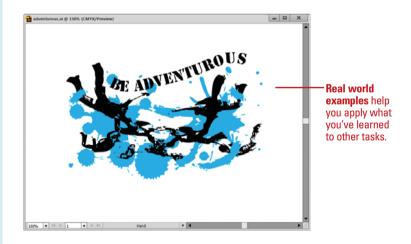
Step-by-Step Instructions

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 vou 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.



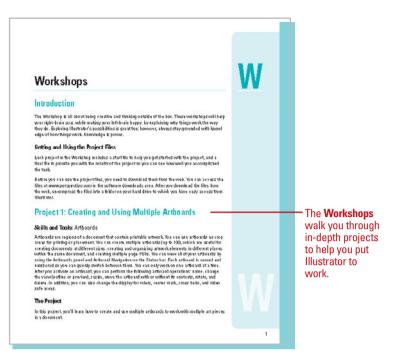
Real World Examples

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.perspection.com.



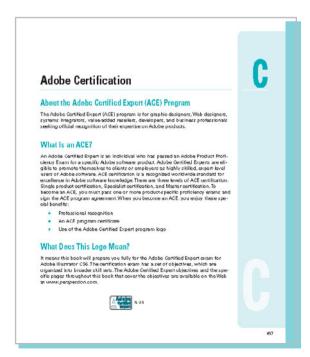
Workshops

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.perspection.com or at queondemand.com.



Adobe Certification

This book prepares you fully for the Adobe Certified Expert (ACE) exam for Adobe Illustrator CS6. 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.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 CS6. Some of the information includes:

Transition Helpers

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

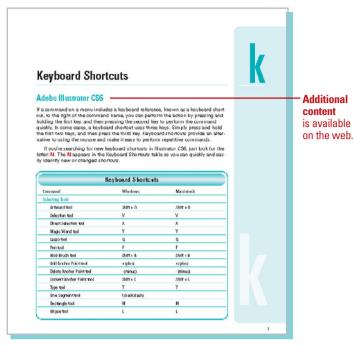
Productivity Tools

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.



Getting Started with Illustrator CS6

Introduction

Adobe Illustrator CS6 is a graphics design and drawing program that runs seamlessly on both Windows and Macintosh platforms. Adobe Illustrator CS6 is a stand-alone program, but it's also part of Adobe's Creative Suite of professional programs that work together to help you create designs in print, on the web, or on mobile devices. Many of the Creative Suite 6 programs also include additional Adobe programs and services—Bridge, Camera Raw plug-in, Media Encoder, Extension Manager, and ExtendScriptToolkit—to help you manage and work with files.

Creative artists from Hollywood, brochure designers, as well as casual users turn to Illustrator for its proven ability to create top-of-the-line vector artwork and complex graphic designs. Illustrator's ability to manipulate illustrations for use in books, brochures, multimedia presentations, or on the web, has made Illustrator the undisputed leader in the graphics industry. When it comes to vector illustration, Illustrator is literally the best software the computer industry has to offer.

With Illustrator, you can create anything from simple icons to multilayered illustrations, as well as manipulate text. And Illustrator's ability to work with other programs allows you to import Excel data for graph building, export Illustrator files directly to Adobe InDesign and QuarkXPress, as well as open layered Illustrator files in Photoshop, making it a snap to move back and forth between programs as you design.

1

What You'll Do

Install and Start Illustrator

View the Illustrator Window

Show and Hide Panels

Work with Panels

Use the Tools and Control Panel

Open a Document

Open a Document with Adobe Bridge

Insert Images in a Document

Work with Document Windows

Use the Status Bar

Check for Updates and Patches

Get Help While You Work

Save a Document

Finish Up

Installing Illustrator

Install Illustrator CS6 in Windows

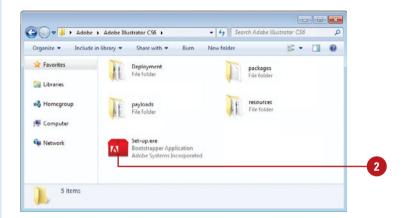
- 1 Insert the Illustrator CS6 or Adobe Collection CS6 disc into your DVD drive, or download the software online to your hard disk.
- 2 If necessary, double-click the DVD icon or open the folder with the downloaded software, and then double-click the setup icon.
- 3 Follow the on-screen instructions to install the product; the installer asks you to read and accept a licensing agreement, enter or create an Adobe ID or skip the step, enter a serial number, indicate the language you want, and specify where you want to install the software.

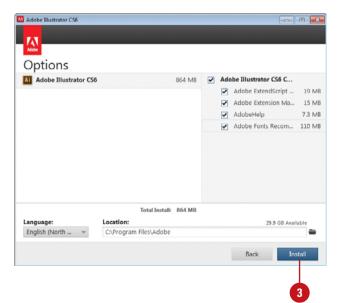
Did You Know?

The DVD comes with bonus content.

The Resources and Extras DVD included with Adobe CS6 products includes bonus content and files in the Goodies or Cool Extras folder. Check it out! For more free online resources, go to www.adobe.com and visit Adobe Exchange.

The process of installing the Illustrator application, either 32- or 64-bit edition (New!), is fairly straightforward; you insert the Illustrator CS6 installation disc into your DVD drive or download the software online to your computer, double-click the setup program and simply follow the onscreen instructions. The first thing that will happen is that the installer will check to see if you have the minimum system requirements. If you meet the minimums, the installer will guide you through the steps to complete the installation. The whole process takes about ten minutes, and at the end of the process you can launch Illustrator for the first time. Remember to have your serial number handy, because you will have to type it in during the installation process. It's a good idea to have that serial number in a safe place, just in case you would need to reinstall Illustrator.



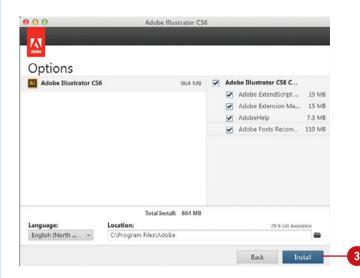


Install Illustrator CS6 in Macintosh

- 1 Insert the Illustrator CS6 or Adobe Collection CS6 disc into your DVD drive, or download the software online to your hard disk.
- If necessary, double-click the DVD icon or open the folder with the downloaded software, and then double-click the Install icon.
- 3 Follow the on-screen instructions to install the product; the installer asks you to read and accept a licensing agreement, enter or create an Adobe ID or skip the step, enter a serial number, indicate the language you want, and specify where you want to install the software.

Did You Know?

Most Adobe applications can be downloaded. It's all very simple; you go to www.adobe.com, click the Products menu item, and then select the application you want to purchase. You will need a credit card (of course), and a lot of bandwidth.



Illustrator CS6 System Requirements				
Hardware/Software Minimum (Recommended)				
WINDOWS				
Computer Processor	Intel Pentium 4 or AMD Athlon 64 or compatibl			
Operating System	Microsoft Windows XP SP3 or Windows Vista SP1 or Windows 7 SP1			
Hard Drive	2 GB of available space			
Available RAM	1 GB (3 GB recommended) for 32-bit; 2 GB (8 GB recommended) for 64-bit			
Video Card	16-bit			
Monitor Resolution	1024 x 768 (1280 x 800 recommended)			
DVD-ROM drive	Any type			
MACINTOSH				
Computer Processor	Multi-core Intel-based Macs for 64-bit			
Operating System	Macintosh OS X 10.6.8, 10.7, or higher			
Hard Drive	2 GB of available space			
Available RAM	2 GB (8 GB recommended)			
Video Card	16-bit			
Monitor Resolution	1024 x 768 (1280 x 800 recommended)			
DVD-ROM drive	Any type			

Getting Started

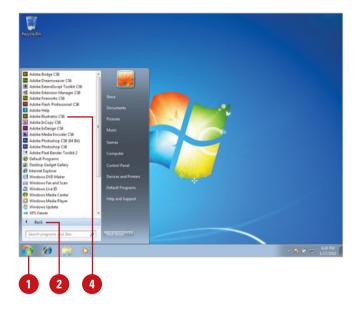
Start Illustrator CS6 in Windows

- 1 Click Start on the taskbar.
- Point to All Programs (which changes to Back).
- 3 Point to an Adobe Collection CS6 menu, if needed.
- 4 Click Adobe Illustrator CS6.
- 5 If you're starting Illustrator CS6 for the first time, you might be prompted to specify the following:
 - Enter or create an Adobe ID to register the product, click
 Submit, and then click Done.
 - Specify whether you want to migrate presets from earlier CS versions.

Did You Know?

You can create and use a shortcut icon on your desktop to start Illustrator (Win). Click Start on the taskbar, point to All Programs, right-click Adobe Illustrator CS6, point to Send To, and then click Desktop (Create Shortcut). Double-click the shortcut icon on your desktop to start Illustrator.

You can start Illustrator in several ways, depending on the platform you are using. When you start Illustrator, the software displays the Illustrator window. After you launch Illustrator, the program checks for updates to Illustrator and related CS6 software using the Adobe Application Manager. If you want to access the Adobe Application Manager at any time, you can choose Updates from the Help menu. Once inside this dialog box, you can click on Preferences to set Adobe Application Manager Preferences options. You can choose to be notified of new updates on the menu bar and you can also choose to allow Adobe to verify the success or failure of an update by sending a failure status to you.



Start Illustrator CS6 in Macintosh

- Open the **Applications** folder (located on the main hard drive).
 - For Lion, you can also click the Launchpad icon on the Dock, and then click the Adobe Illustrator CS6 icon.
- 2 Double-click the Adobe Illustrator CS6 folder or an Adobe Collection CS6 folder, if installed.
- 3 Double-click the Adobe Illustrator CS6 program icon.
- If you're starting Illustrator CS6 for the first time, you might be prompted to specify the following:
 - Enter or create an Adobe ID to register the product, click
 Submit, and then click Done.
 - Specify whether you want to migrate presets from earlier CS versions.

Did You Know?

You can create a shortcut on the Macintosh. Drag and drop the Illustrator application to the bottom of the monitor screen, and then add it to the dock.

You can create and use a keyboard shortcut to start Illustrator (Win). Click Start on the taskbar, point to All Programs, right-click Adobe Illustrator CS6, and then click Properties. In the Shortcut Key box, type or press any letter, number, or function key, such as I, to which Windows adds Ctrl+Alt. Click OK to create the keyboard shortcut. From anywhere in Windows, press the keyboard shortcut you defined (Ctrl+Alt+I) to start Illustrator.





For Your Information

Using Illustrator in 32-bit and 64-bit Mode

Launchpad icon in Mac OS X Lion

The terms 32-bit and 64-bit refer to the way a computer CPU processes information. A 64-bit system handles large amounts of RAM more effectively than 32-bit systems. Illustrator in 64-bit mode (New!) takes advantage of more than 4 GB of RAM when needed, instead of swapping out to the hard drive, which increases performance. When you install a 64-bit version of Illustrator on a 64-bit system and version of Windows 7/Vista/XP, you can use Illustrator in 32-bit or 64-bit modes. When you install a 32-bit version of Illustrator, you can only use it in 32-bit mode. For Windows on a 64-bit system, Illustrator CS6 installs 32-bit and 64-bit versions with shortcuts on the Start menu, where you can start either one. Any 32-bit plug-ins will no longer work in the 64-bit version. For the Mac (10.6.8, 10.7, or higher), Illustrator CS6 only installs one version in 64-bit mode.

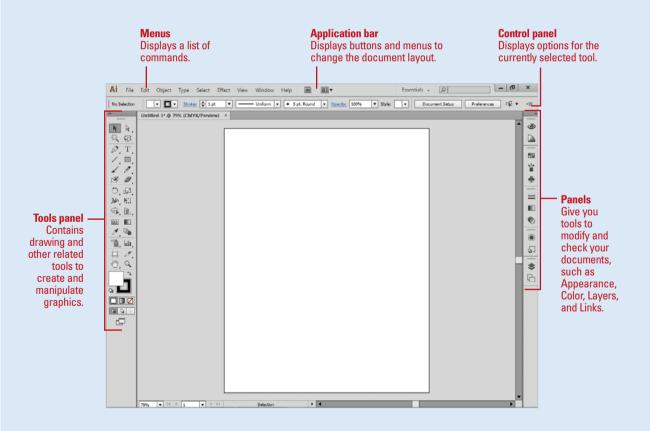
Viewing the Illustrator Window

When you start Illustrator, the program window displays several windows of varying types you can use to work with graphics and illustrations. In Illustrator, windows appear in the workspace in panels. A **panel** is a window you can collapse, expand, and group with other panels, known as a panel group, to improve accessibility and workflow. A panel group consists of either individual panels stacked one on top of the other or related panels organized together with tabs to navigate from one panel to another.

The **Tools panel** contains a set of tools you can use to create shapes, such as lines, rec-

tangles, rounded rectangles, and ellipses. You can fill shapes and text with a color, pattern, or custom tile. When you select a tool, additional options appear on the **Control panel**.

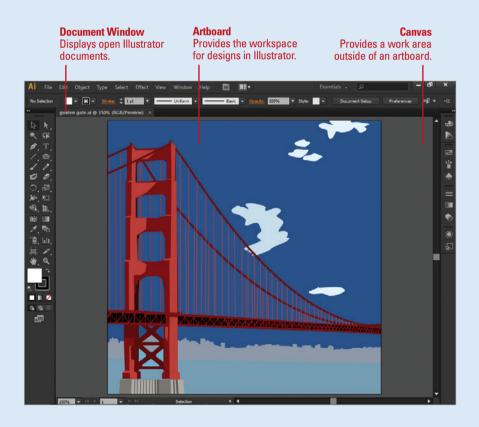
A **menu** is a list of commands that you use to accomplish specific tasks. A **command** is a directive that accesses a feature of a program. Illustrator has its own set of menus, which are located along the top of the Illustrator window. Next to the menus is the Application bar with additional options for accessing Adobe Bridge, changing the document layout, and choosing a workspace.



The **Document window** displays open Illustrator documents with one or more **art-boards** on a **canvas**. Illustrator includes tabs to make it easier to switch back and forth between documents and a close button to quickly close a document.

Changing the User Interface

Illustrator allows you to change the color of the user interface from a dark gray (default) (New!) to a light gray (similar to Illustrator CS5). You can change the interface color in User Interface Preferences. Click the Edit (Win) or Illustrator (Mac) menu, point to Preferences, click User Interface, click the Brightness list arrow, and then select a color, or drag the Brightness slider to the percentage you want. In addition, you can change the canvas color area around the image. In User Interface Preferences, click the Match User Interface Brightness or White option (New!). When you're done, click OK. Dialog boxes use the interface color too. Also, commit buttons, such as OK, Save, Done, etc., are at the bottom-right corner in all modal dialog boxes (New!). In addition, you have full keyboard access in all dialog boxes (New!).



Showing and Hiding Panels

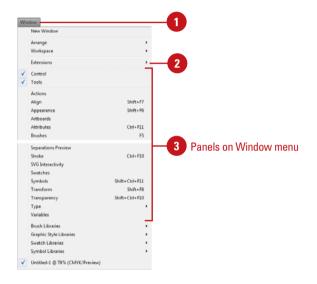
Open and Close a Panel

- 1 Click the Window menu.
- Point to a submenu (if needed), such as Type, Extensions, or a library (Brush, Swatch, etc.).
- 3 Click a panel name, such as Color, Layers, or Navigator.

A panel name with a check mark indicates the panel is open.

TIMESAVER To close a panel, or a single tab, right-click (Win) or control-click (Mac) a panel tab, and then click Close Tab Group or Close (for a single tab).

Panels give you easy access to many task-specific commands and operations from color control to vector path information. By default, the main panel display is located along the right side of your window. You can use the Window menu or click a panel tab within a group to display it, and then select options on the panel or choose panel-specific commands from the Panel Options menu to perform actions. Instead of continually moving, resizing, or opening and closing windows, you can use the header bar with the panel tabs to collapse or expand individual panels within a window to save space. When you want to resize a panel, there is a handy Resize bar (New!) at the bottom of the panels that need it, not all panels have a Resize bar.



Collapse or Expand a Panel

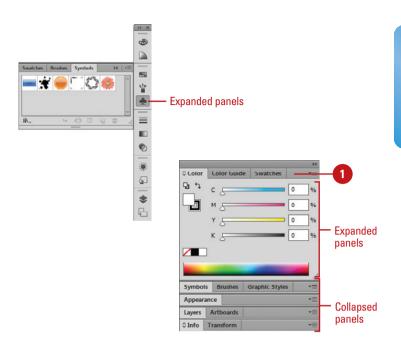
1 To collapse or expand an open panel, click the dark gray area or double-click a title tab on the header bar of the panel.

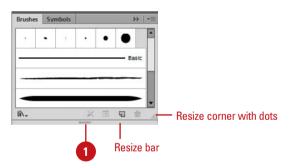
If the panel is in icon mode, click on the icon to expand or collapse it. To reduce the panel back to icon mode, click on the double right-facing arrows in the dark gray area. To expand from icons to panels, click on the double left facing arrows.

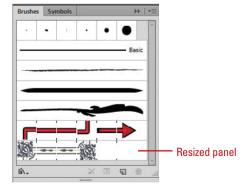
Resize a Panel

1 To resize a panel vertically or horizontally, point to the middle of the resize bar, and then drag up or down.

To resize a panel in to any size, point to a corner in the resize bar or a corner with dots, and then drag in any direction.







Working with Panels

Dock a Panel

- 1 Select a panel; click on a named panel, or click the **Window** menu, and then click a panel name.
- 2 Drag the window away from the panel to a different panel.
 - Add to Panel. Drag to a panel until a blue rectangle appears around the panel.
 - Append to Panel. Drag to a panel until a blue line appears along the side of the panel.

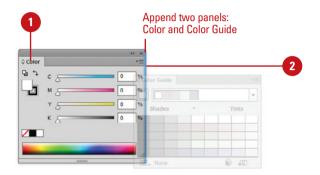
Undock a Panel

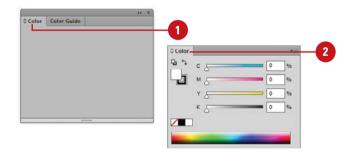
- 1 Select a panel; click on a named panel, or click the **Window** menu, and then click a panel name.
- 2 Drag the panel out of the group.
- 3 Drop it onto the Illustrator window.

Did You Know?

You can dock and undock panels to a docking channel. You can dock and undock, panels or panel groups in docking channels. A docking channel is a region located on the left and right side of the Illustrator window to which you can attach and detach panels. When you drag a panel over a dockable area, a blue line appears.

The movable panels are organized into groups, such as Color/Color Guide and Actions/Links, to save screen space and help with workflow. You can also dock (add) or undock (subtract) specific panels within a group to customize your workspace. A panel appears with a header, which includes the tab titles and three options: the Collapse to Icons or Expand Panels button, the Close button, and an Options menu. The Options menu provides you with panel commands. The entire set of panels includes a double arrow at the top you can use to collapse and expand the entire panel back and forth between icons and full panels. All panel icons have been redesigned for better identification (New!).





For Your Information

Hiding Panels While You Work

If Illustrator's panels get in the way, just press the Tab key to temporarily hide all the panels. Or, you can hold down the Shift key, and then press the Tab key to hide the panels, but leave the Toolbox and Control panel. Press the Tab key again to restore all the panels to their most recent positions.

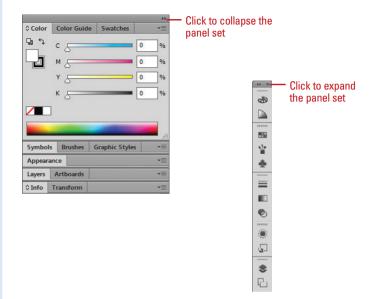
Collapse and Expand the Panel Set Between Icons and Panels

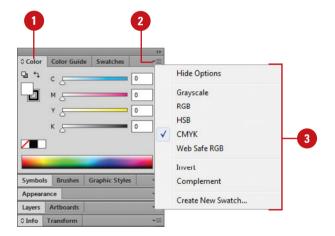
- To collapse the panel set to icons with text, click the double arrow pointing right (Collapse to Icons) at the top of the panels.
- To expand the panel set from icons with text to full panels, click the double arrow pointing left (Expand Panels) at the top of the panels.
- To have an expanded panel icon automatically collapse or hide when you click away, right-click (Win) or Control-click (Mac) a panel, and then click Auto-Collapse Iconic Panels or Auto-Show Hidden Panels.

Use the Panel Options Menu

- 1 Open or expand a panel.
- 2 Click the **Options** button on the right side of the panel header bar.
- 3 Click a command from the list (commands vary).
 - Show Options or Hide Options.
 Many of the panels include a Show Options command that displays additional commands.

If you don't see an option in a panel, click the **Options** button, and then click **Show Options**. If you want to hide the additional options, click the **Options** button, and then click **Hide Options**.





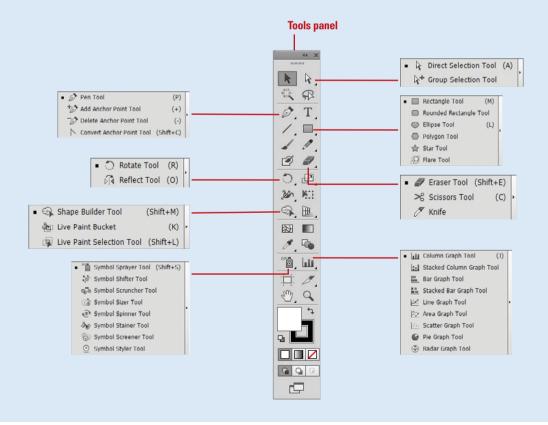
Using the Tools and Control Panel

Illustrator has an abundance of tools that give an Illustrator designer tremendous control over any creative designing problems that may crop up. For example, the Illustrator toolbox contains a variety of different tools: selection tools, painting or shape tools, type tools, and other tools dedicated to creating artboards, working with slices and transforming and viewing illustrations. Add to that collection, slicing, sampling, and viewing tools and you have all the tools you need to do any job.

When you work on a document, it's important to know what tools are available, and how they can help in achieving your design goals. Illustrator likes to save space, so it consolidates similar tools under one button. To access multiple tools, click and hold on any

Tools panel button that contains a small black triangle, located in the lower right corner of the tool button. Take a moment to explore the Illustrator toolbox and get to know the tools.

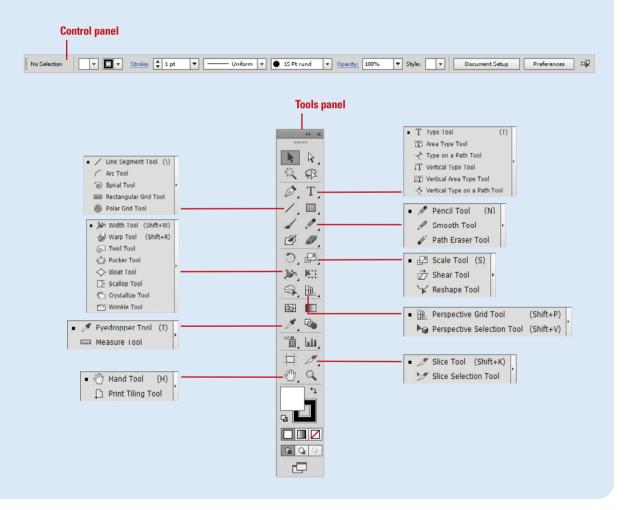
The Illustrator Tools panel contains the tools needed to work through any Illustrator job, but it's not necessary to click on a tool to access it. Simply using a letter of the alphabet can access all of Illustrator's tools. For example, pressing the P key switches to the Pen tool, and pressing the T key switches to the Type tool. In addition, if a button has more than one tool available, clicking the arrow on the right side of the tool menu displays all the tools in a small panel for easy access. When you display the small panel, you can click the arrow on the right edge to change the menu



to a panel, which stays open. You can click the Close button to dismiss it. You can refer to Adobe Illustrator CS6 Keyboard Shortcuts (available for download on the web at www.perspection.com) for more information on all the letter assignments for the various tools. To really get efficient in Illustrator, you need to learn to use both hands. Use one hand for your mouse or drawing tablet, and the other on the keyboard to make quick changes of tools and options. Think of playing Illustrator like playing a piano—you need to use both hands.

Using the Control Panel

The Control panel displays the options for the currently selected tool. For most tools, your options include Selection, Fill Color, Stroke Color, Weight, and Width Profile, Brush Definition, Opacity, Graphic Style panel, Document Setup, Preferences, and Select Similar Objects. The important thing to remember is that the Control panel is customized based on the tool you have selected; it has been redesigned and reorganized with most controls appearing in the same place for easier usage (New!).



Opening a Document

Open an Existing Document

- 1 Click the **File** menu, and then click **Open** to display all file types in the file list of the Open dialog box.
- 2 Click the Files of Type (Win) or Enable (Mac) list arrow, and then select a format
- 3 Navigate to the location with the document you want to open.
- 4 Click the image file you want to open.

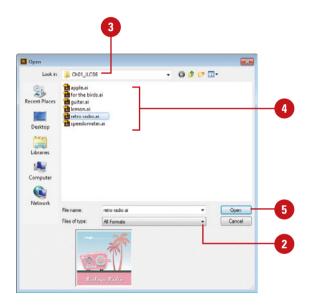
TIMESAVER Press and hold the Shift key to select multiple contiguous files to open while in the Open dialog box.

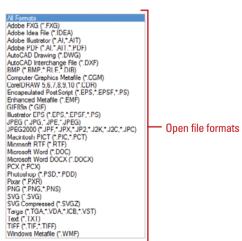
5 Click Open.

Did You Know?

You can delete a file in a dialog box (Win). In the Open or Save As dialog box, right click the file you want to delete, and then click Delete.

You can no longer open Freehand documents. In the Open dialog box, the Freehand extensions (FH7, FH8, FH9, FH10, FH11, and FT11) are no longer supported (New!). Illustrator lets you open image files created in different formats, such as TIFF, JPEG, GIF, PNG, Adobe FXG and Adobe Idea File (New!), as well as Illustrator documents in the AI format. If you want to simply open an image or Illustrator document, the Open dialog box is the most efficient way. However, if you need to manage, organize, or process files, Adobe Bridge is the way to go. You open an existing Illustrator document or image file the same way you open documents in other programs. In Windows Explorer (Win) or Finder (Mac), you can double-click an Illustrator document to open the Illustrator program and the document. When you open a document, a tab appears across the top of the Document window, with the document title. You can click the tab at any time to display that particular document.





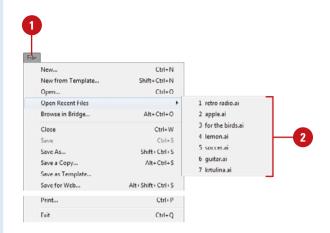
Open a Recently Opened Document

- 1 Click the File menu, and then point to Open Recent Files.
- Click the document you want to open.

Did You Know?

You can open a recent file quickly from the Start menu (Win). Click the Start button, point to Adobe Illustrator CS6 (7), Recent Items (Vista) or My Recent Documents (XP), and then click the file name you want to open.

You can open files from the Adobe Creative Cloud. Adobe Illustrator CS6 comes with the Adobe Creative Cloud desktop plug-in, which you can open and edit files (.IDEA) (New!) created in your Adobe Touch Apps.

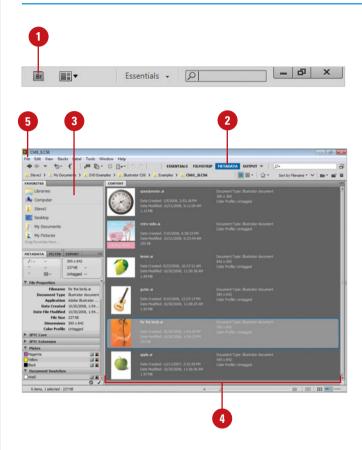


Opening a Document with Adobe Bridge

Browse and Open Documents with Adobe Bridge

- 1 Click the Go to Bridge button on the Application bar or click the File menu, and then click Browse in Bridge.
- 2 In Bridge, select a specific workspace to view your files the way you want.
- 3 Navigate to the location where the file is located.
- 4 To open an image in Illustrator, use any of the following:
 - Double-click on a thumbnail to open it in the default program.
 - Drag the thumbnail from the Bridge into an open Adobe application.
 - Select a thumbnail, click the File menu, point to Open With, and then click Adobe Illustrator CS6.
 - Select a thumbnail, click the File menu, point to Place, and then click In Illustrator.
- 5 To return to Illustrator, click the File menu, and then click Return to Adobe Illustrator.

With Adobe Bridge, you can drag assets into your layouts as needed, preview them, and add metadata to them. Bridge allows you to search, sort, filter, manage, and process files one at a time or in batches. You can also use Bridge to create new folders; rename, move, delete and group files (known as stacking); edit metadata; rotate images; and run batch commands. You can also view information about files and data imported from your digital camera.

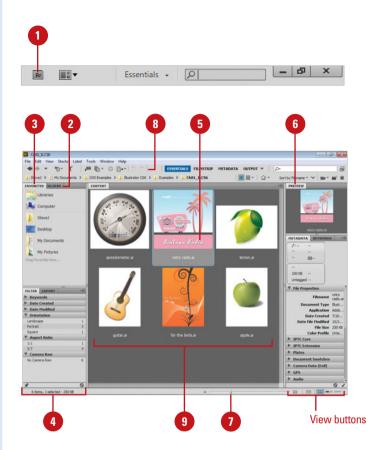


Work with Files Using Bridge

- 1 Click the Go to Bridge button on the Application bar or click the File menu, and then click Browse in Bridge.
- 2 Click the **Folders** tab and choose a folder from the scrolling list.
- 3 Click the **Favorites** tab to choose from a listing of user-defined items, such as Pictures.
- 4 To narrow down the list of images using a filter, click the criteria you want to use in the Filter panel.
- 5 Click an image within the preview window to select it.
- 6 Click the **Preview** tab to view a larger thumbnail of the selected image. Multiple images appear when you select them.
- 7 Drag the Zoom slider to increase or decrease the thumbnail views.
- 8 Use the file management buttons to rotate or delete images, or create a new folder.
- Double-click on a thumbnail to open it in the default program, or drag the thumbnail from the Bridge into an open Adobe application.

Did You Know?

You can reveal a document in Adobe Bridge from Illustrator. Open a document in Illustrator, click the triangle to the right of the Status Bar, and then click Reveal in Bridge.



Inserting Images in a Document

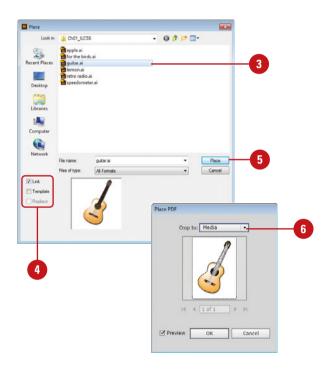
Insert an Image in a Document Using the Place Command

- Open an Illustrator document.
- 2 Click the File menu, and then click Place.
- Navigate to the location with the image, and then select the image you want to place into the active document.
- Select any of the following options:
 - Link. Places a screen version of the image and links the document to the image file.
 Deselect to embed a copy of the image in the document.
 - Template. Places a dimmed version of the image on a template layer.
 - Replace. Replaces the current image.
- 5 Click **Place**.
- 6 If an additional dialog box appears, specify the Place options that you want, and then click **OK**.

Illustrator places the image in the active layer, and then encloses it within a transformable bounding box.

7 Control the shape by manipulating the corner and side nodes of the freeform bounding box.

You can use Illustrator's Place command to insert artwork into an open document. To increase your control of the new image information, Illustrator places the new image into a separate layer. Illustrator lets you place files saved in Illustrator AI, Adobe PDF, Illustrator PSD, BMP, JPEG, EPS, PNG, TIFF, and TXT, DOC, or RTF formats to name a few. When you first place a vector-based image into Illustrator, you have the ability to modify the width, height, and rotation while retaining the vector format of the file.





Using the Status Bar

Use the Status Bar

- 1 Click the **black triangle** near the Status bar info box, point to **Show**, and then select from the following options:
 - Artboard Name. Displays the current artboard name.
 - Current Tool. Displays the current tool.
 - Date and Time. Displays the current date and time.
 - Number of Undos. Displays the current number of undos.
 - Document Color Profile. Displays the current document color profile.
- 2 To switch between artboards, use any of the following:
 - First or Last. Displays the first or last artboard.
 - Previous or Next. Displays the previous or next artboard.
 - Artboard Navigation. Displays the specified artboard.
- 3 To change the view size, click the View Size list arrow, and then select a view percentage or Fit On Screen.

To work efficiently in Illustrator you need information about the active document. Details about the document's color profile can help in the design and preparation of the final document. Illustrator displays current information about the active document through the Status Bar, located at the bottom of the document window. You can display the current artboard name, current tool, date and time, and the number of undoes. From the Status Bar, you can also switch between artboards and change the view size percentage.



Working with Document Windows

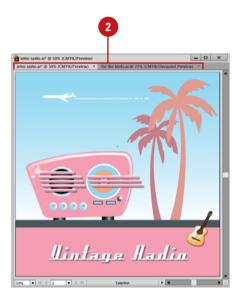
Work with Multiple Documents

- Open more than one document.
- Click a tab name to switch to the document.

TIMESAVER Press Ctrl+Tab or Ctrl+Shift+Tab to cycle to the tab you want.

- You can also click the Window menu, and then click a document name at the bottom of the menu.
- 3 To move a document window around, do any of the following:
 - To rearrange the order of tabbed documents drag a window's tab to a new location.
 - To switch to another document when dragging a selection, drag the selection over the document's tab.

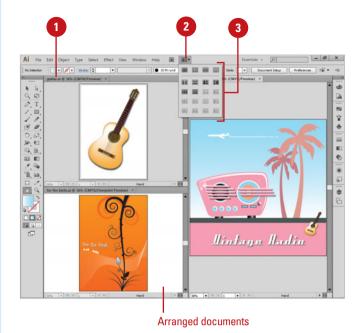
When you open multiple documents, you can use the Arrange Documents or Window menu or tabs at the top of the Document window to switch between them. You can click a tab name to switch to and activate the document. By default, tabs are displayed in the order in which you open or create documents. When you want to move or copy information between documents, it's easier to display several document windows on the screen at the same time and move them around. However, you must make the window active to work in it. Each tab also includes a Close button to quickly close a document. If the document view is too small or large, you can change it to suit your needs.





Arrange Multiple Documents

- Open more than one document.
- Click the Arrange Documents menu on the Application bar.
- 3 On the menu, select an arrangement button icon:
 - Consolidate All. Displays all active documents as tabs.
 - Tile All In Grid. Displays all open documents in a grid pattern on the screen.
 - Tile All Vertically. Displays all open documents vertically on the screen.
 - Tile All Horizontally. Displays all open documents horizontally on the screen.
 - 2-Up, 3-Up, 4-Up, 5-Up, or 6-Up.
 Displays the number of
 documents in the selected
 pattern (in the menu icon) on
 the screen.
- 4 To dock or undock a document window, drag the window's tab out of the group or into the group.



Checking for Updates Online

Check for Updates Directly from the Internet

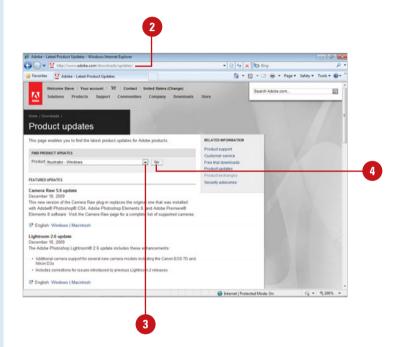
- 1 Open your Internet browser.
- 2 Go to the following web address: www.adobe.com/downloads/ updates/
- 3 Click the list arrow, and then click the Illustrator Macintosh or Illustrator Windows.
- 4 Click Go.

Any updates or patches appear in a list.

5 Based on your operating system, follow the onscreen instructions to download and install the software.

IMPORTANT Checking on your own requires a computer with a connection to the Internet. Since some of the updates can be rather large, it's recommended you have high-speed access.

As time passes, Illustrator—like any other program—will change. There are two types of changes to a program: updates and patches. Updates are improvements to a program such as a new feature, option, or command. Patches are software fixes for problems discovered after the public release of the program. The good news is that both updates and patches are free, and once downloaded, are self-installing. Adobe gives you two ways to check for changes. You can check manually by going to the Adobe web site, or automatically through the Adobe Application Manager. The Adobe Application Manager Preferences dialog box allows you to set update options for Illustrator and other installed Adobe products, such as Bridge. You can also set an option to have Adobe notify you of updates in the menu bar.



Check for Updates from the Illustrator Help Menu

1 Click the Help menu, and then click Updates.

Adobe checks your software with the latest available version.

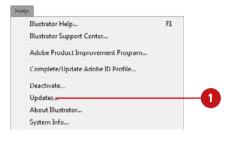
- 2 To manually check, click the Check For New Updates button.
- 3 To change preferences, click **Preferences**, select the update options you want, and then click **OK**.
- 4 Select the check boxes with the updates you want to install, and then click **Update**.
 - Click the Expand/Collapse arrow to show or hide updates.
- 5 When you're done, click the **Close** button.

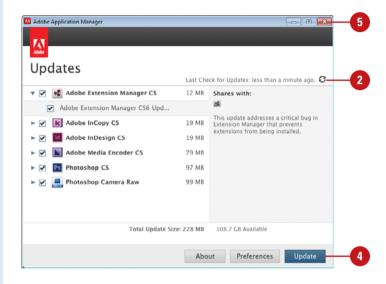
Did You Know?

You can deactivate or activate Illustrator to use on another computer.

You can use your serial number on only one computer at a time. If you're moving from one computer to another, you can deactivate your serial number on one computer and then activate it another one. Click the Help menu, click Deactivate, click Suspend Activation (saves serial number) or Deactivate Permanently (removes serial number), and then click Done. To activate it, click the Help menu, click Activate, and then follow the instructions.

You can complete or update your Adobe ID profile. An Adobe ID allows you to access Adobe online services. To complete or update your Adobe ID profiles, click the Help menu, click Complete/Update Adobe ID Profile, and then follow the online instructions.







Getting Help While You Work

Get Help Information

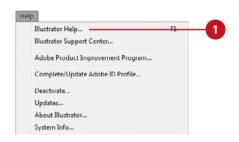
Click the Help menu, and then click Illustrator Help.

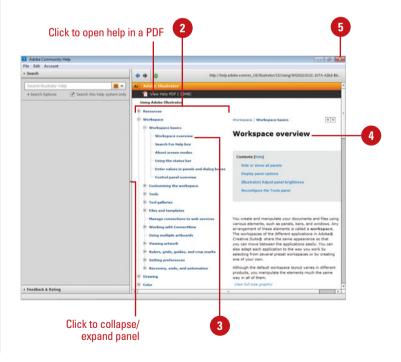
TIMESAVER Press F1 (Win) or **+/(Mac).

The Adobe Community Help window opens.

- Click Help categories (plus sign icons) until you display the topic you want.
- 3 Click the topic you want.
- 4 Read the topic, and if you want, click any links to get information on related topics or definitions.
- When you're done, click the Close button (Win) or click the Adobe Help menu (Mac), and then click Quit Adobe Help.

At some time, everyone has a question or two about using a program. When you start Illustrator Help, the Adobe Community Help window opens, displaying help categories and topics. You can search product help from Local Help, Community Help, or Adobe.com by using keywords or phrases or browsing through a list of categories and topics to locate specific information. Local Help accesses product help on your local computer, Community Help accesses product help online, and Adobe.com accesses related help information on Adobe.com. When you perform a search using keywords or phrases, a list of possible answers is shown from the search location with the most likely responses at the top. Along with help text, some help topics include links to text and video tutorials. In addition, comments and ratings from users are available to help guide you to an answer. You can add feedback and suggestions by signing in to Adobe.com using an Adobe ID.



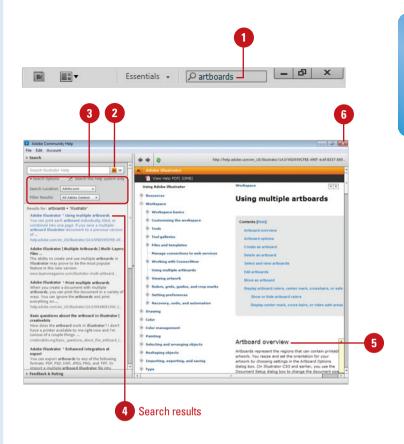


Search for Help Information

- 1 In Illustrator, on the Application bar, type one or more keywords in the Search box, and then press Enter (Win) or Return (Mac).
 - You can also click the Help menu, and then click Illustrator Help to open Help and use the Search box.

The Adobe Community Help window opens, displaying a list of topics that match the keywords you entered in the Search box.

- 2 To search another CS product, click the **Select Product** list arrow, and then select a CS product.
- 3 To refine a search, click **Search Options** to expand it, and then select any of the following options:
 - Search This Help System Only.
 Select to constrain the search to the selected product.
 - Search Location. Select Local Help, Community Help, or Adobe.com.
 - Filter Results. For Adobe.com, select a filter option.
- 4 Click the link to the topic you want from the search list of results.
 - What's New. Click the plus sign (+) next to Resources, and then click What's New.
- Read the topic, and if you want, click any links to get information on related topics or definitions.
 - Next and Previous Topics. Click the Previous or Next button on the right side of the Help web page.
- When you're done, click the Close button (Win) or click the Adobe Help menu (Mac), and then click Quit Adobe Help.



For Your Information

Participating in Adobe Product Improvement

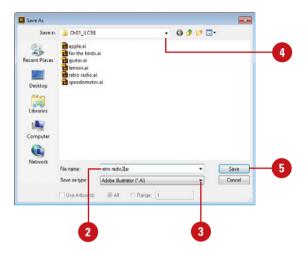
You can participate in the Adobe Product Improvement Program. Click the Help menu, click Adobe Product Improvement Program, and then follow the on-screen instructions. This is an opt-in program that allows you to test Adobe products and make suggestions for future products. This program enables Adobe to collect product usage data from customers while maintaining their privacy.

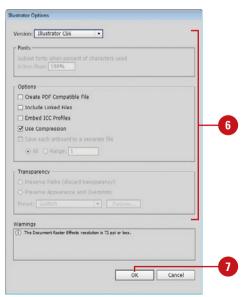
Saving a Document

Save an Illustrator Document

- 1 Click the File menu, and then click Save As.
- 2 Enter a name for the file.
- 3 Click the Save as Type list arrow (Win) or Format popup (Mac), and then click Adobe Illustrator (*.Al).
- 4 Navigate to the location where you want to save the document.
- 5 Click Save.
- 6 Select from the available options:
 - Version. Specify an Illustrator version in which to save.
 - Fonts. Specify when to embed the entire font or characters.
 - Create PDF Compatible File.
 Select to save a PDF in the file.
 - Include Linked Files. Select to include linked files.
 - Embed ICC Profiles. Select to embed the color profiles.
 - Use Compression. Select to compress the file.
 - Save Each Arthoard To A Separate File. Select to save arthoards in a file.
 - Transparency. Specify options for transparent objects.
- Click **OK**.

When you finish working on your Illustrator document, you need to save it before you close the document or exit Illustrator. Before you save a file, you should ask yourself, What is the intended final output of the image? Each output device, whether monitor or paper-based, requires a specific format. A file type specifies the document format (for example, a template) as well as the program in which the file was created (for example, Illustrator). You might want to change the type if you're creating a custom template or sharing files with someone who doesn't have the Adobe Illustrator program. If you have multiple artboards, you can save them in separate files. If you're saving a document created in an earlier version of Illustrator, known as a legacy format (New!), you'll get a dialog box, asking if you want to continue.





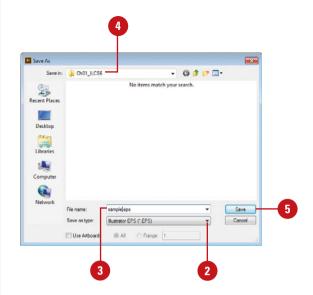
Save a Document in Other Formats

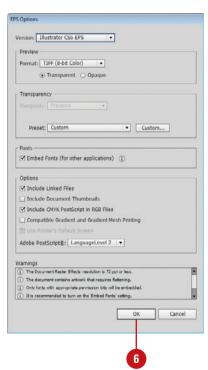
- 1 Click the File menu, and then click Save As.
- Click the Save as Type list arrow (Win) or Format popup (Mac), and then select a format.
 - Adobe FXG. Creates a FXG (Adobe Flex) graphics file.
 - Adobe PDF. Creates a PDF (Portable Document Format) document.
 - Illustrator EPS. Creates an Illustrator-based EPS image file.
 - SVG or SVG Compressed.
 Creates a SVG (Scalable Vector Graphics) image file.
- 3 Enter a name for the file.
- 4 Navigate to the location where you want to save the document.
- 5 Click Save.
- Specify the options that you want for the file type (options vary), and then click **OK**.
 - For help, point to an option to display a description at the bottom of the dialog box.

Did You Know?

You can save a copy of an Illustrator document. Open the document that you want to save as a copy, click the File menu, click Save A Copy, specify a name and location, click Save, specify Illustrator options, and then click OK.

You can revert to the last saved version. Click the File menu, and then click Revert.







Finishing Up

Close a Document

1 Click the **Close** button on the Document tab, or click the **File** menu, and then click **Close**.

TIMESAVER Press Ctrl+W
(Win) or (38)+W (Mac) to close a
document.

If necessary, click Yes to save any changes you made to your open documents before the program quits.

Exit Illustrator

- 1 Choose one of the following:
 - Click the Close button, or click the File menu, and then click Exit (Win).
 - Click the Illustrator menu, and then click Quit Illustrator (Mac).

TIMESAVER Press Ctrl+Q (Win) or @#+Q (Mac) to exit Illustrator.

If necessary, click Yes to save any changes you made to your open documents before the program quits. After you work on a document, you can finish up by closing the document or by exiting Illustrator. You should save the document before closing it. Exiting Illustrator closes the current document and the Illustrator program and returns you to the desktop. You can use the Exit command on the File menu (Win) or Quit Illustrator command on the Illustrator menu (Mac) to close a document and exit Illustrator, or you can use the Close button on the Illustrator Document tab. If you try to close a document without saving your final changes, a dialog box opens, asking if you want to do so.





Creating and Viewing a Document

2

Introduction

You can either open an existing document or create a new one to work on in Illustrator. When you create a new document, you can create one from scratch or use one of the built-in profiles, such as print, web, mobile, devices (iPad, iPhone, Xoom, Fire/Nook or Galaxy S), film, and video. The built-in profiles make it easy to create documents for specific purposes without the hassle of specifying individual settings. However, if you know the individual settings you want, you can create a new document from scratch.

At the same time you create a new document, you can also create multiple artboards. Artboards are regions of a document that contain printable artwork. Multiple artboards are useful for creating documents with different sizes, creating and organizing artwork elements in different places within the same document, and creating multiple-page PDFs.

Having problems squinting at the small details of an image? Using the Navigator panel or Zoom tool is a great way to get you focused where you need to be. Zooming into a specific section of a document makes touching up the fine details just that much easier.

Illustrator's navigation and measurement systems—rulers, grid, guides, smart guides—are more than just information; they represent control of the document and control of the creative process. In addition, the Info panel gives you up-to-date information on the exact position of the cursor inside the document, as well as detailed color information that can be indispensable in preparing your designs.

What You'll Do

Create a New Document

Create a New Document Using Document Presets

Create a New Document from a Template

Set Up a Document

Use and Work with Multiple Artboards

Change the Display View

Change the View with the Navigator Panel

Customize the Navigator Panel

Change the Screen Display Mode

Change the View with the Zoom Tool

View and Use Rulers

Use Guides and Smart Guides

Use the Grid

Move Around with the Hand Tool

Use Crop Marks

Work with the Info Panel

Use Undo and Redo

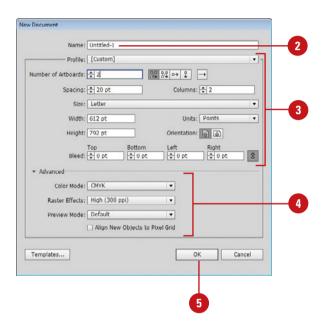
Create and Select Workspaces

Creating a New Document

Create a New Document

- 1 Click the File menu, and then click New.
- Type a name for the document.
- 3 Click the Profile list arrow, and then select a preset, or choose your own options to create a custom document.
 - Number of Artboards. Specify a number, and then select options for arrangement and spacing.
 - Size. Select from the various sizes, such as Letter or Legal.
 - Width and Height. Select from various measurements, such as points, centimeters, or inches.
- 4 Click the **Advanced** button (if necessary), and then select the advanced options you want:
 - Color Mode. Select a color mode, such as RGB or CMYK.
 - Raster Effects. Select the resolution for raster effects.
 - Preview Mode. Default displays artwork in vector view; Pixel displays artwork with a rasterized look, and Overprint displays an ink preview.
 - Align New Objects to Pixel Grid. Sets an object to have its vertical and horizontal paths aligned to the pixel grid.
- Click OK.

Creating a new Illustrator document requires more thought than creating a new word processing document. For example, there are bleed, color mode, and raster effect considerations to keep in mind. You can create as many new documents as you need. However, since opening more than one document takes more processing power, it's probably best to work on only one new document at a time. Once a new document is created, you have access to all of Illustrator's design and manipulation tools to create anything you can imagine.



For Your Information

Selecting a Color Mode

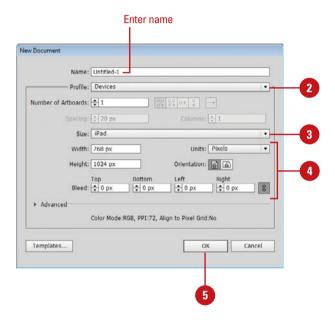
A color mode determines how Illustrator displays and prints an image. You choose a different color mode (based on models used in publishing) for different tasks. You can choose a color mode when you create a new document or change a color mode for an existing document. The common color modes include: RGB (Red, Green, and Blue). Best for online and multimedia color images. Red, green, and blue are also the primary colors on a monitor. CMYK (Cyan, Magenta, Yellow, and Black). Best for commercial printing of color images. A color space is a variant (such as Adobe RGB or Apple RGB, of a color mode and has a specific gamut (range) of colors for different devices (monitor, scanner, printer, printing press, or digital camera).

Creating a New Document Using Presets

Create a New Document Using Presets

- 1 Click the File menu, and then click New.
- Click the **Profile** list arrow, and then select a preset:
 - Print
 - ◆ Web (New!)
 - Mobile
 - Devices (New!)
 - Video and Film
 - Basic RGB
 - Flash Builder. An Adobe development tool (New!).
 - Custom
- 3 Click the **Size** list arrow, and then select the preset you want; options vary depending on the profile type.
 - Print. For example, Letter or Legal.
 - Web. For example, 960 x 560 or 1280 x 800 (New!).
 - Mobile. For example, 768 x 1024.
 - Devices. For example, iPad, iPhone, Xoom, Fire/Nook or Galaxy S (New!).
 - Video & Film. For example, HDTV 1080.
- If you want, adjust the available options.
- Click **OK**.

When you create documents for specific purposes, such as print, web, film, video, or for use on a mobile device, you know the importance of creating documents that will perfectly match the output requirements of the intended file destination. The preset file sizes available in the Profile menu let you create images at a size and pixel aspect ratio that compensate for scaling when you incorporate them into various output modes. When you work with the Profile menu, the guesswork involved in creating compatible photo, web, mobile, device (including iPad, iPhone, Xoom, Fire/Nook or Galaxy S) (New!), video and film, or Adobe Flash Builder (New!) documents in Illustrator is a thing of the past.



For Your Information

Using Adobe Flash Builder

Adobe Flash Builder is a stand-alone professional interaction development tool for rapidly creating cross-platform, interactive content for mobile (Google Android and Apple iOS), web, and desktop applications using ActionScript 3.0 and the open source Flex framework. You can transform artwork created in Adobe Illustrator, Photoshop, and Fireworks into interactive designs. For example, you can create screen designs or graphics in Illustrator, open the artwork in Flash Builder, and add interactive components to it, yet still maintain the ability to make changes back in Illustrator without affecting the Flash Builder content. For more information about Flash Builder and where to get it, go to www.adobe.com/products/flash-builder.htm.

Creating a New Document from a Template

Create a New Document from a Template

- 1 Click the File menu, and then click New From Template.
 - You can also click **Templates** in the New dialog box.

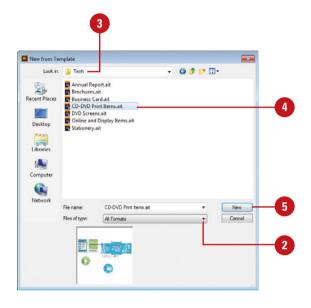
The Templates folder appears, displaying different types of templates available for Illustrator.

- Click the Files of Type (Win) or Enable (Mac) list arrow, and then click All Formats or a specific one.
- 3 Navigate to the location where the template you want to use is stored.
- 4 Click the template file you want to use.
- 5 Click **New**.

See Also

See Chapter 3, "Working with Objects," on page 63 for information on selecting and changing objects.

A template is a special document that makes it easier to create a new document. If you frequently use an existing document, such as Stationery, to start a new document, then you should create a template, which uses the Illustrator Template (AIT) file format. You can create your own template or use one provided by Illustrator. Illustrator comes with a variety of templates, such as Banner Ads, Boxes, Brochures, Business Cards, CD Cases, and Stationery. When you create a new document from a template, the document appears as untitled with the extension (AI), so you don't mistakenly make and save changes over the template file.



New Untitled document from a template

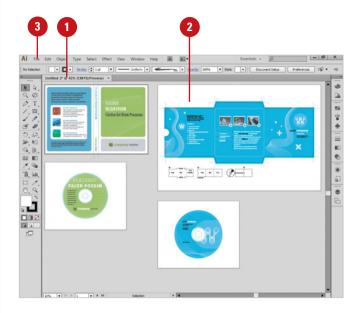


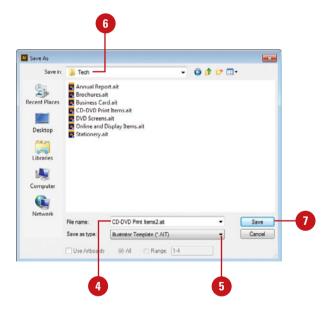
Create a Template Document

- Open a new or existing document.
- Create a custom document.
- 3 Click the File menu, and then click Save As Template.

The Templates folder appears, displaying different types of templates available for Illustrator.

- Type a name for the new template.
- 5 Click the Save as Type (Win) or Format (Mac) list arrow, and then click Illustrator Template (*.AIT), if necessary.
- 6 Navigate to the location where you want to store the template.
- 7 Click Save.



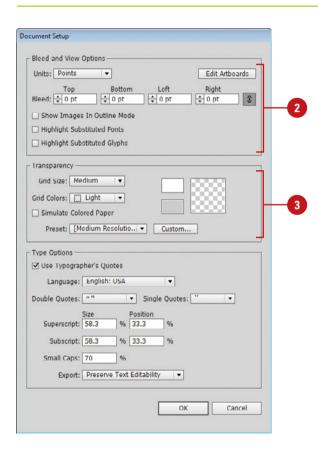


Setting Up a Document

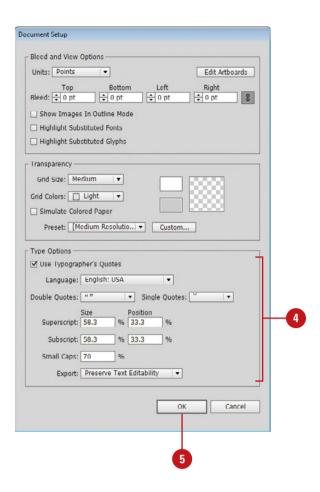
Change Document Options

- 1 Click the File menu, and then click Document Setup.
- 2 Select from the following Bleed and View Options settings:
 - Edit Artboards. Click to close the dialog box and use the Artboard tools to edit artboards.
 - Units. Specify measurement units for the document.
 - Bleed. Specify the amount of bleed around the edges of the document.
 - Show Images in Outline Mode.
 Select to show image in Outline mode.
 - Highlight Substituted Fonts.
 Select to highlight unavailable fonts that are substituted for existing fonts on your computer.
 - Highlight Substituted Glyphs.
 Select to highlight unavailable type glyphs that are substituted for existing glyphs on your computer.
- 3 Select from the following Transparency settings:
 - Grid Size. Specify a size (Small, Medium or Large) for the transparency grid.

After you create a document, you can use the Document Setup command on the File menu to change your document's default options. In the Document Setup dialog box, you can change options for bleed and view, transparency, and type. For Bleed and View, you can change the units of measure and bleed size, view images in Outline mode and highlight substituted fonts and glyphs. For Transparency, you can change the transparency grid size and color. If you regularly print or export transparency, you can specify preset (New!) or custom flattener settings for the best resolution for rasterizing transparent areas. For Type, you can change the document language, double and single quotes styles, superscript and subscript settings, and export options.



- Grid Colors. Specify an intensity and color (Light, Medium, Dark, Red, Orange, Green, Blue, or Purple) for the transparency grid.
- Simulate Colored Paper. Select if you plan to print on colored paper. This option replicates the effect of colored paper. This is shown when the transparency grid is not visible.
- Preset. Specify a resolution preset (High, Medium, Low, or For Complex Art (New!)) or select a custom setting. The resolution depends on your output device.
- 4 Select from the following Type Options settings:
 - Use Typographer's Quotes.
 Select to use curly quotes instead of straight ones.
 - Language. Specify the language for the document.
 - Double Quotes. Specify the character for double quotes.
 - Single Quotes. Specify the character for single quotes.
 - Superscript. Specify the size and position (as a percentage) for text that appears higher than the text line.
 - Subscript. Specify the size and position (as a percentage) for text that appears lower than the text line.
 - Small Caps. Specify the size (as a percentage) for small cap text.
 - Export. Specify an option to preserve text editability or appearance.
- 5 Click OK.

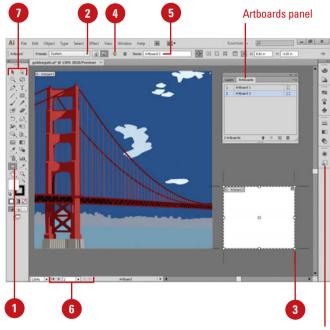


Using Multiple Artboards

Create an Arthoard

- 1 Select the **Artboard** tool on the Tools panel.
- 2 To use a preset dimension, click the **Preset** list arrow on the Control panel, and then select a preset.
- 3 Drag in the workspace (outside an arthoard) to create an arthoard.
 - To create an artboard within an artboard, hold down Shift and then drag.
- 4 To duplicate an existing artboard, click to select the artboard, click the **New Artboard** button on the Control or Artboards panel, and then click to place it.
 - To create multiple duplicates, Alt-click instead as many times as you want.
 - To open the Artboards panel, click the Window menu, and then click Artboards.
- 5 Enter a name in the Name box on the Control Panel.
- To navigate between artboards, use the Navigation buttons on the Status bar or on the Artboards panel.
- To exit the artboard editing mode, press Esc or click a different tool.

Artboards are regions of a document that contain printable artwork. You can use artboards as crop areas for printing or placement. They are useful for working with multiple artwork elements. You can create multiple artboards (1 to 100) at different sizes and position them anywhere on the screen. You can create multiple artboards by using the New dialog box, the Artboard tools in the Tools panel, or the Artboards panel. Multiple artboards are useful for creating documents at different sizes, creating and organizing artwork in different places within the same document, and creating multiple-page PDFs. You can also specify custom names for artboards, rearrange the artboard layout, reorder artboards, and duplicate artboards.

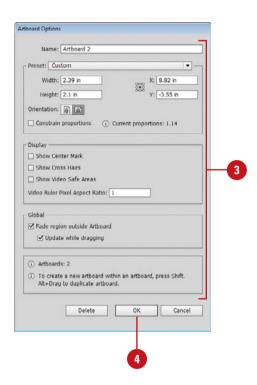


Artboards panel button

Change Artboard Options

- Select the Artboard tool on the Tools panel.
- Select from the options below in Step 3 on the Control panel, or click the **Artboard Options** button on the Control panel to open the Artboard Options dialog box.
- Select from the following options:
 - Artboard Name. Specify a name for an artboard.
 - Preset. Specify artboard dimensions using predefined measurements.
 - Width and Height. Specify the size of the artboard.
 - Orientation. Specify a portrait or landscape orientation.
 - Constrain Proportions. Keeps the artboard size proportional.
 - X and Y Position. Specifies the position of the artboard.
 - Show Center Mark. Displays the center point in the artboard.
 - Show Cross Hairs. Displays cross hair lines through the center of each artboard side.
 - Show Video Safe Areas. Displays guides inside the video viewable area.
 - Video Ruler Pixel Aspect Ratio. Specify the aspect ratio for artboard rulers.
 - Fade Region Outside Artboard. Displays the area outside the artboard in a darker shade.
 - **Update While Dragging.** Displays the area outside the artboard darker as you drag to resize the artboard.
 - Artboards. Displays the current number of artboards.
- Click OK.





For Your Information

Working with Artboards and Objects

The Object menu includes an Artboard submenu that you can use to convert objects (non-rotated ones that are not clipping masks) to artboards, rearrange artboards, resize the artboard to the artwork bounds, and resize the artboard to the select objects. Click the Object menu, point to Artboards, and then click Convert to Artboards, Rearrange, Fit To Artwork Bounds, or Fit To Selected Art.

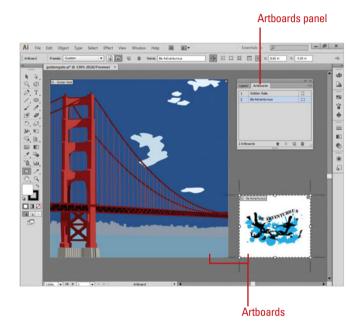
37

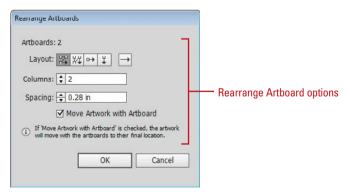
Working with Multiple Artboards

Work with Multiple Artboards

- Artboards Panel. Click the Window menu, and then click Artboards or click the Artboards button.
- Activate. Select the Arthoard tool on the Tools panel, and then click an arthoard or click an arthoard in the Arthoards panel.
- Show or Hide Artboards. Click the View menu, and then click Show Artboards or Hide Artboards. You can also press Shift+Ctrl+H (Win) or Shift+638+H (Mac), and then press an arrow key.
- Resize. Select the Artboard tool on the Tools panel, point to the edge or corner (cursor changes to a double-arrow), and then drag to resize the artboard.
- Move with or without Contents. Select the Artboard tool on the Tools panel, click to select or deselect the Move/Copy Artwork With Artboard button on the Control panel, and then drag the artboard.
- Delete. Select the Artboard tool on the Tools panel, click the artboard to activate it or select it in the Artboards panel, and then click the Delete button on the Control or Artboards panel or press Delete.
- Rearrange Artboard Layout. Open the Artboards panel, click the Options button, click Rearrange Artboards, select layout, columns, and spacing options, and then click OK.

After you create one or more artboards, you can edit and work with them to display your artwork. You can view all of your artboards by using Artboard Navigation on the Status bar or in the Artboards panel. Each artboard is numbered and named so you can quickly switch between them or reorder them. In order to work with an artboard, you need to activate it first. You can only activate one artboard at a time. After you activate an artboard, you can perform the following artboard operations: change the view (outline or preview), resize, move the artboard with or without its contents, rotate, and delete. In addition, you can also change the artboard layout, display for artboard rulers, center mark, cross hairs, and video safe areas.





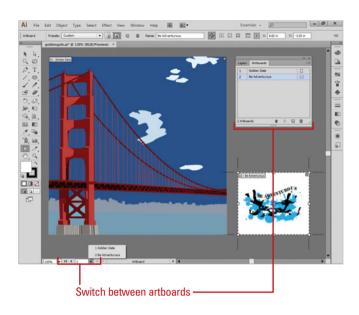
Switch Between Arthoards

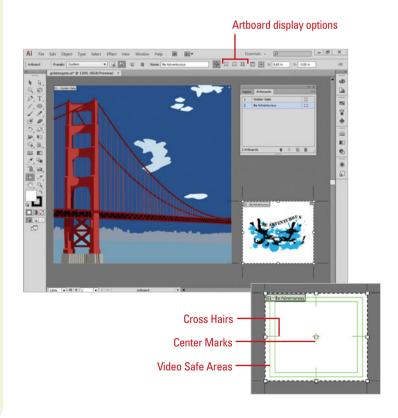
- Switch to a Specific Artboard. Click the Artboard Navigation list arrow on the Status bar, and then select an artboard or click an artboard in the Artboards panel. You can also press Alt (Win) or Option (Mac), and then press an arrow key.
- First and Last Arthoard. Click the First or Last button on the Status bar.
- Previous and Next Artboard. Click the Previous or Next button on the Status bar.
- Reorder Artboards. Open the Artboards panel, select an artboard, and then click the Move Up or Move Down button.

Change the Artboard Display

- Rulers. Click the View menu, point to Rulers, and then click Change to Artboard Rulers.
- Center Mark. Select the Arthoard tool on the Tools panel, and then click the Show Center Mark button (toggle on/off) (New!).
- Cross Hairs. Select the Artboard tool on the Tools panel, and then click the Show Cross Hairs button (toggle on/off) (New!).
- Safe Area. Select the Arthoard tool on the Tools panel, and then click the Show Video Safe Areas button (toggle on/off) (New!).
- View as Outline. Right-click the artboard, and then click Outline.

To preview the artboard, right-click the artboard, and then click **Preview**.





Changing the Display View

Change the Display View

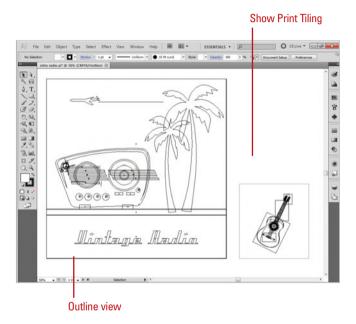
- Preview View. Click the View menu, and then click Preview.
- Outline View. Click the View menu, and then click Outline.

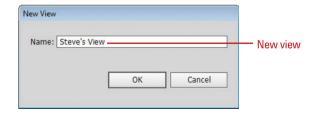
To view all artwork in a layer as outlines, Ctrl-click (Win) or Command-click (Mac) the eye icon for the layer in the Layers panel.

To view all items in unselected layers as outlines, Alt-Ctrl-click (Win) or Option-Command-click (Mac) the eye icon for the layer in the Layers panel.

- Show Print Tiling. Click the View menu, and then click Show Print Tiling. To hide print tiling, click the Show Print Tiling command again.
- Create a New View. Set up the view the way you want, click the View menu, click New View, enter a name, and then click OK.
- Rename or Delete a View. Click the View menu, click Edit Views, select a view, rename it or click Delete, and then click OK.
- Switch Between Custom Views.
 Click the View menu, and then select a view by name.

Illustrator uses two main views: Preview and Outline. Preview displays your artwork in color as it appears on the screen, while Outline displays your artwork as an outline, or paths. Outline view speeds redraws for complex artwork. If your artwork doesn't fit on a printed page, you can use tiling options in the Print dialog box to print it. If you want to see how it will print, you can change the view to show print tiling. You can also view your artwork as it will appear in final output, either printed or viewed on the web or a mobile device. If you like a certain view with different options than the Preview or Outline views, you can also create and work with custom views.



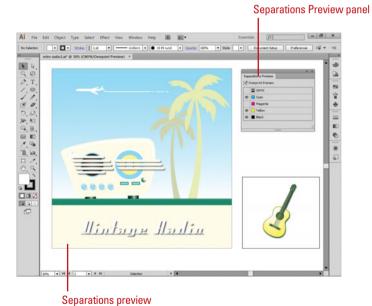


Display Output Views

- Overprint Preview Mode. Displays an ink preview with blending, transparency, and overprinting in color separated output. Click the View menu, and then click Overprint Preview.
- Separations Preview Mode.
 Displays separations as they print.
 Click the Window menu, and then click Separations Preview.
- Pixel Preview Mode. Displays the artwork as it's rasterized and viewed on the web. Click the View menu, and then click Pixel Preview.
 - To view the pixel grid, zoom to 600% or higher in Pixel Preview mode. To set preferences for viewing pixel grid, click the Illustrator (Mac) or Edit (Win) menu, point to Preferences, click Guides & Grid, select the Show Pixel Grid (Above 600% Zoom) check box, and then click OK.
- Flattener Preview Mode. Displays and highlights artwork areas that are flattened when saved or printed. Click the Window menu, and then click Flattener Preview.
- Soft Proofs. Displays your artwork as it will appear on a monitor or output device. Click the View menu, point to Proof Setup, and then select a proof.



Overprint preview



Chapter 2 Creating and Viewing a Document

Changing the View with the Navigator Panel

Change the View Size with the Navigator Panel

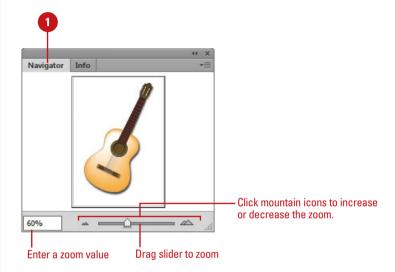
- 1 Select the Navigator panel.
- 2 Use one of the following methods to change the view size:
 - Drag the triangular slider to the right to increase the zoom or to the left to decrease the zoom.
 - Click the small and large mountain icons, located to the left and right of the triangular slider, to decrease or increase the zoom.
 - Enter a value from 3.13% to 6400% into the Zoom box.

Did You Know?

There are additional ways to zoom in using the Navigator panel. In the View box, hold down the Ctrl (Win) or Command (Mac) key, and then drag to resize the active document.

You can constrain the view box to drag horizontally or vertically. Hold down the Shift key, and then drag the view box horizontally or vertically.

Illustrator's Navigator panel gives you an overall view of the image and the ability to navigate through the document or change the zoom size. Viewing images at different sizes gives you the ability to focus on small elements of the design without actually changing the image in any way. Once small areas of an image are enlarged, it's easier for you to make minute changes. The Navigator panel contains a thumbnail view of the image, and under the thumbnail are easy-to-use controls that let you adjust the zoom of the image. In addition, changes made in the Navigator panel are immediately viewable in the active document window (what you see is what you get). The Navigator panel gives you a visible approach to changing the viewable area of the image. The view box in the Navigator panel represents the visible boundaries of the active document window, which is the viewable area of the image.



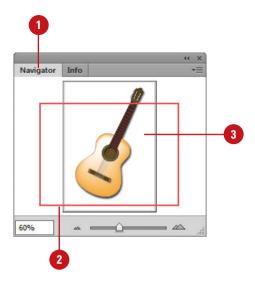
Change the View Area with the Navigator Panel

- 1 Select the Navigator panel.
- 2 Drag the view box in the thumbnail of the active image.
- Click within the thumbnail.

The position of the view box changes, which also changes the viewable area of the image in the document window.

Did You Know?

You can change the Zoom size of an image using the Navigator thumbnail. Hold down the Ctrl key (Win) or the wey (Mac), and then drag in the thumbnail. When you release your mouse, the selected area expands. It's just like using the Zoom tool, except you're dragging in the Navigator's thumbnail. Conversely, if you drag a second time (this time using a larger rectangle), the image zooms out.



For Your Information

Navigator Panel Shortcut

You can control the view of the document through a great shortcut. Simply click once in the Zoom input box on the Navigator panel, and then use the Up/Down arrow keys to increase or decrease the zoom value of the document 1% at a time. Not fast enough for you? Then hold down the Shift key, and use the Up/Down arrow keys to change the zoom size 10% at a time.

Customizing the Navigator Panel

Change the View Box Color

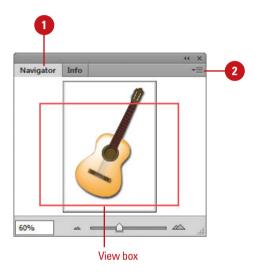
- Select the Navigator panel.
- 2 Click the Navigator Options button, and then click Panel Options.
- 3 Click the View Box Color list arrow, and then click a predefined color, or click the Color Box to select a custom color from the Color Picker dialog box.
- 4 Specify a **Greeking** value (in point) to set a size approximation for text characters on the screen.
- 5 Select the **Draw dashed lines as solid lines** check box to display dashed lines as solid to make them easier to view.
- 6 Click OK.

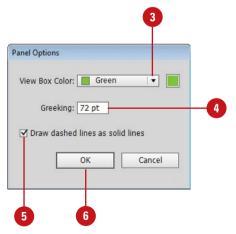
Did You Know?

You can increase the size of the Navigator panel's thumbnail.

Drag the lower right corner of the Navigator panel to expand the size of the panel. As the Navigator panel increases in size, so does the thumbnail.

The colored box in the Navigator panel (proxy preview area) defines the viewable area of the image. It's important for the colored lines of the view box to stand out clearly against the image. The default color of the view box is a light red; however, some documents contain elements that are predominantly the same color as the colored lines of the viewable area, making the viewing area difficult to identify. By changing the color of the lines, you can make sure they stand out against the image. This may seem like a small thing, but choosing a color that contrasts with my image significantly cuts down on my frustration level when I'm attempting to identify the viewable area.





Changing the Screen Display Mode

Change the Screen Mode

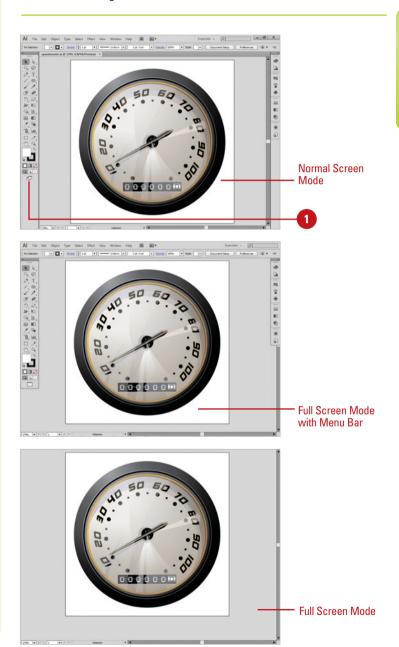
- Click Change Screen Mode button to toggle between screen modes, and then select the mode you want:
 - Normal Screen Mode. Displays the artwork in a standard window. All menus, panels, and scroll bars are visible.
 - Full Screen Mode with Menu Bar. Displays the artwork full screen. All menus, panels, and scroll bars are visible.
 - Full Screen Mode. Displays the artwork full screen. No title bar, menus, or panels are visible.

TIMESAVER Press F to toggle between the screen modes.

Did You Know?

You can temporarily hide all of Illustrator's panels and Tools panel.
Press the Tab key to hide the panels.
Press the Tab key a second time to display the hidden panels. Hold down the Shift key, and then press the Tab key to hide the panels, but not the Tools and Control panels.

In Illustrator, the Screen Display mode determines the background displayed behind the active image. For example, you can choose a Screen Mode that hides all the panels, title bar, or menu bar. Since monitor backgrounds, combined with Illustrator's panels, add distracting colors to your workspace, changing the Screen Mode gives you a chance to isolate your image against a solid color background. Viewing your images against a gray background helps your eyes identify the true colors within an image.

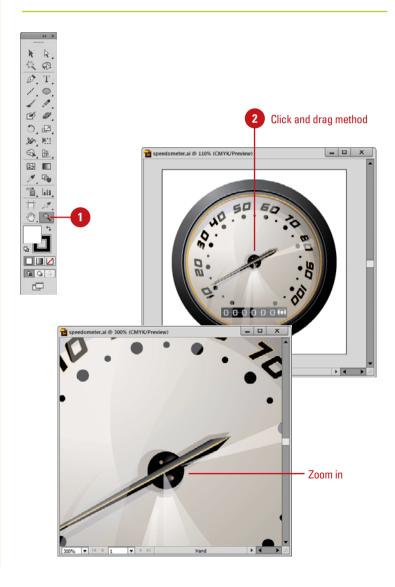


Changing the View with the Zoom Tool

Zoom In the View of an Image

- 1 Select the **Zoom** tool on the Tools panel.
- Use one of the following methods:
 - Click on the document. The image increases in magnification centered on where you clicked.
 - Drag to define an area with the Zoom tool. The image increases in magnification based on the boundaries of the area you dragged.
 - Set a specific view size. Click the View Size on the Status bar, and then select a specific percentage size magnification.
 - Fit in Window. Click the View menu, and then click Fit All In Window or Fit Artboard In Window.

Working with the Zoom tool gives you one more way to control exactly what you see in Illustrator. Just like the Navigator panel, the Zoom tool does not change the active image, but allows you to view the image at different magnifications. The Zoom tool is located towards the bottom of Illustrator's Tools panel, and resembles a magnifying glass. The maximum magnification of an Illustrator document is 6400%, and the minimum size is 3.13%. Increasing the magnification of an image gives you control over what you see and gives you control over how you work. Large documents are difficult to work with and difficult to view. Many large documents, when viewed at 100%, are larger than the maximum size of the document window, requiring you to reduce the zoom in order to view the entire image.



Zoom Out the View of an Image

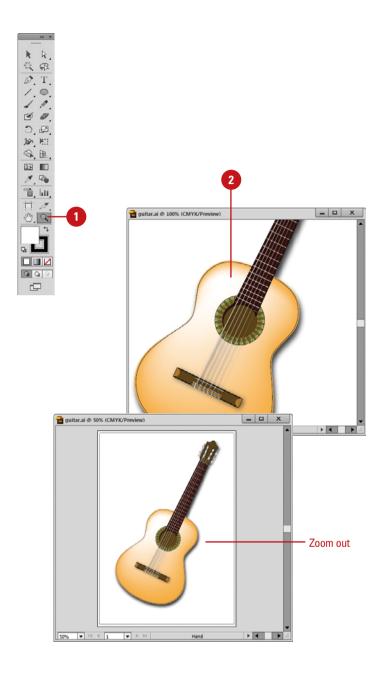
- 1 Select the **Zoom** tool on the Tools panel.
- 2 Hold down the Alt (Win) or Option (Mac) key, and then click on the screen to reduce the zoom of the active document.

The zoom reduction centers on where you click on the active document.

IMPORTANT The best way to really see what the printed results of your artwork will look like is to view the image (even if it is too big for the screen) at 100%.

Did You Know?

You can zoom in or out using shortcut keys regardless of what tool you're currently using. To zoom in, press Ctrl+Spacebar (Win) or HSpacebar (Mac) and click or drag to define an area. To zoom out, press Ctrl+Spacebar+Alt (Win) or HSpacebar+Option (Mac) and click or drag to define an area.



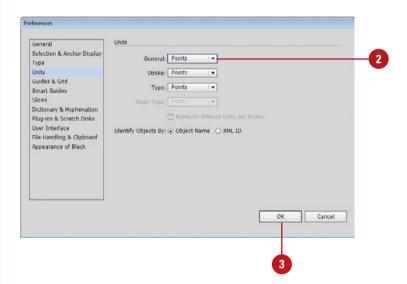
Viewing and Using Rulers

Change Ruler Options

- 1 Click the Edit (Win) or Illustrator (Mac) menu, point to Preferences, and then click Units.
- Click the General list arrow, and then select a measurement from the available options.
- Click **OK**.

IMPORTANT If the Rulers are not visible in the active document, click the View menu, point to Rulers, and then click Show Rulers.

Carpenters know that precise measurements are essential to making things fit, so they have a rule: Measure Twice, Cut Once. The designers of Illustrator also know that measurements are essential and give you several measuring systems—among them are the rulers. Rulers are located on the horizontal and vertical sides of the active document window, and serve several purposes. They let you measure the width and height of the active image, they let you place guides on the screen to control placement of other image elements, and they create markers that follow your cursor as you move. Illustrator displays rulers for documents (known as global) and artboards at the top and left side of the document window; you can only show and use one at a time. If you want to show a ruler around an individual artboard, you can display the video ruler. The point where 0 (zero) appears on each ruler is called the ruler origin. The origin appears in the upper-left corner where the rulers intersect. For artboards, the origin is oriented from the upper leftcorner and changes based on the active artboard. The coordinates of a ruler are also saved with the document. The default measurement for a ruler is in points, which you can change in Preferences.



Work with Rulers

 Show or Hide Rulers. Click the View menu, point to Rulers, and then click Show Rulers or Hide Rulers.

TIMESAVER Press Ctrl+R (Win) or & +R (Mac).

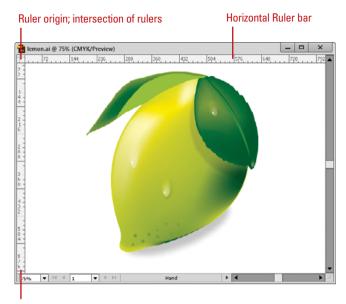
 Change to Artboard Rulers or Global Rulers. Click the View menu, point to Rulers, and then click Change to Artboard Rulers or Change to Global Rulers.

TIMESAVER Press Alt+Ctrl+R (Win) or Option+ & + + R (Mac).

- Show or Hide Video Rulers. Click the View menu, point to Rulers, and then click Show Video Rulers or Hide Video Rulers.
- Change Measurement Units.
 Right-click (Win) or Option-click
 (Mac) a ruler, and then select a unit of measure.
- Change Ruler Origin. Point to the upper-left corner where the rulers intersect, and then drag the pointer to where you want the new ruler origin.
- Reset Ruler Origin. Double-click the upper-left corner where the rulers intersect.

Did You Know?

You can switch guides on the fly. If you're dragging a vertical or horizontal guide onto the document window, when in fact you wanted the opposite guide, press the Alt (Win) or Option (Mac) key, while still dragging the guide. Vertical guides become horizontal, and horizontal guides become vertical.



Vertical Ruler bar

Using the Guides

Change Guides Preferences

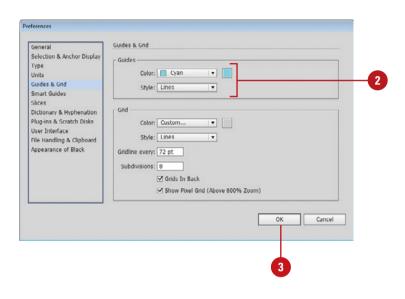
- 1 Click the Edit (Win) or Illustrator (Mac) menu, point to Preferences, and then click Guides & Grid.
- 2 Select from the following options:
 - Color. Specify a grid color. Click the Color box to specify a custom color.
 - Style. Specify a grid style, either Lines or Dots.
- 3 Click OK.

Work with Guides

- Show or Hide Guides. Click the View menu, point to Guides, and then click Show Guides or Hide Guides.
- Lock Guides. Click the View menu, point to Guides, and then click
 Lock Guides.
- Snap an Object to Guides. Click the View menu, and then click Snap To Point.

When you drag an object near a guide or anchor point, the object snaps to it.

A guide is a vertical or horizontal line that helps you align text and graphic objects. With the Snap to Guide command, you can align an object to a guide. When the object's edge comes within 2 pixels of a gridline, it snaps to the guide point. You can use Guides & Grid preferences to set guides settings, such as color and style. To create and use guides, the rulers must first be visible.





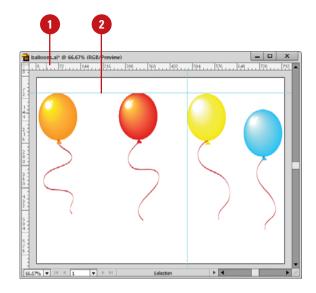
Create and Move Guides

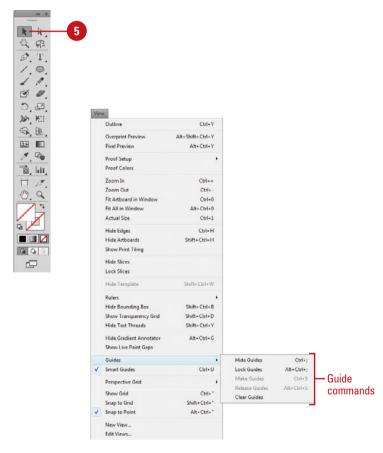
- 1 Click the View menu, point to Rulers, and then click Show Rulers to display the ruler bars within the document window.
- Move to the vertical or horizontal Ruler bar, and then click and drag into the document.
- 3 Return to the Ruler bar and continue to drag until you have all your guides properly set.
- Click the View menu, point to Guides, and then click Lock Guides to lock the existing guides in place, or click Clear Guides to remove all guides.
- 5 Click the **Selection** tool on the Tools panel to drag existing guides to a new position (make sure Lock Guides is not selected).

Did You Know?

You can convert a vector object to a guide. Select the object, click the View menu, point to Guides, and then click Make Guides. To convert it back, click the View menu, point to Guides, and then click Release Guides.

You can remove one guide at a time.
Make sure Lock Guides is clear, select
the guide, and then press Backspace
(Win) or Delete (Mac), or choose
Edit/Cut or Edit/Clear.





Using Smart Guides

shapes, slices, and selections as you draw. They appear automatically as you draw a shape or create a selection or slice, and then disappear after the shape is drawn. They enable you to visually align one object to another with a minimum of effort. Smart Guides also display alignment and measurement information, such as distances between objects and angles of rotation, to make alignment even easier. Smart Guides are automatically turned on by default. You can use Smart Guide preferences to set color and information display options to customize your Smart Guides.

Illustrator gives you the ability to use Smart Guides to help align

Use Smart Guides

- 1 Open or create a multi-layered document.
- To turn Smart Guides on and off, click the View menu, and then click Smart Guides.

TIMESAVER Press +U
(Mac) or Ctrl+U to show or hide
Smart Guides.

- 3 Select the Selection or Direct Selection tool, and drag the object.
 - Press Ctrl (Win) or Command (Mac) to use the center point or edge of one object or artboard.

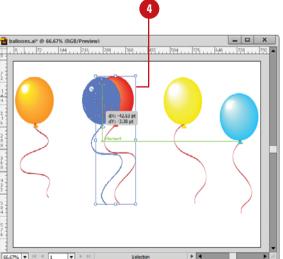
As you move the object, Smart Guides appear to help you align the objects.

4 Release the mouse and the guides disappear.

Did You Know?

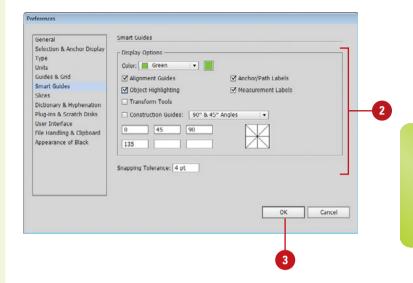
You can snap symbol instances to smart guides. In normal mode, you can snap the contents of a symbols instance to smart guides (not to the bounding box like previous versions). Symbols instances now behave like groups for snapping.





Change Smart Guide Preferences

- 1 Click the Edit (Win) or Illustrator (Mac) menu, point to Preferences, and then click Smart Guides.
- 2 Select from the following options:
 - Color. Specify a guide color.
 - Alignment Guides. Select to display guides along the center and edges of objects, artboard, and bleeds.
 - Anchor/Path Labels. Select to display path intersection and anchor point information.
 - Object Highlighting. Select to highlight objects below the pointer as you drag.
 - Measurement Labels. Select to display tool or object location information.
 - Transform Tools. Select to display information when you scale, rotate, and shear objects.
 - Construction Guides. Select to display guides as you draw new objects. Specify guide angles for anchor points.
 - Snapping Tolerance. Specify how close the object must be (measured in number of points) before it snaps to the guide.
- 3 Click OK.



Using the Grid

Change Grid Preferences

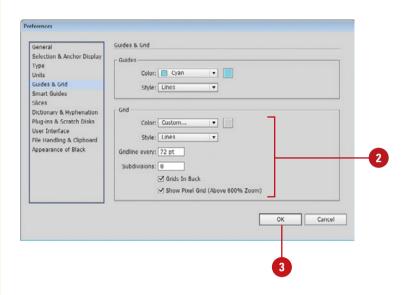
- 1 Click the Edit (Win) or Illustrator (Mac) menu, point to Preferences, and then click Guides & Grid.
- 2 Select from the following options:
 - Color. Specify a grid color.
 - Style. Specify a grid style, either Lines or Dots.
 - Gridline Every. Specify a measurement for the interval of gridlines (default 72 points).
 - Subdivisions. Specify the number of grid subdivisions.
 - Grids In Back. Select to display grids in back of your artwork.
 - Show Pixel Grid (Above 600% Zoom). Select to display pixel grids above 600% view.
- 3 Click OK.

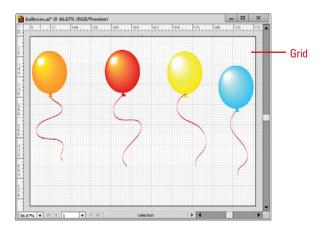
Work with the Grid

- Show or Hide Grid. Click the View menu, and then click Show Grid or Hide Grid.
- Snap Object to Gridline. Click the View menu, and then click Snap To Grid.
 - If the current view is set to Pixel Preview, the Snap To Grid command changes to Snap To Pixel.

When you drag an object near a gridline, it snaps to the gridline.

A grid is a checkerboard display that you can use to help you align text and graphic objects. The grid appears behind your artwork, so it doesn't get in the way. With the Snap to Grid command, you can align an object to a grid line. When the object's edge comes within 2 pixels of a gridline, it snaps to the gridline point. You can use Guides & Grid preferences to set grid settings, such as color, style, and spacing.





Moving Around with the Hand Tool

Move an Element Around in the Document Window

- Select the **Hand** tool on the Tools panel.
- 2 Drag in the active document to move the image.

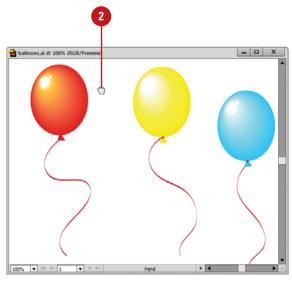
Did You Know?

You can quickly access the Hand tool whenever you need it. Hold down the Spacebar to temporarily change to the Hand tool. Drag in the active document to the desired position, and then release the Spacebar. You're instantly returned to the last-used tool. It's important to note that you cannot use the Spacebar to access the Hand tool if you are currently using the Type tool.

You can move more quickly between tools using Spring-loaded keys. Rather than go back to the Tools panel when you want to switch tools, just hold down the shortcut letter key for the new tool, use the tool, and then let go of the shortcut key and you'll be back using the first tool.

One of those little used, but handy, tools is Illustrator's Hand tool. The Hand tool (so named because it resembles an open hand) lets you quickly move the active image within the document window without ever using the scroll bars. For example, you've zoomed the image beyond the size that fits within the document window and you need to change the visible portion of the document. It's a simple operation, but a handy one to know.





Using Crop Marks

Create and Delete Crop Marks as Live Effects Around an Object

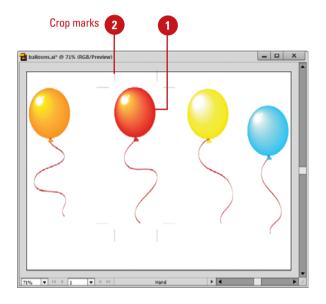
- Select one or more objects.
- 2 Click the Effect menu, and then click Crop Marks.
- 3 To delete crop marks, select **Crop Marks** in the Appearance Panel,
 and then click the **Delete Selected Item** button.

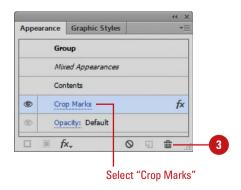
Did You Know?

You can change the registration color.

The registration color is used for crop marks and other marks used by commercial printers to align printing plates. If you need to change the registration color so it stands out from the colors used in your document, you can click the Registration swatch in the Swatches panel, and then move the Tint slider on the Color panel.

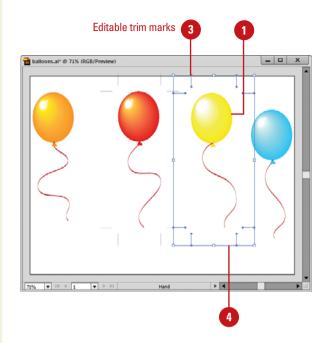
Crop marks (also known as trim marks) indicate where you want a printer to cut the printed page. They are printed with black registration lines so when separations are printed, the printer can align the pages. You can create and display multiple crop marks, which are also useful for trimming or aligning objects on an artboard or exporting them to another program. You can create crop marks as noneditable live effects or editable ones you can adjust and format. If you no longer need or want crop marks, you can delete them. You can delete live effect crop marks by selecting Crop Marks in the Appearance panel and using the Delete Selected Item button at the bottom of the panel. You can also delete editable crop marks by using the crop marks with the Selection tool and pressing the Delete key. Crop marks do not replace trim marks created with the Marks & Bleed options in the Print dialog box.





Create and Delete Editable Trim Marks Around an Object

- Select one or more objects.
- 2 Click the **Object** menu, and then click **Create Trim Marks**.
- 3 To adjust trim marks, select the trim marks with the **Selection** tool on the Tools panel, and then drag an anchor point or segment.
- To delete trim marks, select the trim marks with the **Selection** tool on the Tools panel, and then press Delete.
- 5 To change the color of trim marks, select the trim marks with the **Selection** tool on the Tools panel, and then change the stroke color using the Control, Color, or Tools panel.



Working with the Info Panel

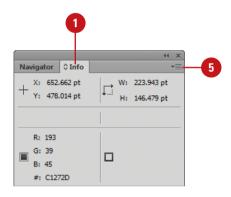
Create a Specific Size Object

- 1 Select the Info panel.
- Select a drawing tool on the Tools panel.
- 3 Drag in the document window to create a shape.
- 4 Release the mouse when the Info panel displays the correct dimensions.
- To display color fill and stroke information and the name of any pattern gradient or tint for a selected object, click the **Options** menu, and then click **Show Options**.

Did You Know?

You can measure the distance between objects. Select the Measure tool in the Tools panel, and then click two points, or click the first point and drag to the second point. Use Shiftdrag to constrain the tool to multiples of 45 degrees. The Info panel displays the distances from the x and y axes, the absolute horizontal and vertical distances, the total distances, and the angle measured.

Illustrator's Info panel gives you a wealth of data on the current document. The Info panel displays information on the x and y (horizontal/vertical) position of your mouse cursor within the active document window. In addition, when you're using one of Illustrator's drawing, measuring, or transformation tools, the Info panel gives you up-to-date information on the size of the object you're creating. When an object is selected, the Info panel display the x and y position, width (w) and height (h). If you select multiple objects, only information that is the same for all selected objects appears in the Info panel. When you're using the Zoom tool, the Info panel displays the magnification factor and the x and y position. The Info panel also displays color information when you choose to show options.



Using Undo and Redo

Undo or Redo One Action at a Time

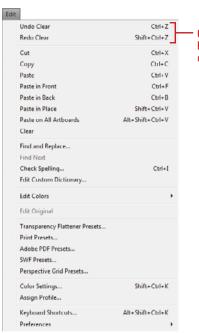
 Click the Edit menu, and then click Undo to reverse your most recent action, such as typing a word or formatting a paragraph.

TIMESAVER Press Ctrl+Z (Win) or #+Z (Mac) to undo.

 Click the Edit menu, and then click Redo to restore the last action you reversed.

> TIMESAVER Press Shift+Ctrl+Z (Win) or Shift+ + Z (Mac) to redo your undo.

Probably one of the greatest inventions of the computer industry is the ability to Undo, and Redo. Now, if we could just figure out how to give real life an undo feature... that would be something. Illustrator gives us the ability to undo our past mistakes, and redo something we wished we had not undone.



Click to Undo or Redo the previous command or action.

Creating and Selecting Workspaces

As you work with Illustrator, you'll open, close, and move around windows and panels to meet your individual needs. After you customize the Illustrator workspace, you can save the location of windows and panels as a workspace, which you can display by using the Workspace menu on the Application bar or the Workspaces submenu on the Window menu. You can create custom workspaces, or use one of the workspaces provided by Illustrator, which are designed for space and workflow efficiency. The built-in workspaces include Essentials, Automation, Layout (New!), Painting, Printing and Proofing, Tracing (New!), Typography, and Web. If you no longer use a custom workspace, you can remove it at any time. You can also rename a custom workspace to improve recognition.

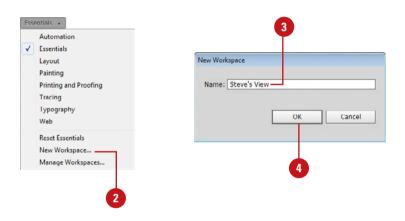
Create a Workspace

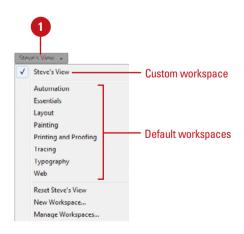
- 1 Open and position the panels you want to include in a panel set.
- Click the Workspace menu on the Application bar (the menu name displays the current workspace), and then click New Workspace.
 - You can also click the Window menu, point to Workspace, and then click New Workspace.
- 3 Type a name in the Name box.
- Click OK.

The panel set and its location is now saved.

Display a Workspace

- Click the Workspace menu on the Application bar (the menu name displays the current workspace), and then select a panel option:
 - Custom panel name. Displays a custom panel layout that you created.
 - Automation, Essentials, Layout (New!), Painting, Printing and Proofing, Tracing (New!), Typography, or Web. Displays panel layouts created by Adobe for specific uses in Illustrator.





Delete a Workspace

1 Click the Window menu, point to Workspace, and then click Manage Workspaces.

The Manage Workspaces dialog box opens.

- Select the workspace you want to delete.
- 3 Click the **Delete** button.
- 4 Click OK.

The workspace is now deleted.

Did You Know?

You can hide a panel. Click the Window menu, and then click a panel to remove the check mark.

Rename a Workspace

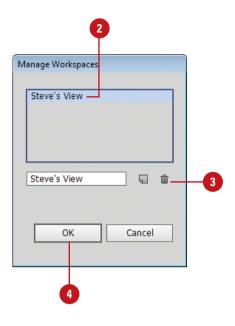
1 Click the Window menu, point to Workspace, and then click Manage Workspaces.

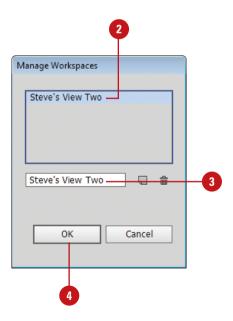
The Manage Workspaces dialog box opens.

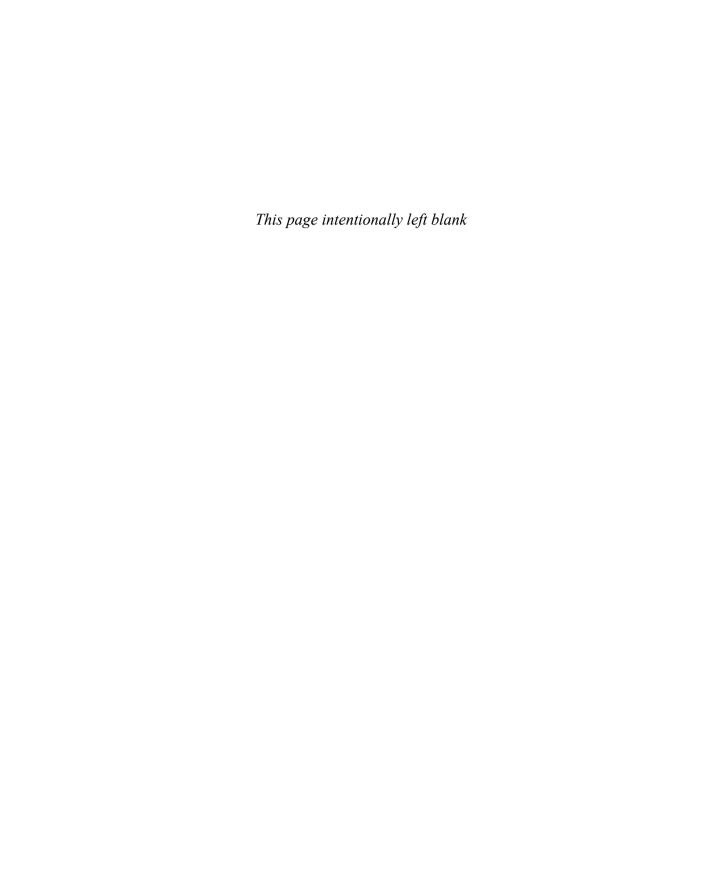
- Select the workspace you want to rename.
- 3 Type a new name.

The workspace is now renamed.

4 Click **OK**.







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

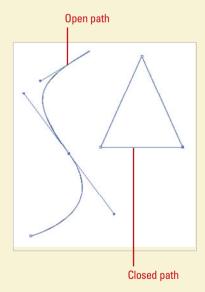
When you draw an object, you create one or more lines called a path. A path is made up of one or more curved or straight lines, known as segments. The start and end points for a segment is called an **anchor point**. An anchor point is a bending point to modify the line segment. A path can be open or 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

Select a Drawing Mode

- 1 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.

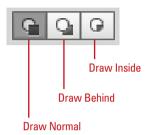
TIMESAVER Press Shift+D to cycle through the Drawing Mode tools.

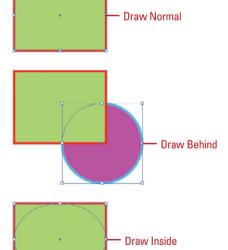
Did You Know?

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.

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





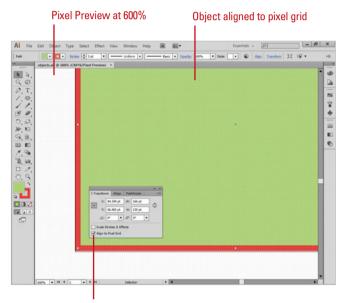


Creating Pixel Aligned Objects

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.*

- 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.

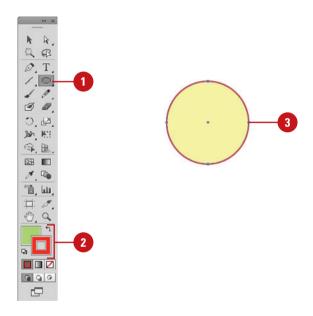
To create an oval or circle with a specific width and height, click on the artboard where you want the top left corner, enter width and height values, and then click **OK**.

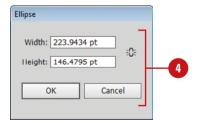
Did You Know?

You can enter values ranging from 0 to 16,383 points (New!) 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.

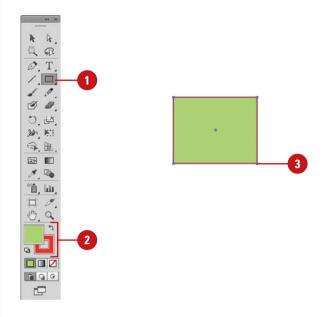
To create a square, rectangle, or rounded rectangle with a specific width and height, click on the artboard where you want the top left corner, enter width and height values, and then click **0K**.

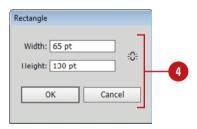
Did You Know?

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.

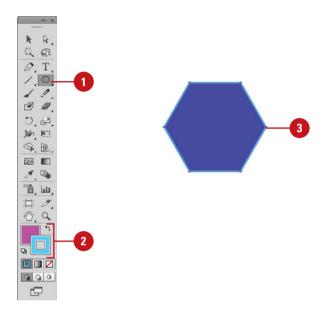
The pointer becomes a crosshair that you can drag anywhere on the arthoard

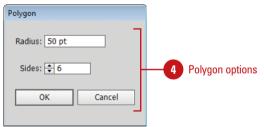
- Select a Stroke and Fill color from the Colors area of the Tools panel.
- 3 Click and drag on the artboard, and then release the mouse.

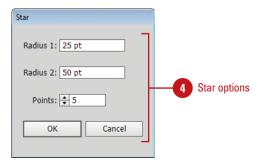
TIMESAVER Press and hold Shift while you drag to create a proportional shape.

- 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.

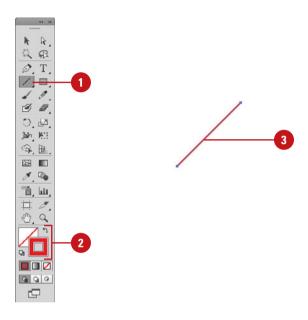
TIMESAVER Press \ to select the Line tool.

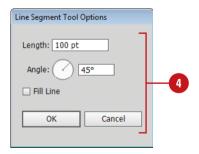
- Select a Stroke color from the Colors area of the Tools panel.
- 3 Click and drag on the artboard, and then release the mouse when the line is the length you need.

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

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

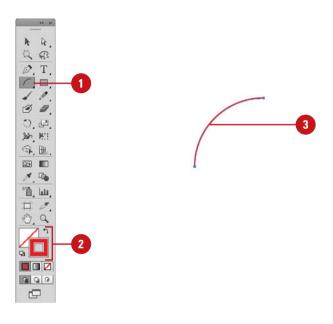
Draw an Arc

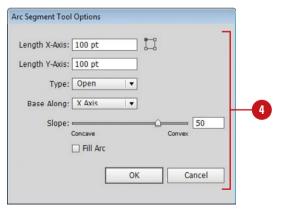
Click the **Arc** tool on the Tools panel.

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 arc is the length you need.
- 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.



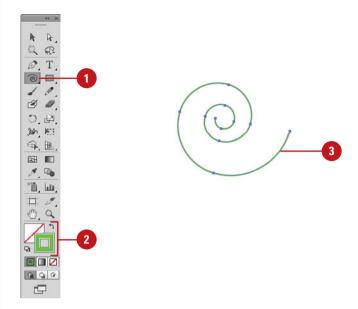


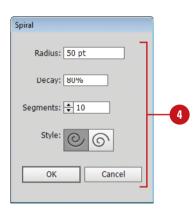
Draw a Spiral

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

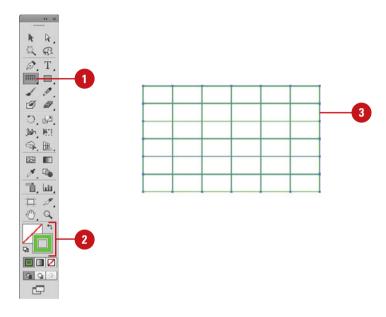
Draw Rectangle Grids

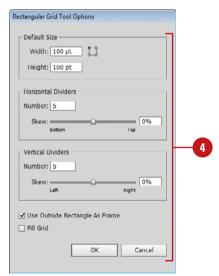
1 Click the **Rectangle Grid** tool on the Tools panel.

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.



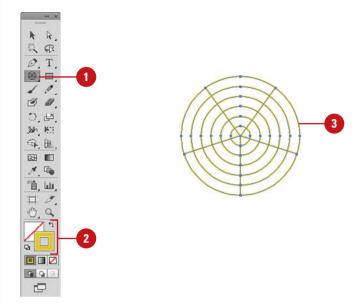


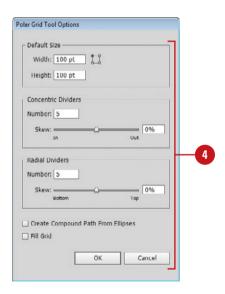
Draw Circular Polar Grids

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

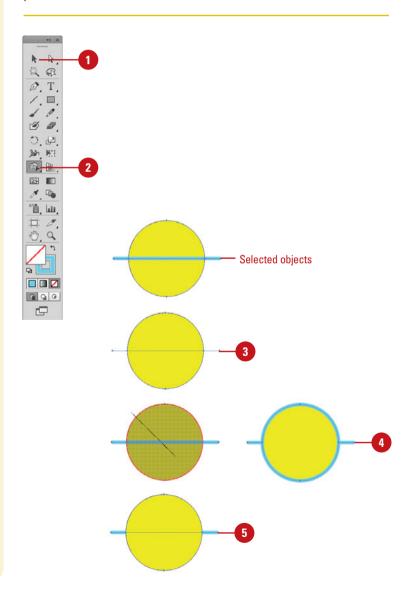
Create an Object with the Shape Builder Tool

- 1 Click the **Selection** tool on the Tools panel, and then select only the paths you want to merge to create a shape.
- 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.



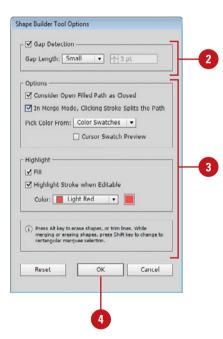
Set Shape Builder Tool Options

- 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.





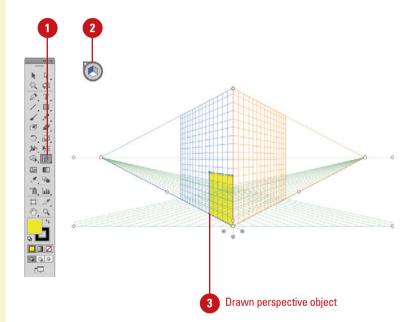
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Creating Perspective Objects

Draw Perspective Objects

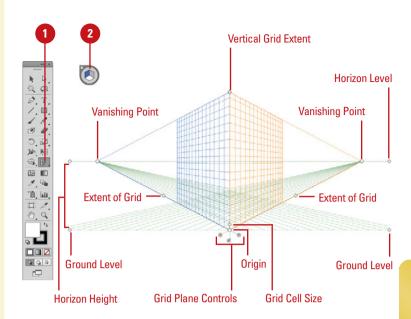
- 1 Click the **Perspective Grid** tool on the Tools panel.
 - If the grid doesn't appear, click the View menu, point to Perspective Grid, and then click Show Grid.
- To select a perspective grid preset, click the View menu, point to Perspective Grid, point to a Point Perspective (One, Two, or Three), 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.

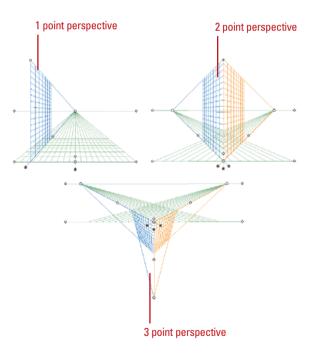
The Perspective Grid tool allows you to display a perspective grid that you can use to draw shapes and create scenes with 1, 2, or 3-point perspective. For example, you can create a row of trees down a street to create perspective. The perspective grid provides presets with a 1, 2, or 3-point perspective 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
- 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.
- 3 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

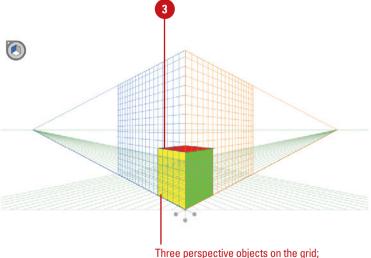
Modify Perspective Objects

- 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 marguee, just like normal objects.





they were moved, copied and resized.

Customizing a Perspective Grid

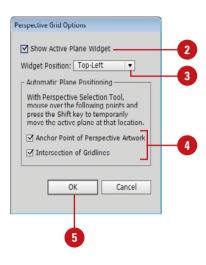
Set Perspective Grid Options

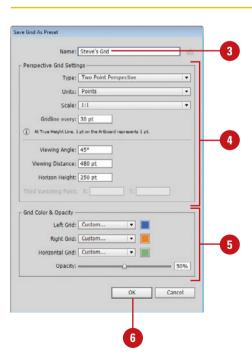
- 1 Double-click the **Perspective Grid** tool on the Tools panel.
- 2 Select the Show Active Plane Widget check box to display it.
- 3 Click the **Widget Position** list arrow, and then select a position.
- 4 Select the Anchor Point Of Perspective Artwork or the Intersection Of Gridlines check boxes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





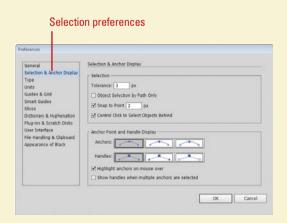
Understanding Selections

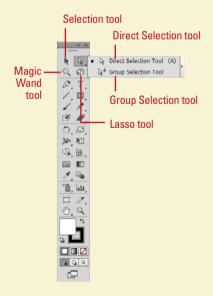
When you create vector graphics in Illustrator, they are comprised of distinct segments that can be selected separately or as a whole with a variety of selection tools. The type of editing you need to perform determines which tool you use. For example, a simple rectangle is comprised of four line segments 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 // 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

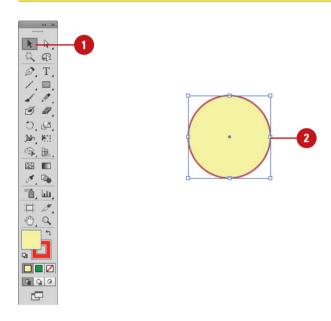
Click the **Selection** tool on the Tools panel.

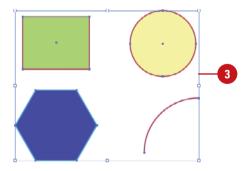
The pointer becomes an arrow.

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

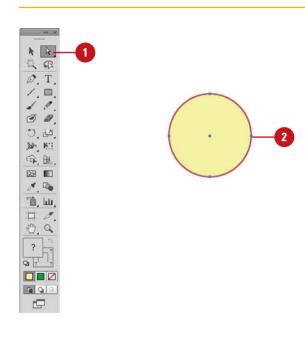
1 Click the **Direct Selection** tool on the Tools panel.

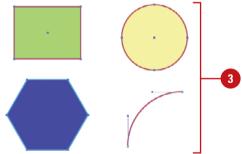
The pointer becomes an arrow.

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

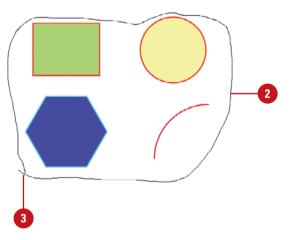
- 1 Click the **Lasso** tool on the Tools panel.
- 2 Draw around the shapes you want to select.
- 3 To complete the selection, return to the point where you started.

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

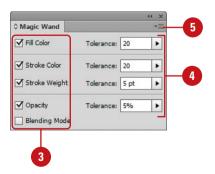
Select Options for the Magic Wand Tool

- 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.
- 2 Click the **Options** menu, 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** menu, 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** menu, 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

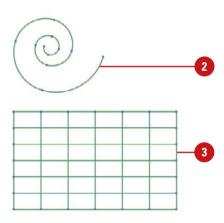
- 1 Select the **Magic Wand** tool on the Tools panel.
- Click an object area to make a selection.

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.



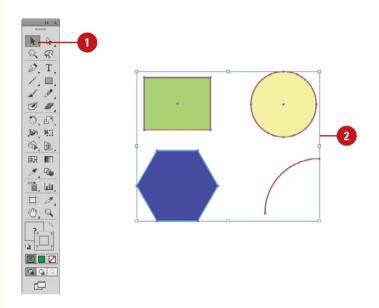


Selecting and Grouping Objects

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.

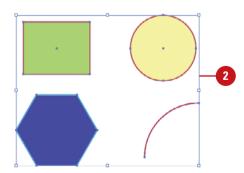
Selecting and grouping objects makes it easier to work with multiple objects as if they were a single object. You can easily select, isolate, cut, copy, paste, move, recolor, and transform a grouped object. You can group all types of objects, yet still edit individual objects within the group as needed 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.





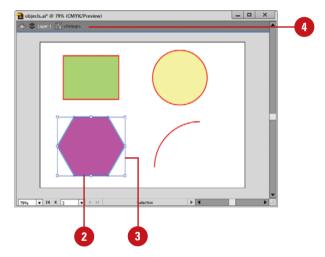
Use Isolation Mode to Work with Groups

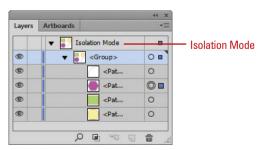
- 1 Select the **Selection** tool on the Tools panel.
- 2 Double-click a grouped object.
 - You need to click the Isolate Selected Object button on the Control panel or select the Double-click to Isolate check box in General preferences.

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.





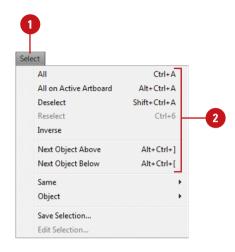


Selecting Similar Objects

Use the Select Menu to Select Objects

- 1 Click the **Select** menu.
- 2 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).

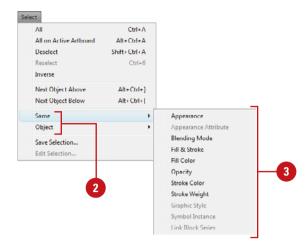


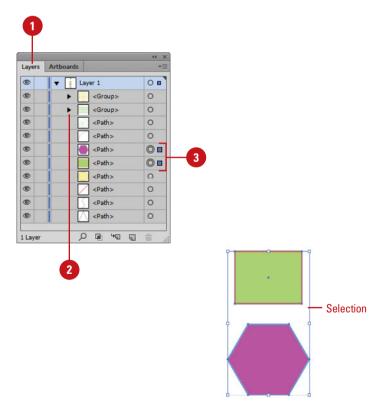
Select Similar Objects or Object Attributes

- 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.



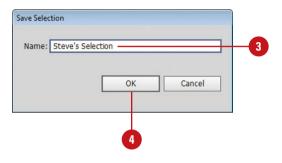


Saving and Editing Selections

Save and Use a Selection

- 1 Make the selection that you want to save.
- 2 Click the Select menu, and then click Save Selection.
- 3 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.

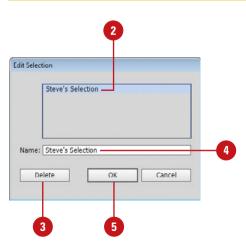
If you frequently select the same elements in a document, you can save yourself some time by saving the selection with a name of your choice. After you save a selection, the saved selection name appears as a menu command at the bottom of the Select menu. When you need to make the same selection, simply 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**.
- 2 Select the saved selection that you want to rename or delete.
- 3 To delete a saved selection, click **Delete**.
- 4 To rename a saved selection, change the name in the Name box.
- Click **OK**.



Moving Objects

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.

Move an Object

- 1 Select the **Selection** tool on the Tools panel.
- 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.

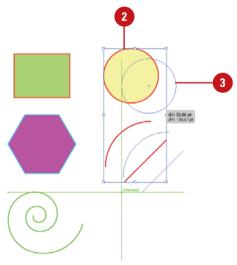
Did You Know?

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.





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 Arthoards
 - ★ Keyboard. Select the object, press Control (Win) or अ (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.

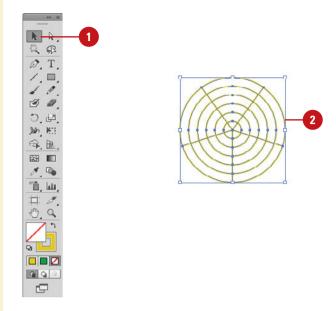
Duplicating objects can be a powerful way of creating geometrical artwork. You can duplicate one or more selected objects by dragging them, using Arrow keys, copying to and pasting from the Clipboard, or using the Offset Path command. When you copy objects to the Clipboard, you can paste them on an artboard 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.

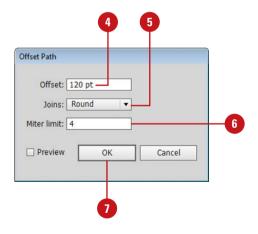


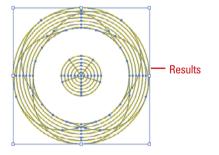


Duplicate Objects Using an Offset

- 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).
- 6 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**.





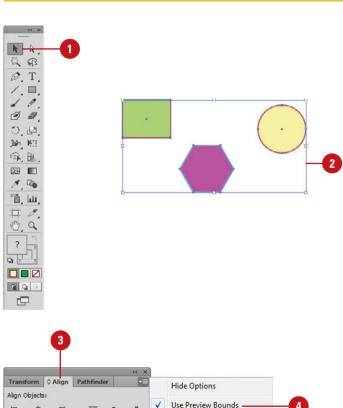


Aligning and Distributing Objects

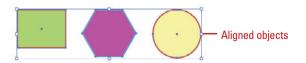
Align or Distribute Objects

- 1 Select the **Selection** tool on the Tools panel.
- 2 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** menu, 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).
- 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

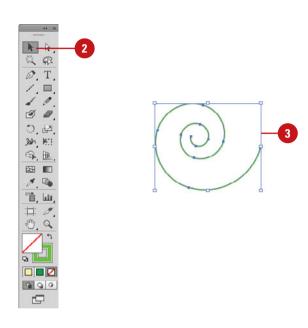
Transform an Object with the Bounding Box

- 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.

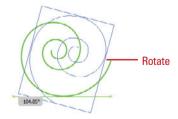
To rotate an object 180 degrees, drag a corner handle diagonally all the way across the object.

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

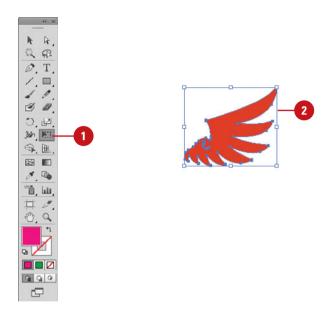
Transform an Object with the Free Transform Tool

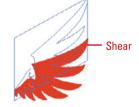
- 1 Select the **Free Transform** tool on the Tools panel.
- Select one or more objects to transform.
- 3 Use any of the following methods:
 - Scale. Drag a corner handle to scale along two axes; drag a side handle to scale along one axis; Shift-drag to scale proportionally; hold down Alt (Win) or Option (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 in 45 degree increments, Shift-drag.

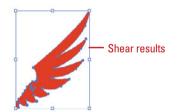
To rotate an object 180 degrees, drag a corner handle diagonally all the way across the object.

◆ 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).

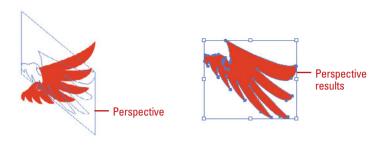
The Free Transform tool allows you to rotate, scale (resize), reflect (mirror image), or shear (slant) an object. In addition, you can apply perspective and distortion to an object. However, you cannot copy an object or move the reference point. As you drag to transform an object, you can use keyboard keys to alter the results of a transformation. To help you align the results the way you want, you can use Smart Guides to make it easier.

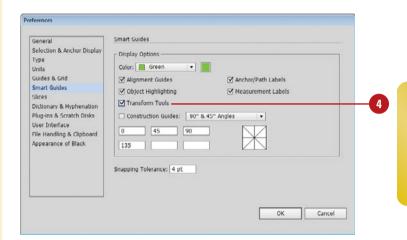


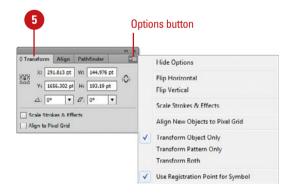




- ◆ Perspective. Drag a side handle and then hold down Ctrl+Alt+Shift (Win) or ⊕ + Option+Shift (Mac) as you continue to drag.
- ◆ Distort. Drag a corner handle and then hold down Ctrl (Win) or ③ (Mac) as you continue to drag.
- 4 To use Smart Guides as you transform an object:
 - Select the Transform Tools check box in Smart Guides preferences.
 - Click the View menu, and then click Smart Guides to display them.
 - As you drag to transform an object, smart guides appear in your document, which you can use to align the transformed object.
- 5 To transform an object using exact values or percentages, select the **Transform** panel.
 - 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 (New!).
 - Click the **Options** button to select additional options.





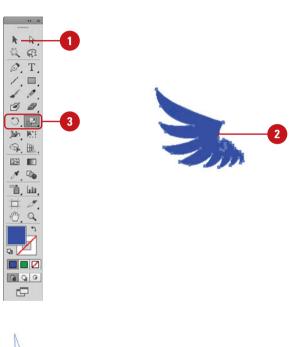


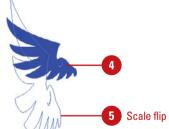
Rotating and Scaling Objects

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.
- 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.
- 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.



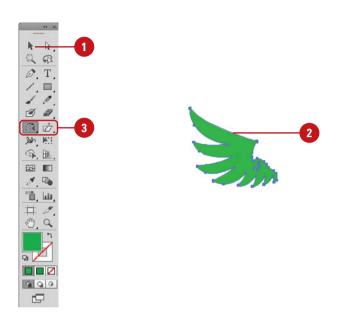


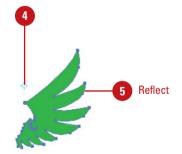
Reflecting and Shearing Objects

Reflect or Shear an Object

- 1 Select the **Selection** tool on the Tools panel.
- 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.



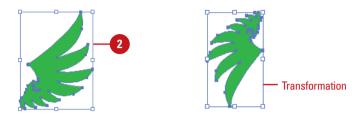


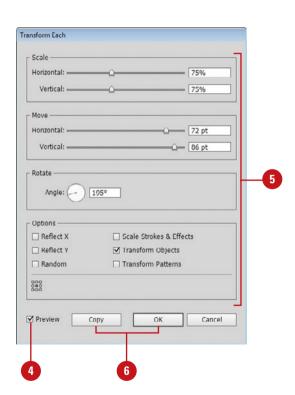
Applying Multiple Transformations

Use the Transform Each Command

- 1 Select the **Selection** tool on the Tools panel.
- Select one or more objects to transform.
- 3 Click the **Object** menu, point to **Transform**, and then click **Transform Each**.
- 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 (New!).
 - Transform Objects. Select to transform only objects (New!).
 - Transform Patterns. Select to transform only the object's fill pattern (New!).
 - Reference Point. Click a square to change the reference point.
- 6 Click **OK** or **Copy** (creates a copy and applies the transformation).

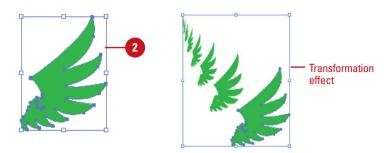
The Transform Each command allows you to transform—such as rotate, reflect, scale, and shear—multiple objects relative to their reference points instead of a single reference point. You can scale or move objects, rotate objects by a specific angle, and create a mirror reflection of the objects. If you 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.

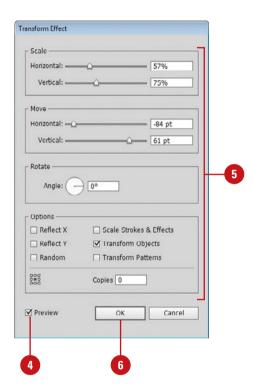




Use the Transform Effect

- 1 Select the **Selection** tool on the Tools panel.
- 2 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.
- 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 (New!).
 - Transform Objects. Select to transform only objects (New!).
 - Transform Patterns. Select to transform only the object's fill pattern (New!).
 - 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

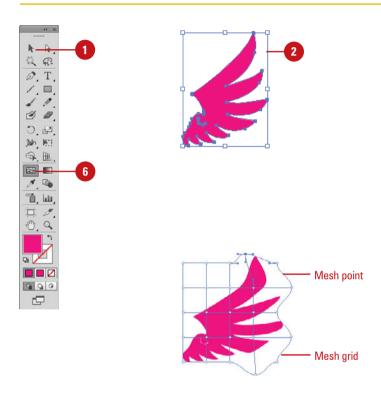
The Transform Again command allows you to quickly repeat the last transformation with the last-used values on a selected object. To use the command, transform and select an object or group, click the Object menu, point to Transform, and then click Transform Again or press Ctrl+D (Win) or 8 +D (Mac).

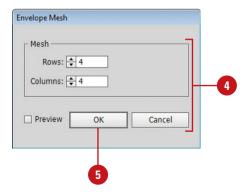
Reshaping Objects with Envelopes

Distort Objects with an Envelope

- 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**.
- 6 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.

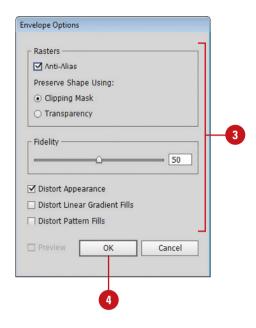
Envelopes are objects you can use to reshape other objects, except graphs, guides, or linked objects. You can use one of the built-in envelopes or create your own out of an existing object. The built-in envelopes use warp shapes or a mesh grid as the object. After you apply an envelope, you can edit 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.

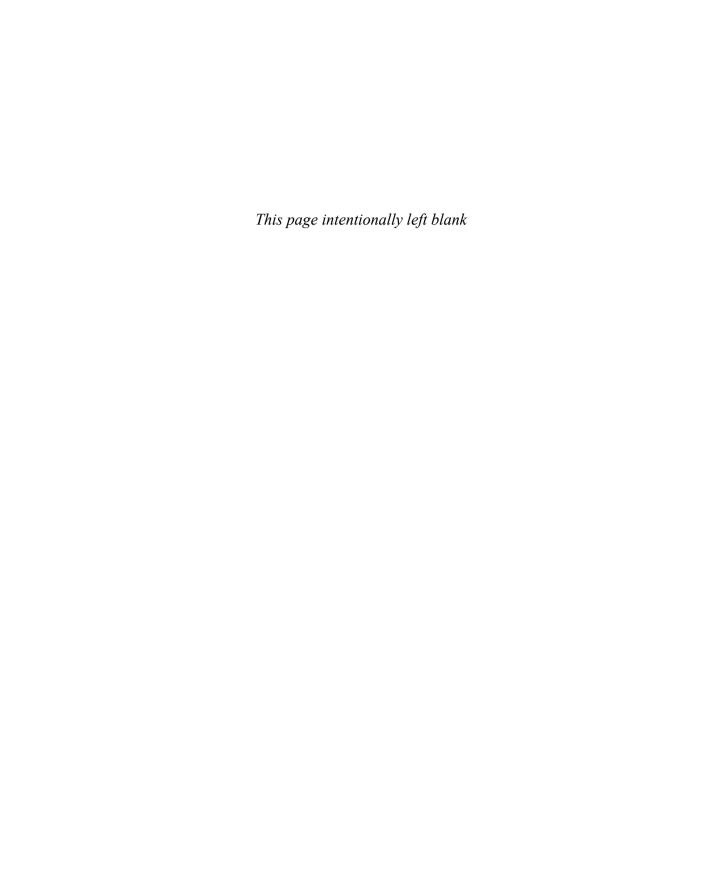




Set Envelope Options

- 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.
- Click OK.





Working with Color

Introduction

When you create or open a document, Illustrator creates or looks for a color profile, which specifies color usage in the document. Color modes define the colors represented in the active document. Although you can change the color mode of a document, it is best to select the correct color mode when you create a document. Illustrator's main color modes are RGB (Red, Green, and Blue) for onscreen and web projects and CMYK (Cyan, Magenta, Yellow, and Black) for commercial printing projects.

Illustrator provides several panels (Tools, Color, Swatches, Color Guide, and Kuler) for you to use to work with color and apply color to one or more objects. For example, the Color panel lets you create colors using different sliders and spectrum color selectors. Illustrator not only lets you select virtually any colors you desire, it also lets you store those colors for future use in the Swatches panel. Along with the panels, Illustrator also provides the Live Color dialog box, which you can use to change multiple colors in your artwork at the same time by editing and applying color groups. This makes it easy to recolor your artwork.

As you start to use color in your document, it's important to view how your document will actually appear with your current color settings. With Illustrator, you can view a soft proof on your screen to quickly see a simulation of how your colors will appear based on your output device.

What You'll Do

Change Color Settings

Change Color Profiles

Work with Color Modes

Change Color Modes

Apply Colors

Work with the Color Panel

Work with the Swatches Panel

Create Groups in the Swatches Panel

Work with Swatch Libraries

Add Colors Using the Kuler Panel

Replace or Invert Colors

Use the Color Guide Panel

Apply Color with the Color Guide Panel

Edit Colors with Live Color

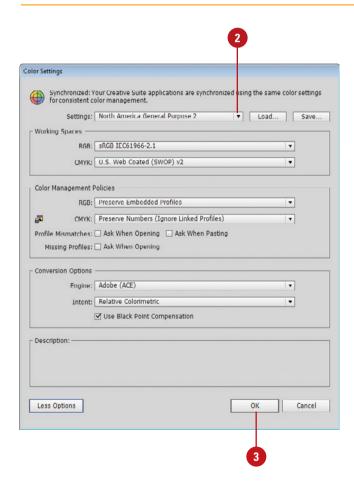
Proof Colors on the Screen

Changing Color Settings

Change Color Settings

- 1 Click the Edit menu, and then click Color Settings.
- Click the Settings list arrow, and then select from the following preset color settings:
 - Monitor Color. Useful for video and on-screen content. Sets the RGB working space to your current monitor space.
 - North America General Purpose 2. Useful for screen and print content in North America.
 - North America Newspaper.
 Useful for common newspaper press conditions in North America. CMYK values are preserved.
 - North America Prepress 2.
 Useful for common printing conditions in North America.
 The default RGB color space is set to Adobe RGB.
 - North America Web/Internet.
 Useful for non-print content on the Web in North America.
- Click **OK** to use the defined settings, or select your own custom settings on the next page.

Illustrator does its best to manage color for you. However, sometimes there are color conflicts or you have specific color requirements that you want to use. When you create or open a document, Illustrator creates or looks for a color profile, which specifies color usage in the document. The Color Settings dialog box allows you to specify color settings and select options to deal with conflicts. The two main color settings are Working Space and Color Management Policies. Working Space controls how RGB and CMYK colors are used in a document that doesn't have an embedded profile, while Color Management Policies controls how Illustrator works with color when opening files that don't have a color profile or one that doesn't match your current color settings from the RGB and CMYK menus. If you need to convert colors between color spaces, use Advanced mode.



- 4 To create your own custom settings, select from the following:
 - Working Spaces. Controls how RGB and CMYK colors are used in a document that doesn't have an embedded profile.

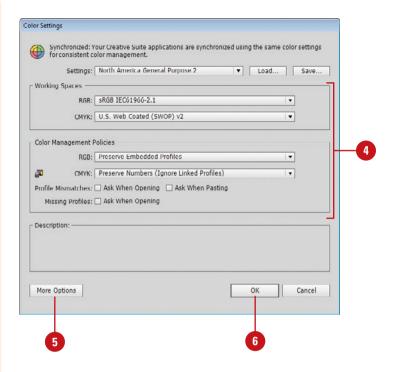
Select Monitor RGB for onscreen output; Adobe RGB for photo inkjet printers (converts RGB images to CMYK images); ProPhoto RGB for inkjet printers; and sRGB IEC61966-2.1 for web output.

Color Management Policies.
 Controls how Illustrator works with color when opening files that don't have a color profile or one that doesn't match your current color settings from the RGB and CMYK menus.

Select Off to prevent the use of color management, Preserve Numbers to preserve the document color profile for CMYK documents, Preserve Embedded Profiles to preserve links to color profiles, or Convert to Working Space to use the working space color (useful for the web).

Select the appropriate check boxes to choose if and when Illustrator will warn you of profile mismatches (no warning, when opening the file, or when pasting) or missing profiles (when opening a file or no warning).

- Click More Options to specify Conversion options that let you control how Photoshop handles the color changes as the profiles change from one color space to another. Click Less Options to collapse the dialog box.
- 6 Click **OK**.



For Your Information

Selecting Advanced Color Options

In the Color Settings dialog box, you can click the More Options button to set advanced color conversion options. You can set options for the color engine, rendering intent, and whether to use black point compensation. The color engine specifies the color management system you want to use. The rendering Intent defines how the selected color profile is converted from one color space into another. The Use Black Point Compensation check box maps the full color range of the source to the full color range of the destination profile.

Synchronizing Color Settings Using Bridge

If you're using Adobe Creative Suite, you can use Adobe Bridge to synchronize your color settings for all programs in the suite. When you synchronize your color settings, you can avoid color profile conflicts. In Adobe Bridge, click the Edit menu, and then click Creative Suite Color Settings, select one of the settings, and then click Apply.

Changing Color Profiles

Change or Remove Color Profiles

- 1 Click the Edit menu, and then click Assign Profile.
- Select one of the following options:
 - Don't Color Manage This
 Document. Select to remove a
 color profile from your
 document.
 - Working RGB/CMYK. Select when your document doesn't have an assigned profile or its profile is different from the current working space.
 - Profile. Select to assign a different profile to your document.
- 3 Click **OK**.

When you create or open a document, Illustrator creates or looks for a color profile, which specifies color usage in the document. If a document's profile doesn't match the current working color space or is missing an assigned color profile, you can use the Assign Profile dialog box to change or remove a profile to avoid conflicts. When you change a color profile, color in your document may shift to match the new color profile.



Working with Color Modes

Color modes define the colors represented in the active document. Although you can change the color mode of a document, it is best to select the correct color mode at the start of the project. Illustrator's main color modes are RGB (Red, Green, and Blue) and CMYK (Cyan, Magenta, Yellow, and Black).

Color modes determine the number of colors and the file size of an image. For example, an RGB image has at least three colors (like a printing plate), one for red, green, and blue color information. Color modes not only define the working color space of the active document, they also represent the color space of the output document. It's the document output (print, press, or monitor) that ultimately determines the document color mode. Color modes do not just determine what colors the eye sees; they represent how the colors are mixed, and that's very important because different output devices use different color mixes.

Therefore, when selecting a color mode, know the file format of the document and where it will be used. An image taken with a digital camera and then opened in Illustrator would most likely be in the RGB color mode. An image displayed on a monitor would be RGB, or possibly Indexed Color. A photograph scanned on a high-end drum scanner would most likely be in the CMYK color mode. An image being sent to a 4-color press would be CMYK, too. If you were creating a Illustrator document from scratch, the color mode you choose should represent the eventual output destination of the document, such as on a web page, to an inkjet printer, or a 4-color press.

Switching Between Color Modes

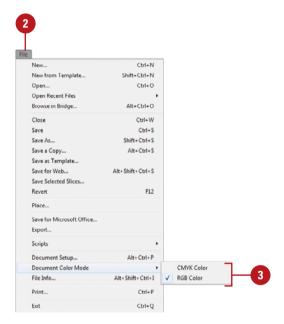
Unfortunately, images do not always arrive in the correct format. For example, you take several photographs with your digital (RGB) camera, but the images are being printed on a 4-color (CMYK) press, or you want to colorize a grayscale image. Changing color modes is a snap, but changing the color mode of an image isn't the problem. The problem is what happens to the digital color information when you change color modes. For example, if you open an RGB image with the intent of sending it out to a 4-color press (CMYK). the smartest course of action is to remain in the RGB color mode through the processing of the image, and then convert the image into the CMYK mode at the end. The reason has to do with how Illustrator moves between those two color spaces. For example, if you move a color-corrected CMYK image into the RGB color mode, and then back to CMYK, the colors shift because Illustrator rounds color values during the change process. On top of that, a CMYK image is 25% larger than an RGB image, and the RGB color mode represents the color space of your monitor, not a printing press. It is impossible to view subtractive CMYK color on an RGB device. If, however, the image originally came to you as a color-corrected CMYK image, then stay in and work inside that color mode.

Changing Color Modes

Change Color Modes

- 1 Click the File menu, and then click Save As to make a copy of the document.
- 2 Click the File menu, and then point to Document Color Mode.
- 3 Click CMYK Color or RGB Color.
 - If you don't like the change, you can use the Undo command on the Edit menu to reverse the color conversion.

When you create a new document, you need to select a color mode, either RGB or CMYK, depending on the type of document that you want to produce. For web and other onscreen projects, RGB is the best choice. For commercial printing, CMYK is the best choice. If you want to create documents for both types of projects, you can save a copy of the document and then change the color mode. When you change the color mode, colors will convert to the mode in the document. You will see a shift in color.

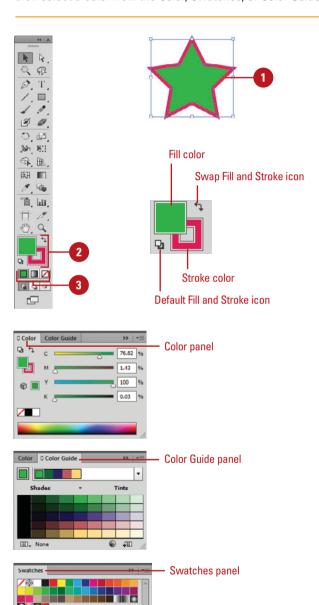


Applying Colors

Apply Colors to an Object, Fill or Stroke

- 1 Select an object, fill, or stroke using the appropriate selection tool.
- Click the Fill or Stroke color box on the Tools panel to choose the color's destination.
- 3 Click the **Color** button on the Tools panel to apply a color or click **None** to apply no color.
- 4 Use any of the following to change the active fill or stroke colors:
 - Select the Swatches panel, and then click a color swatch to change the color.
 - Select the Color panel, and then specify a color using the controls.
 - Select the Color Guide panel, and then click a color swatch to change the color.
 - Double-click the Fill or Stroke color box to open the Color Picker dialog box, select a color or enter color values, and then click OK.
 - To set default colors of black and white, click the Default Fill and Stroke icon on the Tools and Color (New!) panels.
 - To set switch the current fill and stroke color, click the Swap Fill and Stroke icon on the Tools and Color (New!) panels.

The Tools panel provides color boxes to make it easy for you to apply fill and stroke colors. The color box in the foreground is the Fill box and the outlined box in the background is the Stroke box. When you select an object, fill, or stroke, the color boxes (also known as thumbnails), on the Tools panel display the current colors. To change the fill or stroke color, select an object, fill or stroke, select the Fill or Stroke box, and then select a color from the Color. Swatches, or Color Guide panel.



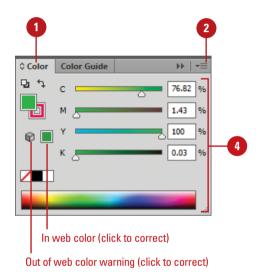
H. 0 0 0 6

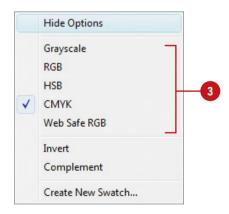
Working with the Color Panel

Work with the Color Panel

- 1 Select the Color panel.
- 2 Click the **Options** menu.
- 3 Select from the following Color Sliders:
 - Grayscale. Creates a single slider going from white (0) to black (100). Converts the lower portion of the Color panel to a grayscale ramp. Clicking anywhere in the ramp changes the active color.
 - RGB. Creates three sliders (red, green, and blue). Each slider has a possible value from 0 to 255. Converts the lower portion of the Color panel to the RGB spectrum. Clicking anywhere in the spectrum changes the active color.
 - HSB. Creates three additive sliders (hue, saturation, and brightness). Each slider has a possible value from 0 to 255.
 - CMYK. Creates four subtractive sliders (cyan, magenta, yellow, and black). Each slider has a possible value from 0 to 100.

Illustrator not only lets you select virtually any colors you desire, it also lets you store those colors for future use. For example, you create a color scheme for a recurring brochure and you want a way to save those colors, or you're working on an Internet graphic and you need a web-safe color panel. Whatever your color needs, Illustrator stands ready to meet them. The Color panel gives you access to Illustrator's color-generation tools. This single panel lets you create colors using different sliders, spectrum color selectors, a grayscale ramp, and an option that lets you create a color ramp for the current fill and stroke colors. The CMYK spectrum displays a rainbow of colors in the CMYK color gamut. Moving the eyedropper into the spectrum box and clicking lets you select any color and gives you a visual representation of the relationships between various colors. The Grayscale ramp gives you linear access to the 256 available grayscale values.





Converts the lower portion of the Color panel to the CMYK spectrum. Clicking anywhere in the spectrum changes the active color.

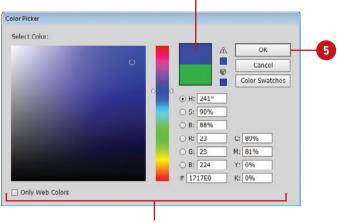
- Web Safe RGB. Creates three sliders (red, green, and blue).
 Each slider has a possible hexadecimal value from 00 to FF. Restricts the color spectrum to only the 216 web-safe colors.
- 4 To change a color, click a color box, use a slider, enter specific color values, or click a color in the spectrum. The box with the red diagonal line is the None color.
- 5 To change a color using the Adobe Color Picker, double-click a color box, select a color using the color range or color mode options, and then click **OK**.

Did You Know?

You can identify out-of-web colors. If an out of web warning icon (a cube) appears below the color boxes on the Color panel, it indicates that the current color is not web safe. Web safe colors are the 216 colors used by all browsers, regardless of the platform. Click the cube icon to shift it to the closest web-safe color.

You can identify out-of-gamut colors. If an out-of-gamut warning icon (a triangle with an exclamation point) appears below the color boxes on the Color panel, it indicates that the current RGB or HSB color doesn't have a CMYK equivalent, which means you can't use it on a commercial project.

Cube indicates the color is not websafe; click to select the closest web color. An alert triangle indicates the color is out-of-gamut (non-printable).



Select options or click the color range to select a color.

For Your Information

Understanding Colors

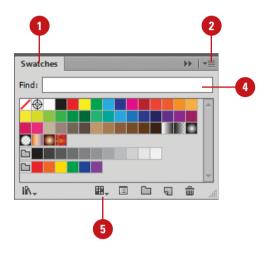
In Windows, you can use the Color dialog box, which displays basic and custom color squares and a color matrix with the full range of colors in the color spectrum, to help you select a color. You can enter RGB values for hue, saturation, and luminosity (also known as brightness) to specify a color. Hue is a pure color (one without tint or shade); the name of the color (red, green, etc.) is measured by its location on the color wheel. **Saturation** is a measure of how much white is mixed in with the color. A fully saturated color has vivid tones; a less saturated color is more of a washed-out pastel. **Luminosity** is a measure of how much black is mixed with the color. A very bright color contains little or no black. You can also change the hue by moving the pointer in the color matrix box horizontally; you can change the saturation by moving the pointer vertically, and the luminosity by adjusting the slider to the right of the color matrix box. On the Macintosh, you click one of the color modes and select a color, using its controls. You can select RGB values by selecting the color sliders at the top of the dialog box, then choosing RGB Sliders from the pop-up menu, and dragging the Red, Green, and Blue sliders. Or, you can enter values (color numbers) to select a color. You can select hue, saturation, and brightness (or luminosity) values by selecting Color Sliders, choosing HSB Sliders, then dragging the sliders or entering your own values.

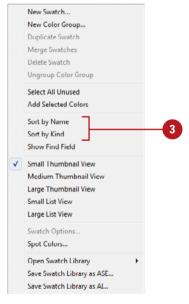
Working with the Swatches Panel

Change the Swatches Panel Display

- Select the **Swatches** panel.
- Click the Options menu, and then choose from the following options: Small Thumbnail View, Medium Thumbnail View, Large Thumbnail View, Small List View, or Large List View.
- To sort the colors in the Swatches panel, click the Swatches Options menu, and then click Sort by Name or Sort by Kind (by solid, gradients, patterns, and groups).
- To search for colors by name, click the **Swatches Options** menu, and then click **Show Find Field**. In the Find field, enter a keyword for the color you want to find, and then press Enter (Win) or Return (Mac).
- To display swatches by type, click the Show Swatch Kinds Menu button, and then select an option: Show All Swatches, Show Color Swatches, Show Gradient Swatches, Show Pattern Swatches, or Show Color Groups.

Illustrator not only lets you select virtually any colors you desire, it also lets you store those colors for future use in a library of color swatches, the Swatches panel. Where the Color panel lets you select virtually any color you need, the Swatches panel lets you save, group, and use specific colors that you use often. In the Swatches panel, you can point to a color box to display a tooltip indicating its color settings. If you want to view more information, you can change the Swatches panel display to make it easier to view and work with colors. In a list view, you can also rename colors in the Swatches panel (New!).





Add, Edit, or Duplicate a Color

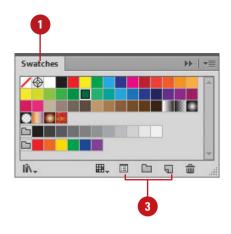
- Select the Swatches panel.
- 2 To edit or duplicate a color, select a swatch color.

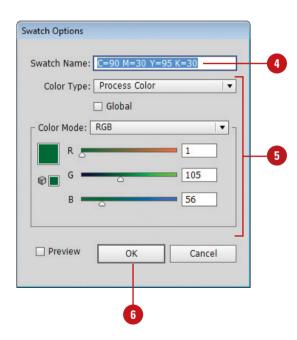
TIMESAVER Drag a color from the color boxes on the Tools or Control panel to the Swatches panel.

- 3 Click the **Swatch Options** button to edit a color or click the **New Swatch** button to add or duplicate a color on the panel.
- 4 For a new or duplicate color, enter a name.
- 5 For a new or edited color, select a color type, select or deselect the **Global** check box, select a color mode, and then specify the color that you want.
- 6 Click OK.
- 7 To rename a color name in the Swatches panel (New!), double-click the name in a list view, edit it, and then press Enter (Win) or Return (Mac).
 - Change to a list view. Click the Options menu, and then click
 Small List View or Large List
 View.

Did You Know?

You can delete a color from the Swatches panel. Open the Swatches panel, display and select the color you want to delete, click the Delete button, and then click Yes.







Creating Groups in the Swatches Panel

Create a Color Group

- 1 Select the Swatches panel.
- Select the solid colors that you want in the group.

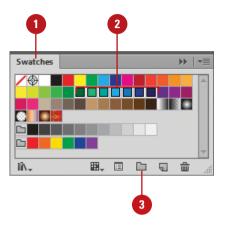
Use Shift+click to select contiguous color boxes or Ctrl+click (Win) or Command+click (Mac) to select noncontiguous color boxes.

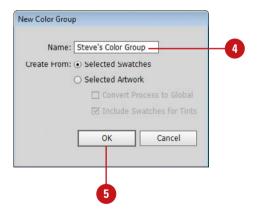
- 3 Click the **New Color Group** button.
 The Selected Swatches option is selected.
- Enter a name.
- Click **OK**.

Did You Know?

You can delete a color group from the Swatches panel. Open the Swatches panel, display and select the color group you want to delete, click the Delete button, and then click Yes.

Where the Color panel lets you select virtually any color you need, the Swatches panel lets you save, group, and use specific colors that you use often. In the Swatches panel, you can create color groups to keep colors for a specific project together, which make it easier to find and use. You can select colors in the Swatches panel or use the colors in a selected artwork (New!) to group together.







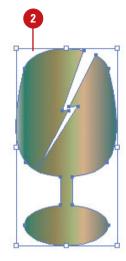
Create a Color Group from Selected Art

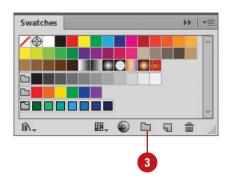
- 1 Select the Swatches panel.
- Select the art object from which you want to create a color group.
- 3 Click the **New Color Group** button.
- 4 Enter a name.
- 5 Select the **Selected Artwork** option (**New!**), if necessary, and then specify the following options:
 - Convert Process to Global.
 Select to automatically convert
 Process Spot colors to Global colors.
 - Include Swatches for Tints.
 Select to include swatches for tints.
- 6 Click **OK**.

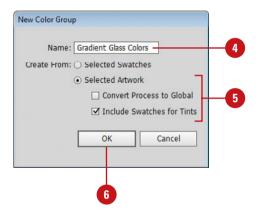
Did You Know?

You can ungroup a color group from the Swatches panel. Open the Swatches panel, display and select the color group you want to ungroup, click the Options button, and then click Ungroup Color Group.

You can duplicate a color group from the Swatches panel. Open the Swatches panel, display and select the color group you want to duplicate, and then click Duplicate Color Group.









Working with Swatch Libraries

Display and Use a Swatch Library

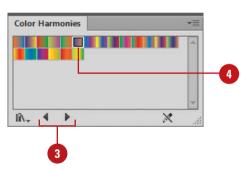
- 1 Select the **Swatches** panel.
- Click the Swatch Libraries menu, point to a library (if necessary), and then select a swatch library.
 - To use default libraries, point to Default Swatches, and then click Basic CMYK, Basic RGB, or one of the other available libraries.
 - To use Vonster Patterns, point to Patterns, point to Decorative, and then click Vonster Patterns (New!).

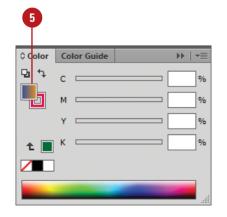
The Library panel appears, displaying the Swatch library.

- To view other related libraries, click the Load Next Swatch Library or Load Previous Swatch Library button on the Library panel.
- To copy swatches between libraries, open the libraries, and then drag the color box or color group from one library to another.
 - If a Swatch Conflict dialog box appears, select an option to merge swatches or add a new one.
- To apply a color to a selected fill or stroke, select the element, click the **Fill** or **Stroke** color box on the Tools or Color panel to choose the color's destination, and then select a color in the Swatch library.

In addition to the standard color swatch libraries, such as Basic RGB and Basic CMYK, you can access the Swatch Libraries menu to use colors from all types of color libraries, such as Corporate, Foods, Kids Stuff, Nature, Skintones. Swatch Libraries also includes Vonster Patterns designed by artist Von Glitschka (New!). After you open a library, you can apply colors to fills and strokes, as well as copy swatches between libraries. After you modify a swatch library, you can save it to create your own user-defined custom swatch library.







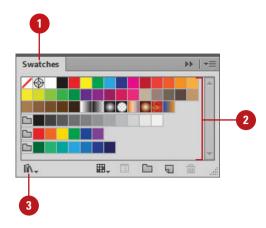


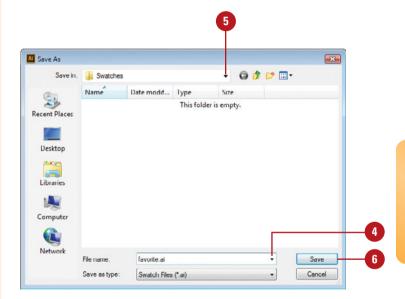
Save Customized Swatches Panels

- Select the **Swatches** panel.
- Create a customized swatch panel by adding and/or deleting colors from an existing panel.
- 3 Click the Swatch Libraries menu, and then click Save Swatches.
- 4 Enter a name in the File name box.
- 5 Click the **Save In** (Win) or **Where** (Mac) list arrow, and then select a location to store the swatch.
- 6 Click Save.

Did You Know?

You can access your customized swatches from the Swatch Libraries menu. When you save swatches in the Color Swatches folder (default location), your customized swatches appear on the User Defined submenu on the Swatch Libraries menu.





Adding Colors Using the Kuler Panel

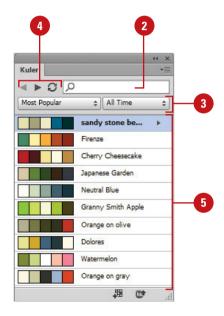
Browse Themes

- 1 Click the Window menu, point to Extensions, and then click Kuler.
- 2 To search for a theme, click in the Search box, enter the name of the theme, a tag, or a creator, and then press Enter (Win) or Return (Mac).

IMPORTANT In a search, use only alphanumerical characters (Aa-Zz, 0-9).

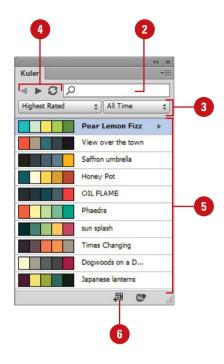
- To narrow down the browse list, click the popups, and then select the filter options you want. Some include Highest Rated, Most Popular, Newest.
 - To save a search, click the first popup, click Custom, enter your search criteria, and then click Save.
- 4 To browse for a theme, click the View Previous Set of Themes or View Next Set of Themes button.
- 5 Select a theme in the panel.

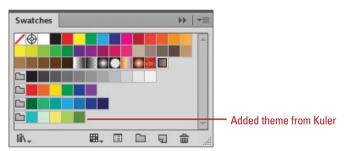
The Kuler panel is an extension to Illustrator that allows you to use groups of color, or themes in your projects. You can use the panel to browse thousands of color themes from the Kuler community. After you find the theme you want, you can add it to the Swatches panel for use in your project. You can access the Kuler panel by using the Extensions submenu on the Window menu. The Kuler panel is also available in Photoshop, InDesign, Flash, and Fireworks. In many of these programs, you can also create your own theme using complementary harmony rules, share them with others in the Kuler community, and use them in Illustrator.



Add Themes to the Swatches Panel

- Click the Window menu, point to Extensions, and then click Kuler.
- 2 To search for a theme, click in the Search box, enter the name of the theme, a tag, or a creator, and then press Enter (Win) or Return (Mac).
- 3 To narrow down the browse list, click the popups, and then select the filter options you want. Some include Highest Rated, Most Popular, Newest.
 - To save a search, click the first popup, click Custom, enter your search criteria, and then click Save.
- To browse for a theme, click the View Previous Set of Themes or View Next Set of Themes button.
- 5 Select a theme in the panel.
- To add the theme to the Swatches panel, click the Add Selected
 Theme to Swatches button.





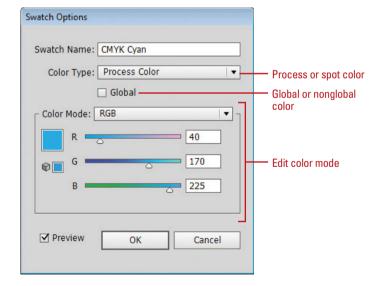
Replacing Colors

Change Global and Nonglobal Colors

- Switch Between Colors. To change a color to global or nonglobal, double-click a global or nonglobal process color in the Swatches panel, select or deselect the Global check box, and then click OK.
- Edit Colors. To edit colors, doubleclick a global or nonglobal process color in the Swatches panel, select the Preview check box, drag the sliders to change the color, and then click OK.
- Replace Colors. To replace a global or spot color (which updates it everywhere it's used), Alt (Win) or Option (Mac) drag the new color over the color that you want to replace.

Illustrator uses global and nonglobal process colors along with spot colors. A global color is one that is updated for all uses, while a nonglobal color is one that is only updated where it's being used on selected objects. A global process color appears in the Swatches panel with a white corner and no dot, while a nonglobal process color appears in the color with no indicators. A spot color appears with a white corner and a dot. You can change a color back and forth between global and nonglobal by using the Swatch Options dialog box.





Replace Colors

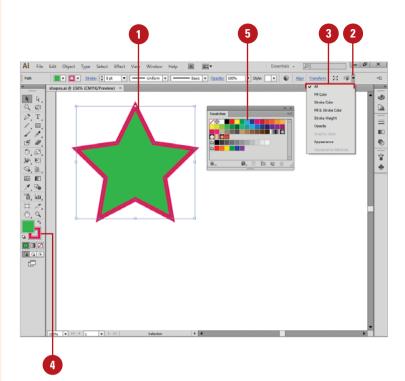
- Select an object with the nonglobal process colors that you want to replace.
- Click the Select Similar Options list arrow on the Control panel.
- 3 Select one of the following options: All, Fill Color, Stroke Color, Fill & Stroke Color, or Stroke Weight.
- 4 Click the **Fill** or **Stroke** color box on the Tools or Color panel to choose the color's destination.
- 5 Select a replacement color from the Swatches or Color Guide panels.

Did You Know?

You can colorize a grayscale image.

Select the grayscale image that you want to change, click the Fill box on the Tools or Color panel, and then select a color from the Color, Swatches, or Color Guide panels. Gray areas are recolored with the new color, while a white background remains opaque white.

You can change a color image to grayscale. Select the colored image, click the Edit menu, point to Edit Colors, and then click Convert To Grayscale.

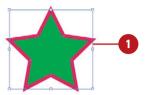


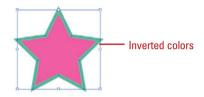
Inverting Colors

Invert Nonglobal Colors

- Select an object with the nonglobal process colors that you want to invert.
- 2 Click the Edit menu, point to Edit Colors, and then click Invert Colors.

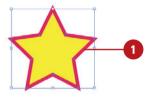
Illustrator provides two commands to invert colors, which changes the color to their opposite values on the color scale. The Invert Colors command allows you to invert multiple nonglobal process colors in a selected object, while the Invert command allows you to invert the fill or stroke color (global, nonglobal, or spot).



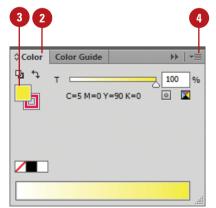


Invert a Global, Nonglobal, or Spot Color

- Select an object with the nonglobal process colors that you want to invert.
- 2 Select the **Color** panel.
- 3 Click the **Fill** or **Stroke** color box on the Tools or Color panel to choose the color's destination.
- 4 Click the **Options** menu, and then click **Invert**.







Using the Color Guide Panel

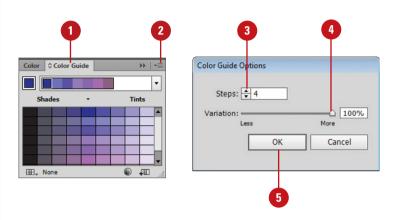
Select Variation Options

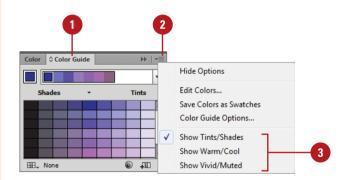
- 1 Select the Color Guide panel.
- Click the Options menu, and then click Color Guide Options.
- 3 Set the number of variation steps (columns of color) to display on either side of the center column.
- 4 Drag the **Variation** slider to set the range of variation.
- Click OK.

Display Variation Types

- Select the **Color Guide** panel.
- Click the **Options** menu.
- 3 Select one of the following variation types:
 - Show Tints/Shades. Adds black to the colors on the left and white to the colors on the right of center.
 - Show Warm/Cool. Adds red to the colors on the left and blue to the colors on the right of center.
 - Show Vivid/Muted. Adds gray to the colors on the left and increases saturation to the colors on the right.

The Color Guide panel allows you to display and apply variations for a color. Along with the Live Color dialog box, you can edit colors in an object or color group, create new color groups, and apply harmony rules, which are predefined color schemes. Variations appear in the Color Guide panel based on a range of color, left or right from center (the small black triangle). You can change the number of columns that appear as well as the color range.





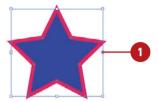
Applying Color with the Color Guide Panel

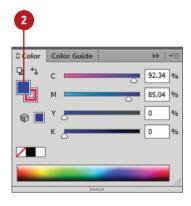
Apply Colors to an Object, Fill or Stroke

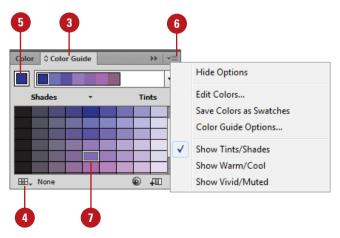
- 1 Select an object.
- 2 Click the **Fill** or **Stroke** color box on the Tools or Color panel to choose the color's destination.
- Select the Color Guide panel.
- 4 Click the Limit Colors to Swatch Library button, and then click None.
 - If you want to use another swatch for color, you can select it from the menu.
- 5 Click the Set Base Color to Current Color button.
- Click the Options menu, and then select a variation type: Show Tints/Shades, Show Warm/Cool, or Show Vivid/Muted.
- Click the variation color that you want to apply.

TIMESAVER Drag a variation color over any unselected object to apply it.

After you set up the Color Guide panel to display color variations the way you want, you can now start applying colors to objects in your document. You can apply colors to an object based on current colors in the object or use colors from other swatches. Illustrator makes it easy to display and apply variations with Harmony Rules (sets of predefined color schemes), such as Complementary, Analogous, Monochromatic, Shades, or High Contrast. If you want to save a customized set of variations, you can create a color group in the Swatches panel for future use.







Use Variations Based on Harmony Rules

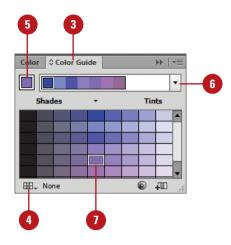
- Select an object.
- Click the Fill or Stroke color box on the Tools panel to choose the color's destination.
- 3 Select the Color Guide panel.
- 4 Click the Limit Colors to Swatch
 Library menu, and then click None.
- 5 Click the Set Base Color to Current Color button.
- 6 Click the **Harmony Rules** list arrow, and then select a rule.
- 7 Click the variation color that you want to apply.

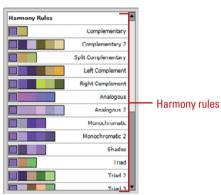
Did You Know?

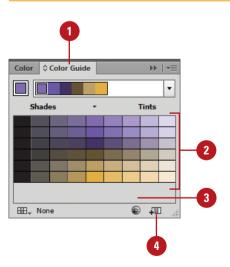
You can copy a single variation to the Swatches panel. Simply drag the color box in the Color Guide panel to the Swatches panel.

Create a Color Group

- Select the Color Guide panel.
- Display the color variations that you want to save as a color group.
- 3 Click the gray area below the color variations to deselect everything.
- 4 Click the Save Color Group to Swatches Panel button.





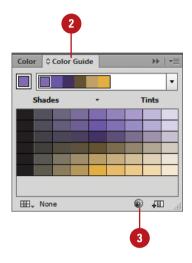


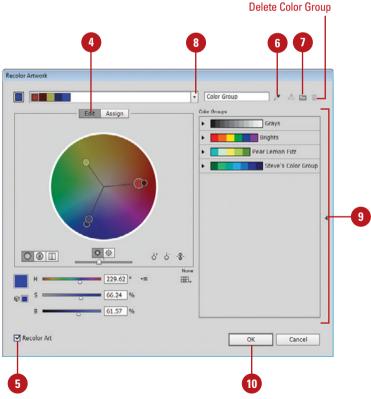
Editing Colors with Live Color

Apply Color Groups to an Object with Live Color

- Select the objects that you want to recolor.
- Select the Color Guide panel.
- 3 Click the Edit or Apply Colors button on the Color Guide panel or click the Recolor Artwork button on the Control panel.
- Click the **Edit** tab.
- 5 Select the Recolor Art check box.
- 6 Click the **Get Colors from Selected Art** button to create a color group from the selected objects, and then enter a name in the field next to the button for the group.
- 7 Click the **New Color Group** button to save the color group in the list.
- To change color groups, select one from the Color Groups list or click the **Harmony Rules** list arrow, and then select a rule.
- To edit a color, select a color box, and then drag the sliders and the round markers (largest marker is the base color) on the color wheel to display the color you want.
 - Use the buttons below the color boxes to change the wheel display, show saturation or brightness (drag slider to adjust it), add or remove colors, and unlink or link harmony rules.
- 10 Click OK.

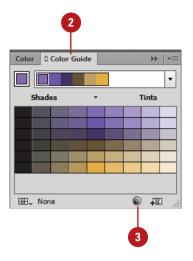
The Live Color dialog box allows you to change multiple colors in your artwork at the same time by editing and applying color groups. This makes it easy to recolor your artwork. You can apply a color group, such as a harmony rule, to objects, or reassign individual colors within a color group to objects. If you have too many colors within objects, you can also reduce the number of colors used while you reassign them.

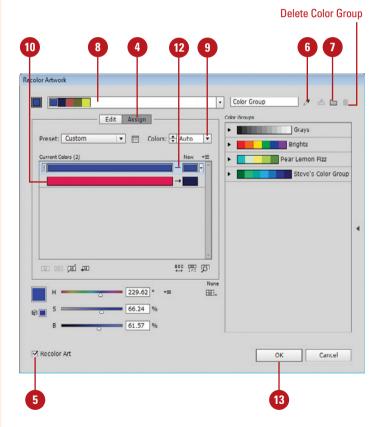




Assign Color Groups to an Object with Live Color

- 1 Select the objects that you want to recolor.
- Select the Color Guide panel.
- 3 Click the **Edit or Apply Colors**button on the Color Guide panel or
 click the **Recolor Artwork** button
 on the Control panel.
- Click the Assign tab.
- 5 Select the **Recolor Art** check box.
- 6 Click the **Get Colors from Selected Art** button to create a color group from the selected objects, and then enter a name in the field next to the button for the group.
- 7 Click the **New Color Group** button to save the color group in the list.
- To change color groups, select one from the Color Groups list or click the **Harmony Rules** list arrow, and then select a rule.
- To reduce the number of colors used in objects, click the **Colors** list arrow and then specify the number of colors you want.
 - Click the Color Reduction
 Options button to specify how you want to recolor the objects.
- To change a new color, select a color and then use the color sliders below it.
- To assign a color, drag a current color to another row.
- To prevent a color assignment change, click the arrow between the columns (it changes to a line). Click it again to change it back.
- 13 Click **OK**.



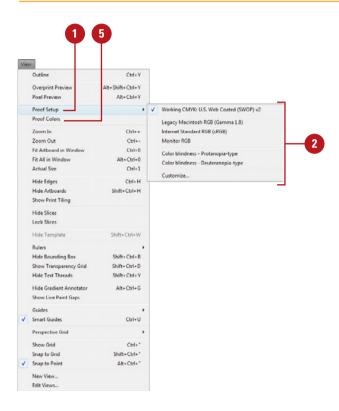


Proofing Colors on the Screen

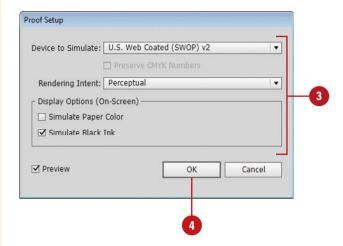
Display a Soft Proof

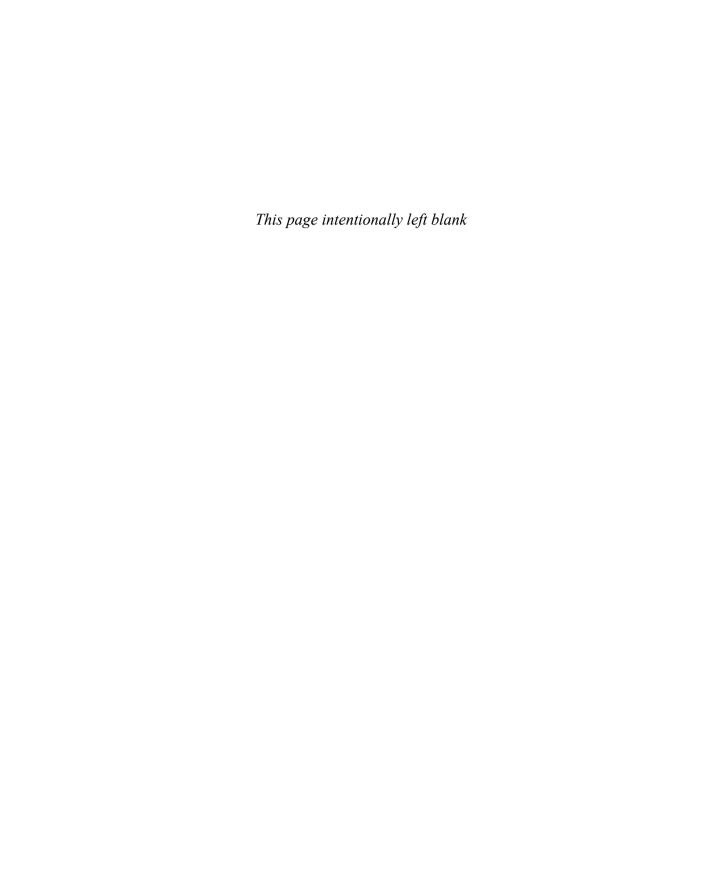
- Click the View menu, and then point to Proof Setup.
- Select a preset from one of the available color output for devices to simulate, or click Customize to setup your own. The soft proof presets include the following:
 - Working CMYK. Creates a soft proof using the current CMYK working color space.
 - Legacy Macintosh RGB.
 Creates a soft proof of RGB colors simulating Mac OS 10.5 and earlier.
 - Internet Standard RGB. Creates a soft proof of RGB colors simulating Windows and Mac OS 10.6 and later.
 - Monitor RGB. Creates a soft proof of RGB colors using your current monitor profile.
 - Color Blindness. Creates a soft proof that reflects colors visible to a person with color blindness.
- 3 For a custom soft proof setup, select from the following options:
 - Device to Simulate. Select a target device to simulate. Simulates how the colors appear without being converted to the color space of the output device.

As you start to use color in your document, it's important to see how your color settings appear. It would be nice to see a printed copy in color to see how colors actually look. However, that is not always possible. Instead you can view a soft proof on your screen to quickly see how your colors will appear. A soft proof simulates the color output of your device, such as a printer with a specific type of paper.



- Preserve CMYK or RGB
 Numbers. Select to use colors
 as they are and not convert
 them to the working color
 space. Deselect to use a
 rendering intent option to
 display colors.
- Rendering Intent. Select an option to display colors: Perceptual (for continuous-tone images), Saturation (for vivid graphics), Absolute Colorimetric (for color preservation) or Relative Colorimetric (for color accuracy).
- Simulate Paper Color. Select to simulate the dingy white of real paper.
- Simulate Black Ink. Select to simulate dark gray for black instead of a solid black. This option is grayed out if the Simulate Paper Color check box is selected.
- 4 Click OK.
- 5 Click the **View** menu, and then click **Proof Colors**.





5

Applying Fills, Strokes, and Gradients

Introduction

The Stroke panel makes it easy to change stroke attributes, such as weight (width), position on the path, and its style. The weight of a stroke refers to the thickness of the line. The Eyedropper tool on the Tools panel is another way you can quickly pick up an object's color and stroke attributes and apply them to another object. Instead of using a solid color as an object fill, you can create and use patterns. The process is very simple. In Illustrator, create a pattern using drawing tools, select and drag the object pattern to the Swatches panel, and then give it a name.

A blend uses two or more objects to create a transitional object in between. If you're just getting start with blends, the Make command on the Blend submenu is an easy way to create a blend. All you need to do is select the objects that you want to use, and then choose the command. That's it. If you want a little more control over the way a blend turns out, you can specify options in the Blend Options dialog box. If you want to specify the locations where the blend takes place, you can use the Blend tool. Transparency, or the opacity level of an object, is set in Illustrator by adjusting the Opacity option in the Transparency or Control panels. Along with the Opacity option is the blending mode, which blends colors together for objects in a group as well as all the objects below it.

A gradient is a smooth transition between two or more colors in an object. You can apply one of Illustrator's built-in gradients or create one of your own by using the Gradient panel. There are two types of gradients: Radial (circular) and Linear (horizontal). With the Gradient tool, you can edit gradient colors applied to the object by adding or changing color stops, applying transparency, and changing gradient direction (linear) or angle (radial).

What You'll Do

Apply Fill and Stroke Colors

Change Stroke Attributes and Style

Create Variable Stroke Widths

Use the Eyedropper Tool

Create, Edit, and Use Patterns as Fills

Blend Color Fills

Create Blends Automatically

Apply Blend Options

Create Blends with the Blend Tool

Modify Blend Objects

Set Transparency Options

Create Transparency Masks

Flatten Object Transparency

Control Transparency Effects

Use the Transparency Grid

Apply, Create, and Edit Gradients

Use Gradient Libraries

Use the Gradient Tool

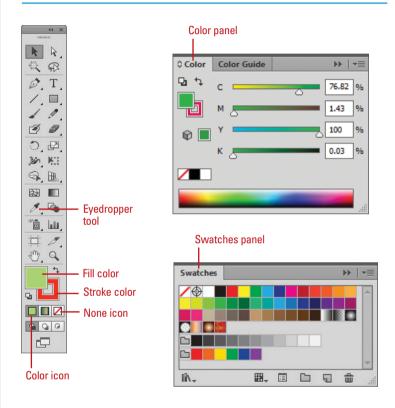
Create a Gradient Mesh

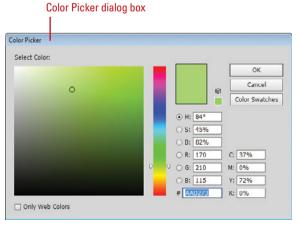
Applying Fill and Stroke Colors

Apply Colors to an Object, Fill or Stroke

- Select an object, fill, or stroke using the appropriate selection tool.
- Click the **Fill** or **Stroke** color box on the Tools or Color panel to choose the color's destination.
- 3 Click the **Color** icon on the Tools panel to apply a color or click the **None** icon to apply no color.
- 4 Use any of the following methods to change the active fill or stroke colors:
 - Select the Swatches panel, and then click a color swatch to change the color.
 - Select the Color panel, and then specify a color using the controls.
 - Select the Color Guide panel, and then click a color swatch to change the color.
 - Select the Eyedropper tool on the Tools panel, and then click anywhere in the active document to change the color.
 - Double-click the Fill or Stroke color box to open the Color Picker dialog box, select a color or enter color values, and then click OK.

The Tools panel provides color boxes to make it easy for you to apply fill and stroke colors. The color box in the foreground is the Fill box and the outlined box in the background is the Stroke box. When you select an object, fill, or stroke, the color boxes (also known as thumbnails), on the Tools panel display the current colors. To change the fill or stroke color, select an object, fill or stroke, select the Fill or Stroke box, and then select a color from the Color, Swatches, or Color Guide panel, or use the Eyedropper to apply a color from the active document.





Use Default and Switch the Fill and Stroke Colors

- 1 Click the **Default Fill and Stroke**Colors buttons to revert the fill and stroke colors to their default values of black and white.
- 2 Click the Swap Fill and Stroke Colors button to switch current colors.

TIMESAVER Press D to change the fill and stroke colors to their default values of black and white, and press X to switch the current colors.

Did You Know?

You can add colors from the Color Picker to the Swatches panel. Open the Color Picker dialog box, select the color you want to add to the Swatches panel, click Add To Swatches, type a name for the color, and then click OK.

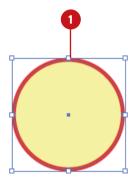


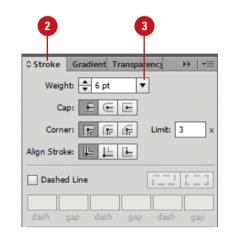
Changing Stroke Attributes

Change the Weight of a Stroke

- Select one or more objects.
- 2 Select the **Stroke** panel.
- 3 Specify or enter a weight in the Stroke or Control panel.
 - Click the up or down arrow, or Shift+click to change the weight by a larger interval.

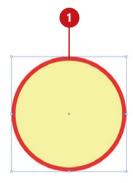
The Stroke panel makes it easy to change stroke attributes, such as weight (width), position on the path, and its style. The weight of a stroke represents the thickness of the line. A weight smaller than .25 may not print and a weight of 0 removes the stroke. In addition to the width of a stroke, you can also specify the position (known as alignment) of the stroke on the path (either center, inside, or outside) and change the caps or joins of a stroke to sharpen or round endpoints and corners. A cap is the end of an open line, while a join is a corner.

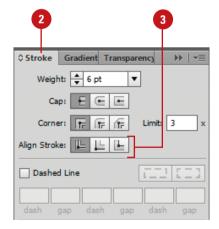




Change the Alignment of a Stroke on the Path

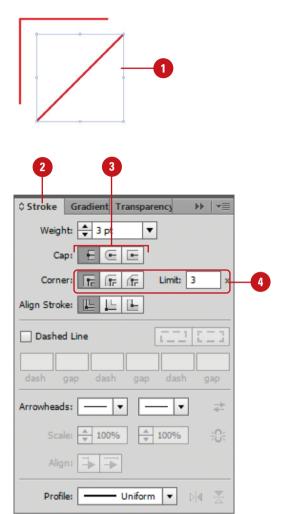
- 1 Select one or more closed objects.
- 2 Select the **Stroke** panel.
- 3 Click one of the following alignment buttons:
 - Align Stroke to Center.
 - Align Stroke to Inside.
 - Align Stroke to Outside.





Change Stroke Caps or Joins

- 1 Select one or more objects.
- 2 Select the Stroke panel.
- 3 To change the endpoints, click one of the following buttons:
 - Butt Cap. Creates a squareedged end.
 - Round Cap. Creates a rounded end.
 - Projecting Cap. Creates a square-edged end that extends past the endpoint.
- 4 To change the bends on corner points, click one of the following:
 - Miter Join. Creates a pointed join point.
 - Enter a miter limit between 1 and 500. When the length of the point reaches the limit (default 4) times the stroke weight, Illustrator switches from a miter join to a bevel join.
 - Round Join. Creates a rounded join point.
 - Bevel Join. Creates a beveled (cut off) join point.



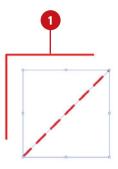
Changing Stroke Style

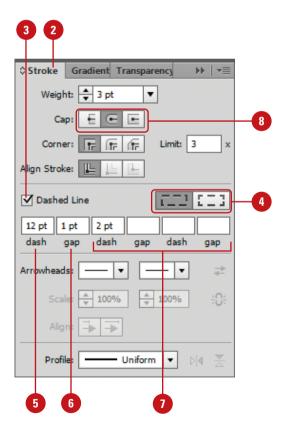
Create a Dashed Stroke

- Select one or more objects.
- Select the Stroke panel.
- 3 Select the **Dashed Line** check box.
- 4 Click the Preserve Exact Dash and Gap Lengths or Aligns Dashes to Corners and Path Ends, Adjusting Lengths to Fit icon.
- 5 Enter a value in the first Dash box.

 If you don't enter any more values, the value in the first box is used for the rest of the boxes.
- 6 Enter a value in the first Gap box.
- 7 Fill in the remaining boxes.
 - To create a dotted line, click the Round Cap button, enter a dash value of 0, and then enter a gap value greater than or equal to the stroke weight.
- 8 Click one of the Cap buttons to sharpen or round endpoints.

Style is what stands out on the page. You can change the stroke style by applying dashes and arrowheads using the Stroke panel. When you create a dashed stroke, you can choose to align the dashes around corners and at the end of open paths or preserve the dashes and gaps in the stroke. In addition to dashes, you can also add and define an arrowhead to a stroke. After you add an arrowhead to a stroke, you can adjust its alignment and scale.





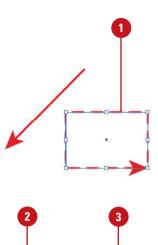
Add Arrowheads

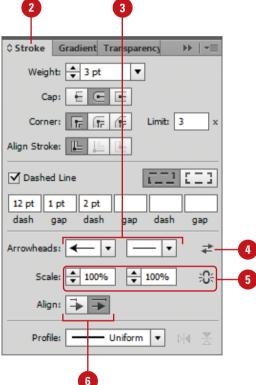
- Select one or more objects.
- 2 Select the Stroke panel.
- 3 Click the Start Point Arrowhead or End Point Arrowhead list arrow, and then select an arrowhead.
 - To remove an arrowhead, select None from the list.
- 4 To swap the start and end arrowheads, click the Swap Start
 And End Arrowheads button.
- 5 Click the Start Arrowhead Scale or End Arrowhead Scale list arrow, and then drag a scale percentage for the arrowhead.
 - To link the start and end arrowhead scale, click the Link Start And End Arrowhead Scales button.
- To change the arrowhead alignment, click the Extend Arrow Tip Beyond End Of Path or Place Arrow Tip At End Of Path button.

Did You Know?

You can customize arrowheads. To define custom arrowheads, open the Arrowheads.ai file, follow the directions in the file, and then place the updated Arrowheads.ai file in the <Illustrator home>\plug-ins\.

The Arrowheads.ai file is located under ShowPackageContent\Required\
Resources\<locale>\ (Mac) or \Support Files\Required\Resources\,<locale>\ (Win).



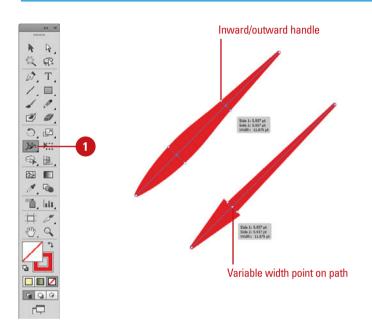


Creating Variable Stroke Widths

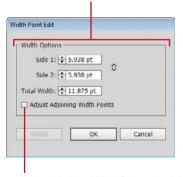
Create or Adjust a Variable Stroke Width

- 1 Select the **Width** tool on the Tools panel.
- 2 Use any of the following methods to create and adjust a variable width stroke:
 - Create a Variable Width Point.
 Point to the path, and then click on the path and drag to size it.
 - Change a Variable Width Point Position. Point to the path, point to a width point, and then drag it along the path.
 - Change a Variable Width Point Size. Point to the path, point to a width point, and then drag the inward/outward handle.
 - Set Exact Variable Width Point Sizes and Options. Point to the path, double-click the width point, specify the sizes you want, select the Adjust Adjoining Width Points check box to adjust neighboring width points, and then click OK.
 - Delete a Variable Width Point.
 Point to the path, click the width point, and then press
 Delete.
 - Select Multiple Width Points.
 Point to the path, press Shift and click width points.

The Width tool allows you to create a variable width stroke and save your settings as a profile that you can apply to other strokes. When you point to a stroke with the Width tool, a small circle appears on the path, where you can drag to create a variable width. After you create a variable width, you can move, duplicate, or delete a width point on the path. Each width point contains an inward/outward handle, which you can drag on the path to adjust the width. If you want to create a variable width with exact measurements, you can use the Width Point Edit dialog box. After you create a variable width point, you can save it as a profile from the Stroke or Control panel.



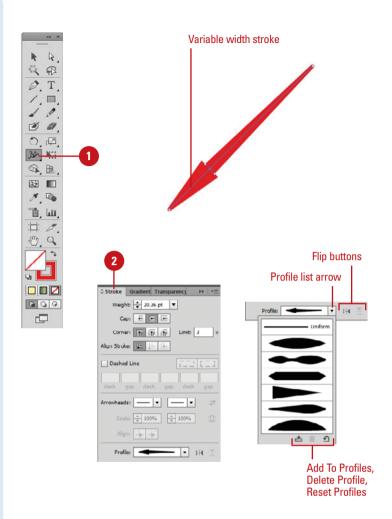
Set exact variable width point sizes and options



Adjust Adjoining Width Points check box

Create and Apply a Stroke Width Profile

- 1 Select the **Width** tool on the Tools panel.
- 2 Select the Stroke panel.
- 3 Use any of the following methods to create or adjust a variable width stroke:
 - Create a Width Profile. Create or select a variable stroke width, click the Profile list arrow on the Stroke panel, click the Add To Profiles button, type a name, and then click OK.
 - Apply a Width Profile. Select a path, click the Profile list arrow on the Stroke panel, and then select the width profile you want.
 - Remove a Width Profile. Select the variable stroke width you want to remove, click the Profile list arrow on the Stroke panel, and then click Uniform.
 - Flip a Width Profile. Click the Profile list arrow on the Stroke panel, select the profile you want to flip, and then click the Flip Along or Flip Across button.
 - Delete a Width Profile. Click the Profile list arrow on the Stroke panel, select the profile you want to delete, and then click the Delete Profile button, and then click Yes.
 - Restore the Default Width Profile Set. Click the Profile list arrow on the Stroke panel, click the Reset Profiles button, and then click OK. This removes any custom saved profiles.



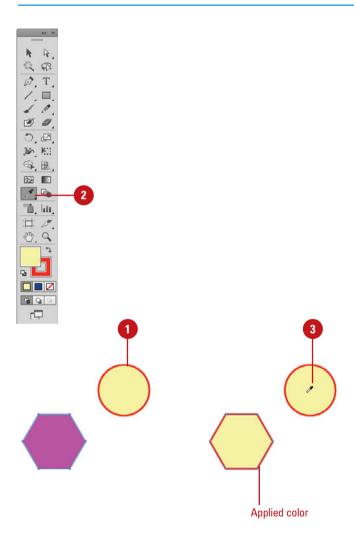
Width Tool Shortcuts	
Width Control	Keyboard Shortcuts (Win/Mac)
Create non-uniform widths	Alt/Option+drag
Create a copy of a width point	Alt/Option+drag
Copy/move all points along the path	Alt/Option+Shift+drag
Move multiple width points	Shift+drag
Select multiple width points	Shift+click
Delete selected width points	Delete
Deselect a width point	Esc

Using the Eyedropper Tool

Apply Colors and Attributes with the Eyedropper Tool

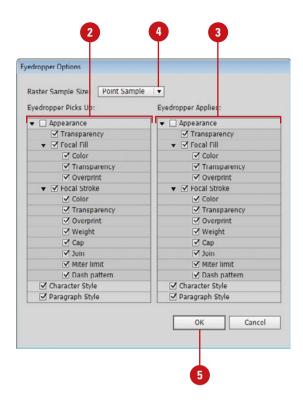
- 1 If you want to apply the pick up color and attributes to one or more objects, then select them.
- Select the Eyedropper tool on the Tools panel.
- 3 Click an object in any window that contains the color and attributes that you want to pick up and apply.
 - If you want to apply color attributes from the currently selected object and apply them to another object you select, Alt+click (Win) or Option+click (Mac) the objects.
 - To have the Eyedropper tool only pick up an object's color and not other attributes, click the Fill or Stroke box on the Tools or Color panel, and then Shift+click the color to be picked up.

The Eyedropper tool on the Tools panel makes it easy to quickly pick up a color from one area of your artwork and apply it to another area. When you click an object with the Eyedropper tool, it picks up the object's color and stroke attributes and displays them in the Tools, Color, and Stroke panels. You can pick up attributes from any type of object, even a graphic image and the object doesn't need to be selected. If an object is selected, the color and stroke attributes are applied to the selected object. The Eyedropper tool also provides options for you to customize the attributes—such as Appearance, Transparency, Focal Fill and Focal Stroke, Character Style and Paragraph Style—that you want to pick up with the tool.



Change Eyedropper Options

- Double-click the Eyedropper tool on the Tools panel.
- 2 In the left column, select the check boxes for the options that you want the Eyedropper to pick up and deselect the ones you don't.
- In the right column, select the check boxes for the options that you want the Eyedropper to apply and deselect the ones you don't.
- 4 Click the **Raster Sample Size** list arrow, and then select a sample size for the pick up color and attributes.
- 5 Click OK.



Creating Patterns for Fills

Create a Pattern for Fills

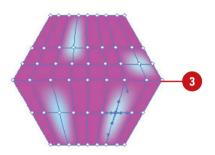
- 1 Use existing or draw objects to be used as a pattern.
- 2 Select the **Selection** tool on the Tools panel.
- 3 Select all the objects.
- 4 Click the **Object** menu, point to **Pattern**, and then click **Make**.
- 5 If prompted with an alert dialog box, click **OK**.

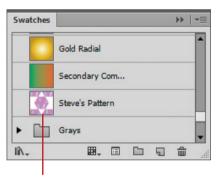
The object is added to the Swatches panel, the Pattern Options panel opens, and the pattern appears in Isolation Mode.

- 6 Type a name for the pattern.
- 7 Click the Tile Type list arrow, and then select a layout: Grid, Brick by Row, Brick by Column, Hex by Column, or Hex by Row.
 - Brick Offset. If you select one of the brick title types, click the Brick Offset list arrow, and then select an offset.
- To adjust tiling manually, click the Pattern Tile Tool button, and then drag a white square handle to resize it.
- 9 Specify any of the following options:
 - Width and Height. If you want an exact width and height, specify the values you want.

Instead of using solid color or gradients as object fills, you can create and use patterns. The process is very simple. In Illustrator, use existing artwork (nothing with a painted pattern) or create a pattern using tools—such as Rectangle, Ellipse, Polygon, Arc, Spiral, Star, or Flare—on the Tools panel, and then drag it to the Swatches panel. If you want to create a more complex pattern, you can make and edit patterns using the Pattern Options panel (New!). The pattern consists of a group of objects, which you can also edit using Isolation Mode.





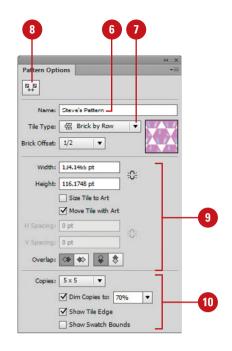


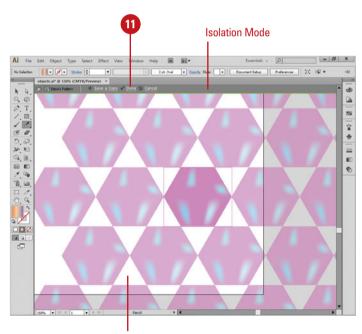
Pattern added to Swatches panel

- Size Tile to Art. Select to size the pattern tile to the applied object. If you select his option, specify horizontal (H) and vertical (V) spacing.
- Move Tile with Art. Select to move the pattern tile with the applied object.
- Overlap. Select Left in Front or Right in Front and Top in Front or Bottom in Front.
- 10 Specify any of the following options:
 - Copies. Specify the number of patterns you want in the grid.
 - Dim Copies to a Percentage.
 Select to dim the pattern copies by an opacity percentage.
 - Show Tile Edge. Select to show the edge of the pattern tile.
 - Show Swatch Bounds. Select to show the bounding edge of the pattern swatch.
- When you're done modifying the pattern, click **Done** on the gray bar to exit Isolation Mode.
 - Cancel. Click Cancel to exit Isolation Mode with creating an pattern.
 - Save a Copy. Click Save a Copy to create a copy of the pattern; Enter a name, and then click OK.

Did You Know?

You can add an object to the Swatches panel as pattern. Drag the object selection to a blank area in the Swatches panel.





Pattern based on Pattern Options panel

Editing Patterns

Edit a Pattern

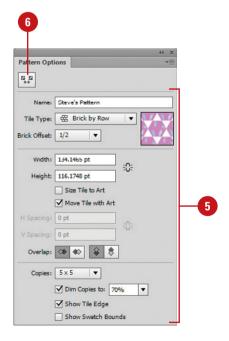
- 1 Select the Swatches panel.
- Select the pattern you want to edit.
- 3 Click the **Object** menu, point to **Pattern**, and then click **Edit Pattern**.

The Pattern Options panel opens and the pattern appears in Isolation Mode.

- 4 With the **Direct Selection** tool, edit individual objects in the pattern.
- In the Pattern Options panel, make the changes you want to pattern; see the previous page for option specifics.
- To adjust tiling manually, click the Pattern Tile Tool button, and then drag a white square handle to resize it in Isolation Mode.
- When you're done modifying the pattern, click **Done** on the gray bar to exit Isolation Mode.
 - Cancel. Click Cancel to exit Isolation Mode with creating a pattern.
 - Save a Copy. Click Save a Copy to create a copy of the pattern; enter a name, and then click OK.

After you create a pattern using the Pattern Options panel (New!), you can use the Edit Pattern command (New!) on the Pattern submenu on the Object menu to edit the pattern. When you edit a pattern from the Swatches panel, the Pattern Options panel opens and the pattern appears in Isolation Mode. With the Direction Selection tool, you can edit individual objects in the pattern. With the Pattern Options panel, you can edit how the pattern appears as a fill.





Using Patterns as Fills

Use a Pattern as a Fill or Stroke

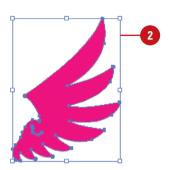
- 1 Select the **Selection** tool on the Tools panel.
- 2 Select an object.
- 3 Click the **Fill** or **Stroke** color box on the Tools panel.
- 4 Select the Swatches panel.
- 5 Click the pattern in the Swatches panel.

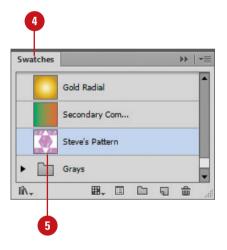
Did You Know?

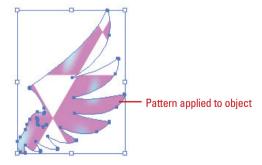
You can reposition a pattern fill. To reposition the pattern fill or stroke in an object without moving the object, select the Selection tool, hold down ~ (tilde) and drag inside the object.

You can expand a pattern into individual objects. Select the object with the pattern, click the Object menu, click Expand, select the Fill check box and/or the Stroke check box, and then click OK. After you create a pattern, you can apply the pattern from the Swatches panel to an object's fill or stroke. You can apply a pattern just as you would apply a solid or gradient color. Simply, select the object, select the Fill or Stroke color box on the Tools panel, and then click the pattern you want to use from the Swatches panel.







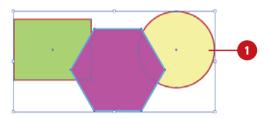


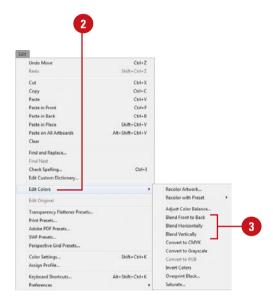
Blending Fill Colors

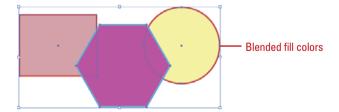
Blend Fill Colors

- Select three or more objects that contain fill colors.
 - The objects cannot contain global process colors, patterns, or gradients.
- 2 Click the Edit menu, and then point to Edit Colors.
- 3 Select any of the following commands:
 - Blend Front to Back. Uses the fill color of the front and back objects in the selection as the starting and ending colors in the blend.
 - Blend Horizontally. Uses the fill color of the left side and right side objects as the starting and ending colors in the blend.
 - Blend Vertically. Uses the fill color of the top and bottom objects as the starting and ending colors in the blend.

The Edit Color submenu allows you to blend fill colors for three or more objects. The more objects that you select, the more gradual the color blend. Stroke colors and attributes remain the same. Illustrator takes the objects on the edges (front and back, left and right, and top and bottom) as the starting and ending colors in the blend. All objects in between the starting and ending ones are intermediate blends.





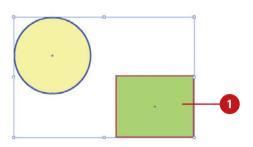


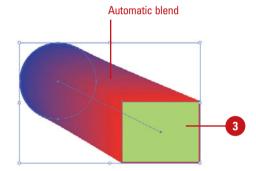
Creating Blends Automatically

Make and Release Blend Objects

- 1 Select two or more objects or groups (with space in between them) that you want to blend.
- 2 Click the **Object** menu, point to **Blend**, and then click **Make**.
 - To undo the creation of the blend objects, click the Edit menu, and then click Undo.
- 3 Select the blend objects.
- To release the blend objects, click the **Object** menu, point to **Blend**, and then click **Release**.

The transitional objects between the original objects are removed, while the original objects and path remain intact. If you're just getting started with blends, the Make command on the Blend submenu is an easy way to create a blend. All you need to do is select the objects that you want to use in the blend, and then choose the Make command. That's it. Illustrator creates all the transitional objects in between. If you don't like the results, you can undo the blend and try something else. If you no longer want the blend, you can release it, which removes the transitional objects and leaves the original objects and the path.



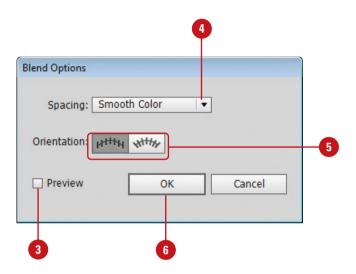


Applying Blend Options

Change and Apply Blend Options

- Select an existing blend object.
- Click the Object menu, point to Blend, and then click Blend Options.
- 3 Select the **Preview** check box to view your changes.
- 4 Click the **Spacing** list arrow, and then select one of the following:
 - Smooth Color. Select to automatically create a smooth color blend based on the number of transitional steps needed.
 - Specified Steps. Enter the number of transitional steps (1-1000) that you want.
 - Specified Distance. Enter the distance (.1-1000 pixels) between the transition objects in the blend.
- 5 Select one of the following orientation buttons:
 - Align to Page. Click to align the blend objects perpendicular to the horizontal axes.
 - Align to Path. Click to align the blend objects perpendicular to the path.
- 6 Click **OK**.

If you want a little more control over the way a blend turns out, you can specify options in the Blend Options dialog box. The settings automatically apply to any selected objects and future blends. The settings include Smooth Color, Specified Steps (number of transitional steps), Specified Distance, Align to Page, and Align to Path. The Preview option allows you to view your changes on the screen as you make them.

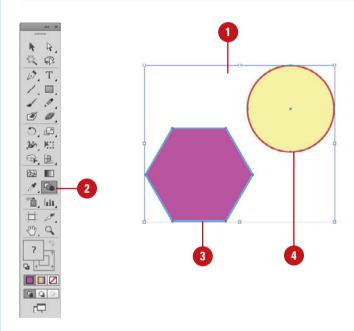


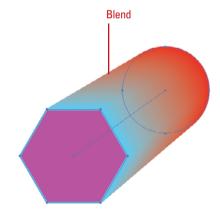
Creating Blends with the Blend Tool

Create a Blend with the Blend Tool

- Select two or more objects or groups (with space in between them) that you want to blend.
- 2 Select the **Blend** tool on the Tools panel.
- 3 Click the fill of the first object (not the center point) to let Illustrator determine an anchor point to use, or click the anchor point that you want to use.
- 4 Click the fill or an anchor point on the next object. If the path is open, click an endpoint.
 - For the best results and smoothest transitions, click anchor points on corresponding locations on the objects.
- Continue to click corresponding anchor points on the selected objects.
- To release the blend objects, select the blend, click the **Object** menu, point to **Blend**, and then click **Release**.

If you want to specify the locations where the blend takes place, you can use the Blend tool on the Tools panel. The Blend tool allows you to select the anchor points on the objects to determine the direction of the blend. For the best results and smoothest transitions, click anchor points on corresponding locations on the objects. If you're not sure which anchor points to use, you can also select an object's fill to let Illustrator select the anchor point for you. Experiment with it to determine what works best for you.



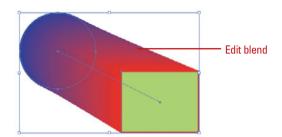


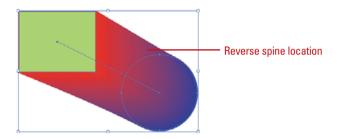
Modifying Blend Objects

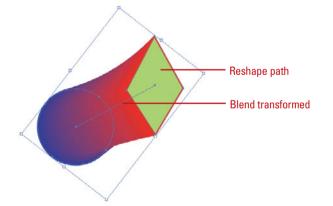
Modify Blend Objects

- Reverse Stacking Order. Changes the stacking order (front to back) without changing the x/y location.
 Select a blend object, click the Object menu, point to Blend, and then click Reverse Front to Back.
- Reverse Spine. Changes the x/y location of the blend objects without changing the stacking order. Select a blend object, click the Object menu, point to Blend, and then click Reverse Spine.
- Replace Spine. Replaces the current spine in a blend with a new path. Create a new path for the spine, select a blend object and the new path, click the Object menu, point to Blend, and then click Replace Spine.
- Recolor. Select all the objects in the blend that you want to recolor, click the Recolor Artwork button on the Control panel, specify the color changes you want, and then click OK.
- Transform. Select all the objects in the blend, and then use the object's bounding box, the Free Transform tool, or other transformation tools.
- Reshape Path. Move one of the original blend objects with the Direct Selection tool or use any of the reshaping path tools.

After you create a blend, you can use commands on the Blend submenu to reverse stacking order, reverse spine location, and replace the spine. These commands allow you to quickly change the look of the blend. If you want to modify a blend, you can change blend objects using other Illustrator features, such as recoloring, reshaping, or transforming. Experiment to determine what works best for you.





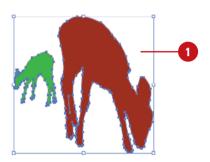


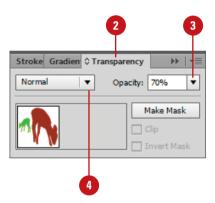
Setting Transparency Options

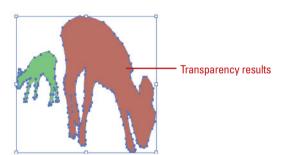
Change the Opacity or Blending Mode of an Object

- 1 Select an object, group, or layer.
 - For a layer, click the target circle on the Layers panel.
 - For type, select individual characters or the entire object.
 - For an object's fill or stroke, click the target circle on the Layers panel, and then click Fill or Stroke on the Appearance panel.
- 2 Select the **Transparency** panel.
- 3 To change opacity, click the Opacity list arrow, and then specify a percentage.
- 4 To change the blending mode, click the **Blending Mode** list arrow, and then select a blending mode.

Transparency, or the opacity of an object (to what degree you can see through the object), is set in Illustrator by adjusting the Opacity option in the Transparency, Control, or Appearance panels. The Opacity option allows you to specify a percentage to set the transparency level. Along with opacity, you an also change the blending mode, which controls how object colors blend with other object colors below it. You can apply transparency options to an object, group, or layer. This includes an object's fill or stroke, and type.





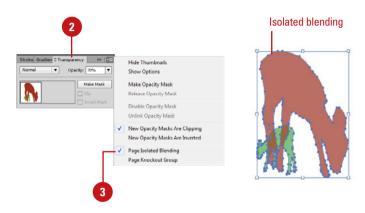


Controlling Transparency Effects

Isolate a Blending Mode to Certain Objects

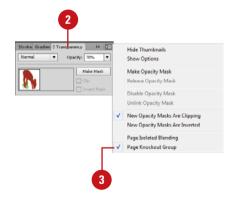
- 1 Click the target circle for a group or layer on the Layers panel that contains nested objects with a blending mode.
- 2 Select the **Transparency** panel.
- 3 Click the **Options** menu, and then click **Page Isolated Blending**.

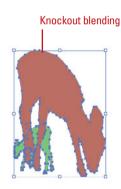
When you apply a blending mode to a group, the blend is applied to all the objects in the group as well as all the objects below it. If you want to isolate the blend to only the objects nested in the group, you can use the Isolate Blending option in the Transparency panel. You can also use the option on individual objects with overlapping strokes and fills. If objects in a group overlap, you can use the Knockout Group option to control whether objects will show through each other (except for semi-transparent objects) or be knocked out.



Use the Knockout Group Option

- Click the target circle for a group or layer on the Layers panel that contains nested objects.
- 2 Select the **Transparency** panel.
- 3 Click the **Options** menu, and then click **Page Knockout Group** to knock out the objects so that you can't see through them. However, you'll still see through any semitransparent objects. Deselect this option to allow objects to be seen through each other.





Creating Transparency Masks

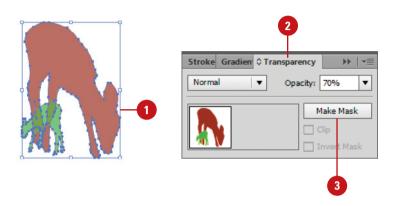
Use Opacity Masks to Create Transparency

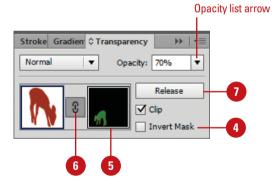
- 1 Select two or more objects or groups.
- 2 Select the **Transparency** panel.
- 3 Click **Make Mask** on the Transparency panel.

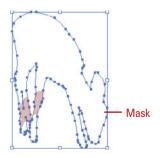
The Clip check box becomes selected. The Clip option sets the mask background to black. If you have black objects, they will be hidden, unless you use a different color or deselect the Clip check box.

- To reverse the opacity of the masked artwork (80% transparent becomes 20% transparent), select the **Invert Mask** check box.
 - You can also change opacity with the Opacity list arrow.
- 5 To edit a masking object, click the thumbnail (on right), edit the mask, and then click the masked artwork thumbnail (on left) to exit.
 - Alt-click (Win) or Option-click (Mac) the thumbnail to hide all other artwork in the document.
- To unlink or relink an opacity mask, click the **Link** icon between the thumbnails.
- 7 To remove an opacity mask, click **Release** on the Transparency panel.

You can use an opacity mask and a masking object to change transparency. The opacity mask is an object whose shape masks out everything except the contents behind the shape. The masking object is the area that becomes transparent. You can use any colored object or raster image as the masking object. When the opacity mask is white, the artwork is fully visible. When the opacity mask is black, the artwork is hidden. Using shades of gray in the mask provides the varying opacity levels of transparency in the artwork. You can create an opacity mask in the Transparency panel.





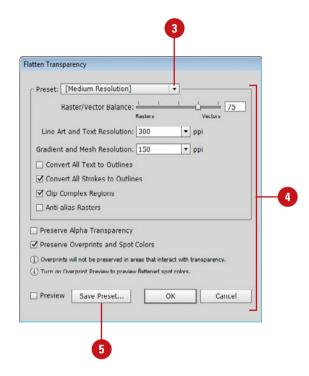


Flattening Object Transparency

Flatten Object Transparency

- 1 Select the objects you want to change.
- 2 Click the **Object** menu, and then click **Flatten Transparency**.
- 3 Click the **Preset** list arrow, and then select a preset.
- 4 Click **OK** to use the preset, or specify the custom settings:
 - Raster/Vector Balance.
 Preserves vector information.
 - Line Art and Text Resolution.
 Rasterizes art and text objects;
 typically set to 600-1200.
 - Gradient and Mesh Resolution.
 Rasterizes gradient and mesh objects; typically set to 72-2400.
 - Convert All Text to Outlines.
 Select to convert to outlines;
 discards all type glyph info.
 - Convert All Strokes to Outlines.
 Select to convert strokes to filled paths.
 - Clip Complex Regions. Select to reduce stitching where rasters and vectors meet.
 - Anti-alias Rasters. Select to smooth raster images (New!).
 - Preserve Alpha Transparency.
 Select to retain appearance and transparency.
 - Preserve Overprints and Spot Colors. Select when printing separations.
- 5 To save the custom settings, click Save Preset, enter a name, and then click **OK**.

If you have problems printing or saving artwork with transparent objects, you can use the Flatten Transparency command on the Object menu to flatten the object. In most cases when you're working with legacy artwork, this will fix the problem. The best way to flatten the transparency within an object is to try one of the presets. Otherwise, you can specify your own settings. If you plan to use the settings in the future, you can save them as a custom preset.



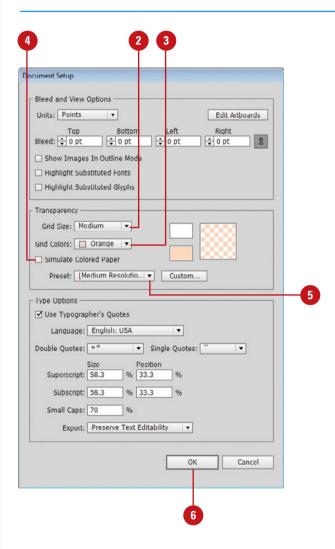
Using the Transparency Grid

Select Transparency Grid Preferences

- 1 Click the File menu, and then click Document Setup.
- Click the Grid Size list arrow, and then select a size: Small, Medium, or Large.
- 3 Click the **Grid Colors** list arrow, and then select a color: **Light**, **Medium**, **Dark**, or a specific color.
- Select the Simulate Colored Paper check box to simulate the use of colored paper, which blends with objects.
- 5 Click the **Preset** list arrow, and then select a resolution.
- 6 Click **OK**.

Did You Know?

You can show and hide the transparency grid. Click the view menu, and then click Show Transparency Grid or Hide Transparency Grid. The Transparency grid makes it easier to work with semi-transparent objects. The gray and white checkerboard background allows you to distinguish between different levels of transparencies. You can quickly show or hide the transparency grid by using the Show Transparency Grid command on the View menu. Before you use the command, you can customize the look of the grid in the Document Setup dialog box.

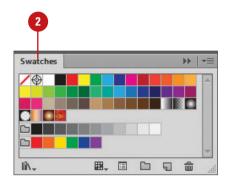


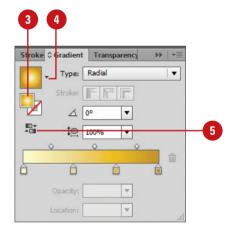
Applying Gradients

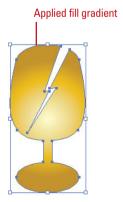
Apply a Gradient Fill to an Object

- 1 Select an object with the fill you want to change.
 - For type, convert it to outlines (click the Type menu, and then click Create Outlines), or select the type, and then select Add New Fill from the Appearance panel menu.
- Select the Swatches and Gradient panels.
 - To use gradients from a gradient library, click the Swatch Libraries menu on the Swatches panel, point to Gradient, select a gradient library, and then click a gradient.
- 3 Click the Fill color box on the Gradient (New!) or Tools panel.
- 4 Click a gradient swatch on the Swatches panel or use the Gradient Fill box list arrow on the Gradient panel to apply any of the gradients on the Swatches panel.
- 5 To change the direction of the gradient, click the Reverse Gradient button.

A gradient is a smooth transition between two or more colors in an object. You can apply one of Illustrator's built-in gradients or create one of your own by using the Gradient panel. The built-in gradients are available from gradient libraries. You can apply a gradient to an object's fill or stroke (New!). After you apply a gradient, you can change the direction or smoothness of the color transition.





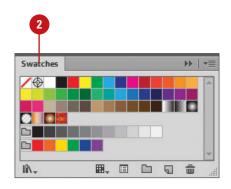


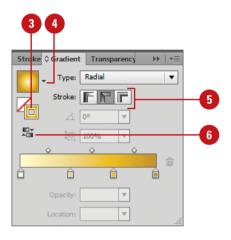
Apply a Gradient to a Stroke

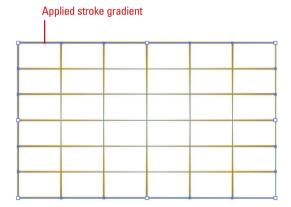
- 1 Select an object with the stroke you want to change.
- 2 Select the Swatches and Gradient panels.
 - To use gradients from a gradient library, click the Swatch Libraries menu on the Swatches panel, point to Gradient, select a gradient library, and then click a gradient.
- 3 Click the **Stroke** color box on the Gradient (**New!**) or Tools panel.
- 4 Click a gradient swatch on the Swatches panel or use the **Gradient Fill box** list arrow on the Gradient panel to apply any of the gradients on the Swatches panel.
- 5 Click a stroke button (New!) to specify where to apply the gradient:
 - Within Stroke.
 - Along Stroke.
 - Across Stroke.
- 6 To change the direction of the gradient, click the Reverse Gradient button.

Did You Know?

You can expand a gradient fill to create an effect. Select an object with a gradient fill, click the Object menu, click Expand, click the Specify option in the Expand Gradient To area, and then enter the number of objects that you want to create. For a smooth color transition, enter a large number (100), and then click OK.







Using Gradients Libraries

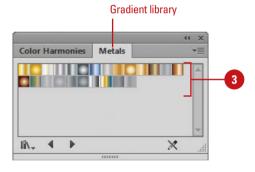
Add Library Gradients to the Swatches Panel

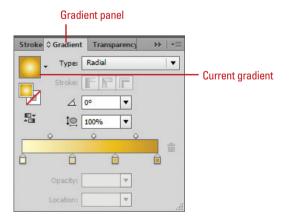
- 1 Select the **Swatches** panel.
- Click the Swatch Libraries menu on the Swatches panel, point to Gradient, and then select a gradient library.
- 3 Click a gradient swatch on the gradient library panel.

The swatch from a gradient library is automatically added to the Swatches panel, where you can apply it to fills and strokes.

You can apply one of Illustrator's built-in gradients or create one of your own by using the Gradient panel. The built-in gradients are available from gradient libraries, which you can access from the Swatches panel. The gradient libraries open in a panel, displaying individual gradients. When you select a swatch from a gradient library, it's automatically added to the Swatches panel. You can apply a gradient to an object's fill or stroke using the Swatches, gradient library, or Gradient panels.





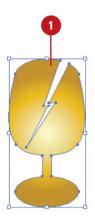


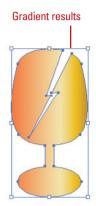
Creating Gradients

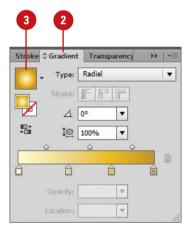


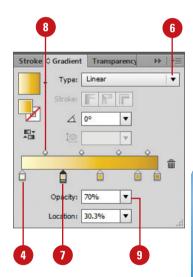
- Select an object.
- 2 Select the **Gradient** panel.
- 3 Click the **Gradient Fill** box on the Gradient panel.
- 4 Click the left color stop and use the Color panel to create the color you want, or Alt+click (Win) or Option+click (Mac) a color swatch on the Swatches panel.
- 5 Repeat the previous step for the right color stop.
- 6 Click the **Type** list arrow, and then select a gradient type: **Radial** or **Linear**.
- 7 To add color stops, click below the gradient spectrum in a blank area. To remove a color stop, drag it down and away from the gradient spectrum.
- To adjust the amount of each color in the gradient, drag the diamond above the gradient spectrum.
- To add transparency, select a color stop, and then specify an Opacity value.
- To save the gradient, drag the Gradient Fill box from the Gradient panel to the Swatches panel.
 - To save and name the gradient, click the Gradient Fill box on the Gradient panel, click the New Swatch button on the Swatches panel, enter a name, and then click OK.

Instead of using one of Illustrator's built-in gradients, you can create your own by using the Gradient panel. It's easy and you can be creative in the process. You can create a gradient with two or more colors and add transparency. There are two types of gradients: Radial (circular) and Linear (horizontal). After you create a gradient, you need to save it in the Swatches panel in order to use it again later.







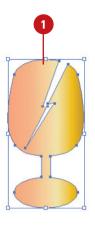


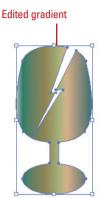
Editing Gradients

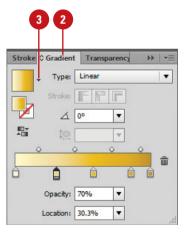
Edit a Gradient

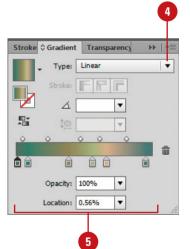
- Select an object with a gradient, or click the gradient swatch on the Swatches panel you want to edit.
- 2 Select the Gradient panel.
- 3 Click the **Gradient Fill** box on the Gradient panel, or click the Gradient Fill box list arrow, and then select one of the saved gradients (from Swatches panel).
- 4 To change the gradient type, click the **Type** list arrow, and then select a gradient type: **Radial** or **Linear**.
- 5 Do any of the following:
 - Add color stops. Click below the gradient spectrum in a blank area.
 - Remove color stops. Drag the color stop down and away from the gradient spectrum.
 - Move color stops. Drag the color stop or enter a Location value.
 - Duplicate color stops. Alt+drag (Win) or Option+drag (Mac) a color stop.
 - Adjust color amount. Drag the diamond above the gradient spectrum.
 - Change Transparency. Select a color stop, and then specify an Opacity value.
- To save the gradient, Alt-drag (Win) or Option-drag (Mac) the Gradient Fill box from the Gradient panel over the old gradient on the Swatches panel.

After you apply a built-in gradient or use one of your own, you can edit it. You can edit a gradient in an object and keep the gradient in the Swatches panel unchanged or you can edit the gradient in the Swatches panel and keep the gradient in an object unchanged. Editing a gradient is similar to creating one. The techniques are the same. All you need to do is select the element that you want to edit.









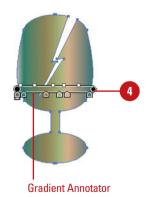
Using the Gradient Tool

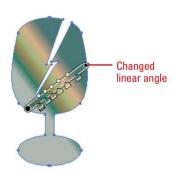
Use the Gradient Tool to Change a Gradient

- 1 Select an object with a gradient that you want to change.
- Click the Gradient tool on the Tools panel.
- 3 Click the View menu, and then click Show Gradient Annotator.
- 4 Do any of the following:
 - Short Color Transitions. Drag the diamond icon on the object a short distance.
 - Gradual Color Transitions. Drag the diamond icon on the object a long distance.
 - Change Position. Drag the larger circle on the object.
 - Reverse Color Direction. Drag the diamond icon on the object in the opposite direction.
 - Change Radial Center. Drag the small circle attached to the larger circle on the object.
 - Change Linear Angle. Alt+drag (Win) or Option+drag (Mac) the diamond icon to another angle.
 - Change Color Stops. Click below the spectrum line to add, drag to move, and drag away to remove color stops.
 - Change Transparency. Doubleclick a color stop on the object, and then specify an Opacity value in the Gradient panel.

The Gradient tool on the Tools panel allows you to change how a gradient appears for an object. You can change how gradient colors blend, the angle of a linear gradient, and the location of the center for a radial gradient with a drag of the mouse over the gradient fill. You can also edit gradient colors on the object by adding or changing color stops, applying transparency to color stops, and changing gradient direction (linear) or angle (radial) using the Gradient Annotator, which you can show and hide from the View menu.





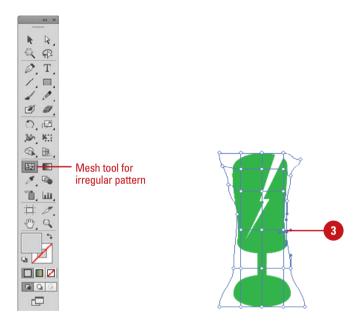


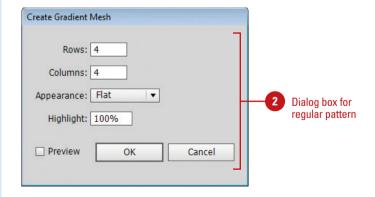
Creating a Gradient Mesh

Create a Gradient Mesh

- 1 Select an object.
- Do one of the following:
 - Irregular Pattern. Select the Mesh tool on the Tools panel, select a fill color for mesh points, click to place the first mesh point, and then continue to click to place other mesh points.
 - Regular Pattern. Click the Object menu, and then click Create Gradient Mesh. Set the number of rows and columns, select the highlight direction, enter a percentage of white highlight (100% = white, 0% = no white), and then click OK.
- 3 To edit a mesh object, select the Mesh tool on the Tools panel, and then do any of the following:
 - Delete Mesh Point. Alt-click (Win) or Option-click (Mac) a mesh point to delete it.
 - Move Mesh Point. Drag to move a mesh point. Shift-drag to keep the mesh point on a mesh line.
 - Add Mesh Point. Select a color for the new mesh point, and then click to add a mesh point.

A mesh object is a multicolored gradient type object that allows colors to flow in different directions and transitions from one point to another. A mesh object uses mesh lines (like a grid) to make it easier for you to modify color flow, transitions, intensity, and opacity. The points in the grid are called mesh points (diamonds). Mesh points are like anchor points, except you can assign color and transparency to them. The area between four mesh points is a mesh patch for which you can modify the color and transparency. You can create two types of mesh objects: one with an irregular pattern of mesh points or one with a regular pattern of mesh points.





Set Color and Transparency for a Gradient Mesh

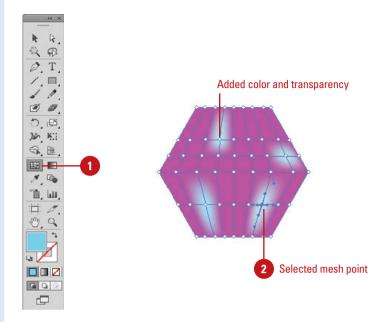
- 1 Select the **Mesh** tool on the Tools panel.
- 2 Select one or more mesh points or patches on the object.
- 3 To change the color of a mesh point or path, drag a color from the Color or Swatches panel onto the point or patch.
 - You can also deselect all objects, select a fill color, and then select the mesh object and use the Eyedropper tool to apply the full color.
- 4 Select the Transparency panel.
- 5 Click the **Opacity** list arrow, and then specify a percentage.

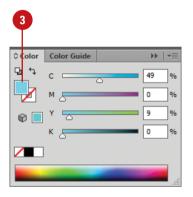
IMPORTANT If you save the object to the CS5 format, or EPS or PDF, the transparency on the mesh object is retained by creating a opacity mask.

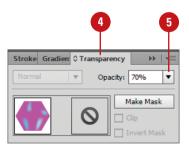
Did You Know?

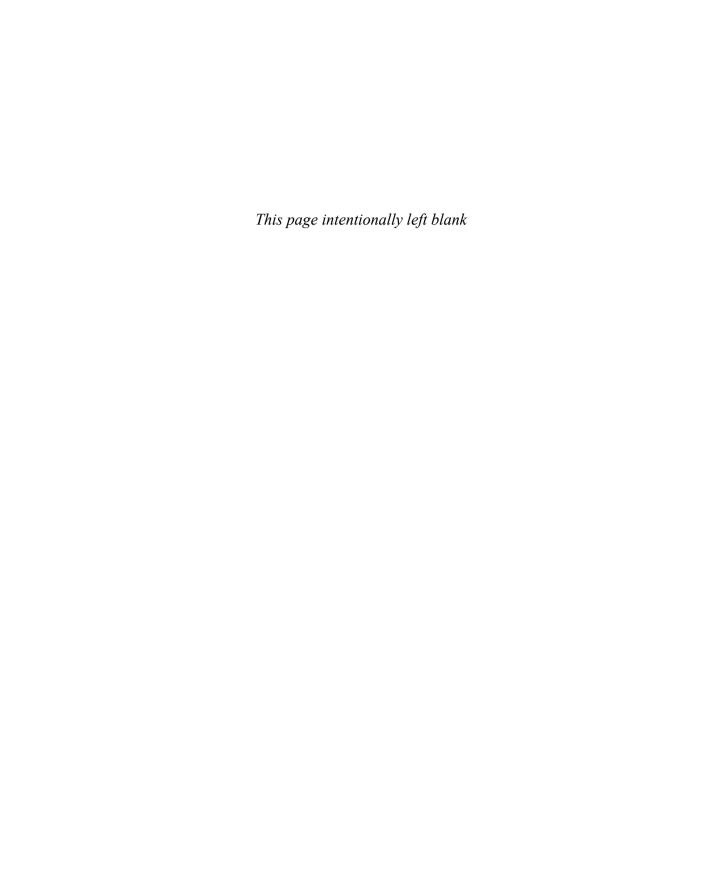
You can convert a gradient to a mesh object. Select an object with a gradient fill, click the Object menu, click Expand, click the Gradient Mesh option, and then click OK.

You can convert a mesh object back to a path object. Select the mesh object, click the Object menu, point to Path, click Offset Path, enter zero for the offset value, and then click OK.









Working with Points and Paths

Introduction

When you use Illustrator's vector drawing, or pen tools, Illustrator creates a path to store that information. Paths are defined mathematically using anchor points and segments. Once created, they can be precisely modified to fit any design situation.

Working with the various Pen tools, it's possible to create precise paths, and even create complicated selections around virtually any shape. Once the path is created, it's a simple matter to subtract anchor points, and add new or modify existing anchor points to produce complex paths. It's even possible to convert straight segments (the visible line that connects two anchor points together) into elegantly curved segments, or you can remove the curve from a segment with a single click.

Paths can be used to precisely guide a brush stroke, or the interior of a path can be filled with any color, pattern, or gradient available in Illustrator using Stroke and Fill commands. Paths can even be used to create a clipping mask, which is an object whose shape masks out everything except the contents behind the shape.

What You'll Do

Draw with the Pen Tools

Set Anchor Point Preferences

Move Points and Segments

Convert Points

Add and Delete Anchor Points

Align and Join Anchor Points

Reshape Paths

Erase to Reshape Paths

Smooth Paths

Simplify Paths

Divide Paths

Split Paths

Merge Paths

Work with Shape Mode

Work with Pathfinder

Create a Compound Path

Create a Clipping Set

Edit a Clipping Set

Drawing with the Pen Tools

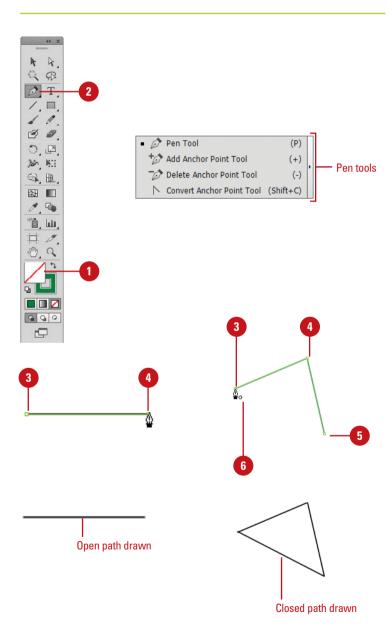
Draw a Polygon with the Pen Tool

- 1 Click the **Fill** box on the Tools panel and then click the **Color** or **None** to specify whether you want to fill the object or not.
- Select the Pen tool on the Tools panel.
- 3 Click to create the first anchor point.
 - To draw segments constrained to 45 degrees, hold down Shift while you click.
- 4 Click to create the second anchor point at another location.

A line segment appears between the two anchor points.

- Continue to add anchor points.
- 6 Do any of the following to complete the shape as a:
 - ◆ Open Path. Click the Pen tool or any other tool on the Tools panel, or Ctrl+click (Win) or ③寒+click (Mac) outside the new shape to deselect it.
 - Closed Path. Point to the starting anchor point, and then click it.

When you work with Illustrator's Pen tool, you're creating a path. The path consists of curved and straight segments connected by anchor points. When you click with the Pen tool, you create corner points and straight segments. When you drag with the Pen tool, you can create smooth points and curve segments, which have direction handles you can use to change the curved segment. The shape of the curve segment is defined by the length and direction of the direction handles. As you create drawings with the Pen tool, you can turn on Smart Guides to help you align the segments.



Draw Curves with the Pen Tool

- 1 Click the Fill box on the Tools panel and then click the Color or None to specify whether you want to fill the object or not.
- 2 Select the **Pen** tool on the Tools panel.
- 3 Click and drag to create the first anchor point.

As you drag, the direction handles move.

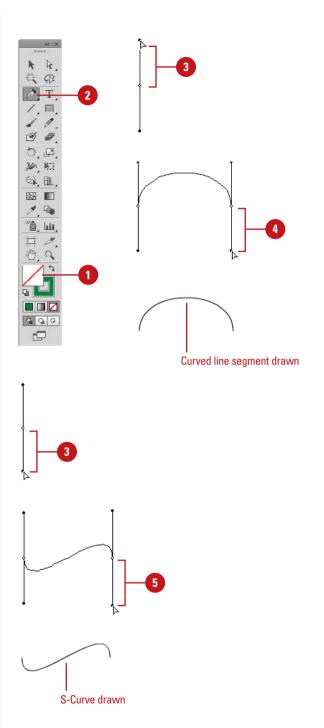
- 4 Release the mouse, and then move to where you want the second point.
- 5 Click and drag to create the second anchor point.

A curve segment appears between the two anchor points. As you drag, the direction handles move, which changes the the curve segment.

The shape of the curve segment is defined by the length and direction of the direction handles.

- 6 Continue to add anchor points and direction handles.
- Do any of the following to complete the shape as a:

 - Closed Path. Point to the starting anchor point, and then click it.



Setting Anchor Point Preferences

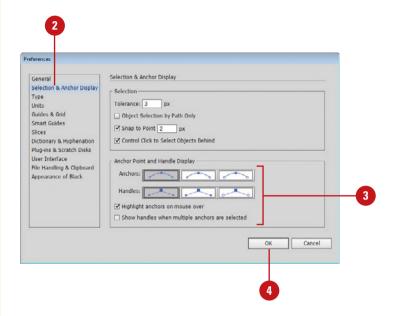
Move an Anchor Point or Segment

- 1 Click the Edit (Win) or Illustrator (Mac) menu, and then point to Preferences.
- Click Selection & Anchor Display.
- 3 Select the Anchor Point and Handle Display options you want to use:
 - Anchors. Specify the display of anchor points.
 - Handles. Specify the display of handle end points (direction points).
 - Highlight anchors on mouse over. Select to highlight the anchor point located directly below the mouse pointer.
 - Show handles when multiple anchors are selected. Select to display direction lines on all selected anchor points when you use the Direct Selection or Group Selection tool to select an object.

Deselect to display direction lines for an anchor point when it is the only anchor point on the path or when the Bezier segment for the direction line is selected and the anchor point is not selected.

4 Click OK.

Illustrator's Selection & Anchor Displays preferences allow you to set selection and anchor options. The Anchor Display options allow you to determine how handles and anchors appear on the screen. As you work with anchor points, it's easier to select them when they appear highlighted on a mouse over, which you can enable in this dialog box.



Moving Points and Segments

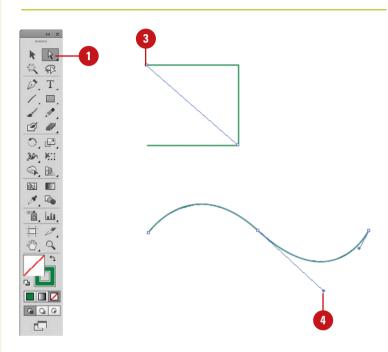
Move an Anchor Point or Segment

- 1 Select the **Direct Selection** tool on the Tools panel.
- Click a blank area to deselect all points.
- 3 Drag an anchor point or drag the middle of a segment.
 - For a smaller move, click the anchor point or segment, and then press an arrow key.
 - To constrain the movement of anchor points or segments to 45 degrees, hold down Shift while dragging.
- 4 To reshape a curve segment, click an anchor point or a curve segment, and then drag a direction point at the end of the direction handle.

Did You Know?

You can average the position of anchor points. Select the anchor points you want with the Direct Selection tool, click the Object menu, point to Path, click Average, click the Horizontal (x axis), Vertical (y axis) or Both option, and then click OK.

It's hard to draw a segment right the first time. Moving anchor points and segments is all part of the process of creating artwork. When you move an anchor point, the segments that are connected to it change. When you move a straight segment, the anchor points on the segment move with it. When you move a curve segment, the curve changes, but the connecting anchors remain the same. You can also change a curve segment by adjusting a direction point on the direction handle.



Converting Points

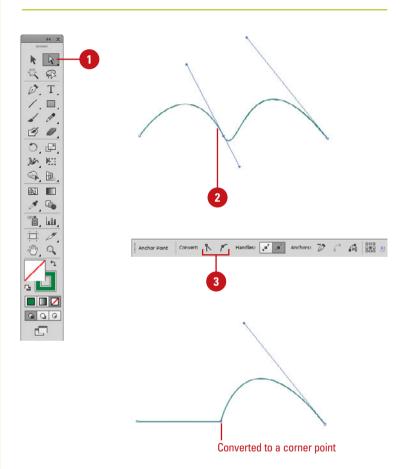
Convert Points on a Path Using the Control Panel

- 1 Select the **Direct Selection** tool on the Tools panel.
- 2 Click the point that you want to convert.
- 3 Click one of these buttons on the Control panel:
 - Convert to Corner. Click the Convert Selected Anchor Points to Corner button.
 - Convert to Smooth. Click the Convert Selected Anchor Points to Smooth button.

Did You Know?

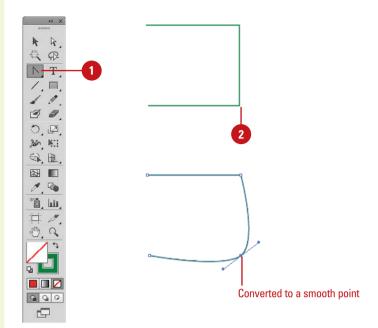
You can convert a mesh object back to a path object. Select the mesh object, click the Object menu, point to Path, click Offset Path, enter 0 for the offset value, and then click OK.

When you create a curve with the Pen tool, the curve segment after the second anchor point appears on the opposite side as the first curve segment. If you want the second curve segment to appear on the same side as the first, you need to convert the anchor point from a smooth point to a corner point. You can make this conversion as you create the curve segment with the Pen tool or you can do it later with buttons on the Control panel or with the Convert Anchor Point tool.



Convert Points on a Path Using the Convert Anchor Tool

- Select the Convert Anchor Point tool on the Tools panel.
 - To turn the Pen tool into a temporary Convert Anchor Point tool, hold down Alt (Win) or Option (Mac).
- To convert a corner point to a smooth point, drag a direction handle from a corner point.
- 3 To convert a smooth point to a corner point, click a smooth point.
 - To convert a smooth point to a corner point with a nonsmooth curve, drag a smooth point so it forms a V shape.



Adding and Deleting Anchor Points

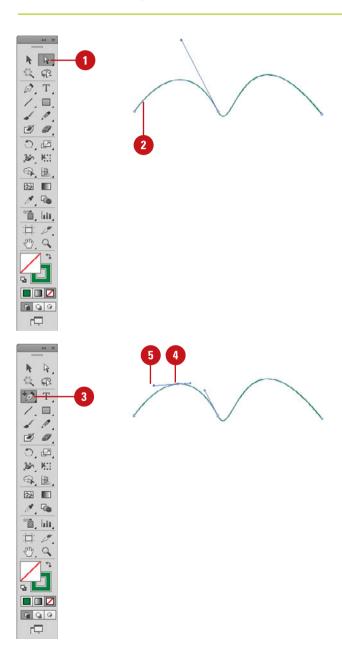
Add Anchor Points

- 1 Select the **Direct Selection** tool on the Tools panel.
- Select the object to which you want to add an anchor point.
- 3 Select the **Add Anchor Point** tool on the Tools panel.
- 4 Click once on the path to add a new anchor point.
 - If you missed the path, click OK in response to the alert, and then try again.

When you add an anchor point to a curve segment, a smooth point appears on the path. When you add an anchor point to a straight segment, a corner point appears.

5 Click and drag on the path to add and modify the segment.

Creating a path is not necessarily the end of the job; in fact, there are many ways you can modify a path once it's been created. For example, you can add, subtract, or delete anchor points on an existing path. You can also modify those points to conform to any desired shape. In addition, existing anchor points can be modified to change the segments connecting the points. Just like anything else in Illustrator, paths are flexible. They can be modified to meet whatever design considerations are needed to make the job successful.

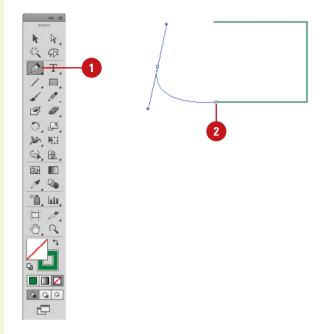


Add Anchor Points to an Open Path

- 1 Select the **Pen** tool on the Tools panel.
- Point to the endpoint to which you want to add an anchor point.

A slash appears next to the Pen pointer.

- 3 Click the endpoint to make it a corner point or drag it to make a smooth point.
- 4 Click once on the path to add a new anchor point.

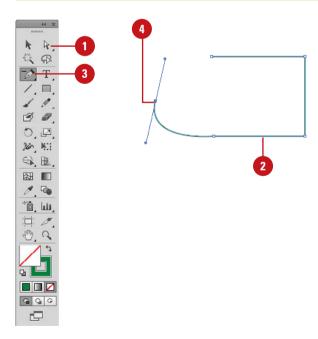


Delete Anchor Points

- 1 Select the **Direct Selection** tool on the Tools panel.
- Select the object from which you want to delete an anchor point.
- 3 Select the **Delete Anchor Point** tool on the Tools panel.
- 4 Click once on an existing anchor point to remove it from the path.

The anchor points on either side of the deleted point are now used to define the segment.

 You can also click a point with the Direct Selection tool, and then click the Remove Selected Anchor Points button on the Control panel.

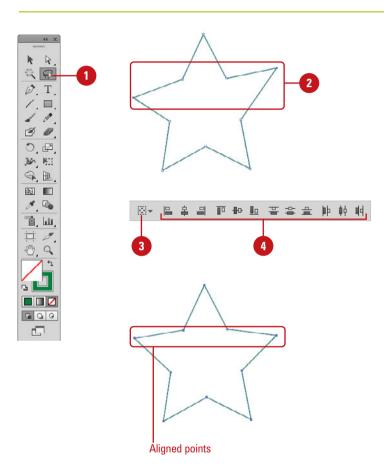


Aligning and Joining Anchor Points

Align or Distribute Anchor Points

- 1 Select the **Lasso** tool on the Tools panel.
- 2 Drag to select two or more points on the path.
 - If you want to select points individually, select the **Direct Selection** tool, and then Shift+click the points that you want to select.
- 3 Click the Align To button, and then select an align to option: Align to Selection, Align to Key Anchor, or Align to Artboard.
- Click any of the following Align or Distribute buttons on the Control panel:
 - Horizontal. Click one of the Horizontal Align or Horizontal Distribute buttons to move and align the points horizontally.
 - Vertical. Click one of the Vertical Align or Vertical Distribute buttons to move and align the points vertically.
 - Overlap. Click a Horizontal Align button and then click a Vertical Align button (or vice versa) to move and align the points horizontally and vertically.

In addition to aligning objects, the Align buttons on the Control panel can also align points on a path along the horizontal and vertical axis. For example, you can use the Vertical Align Center button to align two anchor points to the center point between the two original points along the vertical axis. If you have an open path with two endpoints that you want to connect, you can use the Connect Selected End Points button to connect them with a straight line. You can also join two endpoints into a single point. If you want Illustrator to join the closed end points for two paths, you can select the paths with the Selection tool, and then use the Join command.



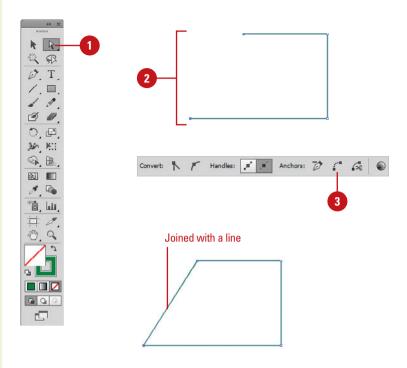
Join Anchor Endpoints with a Straight Line

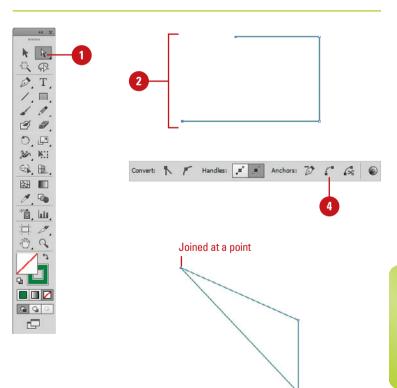
- 1 Select the **Direct Selection** tool on the Tools panel.
- 2 Shift+click the two endpoints that you want to join.
- 3 Click the Connect Selected End Points button on the Control panel.

A straight line segment connects the two endpoints.

Join Anchor Endpoints into a Single Point

- 1 Select the **Direct Selection** tool on the Tools panel.
- 2 Shift-click the two endpoints that you want to join.
 - To quickly join the closed end points, select the path with the Selection tool, click the Object menu, point to Path, and then click Join.
- 3 To have the endpoints meet in the middle (one on top of the other), use the Horizontal Align and Vertical Align buttons on the Control panel.
- 4 Click the Connect Selected End Points button on the Control panel.





Reshaping Paths

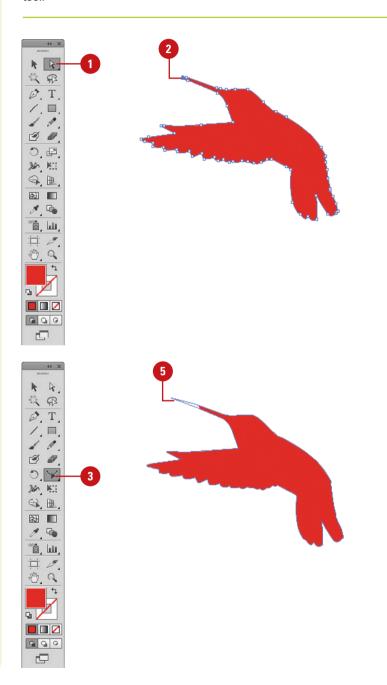
Use the Reshape Tool

- 1 Select the **Direct Selection** tool on the Tools panel.
- 2 Click a blank area to deselect everything, and then click to select an anchor point on a path.
- 3 Select the **Reshape** tool on the Tools panel.
- 4 To drag multiple points at the same time, Shift+click or use a selection tool to select the ones that you want.
- 5 Drag any point or segment.

Did You Know?

You can change the pointer into cross hairs. Press Caps Lock to change the pointer into a Precise Cursor (cross hairs). Press Caps Lock again to change it back.

The Reshape tool on the Tools panel allows you to move points and segments around to modify paths. This tool is useful for extending the side of an object path. When you select multiple points, you can extend or contract the selected point while leaving the unselected points unchanged. You can also reshape a path with the Pencil or Paintbrush tool.



Reshape a Path with the Pencil or Paintbrush Tool

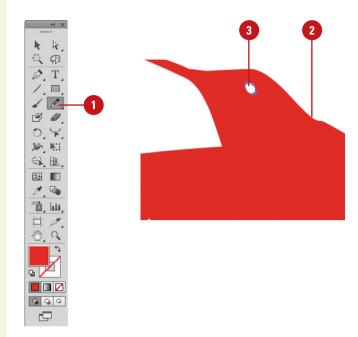
- 1 Select the **Pencil** tool on the Tools panel to reshape a path that doesn't have a brush stroke, or select the **Paintbrush** tool to reshape a path with a brush stroke.
- Select the path that you want to reshape. Ctrl+click (Win) or Command+click (Mac) a path.
- 3 Drag the edge of the path to reshape it.

Did You Know?

You can set Paintbrush options.

Double-click the Paintbrush tool on the Tools panel, set the options that you want, including Edit Selected Paths Within X pixels, and then click OK.

You can add thickness to a stroke path. Select the path with the stroke you want to change, click the Object menu, point to Path, and then click Outline Stroke. The stroke expands to become a filled shape that you can edit with the Pen tool. This allows you to tweak the path to make it appear as if the stroke is thinner and thicker in different places.



Erasing to Reshape Paths

Erase Parts of Paths

- 1 Select the object that you want to reshape with the Selection tool.
- 2 Select the **Eraser** tool on the Tools panel.
- 3 Drag across the parts of the object that you want to erase.
 - Press the [or] key to decrease or increase the Eraser tool diameter.

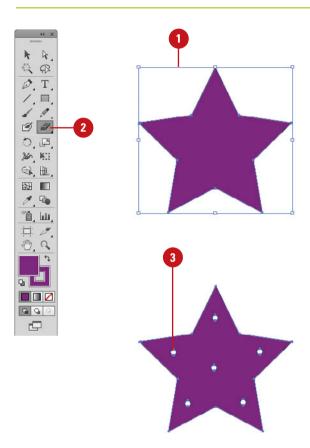
The remaining parts of the path reconnect to close the path.

Did You Know?

You can set Eraser tool options.

Double-click the Eraser tool on the Tools panel, and then set the options that you want, including Angle, Roundness, and Diameter, and then click OK.

When you use the Eraser tool on the Tools panel to remove parts of an object, the remaining parts of the object path are reconnected to reshape and close the path. When you erase inside of a filled object, Illustrator creates a compound path. This is useful when you want to simplify a complex drawing or remove a background. To make it easier to erase, you can also press the [or] key to decrease or increase the Eraser tool diameter.

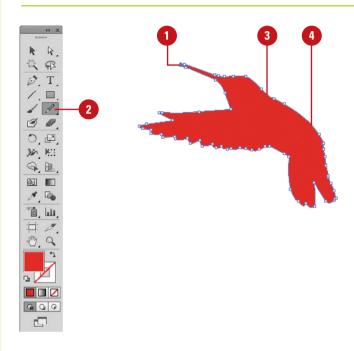


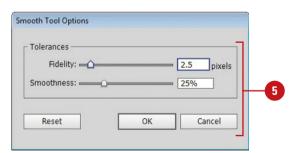
Smoothing Paths

Smooth a Path

- 1 Select the object that you want to smooth with the Selection tool.
- 2 Select the Smooth tool on the Tools panel.
- 3 Drag across the length of the path you want to smooth out.
- Continue smooth until the path or stroke is the smoothness you want.
- 5 To adjust options, double-click the **Smooth** tool on the Tools panel, adjust the following tolerances, and then click **OK**.
 - Fidelity. Controls how far you have to move your mouse before a new anchor point is added to the path (0.5-20 pixels). The higher the value, the smoother and less complex the path.
 - Smoothness. Controls the amount of smoothing applied to the path (0% to 100%). The higher the value, the smoother the path.
 - Reset. Sets the Smooth Tool options back to the default.

Sometimes the appearance of a path is more ragged than you want. You can use the Smooth tool to smooth the appearance of path or stroke until you get the desired smoothness you want. You can change the way the Smooth tool works by adjusting tool options. You can control how far you have to move your mouse or stylus before a new anchor point is added to the path or the amount of smoothing applied to the path when you use the tool.



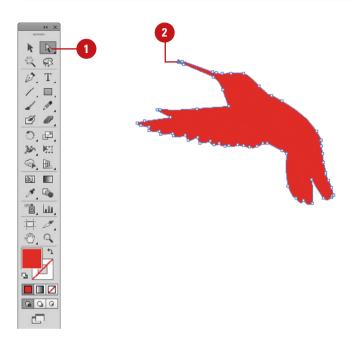


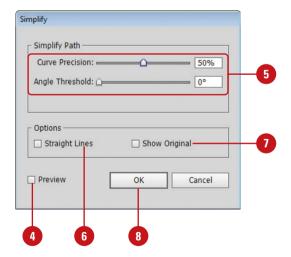
Simplifying Paths

Simplify a Path

- 1 Select the **Direct Selection** tool on the Tools panel.
- 2 Select the object with the path that you want to simplify.
- 3 Click the **Object** menu, point to **Path**, and then click **Simplify**.
- 4 Select the **Preview** check box to show a preview of the simplified path as you make changes.
- 5 Drag the sliders to adjust the Curve Precision and Angle Threshold
 - Curve Precision. Specify a percentage value between 0 and 100. A higher percentage creates more points and a close fit.
 - Angle Threshold. Specify a degree angle between 0 and 180 to control the smoothness of corners. This is useful to keep corners sharp, even if the Curve Precision is low.
- 6 Select the **Straight Lines** check box to creates straight lines between the object's original anchor points.
- 7 Select the **Show Original** check box to show the original path behind the simplified path.
- 8 Click OK.

After you create a path, you can simplify it, which reduces the file size and makes it display and print faster. Simplifying a path removes extra anchor points without changing the shape of the path. You can specify how you want Illustrator to reshape the path by using the Curve Precision and Angle Threshold sliders.





Dividing Paths

Divide a Path

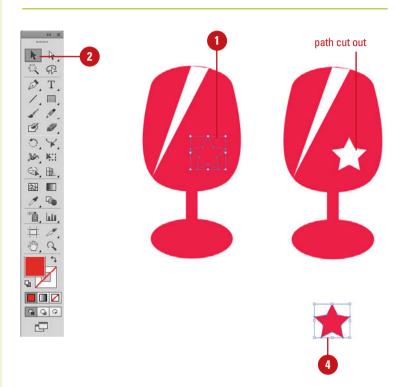
- 1 Create or select an object (not a group) that you want to use as the cutting object.
- 2 Select the **Selection** tool on the Tools panel, and then move the cutting object on top of the objects that you want to divide.
- 3 Click the **Object** menu, point to **Path**, and then click **Divide Objects Below**.
- 4 Drag the edge of the path to reshape it.

Did You Know?

You can divide objects into a grid.
Select one or more closed path
objects, click the Object menu, point to
Path, click Split Into Grid, specify values for the grid, and then click OK.

You can cut objects with the Knife tool. Select the Knife tool on the Tools panel, drag the pointer over an object with a curved path, or Alt+drag (Win) or Option+drag (Mac) the artboard with a straight path.

The Divide Objects Below command allows you to use an object shape to cut out other objects to divide them. Think of it like a cookie cutter. When you cut through other objects, Illustrator discards the original selection. In addition, you can use the Split Into Grid command to divide objects into a grid or the Knife tool to cut objects along a freehand path you draw with the tool, dividing objects into their compound filled faces. A face is an area undivided by a line segment.



Splitting Paths

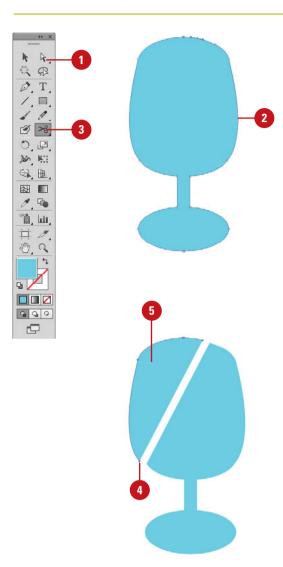
Split a Path

- 1 Select the **Direct Selection** tool on the Tools panel.
- 2 Select the object with the path that you want to split.
- 3 Select the **Scissors** tool on the Tools panel.
- 4 Click the object's path where you want to split it.

If you click on a closed path, it turns into an open path. If you click on an open path, it splits it into two paths.

If you click a line segment, two endpoints appear, one on top of the other.

5 To move the endpoints, select the Direct Selection tool, and then drag the selected endpoint to display the endpoint below it. The Scissors tool on the Tools panel allows you to split an open path into two paths or open a closed path. You can split a path at an anchor point or in the middle of a segment. If you want to split a path at an anchor point, you can also use the Cut Path at Selected Anchor Points button on the Control panel.



Split a Path Using the Control Panel

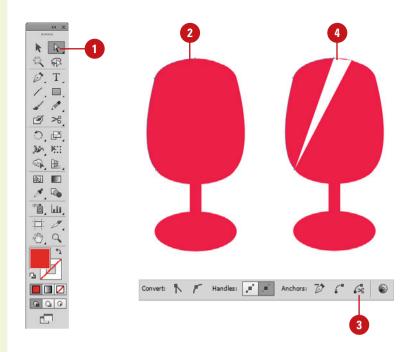
- 1 Select the **Direct Selection** tool on the Tools panel.
- Select the object with the path, and then click the anchor point that you want to split.
- 3 Click the Cut Path at Selected Anchor Points button on the Control panel.
 - A new anchor point appears on top of the selected one.
- 4 To move the anchor point, drag the selected point to display the other anchor point below it.

Did You Know?

You can create new paths by an offset amount. The Offset Path command create a new vector path that is scaled to be larger or smaller than the original with affecting the original. If the path is open, it creates a closed path, appearing on both the inside and outside of the original path, so you may need to delete the part of the path that is not needed. Select the object, click the Object menu, point to Path, Offset Path, specify the offset and options, and then click OK.

See Also

See "Duplicating Objects" on page 94 for more information on setting options with the Offset Path command.



Merging Paths

Create Merged Paths with the Blob Brush Tool

- 1 Select the **Direct Selection** tool on the Tools panel.
- 2 Click a blank area to deselect everything, and then click to select an anchor point on a path.
- Select the Appearance panel.
- 4 Click the **Options** menu, and then deselect the **New Art Has Basic Appearance** option.

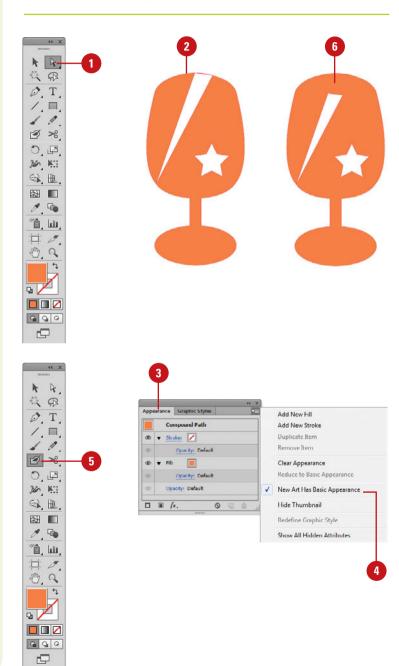
When this option is deselected, the Blob Brush tool uses the attributes of the selected artwork.

5 Select the **Blob Brush** tool on the Tools panel.

Make sure the Blob Brush is set up to have the same fill color, no stroke, and appearance settings as the artwork

6 Draw paths that intersect with the artwork.

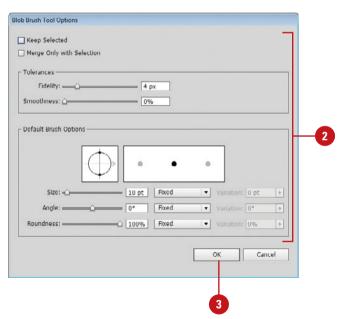
The Blob Brush tool on the Tools panel allows you to merge adjacent paths without strokes. When drawing with the Blob Brush tool, new paths merge with the topmost, matching the path that it connects with. This works when the Blob Brush tool is set up to paint with the exact same fill and appearance settings. When you intersect the paths, the Blob Brush tool creates paths with a fill and no stroke.



Set Blob Brush Options

- 1 Double-click the **Blob Brush** tool on the Tools panel.
- Select from the following options:
 - Keep Selected. Select to keep all paths during the merge selected.
 - Merge Only with Selection.
 Select to have the Blob Brush merge only with the selected artwork.
 - Fidelity. Specify how far (0.5 to 20 pixels) you need to move to add an anchor point.
 - Smoothness. Specify the amount of smoothing applied to the path. The higher the percentage, the smoother the path.
 - Size. Specify the size of the brush.
 - Angle. Specify the angle of rotation for the brush.
 - Roundness. Specify the roundness of the brush.
- 3 Click OK.





Working with Shape Mode

Apply a Shape Mode Command

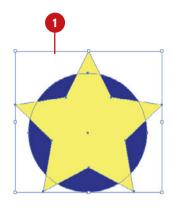
- 1 Select two or more overlapping objects.
- Select the Pathfinder panel.
- 3 Select from the following Shape Mode buttons:
 - Unite to Shape Area. Use to join the outer edges of selected objects into a compound shape.
 - Minus Front from Shape Area.
 Use to remove objects in front of other objects and still preserve paint attributes.
 - Intersect Shape Area. Use to preserve object areas that intersect.
 - Exclude Overlapping Shape Areas. Use to change overlapping areas to transparency.

Did You Know?

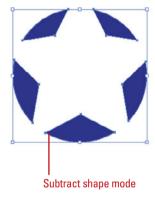
You can expand a compound shape to create a single path. Select the Selection tool on the Tools panel, select the compound shape, and then click the Expand button on the Pathfinder panel.

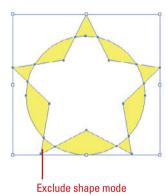
You can release a compound shape to restore object attributes. Select the Selection tool on the Tools panel, select the compound shape, and then click the Release Compound Shape on the Options menu on the Pathfinder panel.

If you have overlapping objects, you can use Shape Mode buttons on the Pathfinder panel to create compound shapes, which are editable and releasable (restoring original attributes). You can use Shape Mode buttons (Unite to Shape Area, Minus Front from Shape Area, Intersect Shape Area, or Exclude Overlapping Shape Areas) on almost any object, except placed or rasterized images, mesh objects, or a single group.









Working with Pathfinder

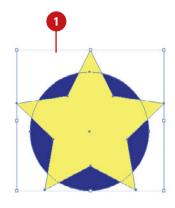
Apply a Pathfinder Command

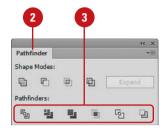
- Select two or more overlapping objects.
- Select the Pathfinder panel.
- 3 Select from the following Pathfinder buttons:
 - Divide. Use to create a separate, non-overlapping object from an overlapping area.
 - Trim. Use to preserve the frontmost object and delete objects behind and overlapping.
 - Merge. Use to merge adjacent or overlapping objects with the same fill attributes.
 - Crop. Use to crop the frontmost object; similar to a clipping mask.
 - Outline. Use to create an outline of the overlapping objects.
 - Minus Back. Use to remove objects in the back, leaving only part of the frontmost object.

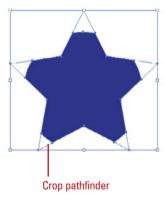
Did You Know?

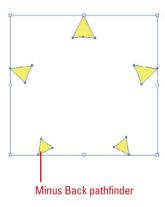
You can convert a stroke into a filled object. Select an object with a stroke, click the Object menu, point to Path, and then click Outline Stroke.

The commands in the Pathfinder panel allow you to create a group of separate, non-overlapping closed paths or lines. You start with overlapping objects and you end up with non-overlapping ones. When you use the Pathfinder commands—Divide, Trim, Merge, Crop, Outline, and Minus Back—the original objects can't be restored. You can only undo the operation.









Creating a Compound Path

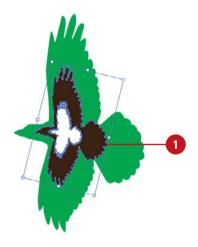
Create a Compound Path

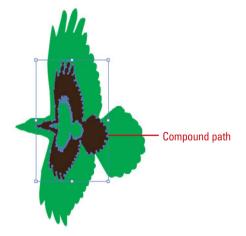
- 1 Arrange your objects so that the frontmost object will cut out to reveal the attributes of the backmost object.
- Select all the objects that you want to include in the compound path.
- 3 Click the **Object** menu, point to **Compound Path**, and then click **Make**.
- To add another object to the compound path, arrange the object in front or back of the compound object, select them, and then click the **Object** menu, point to **Compound Path**, and then click **Make**.

Did You Know?

You can convert strokes to compound paths. Select the object, click the Object menu, point to Path, and then click Outline Stroke. The compound path is grouped with the filled object. To modify it, ungroup it from the fill or select it with the Group Selection tool.

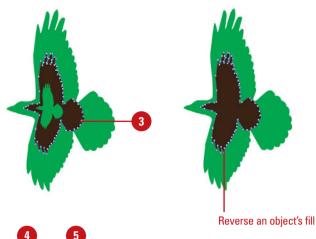
A compound path is a single object made up from two or more objects. In overlapping areas, a compound path removes the overlapping space displaying the attributes of the backmost object behind it. Think of it like a cookie cutter. After you create a compound path, you can release (restore) it at any time. However, the results are not exact. If you want to add another object to the compound path, you need to arrange the object in front or back of the compound object, select them, and then re-use the Make command for Compound Path.

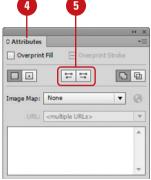




Reverse an Object's Fill in a Compound Path

- 1 Click in a blank area to deselect the compound path.
- 2 Select the **Direct Selection** tool on the Tools panel.
- 3 Click the edge of the object for which you want to reverse the fill.
- 4 Select the Attributes panel.
- Click the Reverse Path Direction
 Off button or Reverse Path
 Direction On button.

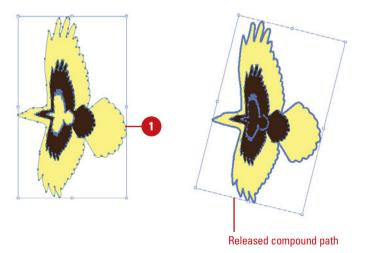




Release a Compound Path

- 1 Select the compound path.
- 2 Click the **Object** menu, point to **Compound Path**, and then click **Release**.

The single object reverts back to individual objects. All the objects are selected and painted with the attributes from the compound path, not their original attributes.



Chapter 6

Creating a Clipping Set

Create a Clipping Mask

- 1 Create or select the clipping mask object that you want to use as the mask.
- 2 Move the clipping mask object above the object that you want to mask.
- 3 Select the clipping mask object and the objects you want to mask.
- 4 Click the **Object** menu, point to **Clipping Mask**, and then click **Make**.

A clipping mask, or clipping path, is an object whose shape masks out everything except the contents behind the shape. The clipping mask (vector only) and the masked objects (any artwork) are called a clipping set. You can create a clipping set from a selection of two or more objects or from all objects in a group or layer. The main thing to remember is that the clipping mask object needs to be above the object that you want to mask in the Layers panel or group. When you move or transform a masked object, Illustrator displays only the masked area.





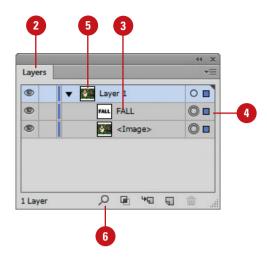
Clipping set

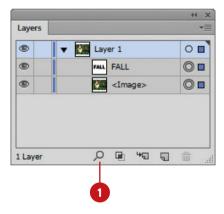
Create a Clipping Mask for a Group or Layer

- 1 Create or select the clipping mask object that you want to use as the mask.
- Select the Layers panel.
- 3 Move the clipping mask object and the object that you want to mask into a layer or group.
- 4 Move the clipping mask object above the object that you want to mask in the Layers panel or group.
- 5 Select the layer or group.
- 6 Click the Make/Release Clipping Mask button in the Layers panel.

Release Objects from a Clipping Mask

- 1 Do one of the following to release objects:
 - Select the layer that contains the clipping mask in the Layers panel, click the Make/Release Clipping Mask button.
 - Select the group that contains the clipping mask, click the Object menu, point to Clipping Mask, and then click Release.





Editing a Clipping Set

Edit a Clipping Set

- 1 Do one of the following to select the clipping path or set:
 - Select and target the clipping path in the Layers panel.
 - Select the clipping set, click the Object menu, point to Clipping Mask, and then Edit Mask.
- 2 Do any of the following to edit the clipping mask:
 - Select the Direct Selection tool on the Tools panel, and then drag the object's center reference point to move it.
 - Select the Direct Selection tool on the Tools panel, and then reshape the clipping path.
 - Apply a fill and stroke to a clipping path.
- 3 To add or remove an object from the masked artwork, drag the object into or out of the group or layer that contains the clipping path.

After you create a clipping set, you can edit the clipping mask or the paths within the clipping set. At the same time you edit a clipping mask, you can add or remove an object from the masked artwork. You can also view and edit the mask independently of all other objects in Isolation Mode. When you're editing a clipping set, the main thing to remember is that the clipping mask object needs to be above the object that you want to mask in the Layers panel or group.



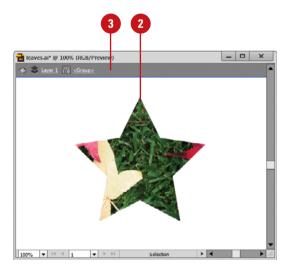
Edit Paths Within a Clipping Set

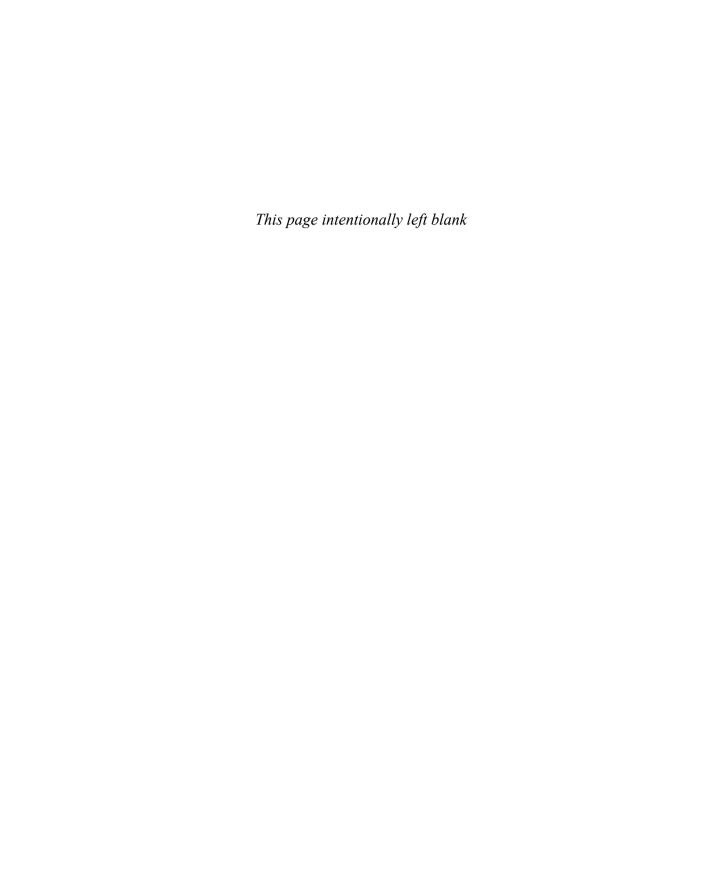
- 1 Do one of the following to select the clipping path or set:
 - Select and target the clipping path in the Layers panel.
 - Select the Direct Selection tool on the Tools panel, and then point to and click the paths outline.
- 2 Drag to edit the path.



- 1 Do one of the following to edit the Masked object in Isolation Mode:
 - Select the masked object, and then click the Isolate Selected Object button on the Control panel.
 - Select the layer with the masked object in the Layers panel, click the Layers Option menu, and then click Enter Isolation Mode.
- Edit the masked object.
- 3 Click the gray bar or press Esc to exit Isolation Mode.







Working with Layers

Introduction

To be successful with Adobe Illustrator, you need to be in control. You need to control color, to control elements of the design, and you even need to control the order of design elements. If control is what you crave, then Layers, more than any other feature, helps you achieve that control. Layers give you the ability to separate individual elements of your design, and then control how those elements appear. You can think of Layers as a group of transparent sheets stacked on top of each other. Through the creative use of these electronic sheets, you can blend the elements of two or more layers, and create layers to adjust and control contrast, brightness, and color balance. You can even group layers together to help organize and manage your design.

Layers are a digital designer's canvas, and they are just as real as a stretched canvas is to a natural media designer. The strokes you apply to a real canvas, using a brush, are equivalent to strokes in an Illustrator layer when you use any of the painting tools. The natural artist may use oils or watercolor in the design while the Illustrator artist uses electronic ink. The Layers panel allows you to view the image almost as if you were actually painting or designing with natural media. However, our canvas—the Layers panel—goes far beyond anything possible in the "real" world.

In Illustrator, using multiple layers is the way to control the information within a document. There are times when you will create several layers; each layer will contain a separate aspect of the total design. Having multiple layers allows you to adjust and move each element independently. Eventually, multiple layers may no longer be necessary. However, you might not want to link them together, or even place them within the same folder. Instead, you might want to combine them into a single unit. Once again, Illustrator comes to the rescue by giving you several options for combining layers without flattening the entire document.

What You'll Do

Understand the Layers Panel

Set Layers Panel Options

Create Layers

Select Layers

Delete Layers

Select Objects with Layers

Arrange Layers and Objects

Duplicate Layers and Objects

Lock Layers and Objects

Show and Hide Layers and Objects

Merge Layers and Objects

Move Objects to a Layer

Flatten Artwork

Locate Objects in the Layers Panel

Create a Template Layer

View Layers as Outlines

Understanding the Layers Panel

With the Layers panel, you can control elements of an Illustrator design by assigning separate layers to each individual object. A top-level layer appears at the top of the Layers panel, which indicates the top of the stacking order. You can create layers and sublayers (nested layers) within a top-level layer. The current layer in the Layers panel appears with a white triangle in the upper right corner of the layer. The circle icon on the right is the target, which you can use to apply and edit appearances. A small square next to the target indicates an object selection. The arrowhead next to a layer thumbnail allows you to expand/collapse a layer group. To access the Layers panel, select the Layers panel or, if the Layers panel is not visible, click the Window menu, and then click Layers.

Show/Hide. Click this icon to show and hide the layer, sublayer, group, or object.

Lock/Unlock. Click this icon to lock or unlock the layer, sublayer, group, or object.

Target. Click this icon to apply or edit appearances for an object or group.

Locate Object. Click this button (**New!**) to locate a selected object in your document in the Layers panel.

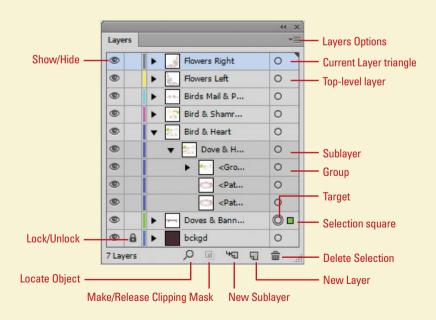
Make/Release Clipping Mask. Click the Lock Transparent Pixels, Lock Image Pixels, Lock Position, or Lock All button.

New Sublayer. Click this button to create a new sublayer in the active document.

New Layer Click this button to create a new layer in the active document.

Delete Selection. Click this button to delete the active layer.

Layers Options. Click this button to access a menu of layer-specific commands.

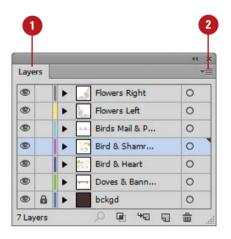


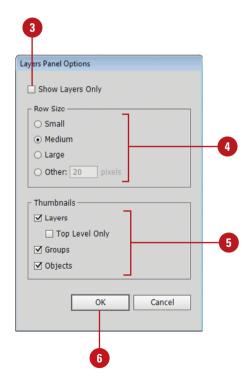
Setting Layers Panel Options

Set Layers Panel Options

- 1 Select the Layers panel.
- Click the Options menu, and then click Panel Options.
- Deselect the **Show Layers Only** check box to show all layers.
 Select it to show only top-level layers and sublayers.
- Click an option for Row Size:
 Small, Medium, Large, or Other,
 and then enter a size (12-100
 pixels).
- 5 Select the check boxes you want for Thumbnails: Layers, Top Level Only, Groups, and Objects.
- 6 Click **OK**.

Illustrator doesn't have a lot of options for controlling the Layers panel itself; in fact, there are only a few—changing the size of the layer row and showing or hiding layers by type. You can choose to view the layer row size in a small (12 pixels), medium (20 pixels), or large (32 pixels) size, or you can select a custom size. You can choose to show or hide thumbnails based on type, including Layers, Top Level Only, Groups, and Objects.





Creating Layers

Create a New Top Level Layer

- 1 Select the Layers panel.
- Click the top level layer that you want the new layer to appear above.
- 3 Click the **New Layer** button on the Layers panel.

A new top level layer appears with the name Layer and the next number in order.

To rename the layer, double-click the layer name, enter or edit the name (New!), and then press Enter (Win) or Return (Mac).

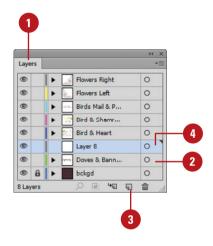
Create a Sublayer

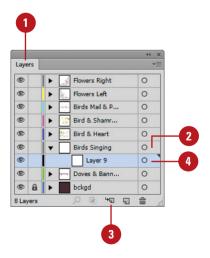
- 1 Select the **Layers** panel.
- Click the top level layer or sublayer that you want the new sublayer to appear within.
- 3 Click the **New Sublayer** button on the Layers panel.

A new sublayer appears with the name Layer and the next number in order.

To rename the layer, double-click the layer name, enter or edit the name (New!), and then press Enter (Win) or Return (Mac).

Layers give you control over the design elements of your document, so Illustrator makes sure you have plenty of layers available to you. This flexibility guarantees that you have the creative options to carry your designs to any level you desire. To create a new layer, you must first have an open document. A new document in Illustrator has a single top level layer. If you have more than one document open, make sure the active image is the one to which you want to add a layer. You can quickly create a top level layer or sublayer using a button or add a layer and select options using a dialog box, and then edit the name directly in the Layers panel (New!). When you create a new vector object, you also create a sublayer with the name <Path>. Each object that you create or place appears as a new sublayer in the Layers panel.



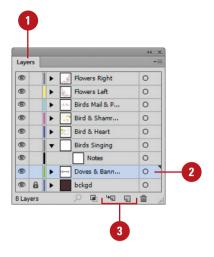


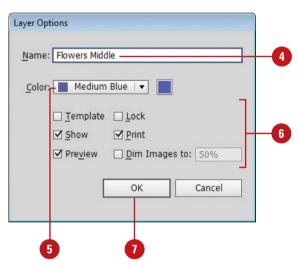
Create a New Top Level Layer or Sublayer with Options

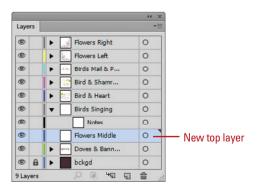
- 1 Select the Layers panel.
- Click the top level layer that you want the new layer to appear above, or sublayer that you want the new sublayer to appear within.
- 3 Alt+click (Win) or Option+click (Mac) the **New Layer** or **New Sublayer** button on the Layers panel.

The Layer Options dialog box appears.

- 4 Enter a name for the layer or sublayer.
- 5 Click the **Color** list arrow, and then select a color.
- 6 Select the check boxes that you want to apply to the layer or sublayer:
 - Template. Select to make a template layer uneditable.
 - Show. Select to show the layer in the Layers panel.
 - Preview. Select to view the layer in Preview view.
 - Lock. Select to lock the layer.
 - Print. Select to enable printing for the layer. Nonprintable layers appear in italics in the Layers panel.
 - Dim Images to 50%. Select to gray out images by the specified percentage.
- Click **OK**.





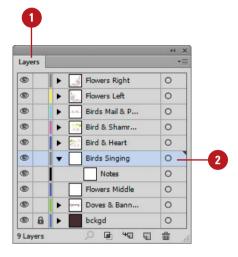


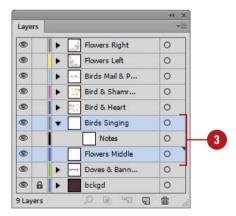
Selecting Layers

Select Layers

- Open a multi-layered document, and then select the **Layers** panel.
- To select a single layer, click the name in the Layers panel.
- 3 To select multiple layers in the Layers panel use the following options:
 - Contiguous Layers. Click on the first layer, and then Shift+click the last layer to select first, last, and all layers in-between.
 - Non-Contiguous Layers. Click on a layer, hold down the Ctrl (Win) or (38) (Mac) key, and then click on another layer.
- 4 To deselect layers in the Layers panel use the following options:
 - Deselect Individual. Hold down the Ctrl (Win) or (Mac) key, and then click on a layer for a multiple selection.
 - Deselect All. Click the Select menu, and then click Deselect.

Before you can create a new layer or work on an existing layer, you need to select it first. Simply click the layer name in the Layers panel. A single selected layer appears with the white triangle in the corner and is called the **current layer**. In some cases, such as moving, deleting, or restacking layers, you want to select multiple layers. You can select multiple sublayers or objects at the same nesting level within the same top-level layer. However, you can't select multiple sublayers or objects on different top-level layers.





Deleting Layers

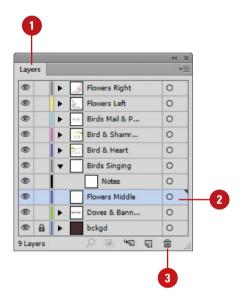
Delete Layers

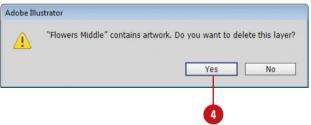
- 1 Select the Layers panel.
- 2 Select the layers that you want to delete.
 - Hold down the Ctrl (Win) or GR (Mac) key, and then click to select multiple items.
- 3 Click the **Delete Layer** button.
- If prompted, click Yes to delete any objects on the layer or sublayer.

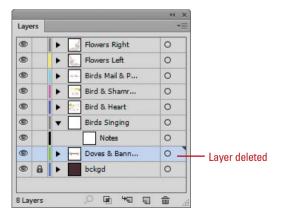
Did You Know?

You can delete layers without the prompt. Select the layers that you want to delete, and then drag them onto the Delete Layer button.

While Illustrator lets you add a lot of layers to a document, it also lets you delete layers. Remember that once you've deleted a layer and saved the document, there is no way to recover the deleted layer. However, while the document is open, you can use the Undo command to recover a deleted layer.





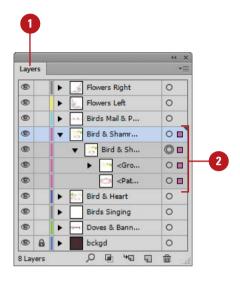


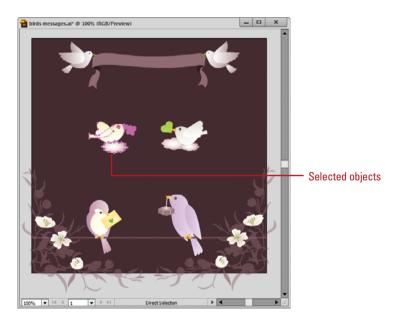
Selecting Objects with Layers

Select and Deselect Objects in a Layer

- 1 Select the Layers panel.
- To select objects in a layer use the following options:
 - Top-level. Click the Selection area for the top-level layer.
 - A selection square appears for each sublayer, group, and object on all the layers within it.
 - Individual Layers. Expand the top-level layer, and then click the Selection area for the layer that you want to select.
- 3 To deselect objects in the Layers panel use the following options:
 - Top-level. Shift+click the Selection square for the toplevel layer.
 - Individual All. Expand the toplevel layer, and then Shift+click the Selection square.

In an earlier chapter you learned how to select objects using selection tools on the Tools panel and the Select menu. You can also select objects using the Layers panel. When you click the Selection area to the right of the target circle for a specific layer, all the paths, groups, and objects on the layer become selected. A selection square appears next to that target circle. In addition, the target circle for each path and group becomes selected and ready for editing.



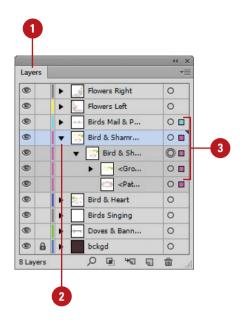


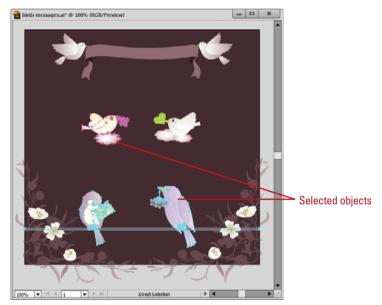
Select Multiple Objects on Different Layers

- 1 Select the Layers panel.
- 2 Expand the layers with the objects that you want to select in the Layers panel.
- 3 Click the selection area or target circle for the first object.
- 4 Shift+click the other individual group or object layers that you want to include in the selection.

The layers don't need to be adjacent to each other. They can be anywhere in the Layers panel.

To deselect a group or object layer, Shift+click the Selection square for the layer.





Arranging Layers and Objects

Arrange Layers and Objects in the Layers Panel

- 1 Select the **Layers** panel.
- Select the layers that you want to move.
- 3 Drag the selected layers up or down the list in the Layers panel.

As you drag, the pointer changes to a hand and a dark gray line appears.

The dark gray line indicates the new location of the layers when you release the mouse.

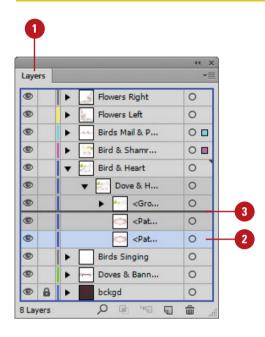
4 Release the mouse at the location where you want to move the layers.

Did You Know?

You can reverse the order of layers.

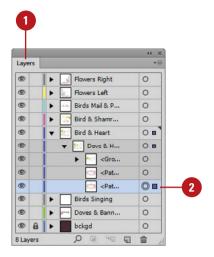
Select the Layers panel, select the layers you want to reverse in order, click the Options menu, and then click Reverse Order.

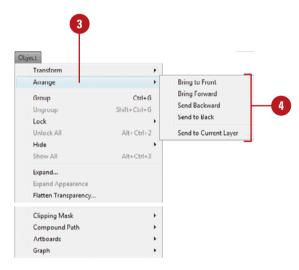
The layers in the Layers panel appear from top to bottom as they appear in the document window. The first layer (top-level layer) at the top of the Layers panel is the topmost layer in the document window. The last layer in the Layers panel is the bottommost layer in the document window. You can change the stacking order of the layers in the Layers panel. When you change the order in the Layers panel, the objects in the document window change too.

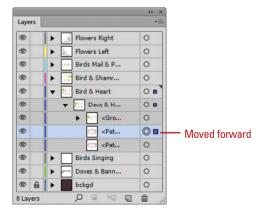


Arrange Objects and Layers Using an Arrange Command

- 1 Select the Layers panel.
- 2 Select the layers that you want to move.
- 3 Click the **Object** menu, and then point to **Arrange**.
- 4 Click one of the following commands:
 - Bring to Front. Moves the selected layers up to the top level
 - Bring Forward. Moves the selected layers up a level.
 - Send Backward. Moves the selected layers down a level.
 - Send to Back. Moves the selected layers down to the last level.
 - Send to Current Layer. Moves the selected layers to the current layer.







Duplicating Layers and Objects

Duplicate Objects and Layers in the Layers Panel

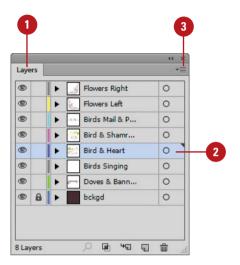
- Select the Layers panel.
- Select the layers that you want to duplicate.
 - Hold down the Ctrl (Win) or discovered (Mac) key, and then click to select multiple items.
- 3 Click the Options menu, and then click Duplicate "Layer Name."

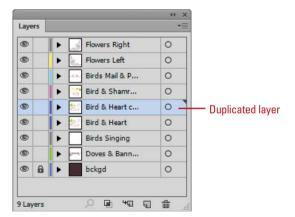
Did You Know?

You can duplicate a layer with the New Layer button. Drag the layer over the New Layer button and Illustrator creates an exact copy of the layer and appends the word copy at the end of the original layer name.

You can duplicate a layer by dragging a Selection square. Drag+Alt (Win) or Drag+Option (Mac) the Selection square up or down in the Layers panel to the location where you want to place the duplicate layers.

There are times when you will need a copy of a layer. Duplicating a layer is a simple process that creates a pixel-to-pixel copy of the selected layer. Once the copied layer is created, it becomes a separate image within the document. You can then begin to make changes to the new layer. Duplicating a layer gives you the ability to control each layer separately and to apply nondestructive effects to your image by making them on a copy of the image instead of the original.





Locking Layers and Objects

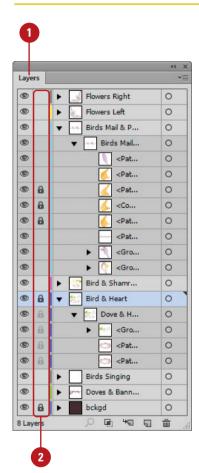
Lock and Unlock Objects and Layers in the Layers Panel

- 1 Select the Layers panel.
- 2 Use any of the following:
 - Lock/Unlock Individual. Click the edit (second) column for each layer that you want to lock or unlock.
 - Lock/Unlock Multiple. Click and drag the edit (second) column.
 - Lock/Unlock Top-Level. Click the edit (second) column for the top-level layer.
 - All the layers in the top-level are locked/unlocked.
 - Lock/Unlock Except One.
 Alt+click (Win) or Option+click
 (Mac) the edit (second) column for a top-level layer to lock/unlock all the other top-level layers except the one you clicked.

Did You Know?

You can lock and unlock objects using the Object menu. Click the Object menu, point to Lock, and then click Selection, All Artwork Above (objects that overlap the area of the selected object), or Other Layers (all layers other than the layer that contains a selected item or group).

When you don't want an object to be moved or modified, you can lock it in the Layers panel. When you lock a layer, the objects remain visible in the document window. When you click the edit (second) column in the Layers panel, a padlock icon appears, indicating the layer is locked. When you lock a layer, all the objects on the layer are locked, including all groups and sublayers. To unlock a layer, you simply click the padlock icon to remove it. You can lock/unlock individual layers, multiple layers, and top-level layers.



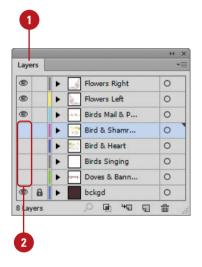
Showing and Hiding Layers and Objects

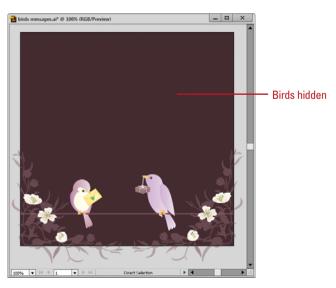
Show and Hide Objects and Layers in the Layers Panel

- 1 Select the **Layers** panel.
- 2 Use any of the following:
 - Show/Hide Individual. Click the visibility (first) column for each layer that you want to show or hide.
 - Show/Hide Multiple. Click and drag the visibility (first) column.
 - Show/Hide Top-Level. Click the visibility (first) column for the top-level layer.

All the layers in the top-level are shown/hidden.

◆ Show/Hide Except One. Alt+click (Win) or Option+click (Mac) the visibility (first) column for a top-level layer to show/hide all the other top-level layers except the one you clicked. When you have a lot of objects in the document window, it can be hard to work with them. In the Layers panel, you hide layers and objects to reduce the clutter and make it easier to work with the layers and objects that you want. When you click the visibility (first) column in the Layers, an eye icon appears indicating the layer is visible. To hide a layer, you simply click the eye icon to remove it. When you hide a top-level layer, all the objects within it are also hidden. The eye icons appear dimmed. You need to make the top-level layer visible to show all the objects within it. Hidden objects don't print and don't appear in the document window in either Preview or Outline views. When you save, close, and reopen your document, any hidden objects remain hidden until you show them.



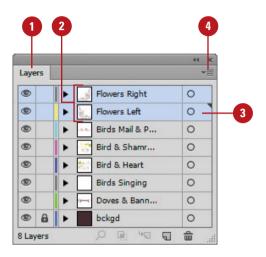


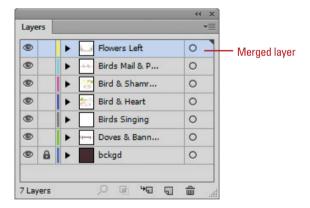
Merging Layers and Groups

Merge Layers and Groups in the Layers Panel

- 1 Select the Layers panel.
- Select two or more layers, sublayers, or groups that you want to merge.
 - Hold down the Ctrl (Win) or GR
 (Mac) key, and then click to select multiple items.
- 3 Click the last layer into which you want to merge the selected layers.
- 4 Click the Options menu, and then click Merge Selected.

If you have objects on multiple layers and want to consolidate them onto one layer, you can merge them together. You can merge two or more groups, or a combination of groups and sublayers (if they are both in the same top-level layer). However, you can't merge an object with another object. If a layer is locked or hidden, you can still use them in a merge. Before you use the Merge Selected command, it's a good idea to make a copy of your document as a backup to preserve a copy of the separate layers.





Moving Objects to a Layer

Move Objects to a New Layer

- 1 Select the Layers panel.
- 2 Select the layers that you want to move. The layers must all have the same indent level.
 - Hold down the Ctrl (Win) or as (Mac) key, and then click to select multiple items.
- 3 Click the **Options** menu, and then click **Collect in New Layer**.

Sublayers, groups, or objects are nested in a new sublayer within the same top-level layer.

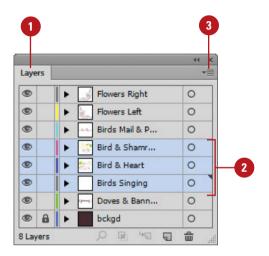
To rename the layer, double-click the layer name, enter or edit the name (New!), and then press Enter (Win) or Return (Mac).

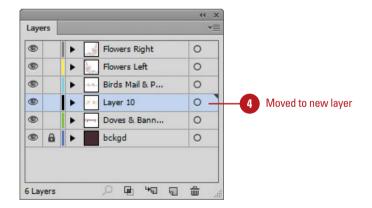
Did You Know?

You can paste objects between layers.

With the Paste Remembers Layers option, artwork is pasted into the layer from which it was copied, regardless of which layer is active in the Layers panel. This is useful when you want to paste artwork between documents and you want to automatically place it into a layer of the same name. If the destination document doesn't have a layer of the same name, Illustrator creates a new layer. In the Layers panel, click the Options menu, and then select Paste Remembers Layers.

With the Collect in New Layer command, you can move all the selected layers in the Layers panel into a new layer. You can select top-level layers, sublayers, groups, or objects. With the Release to Layers (Sequence) command, you can move objects or groups that are nested within a top-level layer into separate layers within the same layer. If you want to build an animation, you can use the Release to Layers (Build) command to create a sequence of objects that you can use to create the animation in a program such as Adobe Flash.





Release Objects to New Layers

- 1 Select the Layers panel.
- 2 Select the top-level layer, sublayer, or group (not an object layer) that you want to use.
- 3 Click the **Options** menu, and then click **Release to Layers** (**Sequence**).

Sublayers, groups, or objects are nested in a new sublayer within the same top-level layer.

To rename the layer, double-click the layer name, enter or edit the name (New!), and then press Enter (Win) or Return (Mac).

Did You Know?

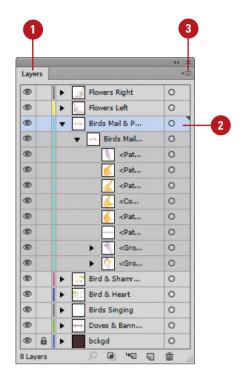
You can create objects for animation.

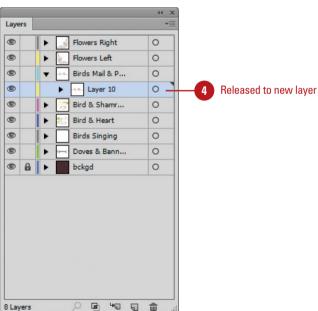
Select the Layers panel, select the toplevel layer, sublayer, or group (not an object layer) that you want to use, click the Options menu, and then click Release to Layers (Build).

After you separate your layers, you can use the Export command on the File menu to export your document layers to a Flash SWF file.

See Also

See "Exporting as a Flash Movie" on page 410 for more information on exporting an Illustrator document as a Flash SWF file.



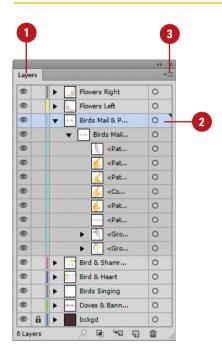


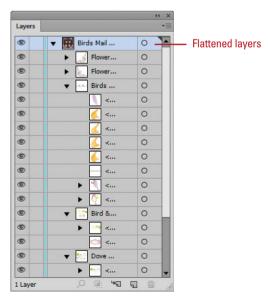
Flattening Layers

Flatten Layers in the Layers Panel

- 1 Select the **Layers** panel.
- 2 Select the top-level layer or a layer within it that you want to use as a new main layer for the document.
- 3 Click the **Options** menu, and then click **Flatten Artwork**.
 - If any of the layers are hidden, an alert appears, asking if you want to discard the hidden layers.
- 4 If prompted, click **Yes** to discard the hidden layers, or click **No** to preserve them.

The Flatten Artwork command allows you to flatten an entire document into one top-level layer with sublayers and groups nested within it. After you use the Flatten Artwork command, all objects remain editable and any appearances on layers are applied to all the objects in your document.





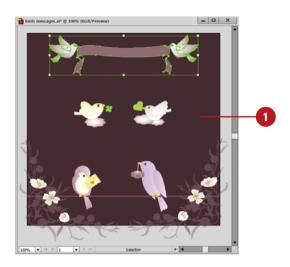
Locating Objects in the Layers Panel

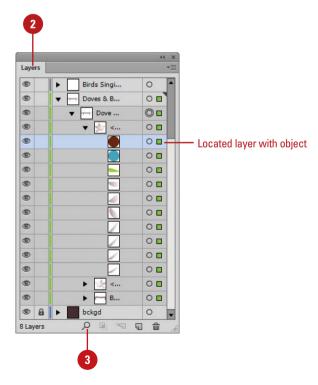
Locate an Object in the Layers Panel

- 1 Select the object that you want to find in the document window.
- 2 Select the **Layers** panel.
- 3 Click the Locate Object button (New!) on the Layers panel.
 - You can also click the Options menu, and then click Locate Object.

This command changes to Locate Layer if the Show Layers Only panel option is selected.

When the Layers panel contains a lot of layers, groups, and objects, it can be hard to find the one you want to work on, especially if the object is in a collapsed layer. All you need to do is select the object in the document that you want to find and then click the Locate Object button (New!) on the Layers panel or choose the Locate Object command on the Options menu.





Creating a Template Layer

Create a Template Layer

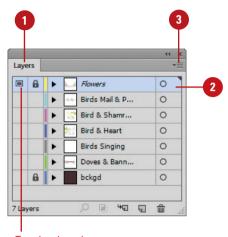
- 1 Select the Layers panel.
- Select the layers that you want to change into template layers.
- 3 Click the **Options** menu, and then click **Template** to select it.

The layer is locked and dimmed by 50%. A square with a border icon appears in the Visibility column to indicate a template layer.

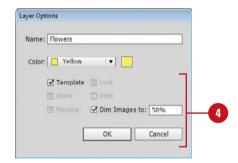
You can use Illustrator tools to trace the image.

- 4 To change options for the template layer, double-click the layer (not on the name), specify the options you want, and then click **OK**.
 - Template. Deselect to remove the template from the layer. The layer remains intact.
 - Dim Images to. Specify the transparency/opacity percentage you want for the image.
- 5 To remove the template from the layer, click the **Options** menu, and then click **Template** to deselect it.

If you want to trace an image, the best way to do it is to create a template layer, which dims the image and locks the layer. You can create a template layer in the Layers panel for an existing image, or in the Place dialog box. In the Place dialog box, you simply select the Template check box. In the Layers panel, you choose the Template option on the Options menu. After you create a template layer, you can change its properties.



Template layer icon



Viewing Layers as Outlines

View a Layer as an Outline

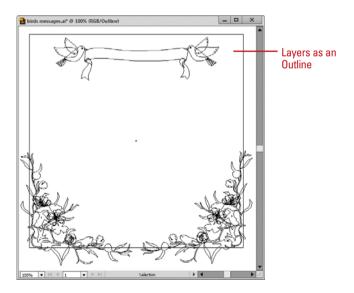
- 1 Select the Layers panel.
- 2 Ctrl-click (Win) or Selick (Mac) the eye icon for the layer in the Layers panel to toggle the view of the layer in Outline and Preview view.

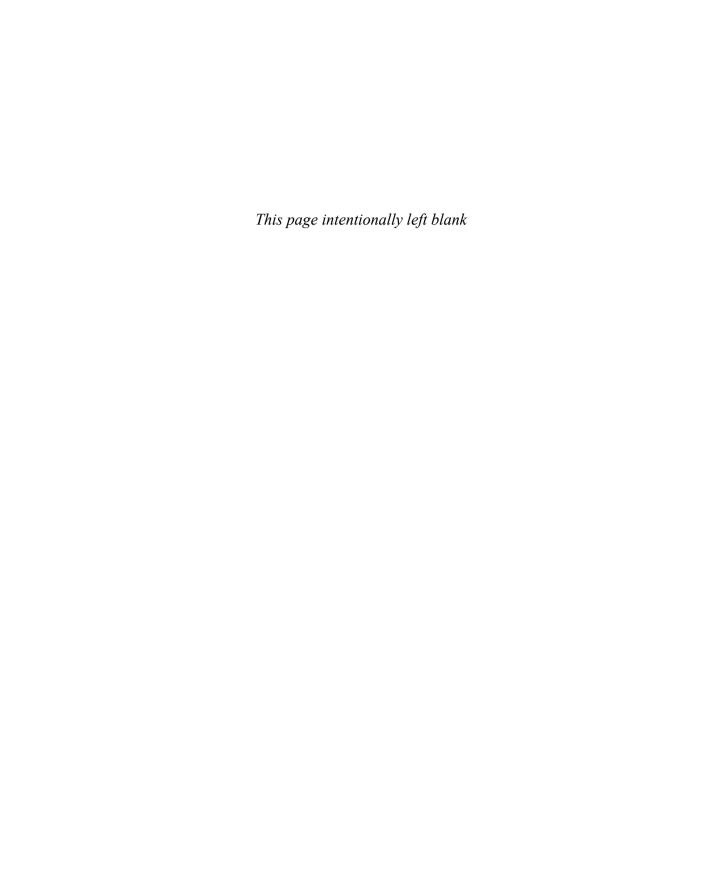
The eye icon in the Visibility column in the Layers panel appears without the center eye to indicate the layer appears in Outline view.

- ◆ Unselected Layers as Outlines.
 You can Alt+Ctrl-click (Win) or
 Option+deged-click (Mac) the eye
 icon for the selected layer in the
 Layers panel to toggle the view
 of the layer in Outline and
 Preview view for all unselected
 layers. You can also click the
 Options menu, and then click
 Outline Others.
- 3 To show all layers in Preview view, click the **Options** menu, and then click **Preview All Layers**.

The Outline command on the View allows you to view your entire document as an outline. If you only want to view the outline of a specific layer, you can use a shortcut in the Visibility column in the Layers panel. Viewing artwork in an outline displays only its paths without any paint attributes. For complex artwork, this speeds up the time it takes to redraw the screen when you make changes. When you finish viewing layers as outlines, you can return to Preview view, where you can view everything in color.







Working with Type

Introduction

Illustrator comes with 6 different type tools: Type, Area Type, Type on a Path, Vertical Type, Vertical Area Type, and Vertical Type on a Path. Three of the tools are used for horizontal type and the other three are used for vertical type. The functionality between the two types is the same; only the direction of the type differs.

Before you can work with type in Illustrator, you need to select it. You can select the entire type object or the characters in the type object. The Selection tool allows you to select both characters and their object, while the Direct Selection tool allows you to select just the characters in the type object or both characters and their object. You can also use the type tools to select only the characters in the type object, not the object itself. If you type, paste, or import more text than a type object can hold, an overflow symbol (a tiny red plus sign in a square) appears on the edge of the type object. You can reshape the type object to display the text or create a thread (link) to another type object. You can thread overflow text from one type object to a new or existing type object.

Illustrator provides two panels to modify characters and paragraphs. With the Character panel, you can change the font family (Arial or Times New Roman) and style (Italic, Bold, or Condensed), as well as change other type attributes, such as size, kerning, scale, tracking, leading, and language. With the Paragraphs panel, you can change type alignment, indenting, and before and after spacing.

When integrating artwork and graphics with your type, you can wrap the text in a type object around another object, such as a graphic. Another type effect, Create Outlines, allows you to convert characters in a type object into a separate object with a path, which you can use as a mask object.

What You'll Do

Use Type Tools

Create Type

Create Area and Path Type

Modify Type on a Path

Import Text

Select Type

Copy or Move Type

Work with Overflow Type

Change Fonts and Font Size

Lead, Kern, and Track Type

Scale and Rotate Type

Format Type

Anti-alias Type

Align Paragraphs

Indent and Space Paragraphs

Set Tabs

Work with Hyphenation

Work with Type Styles

Use Smart Punctuation

Work with Glyphs and OpenType Fonts

Work with Justification

Wrap Type Around an Object

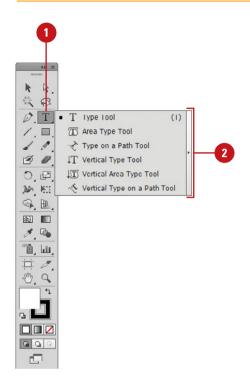
Create Type Outlines

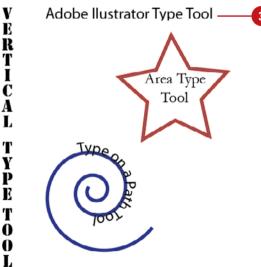
Using Type Tools

Use Type Tools

- 1 Click the Type tool slot on the Tools panel.
 - Click the arrow on the right of the Type tools menu to create a detachable panel.
- Click one of the following Type tools:
 - Type. Creates type that is not associated with a path. You can use it to enter type along the edge of an open path or inside a closed path.
 - Area Type. Creates type inside an open or closed path.
 - Type on a Path. Creates type along the outer edge of an open or closed path.
 - Vertical Type. Creates vertical text and works like the Type tool.
 - Vertical Area Type. Creates vertical type inside an open or closed path.
 - Vertical Type on a Path. Creates vertical type along the outer edge of an open or closed path.
- 3 Click a blank area of the artboard, and then type some text.
 - For some Type tools, you can also draw a text box to create the size you want.

Illustrator comes with 6 different type tools: Type, Area Type, Type on a Path, Vertical Type, Vertical Area Type, and Vertical Type on a Path. Three of the tools are used for horizontal type and the other three are used for vertical type. The functionality between the two types is the same; only the direction of the type differs.





Creating Type

Create Type

- Select the **Type** or **Vertical Type** tool on the Tools panel.
 - Click the arrow on the right of the Type tools menu to create a detachable panel.
- Click a blank area of the artboard to create a type object.

A flashing insertion point appears in the type object.

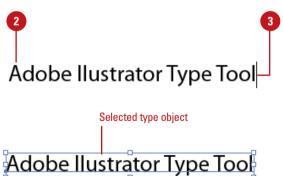
- 3 Type some text. Press Enter (Win) or Return (Mac) to start a new line.
 - To keep the type tool selected so you can create more type objects, hold down Ctrl (Win) or
 (Mac), click outside the current type object, release the key, and then type more text.
- 4 Select a selection tool or select the type tool again.

Did You Know?

You can create vertical type with the regular Type tool and horizontal type with the Vertical Type tool. Select the type tool you want, hold down the Shift key, click or drag a rectangle, and then type some text.

Illustrator comes with 6 different type tools: Type, Area Type, Type on a Path, Vertical Type, Vertical Area Type, and Vertical Type on a Path. Three of the tools are used for horizontal type and the other three are used for vertical type. The functionality between the two types is the same; only the direction of the type differs. The Type and Type Vertical tools create type known as **point type**, that is not associated with a path. However, you can also use these tools to enter type along the edge of an open path or inside a closed path.





Creating Type in a Text Box

Create Type in a Text Box

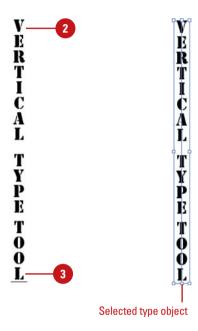
- 1 Select the **Type** or **Vertical Type** tool on the Tools panels.
 - Click the arrow on the right of the Type tools menu to create a detachable panel (optional).
- 2 Drag to create a rectangle text box the size that you want.

A flashing insertion point appears in the type object.

- 3 Type some text. The text automatically wraps to the shape of the type object. Press Enter (Win) or Return (Mac) to start a new line.
 - To keep the type tool selected so you can create more type objects, hold down Ctrl (Win) or ⊚ (Mac), click outside the current type object, release the key, and then type more text.
 - If the overflow symbol appears, deselect the type object, select the **Direct Selection** tool on the Tools panel, and then drag a corner to reshape the type object.
- 4 Select a selection tool or select the type tool again.

With the Type and Vertical Type tools, you can create a rectangle text box any size that you want. When you type text in the type object, it automatically wraps to the size of the box. If you type more text than the box can hold, an overflow symbol (a tiny red plus sign in a square) appears on the edge of the rectangle box. You can reshape the type object to display the text or create a thread (link) to another type object.





Creating Area Type

Create Area Type Inside an Object

- Select the Area Type or Vertical
 Area Type tool on the Tools panels.
 - Click the arrow on the right of the Type tools menu to create a detachable panel (optional).
 - If you want to add type to a closed path, you can also use the Type or Vertical Type tools.
- 2 Click on the edge of the path (closed or open) to which you want to add type.

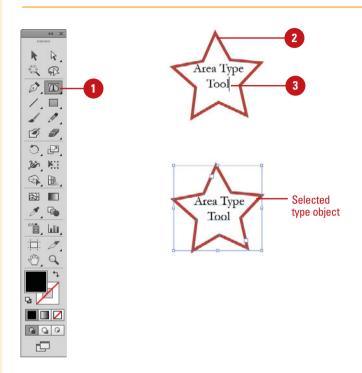
A flashing insertion point appears in the type object. Any fill or stroke on the object is removed.

3 Type some text. The text automatically wraps to the shape of the type object. Press Enter (Win) or Return (Mac) to start a new line.

The type appears inside the object and conforms to its shape.

- To keep the type tool selected so you can create more type objects, hold down Ctrl (Win) or (Mac), click outside the current type object, release the key, and then type more text.
- If the overflow symbol appears, deselect the type object, select the **Direct Selection** tool on the Tools panel, and then drag a corner to reshape the type object.
- 4 Select a selection tool or select the type tool again.

With the Area Type and Vertical Area Type tools, you can add type inside the path of any object or inside an open path. When you add type with these type tools, the object is converted to a type object. So, if you want to preserve the original object, you need to make a copy of it before you add type.



For Your Information

Setting Area Type Options

The Area Type Options dialog box allows you to change the width and height of the type object, add rows and columns, specify text flow in the rows and columns, change the inset spacing between area type and the edge of its type object, and adjust the first line of the type object. Select an area type object, click the Type menu, click Area Type Options, specify the options that you want, and then click OK.

Creating Path Type

Create Type on a Path

- 1 Select the Type on a Path or Vertical Type on a Path tool on the Tools panel.
 - Click the arrow on the right of the Type tools menu to create a detachable panel (optional).
 - If you want to add type to a open path, you can also use the Type or Vertical Type tools.
- Click on the edge of the path (closed or open) to which you want to add type.

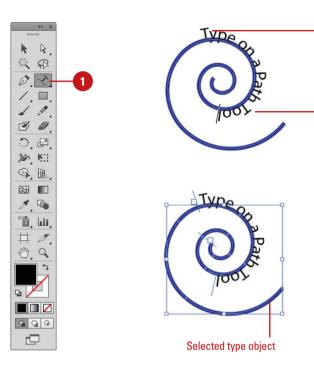
A flashing insertion point appears in the type object. Any fill or stroke on the object is removed.

3 Type some text. The text automatically wraps to the shape of the type object. Don't press Enter (Win) or Return (Mac).

The type appears along the edge of the object, conforms to its shape, and removes the fill and stroke.

- To keep the type tool selected so you can create more type objects, hold down Ctrl (Win) or ⊚ (Mac), click outside the current type object, release the key, and then type more text.
- If the overflow symbol appears, deselect the type object, select the **Direct Selection** tool on the Tools panel, and then drag a corner to reshape the type object.
- 4 Select a selection tool or select the type tool again.

With the Type on a Path and Vertical Type on a Path tools, you can add type along the inner or outer edge of a path. You can place the text on either side of the path, but not on both. If you initially place it on the inner part of the path, you can always move it to the outer part of the path later.



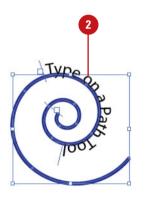
Move Type on a Path

- 1 Select the **Selection** tool or **Direct**Selection tool on the Tools panel.
- Click on the type.
 Center, left, and right brackets
 - appear around the type.
- 3 Drag the bracket (not the square) to adjust the position of the type on a path.
 - Swap Sides. Drag the Center bracket to the other side to change the inner/outer position of the type along the path.
 - Left. Drag to position the left side (or starting point) of the type along the path.
 - Center. Drag left or right to position the type along the path.
 - Right. Drag to position the right side (or ending point) of the type along the path.
 - If the overflow symbol appears, deselect the type object, select the **Direct Selection** tool on the Tools panel, and then drag a corner to reshape the type object.
- 4 Select a selection tool or select the type tool again.

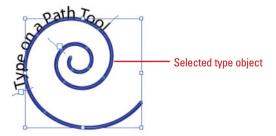
Did You Know?

You can change type case. To help you format sentences correctly and change capitalization, you can change text case. Select the type that you want to change, click the Type menu, point to Change Case, and then click UPPERCASE, lowercase, Title Case, or Sentence case.









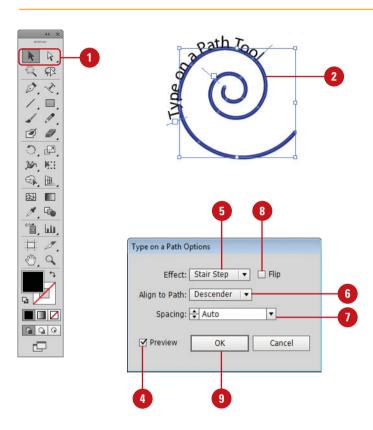
Chapter 8

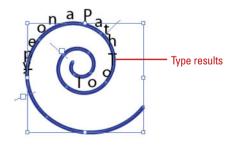
Modifying Type on a Path

Modify Type on a Path

- 1 Select the **Selection** tool or **Direct Selection** tool on the Tools panel.
- Click on the type along the path.
 Center, left, and right brackets appear around the type.
- 3 Click the Type menu, point to Type on a Path, and then click Type on a Path Options.
- 4 Select the **Preview** check box to view your changes in the document window.
- 5 Click the Effect list arrow, and then select an effect: Rainbow, Skew, 3D Ribbon, Stair Step, or Gravity.
 - You can also select these effect options from the Type on a Path submenu on the Type menu.
- 6 Click the Align to Path list arrow, and then select an alignment option: Baseline, Ascender, Descender, or Center.
- 7 Specify a spacing value (-36 to 36). The default is Auto.
- 8 Select or deselect the **Flip** check box to position the type.
- 9 Click **OK**.

After you create type on a path, you can change the alignment, shape, and orientation of the type with the Type on a Path dialog box. You can apply type effects, which include Rainbow, Skew, 3D Ribbon, Stair Step, or Gravity, as well as change alignment and spacing. You can even flip the type on the path. Experiment with the effects and alignment options to create some unique type.





Importing Text

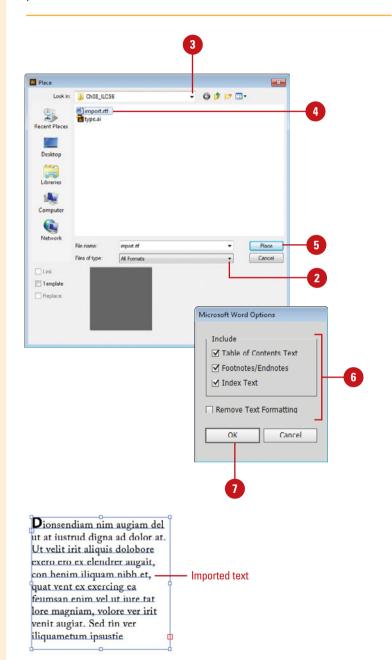
Import Text

- Click the File menu, and then click Place.
- 2 Click the Files of Type (Win) or Enable (Mac) list arrow, and then click All Formats or select a text format:
 - Text (TXT). Plain text.
 - Microsoft Word (DOC).
 Microsoft Word 2003 or earlier.
 - Microsoft Word (DOCX).
 Microsoft Word 2007 or later.
 - Microsoft RTF (RTF). Rich Text Format.
- 3 Navigate to the drive or folder location with the text file you want to import.
- Click the text file you want to place.
- Click Place.

For some imported files, a dialog box appears, asking for placement options.

- 6 Select the options you want.
- 7 Click **OK**.

If you have text in a document that you want to use in your artwork, you can use the Place command to import it into your document. You can import text from the following text formats: plain text (TXT), Rich Text Format (RTF), or Microsoft Word (DOC or DOCX). When you import text using the Place command, Illustrator creates a new type object and places the text in it.



Selecting Type

Select Type and its Object

- Select the **Selection** tool on the Tools panel.
- 2 Use the appropriate selection method:
 - Point Type. Click on the type.
 - Path Type. Click on the path.
 - Area Type. Click on the type.
 For a type object with a fill, click the fill, a character, the baseline, or outer path.

Before you can work with type in Illustrator, you need to select it. You can select the entire type object or the characters in the type object. The Selection tool allows you to select both characters and their object, while the Direct Selection tool allows you to select just the characters in the type object or both characters and their object. You can also use the type tools to select only the characters in the type object, not the object itself.





Select a Type Object and Not the Type

- Select the **Direct Selection** tool on the Tools panel.
- Click the edge of a path or area type object.

Did You Know?

You can show hidden characters. If it's hard to see spaces and paragraphs, you can show hidden characters to make them easier to see. Click the Type menu, and then click Show Hidden Characters.





Select and Deselect Type and Not its Object

- 1 Select any of the Type tools on the Tools panel.
- Do any of the following to select:
 - Text. Drag the I-beam cursor to select and highlight a word or line of type.
 - Word. Double-click a word of type.
 - Paragraph. Triple-click a paragraph of type.
 - All Text. Click to place the insertion point, click the Select menu, and then click All.

TIMESAVER Click in a type object, press Ctrl+A (Win) or

All HA (Mac) to select all the text.

3 To deselect the type, Ctrl+click (Win) or *+click (Mac) outside the type object.

Did You Know?

You can use Smart Guides to help you select text. Click the View menu, and then click Smart Guides to turn the feature on. Click the Edit (Win) or Illustrator (Mac), point to Preferences, click Smart Guides, select the Object Highlighting check box, and then click OK.







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Copying or Moving Type

Copy or Move Text from Another Program

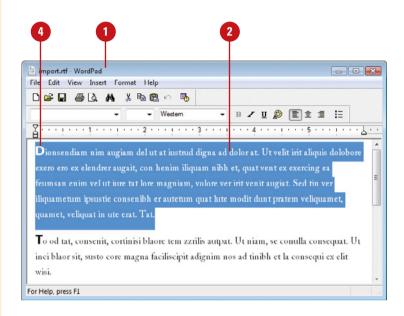
- 1 Open the other program, such as Microsoft Word.
- Select the text that you want to copy or move, and then use commands to copy or cut (move) the text.
- Switch back to Illustrator.
- 4 To place the text into an existing type object, click in a type object to place the insertion point.
- 5 Click the Edit menu, and then click Paste.

TIMESAVER Ctrl+V (Win) or & +V (Mac).

Did You Know?

You can delete empty type objects from a document. Click the Object menu, point to Path, click Clean Up, select the Empty Text Paths check box, and then click OK.

If you have text in a document that you want to use in your artwork, you can copy and paste it into your Illustrator document. You can place the text into an existing type object or have Illustrator create one for you. In Illustrator, you can copy type in a type object or copy individual characters, and then paste them into another Illustrator artboard or document, or into another program, such as Flash, Photoshop, or a word processing program.



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Copy Type and its Object

- 1 Select the **Selection** tool on the Tools panel.
- Select the type that you want to copy.
- 3 Click the Edit menu, and then click Copy.

TIMESAVER Ctrl+C (Win) or Sel+C (Mac).

- 4 Click in another Illustrator artboard or document.
 - You can also switch to another program and paste the text.
- 5 Click the Edit menu, and then click Paste, Paste in Front, or Paste in Back.

TIMESAVER Ctrl+V (Win) or **+V (Mac).

Copy or Move Type from One Object to Another

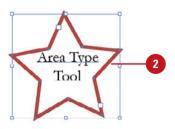
- 1 Select the **Type** or **Vertical Type** tool on the Tools panel.
- Select the type that you want to copy or move.
- 3 Click the Edit menu, and then click Copy or Cut (move).

TIMESAVER Ctrl+C (Win) or HC (Mac) to copy or Ctrl+X (Win) or H+X (Mac) to cut.

- 4 To place the text into an existing type object, click in a type object to place the insertion point.
- 5 Click the Edit menu, and then click Paste.

TIMESAVER Ctrl+V (Win) or **+V (Mac).

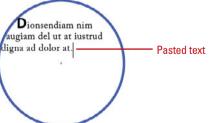




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Working with Overflow Type

Thread Overflow Type to Another Object and Show Text Threads

- 1 Select the **Selection** tool on the Tools panel.
- Select the type object with the overflow type.
- 3 Click the Out Port icon on the selected object.

TIMESAVER Double-click an Out Port icon with the Selection tool to create a linked copy of the type object.

The pointer changes to the Loaded Text pointer.

4 To create a new type object for the overflow text, click a blank area or drag to create a type object.

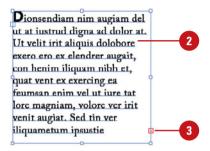
To use an existing type object, position the pointer over an existing type object, and then click the object's path. A fill and stroke of None is applied to the path.

Overflow text from the first type object threads to the second type object.

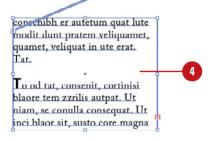
5 To display a text thread between type objects, select a threaded type object, click the **View** menu, and then click **Show Text Threads**.

If you type, paste, or import more text than a type object can hold, an overflow symbol (a tiny red plus sign in a square) appears on the edge of the type object. You can reshape the type object to display the text or create a thread (link) to another type object. You can thread overflow text from one type object to a new or existing type object. After you create a thread between two or more type objects, you can use the Show Text Threads command on the View menu to display the thread connection. If you no longer want to want to thread two or more type objects, you can unthread or disconnect them. When you unthread type objects, the text in the type object remains in the first type object (it may still overflow). When you disconnect type objects, the text in the type objects remains where it is.





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Thread

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Unthread Type Objects

- Select the Selection tool on the Tools panel.
- Select a threaded type object.
- Double-click the In Port or Out Port icon on the selected object.



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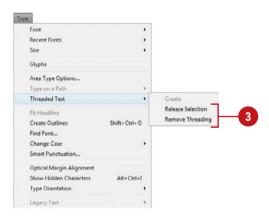
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Unthread or Disconnect a Type Object

- Select the Selection tool on the Tools panel.
- Select a threaded type object that you want to release or disconnect.
- Do one of the following:
 - Unthread. Click the Type menu, point to Threaded Text, and then click Remove Threading.
 - **Disconnect.** Click the **Type** menu, point to Threaded Text, and then click Release Selection.





Changing Fonts

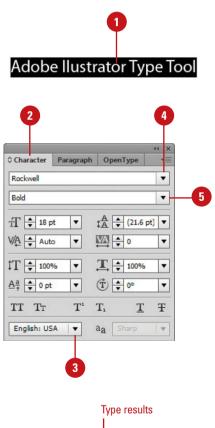
Change Font Family and Style

- 1 Select any type tool, and then select the type that you want to change.
 - You can also select the Selection tool, and then click the type object.
- Select the Character panel.
 - Click the Window menu, point to Type, and then click
 Character.
- 3 To change the type language, click the **Language** list arrow, and then select a language.
 - To show all options, click the Options menu, and then click Show Options.
- 4 Click the Font Family list arrow, and then select a font.
 - To see the font family in the style of the font, click the Type menu, point to Font, and then select a font.

TIMESAVER To reuse a recent font, click the Type menu, point to Recent Font, and then select a font.

5 Click the **Font Style** list arrow, and then select a font style, such as Italic, Bold, or Condensed.

A **font** is a collection of alphanumeric characters that share the same typeface, or design, and have similar characteristics. With the Character panel, you can change the font family (Arial or Times New Roman) and style (Italic, Bold, or Condensed), as well as change other type attributes, such as size, kerning, scale, tracking, leading, and language. You can also change these and other attributes by using the Type menu and Control panel. You can access the Character panel from the Window menu and the Control panel. As you can see, there are several ways to change font attributes. You can use any one of them. We'll focus on the Character panel. If you want to know which fonts are currently being used in your document or find/change a font in your document, the Find Font dialog box can help you do the job.





Find or Change a Font

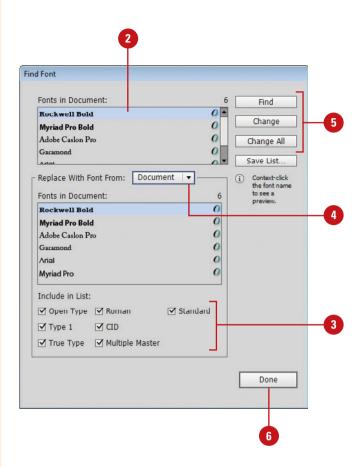
Click the **Type** menu, and then click **Find Font**.

The fonts in the top list are the ones currently used in your document. The list at the bottom displays fonts in your document or fonts on your computer, depending on your setting.

- To find a specific font in your document, select it in the top list.
- 3 Select the check boxes at the bottom to specify the font attributes that you want to find.
- 4 To replace the font in the top list, select a font in the bottom list. Click the **Replace With Font From** list arrow, and then click System to show all the fonts on your computer.
- 5 Click Find to display the first instance of the font, and then click Change to replace it, or click Change All to replace all uses of the font in your document.
- When you're done, click **Done**.

Did You Know?

You can change the type language. Select the Character panel, click the Language list arrow (available when you Show Options on the Options menu), and then select the language that you want to use. You can also select type using any type tool, and then change the type language to something else.



Changing Font Size

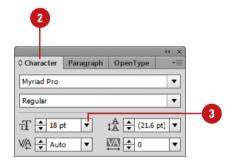
Change Font Size

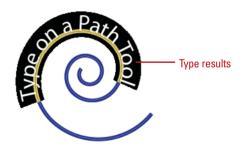
- 1 Select any type tool, and then select the type that you want to change.
 - You can also select the Selection tool, and then click the type object.
- 2 Select the Character panel.
 - Click the Window menu, point to Type, and then click
 Character.
- 3 Enter a font point size, or click the Font Size list arrow, select a font size, and then press Enter (Win) or Return (Mac) to apply the value.
 - You can also hold down Ctrl+Shift (Win) or (38)+Shift (Mac), and then press > to increase the point size or press
 to decrease the point size.

The type increases or decreases by the Size/Leading value set in Type preferences.

Use Ctrl+Alt-Shift (Win) or + Option+Shift (Mac) to change the point size 5 sizes at a time. After setting the font family and style, the next attribute to set is the font size. The size of each font character is measured in points (a point is approximately 1/72 of an inch). The font size can range from 6 points to 72 points and beyond with the right type of font. Open or TrueType fonts can be scaled to any size and still look and print well. Bitmap (screen fonts), fonts, on the other hand, cannot be scaled and you need to use the available sizes to print well. However, bitmap fonts are the best choice for commercial print jobs. An "O" appears next to an OpenType font, a "TT" appears next to a TrueType font, and an "a" appears next to a bitmap font on the Font submenu.







Leading Type

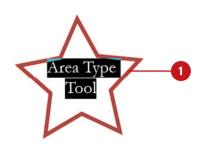
Change Type Leading

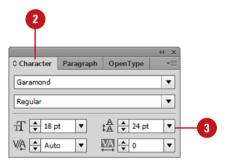
- 1 Select any horizontal type tool, and then select the type that you want to change.
 - You can also select the Selection tool, and then click the type object.
- Select the Character panel.
 - Click the Window menu, point to Type, and then click Character.
- 3 Enter a leading point size, or click the **Leading** list arrow, and then select a leading size. Press Enter (Win) or Return (Mac) to apply the value.
 - You can also hold down Alt (Win) or Option (Mac), and then press the down arrow to increase the point size or press the up arrow to decrease the point size.

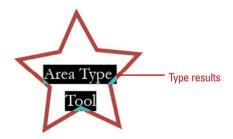
The type increases or decreases by the Size/Leading value set in the Type preferences.

To shift characters up or down from the baseline, enter a baseline value, or click the **Baseline** list arrow, and then select a baseline value. A positive size adds space while a negative number removes space. Press Enter (Win) or Return (Mac) to apply the value.

Leading is the distance from the baseline of one line to the baseline of the next line and is measured in points. Each line of type can have a different leading. You can specify a specific setting or use Auto, which is a percentage of the largest type size on each line. Leading is applied to horizontal type. If you want to change vertical spacing in type, you need to adjust horizontal tracking.







Kerning Type

Change Type Kerning

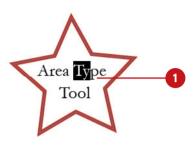
- Select any type tool, and then click between the two characters of type that you want to change the distance between.
 - You can also select the Selection tool, and then click the type object.
- Select the Character panel.
 - Click the Window menu, point to Type, and then click Character.
- 3 Enter a kerning size, or click the Kerning list arrow, and then select a kerning size. A positive size adds space while a negative number removes space. Press Enter (Win) or Return (Mac) to apply the value.
 - You can also hold down Alt (Win) or Option (Mac), and then press the right arrow to increase the point size or press the left arrow to decrease the point size.

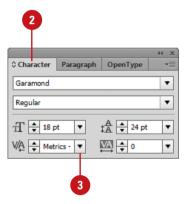
The type increases or decreases by the Tracking value set in the Type preferences.

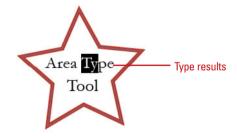
Did You Know?

You can fit headline type to its object. Select any type tool, select or click in a single-line paragraph of area type, click the Type menu, and then click Fit Headline.

Kerning is the amount of space between each individual character that you type. Sometimes the space between two characters is larger than others, which makes the word look uneven. You can use the Character panel to change the kerning setting for selected characters. You can expand or condense character spacing to create a special effect for a title, or realign the position of characters to the bottom edge of the text—this is helpful for positioning copyright or trademark symbols.







Tracking Type

Change Type Tracking

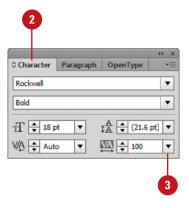
- 1 Select any type tool, and then select the type that you want to change.
 - You can also select the Selection tool, and then click the type object.
- Select the Character panel.
 - Click the Window menu, point to Type, and then click Character.
- 3 Enter a tracking size, or click the Tracking list arrow, and then select a tracking size. A positive size adds space while a negative number removes space. Press Enter (Win) or Return (Mac) to apply the value.
 - You can also hold down Alt (Win) or Option (Mac), and then press the right arrow to increase the point size or press the left arrow to decrease the point size.

The type increases or decreases by the Tracking value set in the Type preferences.

Tracking is the adjustment of space between three or more characters. Typically, you'll track a line of type or a few words, depending on the length and design application. This is useful for creating specialized type for a caption or short heading. To adjust space between two characters, kerning is the best choice. To adjust tracking between characters, you need to select them first and then set the Tracking option in the Character panel.

Adobe llustrator Type Tool





Adobe llustrator Type Tool

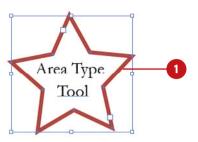
Type results

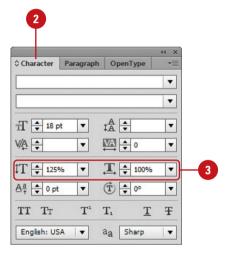
Scaling Type

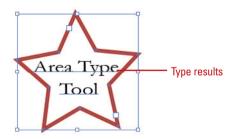
Change Type Scaling Horizontally or Vertically

- 1 Select any type tool, and then select the type that you want to change.
 - You can also select the Selection tool, and then click the type object.
- Select the Character panel.
 - Click the Window menu, point to Type, and then click Character.
 - To show all options, click the Options menu, and then click Show Options.
- 3 Enter a horizontal or vertical percentage, or click the Horizontal Scale or Vertical Scale list arrow, and then select a percentage. Press Enter (Win) or Return (Mac) to apply the value. Other ways of scaling text include:
 - To scale a type object, select the object, double-click the Scale tool on the Tools panel, select the Non-Uniform option, specify a Horizontal and Vertical percentage, and then click OK.
 - To scale a type object, select the object, select the Free Transform tool on the Tools panel, and then drag a side handle on the bounding box.

Scaling allows you to make type wider or narrower for horizontal type and taller or shorter for vertical type. You can use the Horizontal Scale and Vertical Scale options in the Character panel to modify type. If the scaling doesn't look quite right, you can always use the Undo command to reverse it.





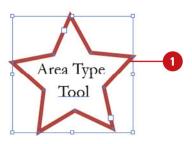


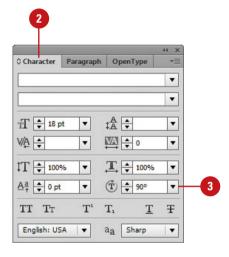
Rotating Type

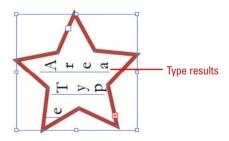
Rotate Type

- 1 Select any type tool, and then select the type that you want to change.
 - You can also select the Selection tool, and then click the type object.
- Select the Character panel.
 - Click the Window menu, point to Type, and then click Character.
 - To show all options, click the Options menu, and then click Show Options.
- 3 Enter a rotation value, or click the Character Rotation list arrow, and then select a rotation value. Press Enter (Win) or Return (Mac) to apply the value.
 - Rotate Horizontal or Vertical.
 Click the Type menu, point to
 Type Orientation, and then click
 Horizontal or Vertical.
- Drag the bracket (not the square) to adjust the position of the type on the path.

After you create type, you can rotate text characters or the entire text block to a custom angle. You change the custom angle in the Character panel, which is available on the Type submenu on the Window menu. For text blocks, you can also rotate them horizontally or vertically by using the Horizontal or Vertical command on the Type Orientation submenu on the Type menu.





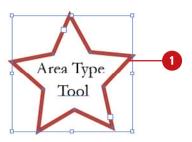


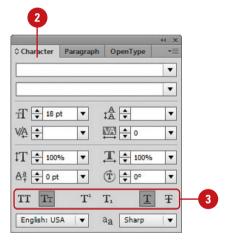
Formatting Type

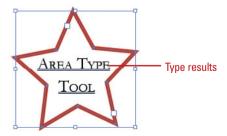
Format Type

- 1 Select any type tool, and then select the type that you want to change.
 - You can also select the Selection tool, and then click the type object.
- 2 Select the Character panel.
 - Click the Window menu, point to Type, and then click Character.
 - To show all options, click the Options menu, and then click Show Options.
- 3 Select any of the following formatting options:
 - All Caps. Click to format type with all caps (New!).
 - Small Caps. Click to format type with small caps (New!).
 - Superscript. Click to format type that is raised above the baseline (New!). For example, 1st.
 - Subscript. Click to format type that is dropped below the baseline (New!). For example, H₂0.
 - Underline. Click to format type with an underline.
 - Strikethrough. Click to format type with a line through it.

In addition to changing the font type and size, you can also apply formatting to type. The formatting options include: All Caps (New!), Small Caps (New!), Superscript (New!), Subscript (New!), Underline, and Strikethrough. You can access these formatting options on the Character panel when you show all options. You can also access these formatting options on the Options menu.







Anti-aliasing Type

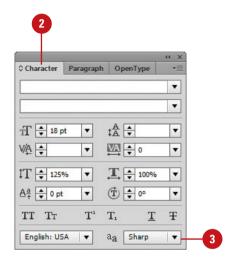
Set a Text Box to Anti-Alias Text

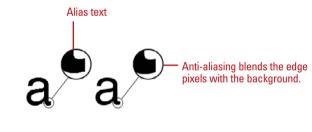
- 1 Select any type tool, and then select the type that you want to change.
 - You can also select the Selection tool, and then click the type object.
- 2 Select the Character panel.
 - Click the Window menu, point to Type, and then click
 Character.
 - To show all options, click the Options menu, and then click Show Options.
- Click the Anti-Alias list arrow, and then select one of the following:
 None, Sharp, Crisp, or Strong.

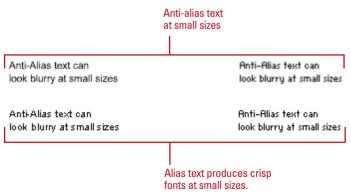
Did You Know?

You can set anti-aliasing options when you export text to graphic formats. When you export text to BMP, PNG, Targa, JPEG, or TIFF formats, you can set the following anti-aliasing options: None, Art Optimized, or Type Optimized. These options are also available in the Save For Web dialog box.

Anti-aliasing affects the pixels on the edge of text by allowing them to blend in with the background. It is a crucial feature when working with text as it makes it appear smoother and more integrated. The drawback with anti-aliasing is that at smaller font sizes the text can appear blurry. To avoid this problem, use sans serif text, such as Helvetica or Arial, and don't use bold and italic. You apply anti-aliasing to text boxes instead of individual characters. The anti-aliasing settings are saved along with the document and supported for PDF, AIT, and EPS formats.





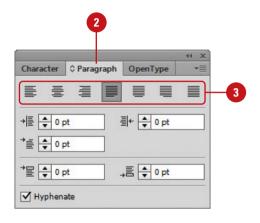


Aligning Paragraphs

Align Paragraphs

- Select any type tool, and then click in a paragraph or select multiple paragraphs that you want to align.
 - You can also select the Selection tool, and then click the paragraph.
- Select the Paragraph panel.
 - Click the Window menu, point to Type, and then click Paragraph.
- Use any of the following alignment buttons on the panel:
 - Alian Left, Alian Center, or Alian Right, Click these buttons to align paragraph type left, center, or right.
 - Justify Left, Center, or Right. Click these buttons to justify the paragraph text with only the last line aligned left, center, or right.
 - Justify. Click to justify all lines.

When you press the Enter (Win) or Return (Mac) in a type object, Illustrator creates a paragraph. You can use the Paragraph panel to align and indent paragraphs in your document. At the top of the Paragraph panel is a set of buttons that you can use to align text in one or more paragraphs. The panel includes the typical options to align: left, center, right and justify. However, it also includes options to justify with only the last line aligned left, center, or right.



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Center aligned

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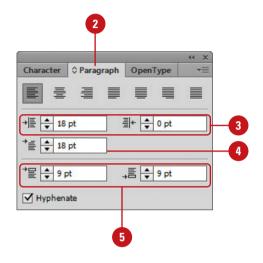
Justified

Indenting and Spacing Paragraphs

Indent and Space Paragraphs

- 1 Select any type tool, and then click in a paragraph or select multiple paragraphs that you want to change.
 - You can also select the Selection tool, and then click the paragraph.
- 2 Select the Paragraph panel.
 - Click the Window menu, point to Type, and then click Paragraph.
- 3 Enter a Left Indent and/or Right Indent value or use the up and down arrows to specify one. Press Enter (Win) or Return (Mac) to apply the value.
- To create a first-line indent, enter a First-Line Indent value or use the up and down arrows to specify one. Press Enter (Win) or Return (Mac) to apply the value.
 - To create a hanging indent, enter a negative value in the First-line Left Indent box.
- 5 To add spacing between paragraphs, enter a Space Before Paragraph and/or Space After Paragraph value or use the up and down arrows to specify one. Press Enter (Win) or Return (Mac) to apply the value.

Quickly indent lines of text to precise locations from the left or right margin with the horizontal ruler. Indent the first line of a paragraph (called a **first-line indent**) as books do to distinguish paragraphs. Indent the second and subsequent lines of a paragraph from the left margin (called a **hanging indent**) to create a properly formatted bibliography. Indent the entire paragraph any amount from the left and right margins (called **left indents** and **right indents**) to separate quoted passages. In addition to indenting paragraphs, you can also set the spacing you want before or after a paragraph.



Left Indent

First-Line Indent

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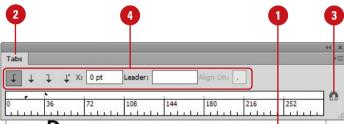
Right Indent

Setting Tabs

Set Tabs

- 1 Select any type tool, and then click to place the insertion point in a type object.
- 2 Select the Tabs panel.
 - Click the Window menu, point to Type, and then click Tabs.
 - To use the default tabs, press the tab key to shift the text to the next default tab stop.
- To move the panel next to the text, click the **Position Panel Above**Text button on the panel.
- Do any of the following:
 - Insert. Click one of the tab stop buttons, and then click in the ruler where you want to place it. You can also enter a number in the X box to insert a tab at an exact position.
 - Move. Drag the tab stop left or right or enter an exact position in the X box.
 - Delete. Drag a tab stop down off the ruler.
 - Leader. Enter a character that repeats in the tabbed space, such as a period.
 - Align On. Enter a character that is used with the Decimal tab, such as a decimal point.

In your document, **tabs** set how text or numerical data is aligned in relation to the document margins. A **tab stop** is a predefined stopping point along the document's typing line. Default tab stops are set every half-inch, but you can set multiple tabs per paragraph at any location. Choose from four types of text tab stops: left, right, center, and decimal (for numerical data). In the Tabs panel, you can view a ruler with the current tab setting for the selected type and add, move, or delete tab stops. When you press the Tab key with the insertion point, the text shifts to the next tab stop.



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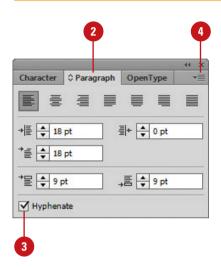
To od tat, consenit, cortinisi blaore tem zzrilis autpat. Ut niam, se conulla consequat. Ut inci blaor sit, susto core magna faciliscipit adignim

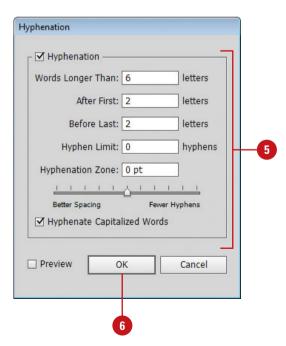
Working with Hyphenation

Change Hyphenation Options

- 1 Select any type tool, and then select the type that you want to hyphenate.
- Select the Paragraph panel.
- 3 To enable hyphenation, select the **Hyphenate** check box.
- 4 Click the **Options** menu, and then click **Hyphenation**.
- 5 Specify the following options:
 - Words Longer Than. Enter the minimum number of characters a word must have before hyphens are added.
 - After First. Enter the minimum number of characters that can be inserted before a hyphen.
 - Before Last. Enter the minimum number of characters that can be inserted after a hyphen on the next line.
 - Hyphen Limit. Enter the maximum number of hyphens in a row (0-25).
 - Hyphenation Zone. Drag the slider to adjust the balance of hyphenation between better spacing and fewer hyphens.
 - Hyphenate Capitalized Words.
 Select to hyphenate capitalized words.
- 6 Click **OK**.

When you select the Hyphenate check box in the Paragraph panel, Illustrator automatically adds hyphenation as you need it in your document based on the options set in the Hyphenation dialog box. If the Hyphenate check box is not checked, you need to select any existing type to apply hyphenation. The Hyphenation options allow you to specify how long a word needs to be before hyphenation takes place, the maximum number of hyphens you can use, and what balance you want between better spacing and fewer hyphens.



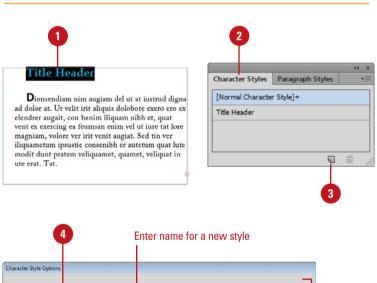


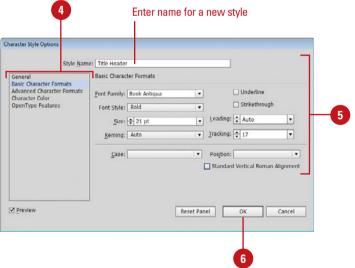
Working with Type Styles

Create or Edit Styles

- 1 Select any type tool, and then select the type that you want to use as the style.
 - You can also select the Selection tool, and then click the type object.
- 2 Select the Character Styles or Paragraph Styles panel.
 - Click the Window menu, point to Type, and then click Character Styles or Paragraph Styles.
- Use any of the following options:
 - Create. Alt+click (Win) or Option+click (Mac) the Create New Style button on the Character Styles or Paragraph Styles panel, and then enter a name for the style.
 - Edit. Deselect any styles, and then double-click the style that you want to edit.
- 4 Select a category, such as General, Basic Character Formats, Advanced Character Formats, Character Color, or OpenType Features.
- 5 View the current settings and make any changes that you want.
- 6 Click **OK**.

A **style** is a group of format settings that you can create or modify to get the exact look you want. When you create a new style, you can specify if it applies to paragraphs or characters, and give the style a short name that describes its purpose so you and others know when to use that style. A **paragraph style** is a group of format settings that can be applied only to all of the text within a paragraph (even if it is a one-line paragraph), while a **character style** is a group of format settings that is applied to any block of text at the user's discretion. To modify a style, adjust the formatting settings of an existing style. If you see a style with a plus sign (+) after the name, it means that the type with the applied style also contains other formatting, which you can remove, or redefine the style.





Apply Styles

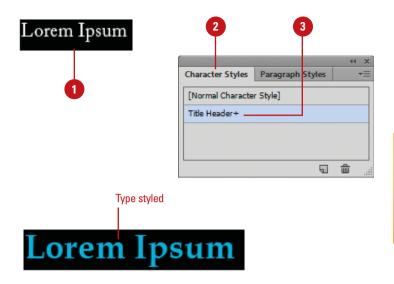
1 Select any type tool, and then select the type that you want to change.

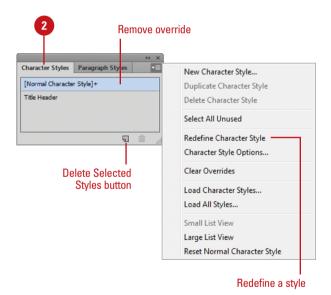
For paragraph styling, select a type object or select paragraphs. For character styling, select text, not a type object.

- You can also select the Selection tool, and then click the type object.
- 2 Select the Character Styles or Paragraph Styles panel.
- 3 Click a style name in one of the panels.

Work with Styles

- 1 Select any type tool, and then select the type with the style that you want to change.
 - You can also select the Selection tool, and then click the type object.
- 2 Select the Character Styles or Paragraph Styles panel.
- 3 Do any of the following:
 - Delete a Style. Select a style, and then click the Delete Selected Styles button.
 - Clear Overrides. Alt+click (Win) or Option+click (Mac), the style name to remove the plus sign (+).
 - Redefine a Style. Click the appropriate Options menu, and then click Redefine Character Style or Redefine Paragraph Style.





Using Smart Punctuation

Use Smart Punctuation

- 1 Select any type tool, and then select the type that you want to change, or deselect all to convert the entire document.
- 2 Click the Type menu, and then click Smart Punctuation.
- 3 Select the check boxes with the Smart Punctuation options that you want to use.
- 4 Select the Selected Text Only or Entire Document option.
- 5 Select the **Report Results** check box to display a list of your changes on the screen.
- 6 Click OK.

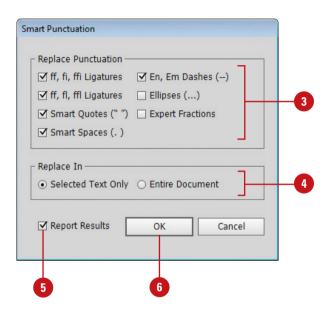
Did You Know?

You can force punctuation marks near the edge to appear outside the type object. Select the type that you want to change, select the Paragraph panel, click the Options menu, and then click Roman Hanging Punctuation.

See Also

See "Setting Up a Document" on page 34 for information on specifying a quotation marks style in the Document Setup dialog box.

Smart Punctuation turns your text into professional looking type. Instead of using straight quotes, you can use smart quotes. Instead of using hyphen as dashes, you can use En or Em dashes. You would not want to make these changes manually, but you don't have to. Illustrator can do it for you with the Smart Punctuation command. You can change the entire document all at one time or you can select the type that you want to change.



Working with Glyphs

Replace or Insert a Glyph

- Select any type tool, and then select a character (to replace a glyph) or click in text (to insert a glyph).
- Select the Glyphs panel (from the Type menu).
 - Click the Window menu, point to Type, and then click Glyphs.
- 3 Select a different font and font style.
- 4 Click the **Show** list arrow, and then select a glyphs category.

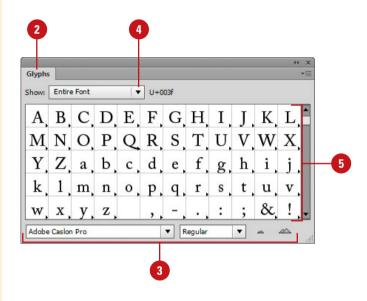
Alternative for Current Selection or Entire Font are common choices.

5 Double-click the glyph that you want to replace or insert.

Did You Know?

You can use the OpenType panel to insert glyphs. Select the OpenType panel, select the type that you want to change or deselect all text for the entire document, and then select the buttons with the options for glyphs that you want to apply, such as ligatures, swashes, titling, ordinals, and fractions.

A glyph is a style variation—such as ligatures, ordinals, swashes, and fractions—for a given character in an OpenType font. OpenType fonts appear with an "O" next to the font name on the Font submenu. OpenType fonts are designed to work well on both Windows and Macintosh operating systems, which reduces font substitution problems when going back and forth between platforms. However, you can always add more character styles to extend the font format. For example, you can change fractions with numerals and slashes to properly formatted fractions. You can automatically insert alternate glyphs with the OpenType panel or insert them manually with the Glyphs panel to extend the font format.

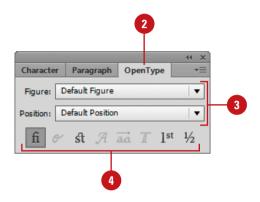


Working with OpenType Fonts

Work with OpenType Fonts

- 1 Select any type tool, and then select the type that you want to change.
- Select the OpenType panel.
 - Click the Window menu, point to Type, and then click OpenType.
- Specify the following options:
 - Figure. Select a figure style; typically set to the default.
 - Position. Select a baseline position; typically set to the default.
- 4 Click to enable/disable the OpenType attributes you want:
 - Standard Ligatures. These include fi, fl, ffi, and ffl.
 - Contextual Alternates. Formats script text, like handwriting.
 - Discretionary Ligatures. These include ct, st, and ft.
 - Swash. An exaggerated part of a serif character.
 - Stylistic Alternates. Creates a aesthetic effect.
 - Tilting Alternates. Formats large-sized text, like titles.
 - Ordinals. Formatted numbers with superscript characters.
 - Fractions. Numbers separated by a slash.

When you use an OpenType font indicated by an O symbol in the font list (such as the ones with "Pro" at the end), you can apply additional font attributes in the OpenType panel. These include standard and discretionary ligatures, contextual, tiling, or stylistic alternatives, swash, ordinals, and fractions. A ligature is made by joining two or more characters by merging their parts together, such as one above the other or one inside the other. Some fonts have variations on different letterforms, known as alternatives. There are three types: contextual (better joining behavior), stylistic, and titling (large text). You can view the characters in a font using the Glyphs panel. Since OpenType fonts differ, not all options in the OpenType panel are available for every font.

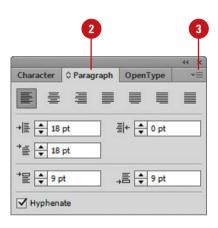


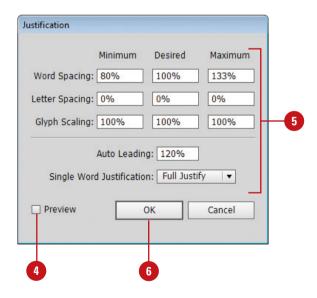
Working with Justification

Change Justification Options

- 1 Select any type tool, and then select the type that you want to change.
- Select the Paragraph panel.
 - Click the Window menu, point to Type, and then click Paragraph.
- 3 Click the **Options** menu, and then click **Justification**.
- 4 Select the **Preview** check box to view your changes in the document window.
- 5 Specify the following options:
 - Word Spacing. Enter a spacing value (0% - 1000%; at 100%, no additional space is added) between words defined by pressing the spacebar.
 - Letter Spacing. Enter a spacing value (-100% - 500%; at 0%, no additional space is added) between letters, including kerning or tracking values.
 - Glyph Scaling. Enter a scaling value (50% - 200%) for the width of any font characters.
 - Auto Leading. Enter a percentage value for leading.
 - Single Word Justification.
 Specify how to justify singleword paragraphs.
- 6 Click **OK**.

If you need more control over word and letter spacing and character scaling in justified text, you can use the Justification command in the Paragraph panel. These advanced options allow you to enter minimum, desired, and maximum values for Word Spacing, Letter Spacing, and Glyph Scaling (glyph spacing). The minimum and maximum values define the overall range for spacing, while the desired value defines the spacing you want for both justified and unjustified paragraphs. The best use of the Justification dialog box is to start with the initial values and then adjust them with the Preview option set.





Wrapping Type Around an Object

Wrap and Unwrap Type Around an Object

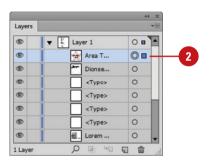
- 1 Arrange the object to be wrapped in front of the area type object in the same top-level, sublayer, or group. The objects should be overlapping.
- 2 Select the object to be wrapped in the Layers panel.
- 3 Click the **Object** menu, and then point to **Text Wrap Options**.
 - If prompted, click **OK** to create the text wrap.
- Click the Object menu, point to Text Wrap, and then click Text Wrap Options.
- Select the **Preview** check box to view your changes as you set options.
- 6 Enter an **Offset** value to specify the distance between the wrapped object and the type object.
- 7 Click OK.

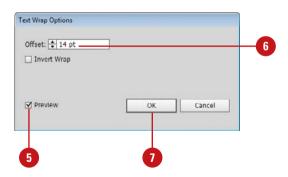
You can move the objects to finalize the results. The type will rewrap around the object.

To unwrap (release) a text wrap, select the wrapped object (not the type object), click the **Object** menu, point to **Text Wrap**, and then click **Release**.

When integrating artwork and graphics with your type, you can wrap the text around objects to create the results that you want. You can wrap area type around a path, a placed graphic, or another type object. When wrapping type around an object, the important thing is to make sure the wrapped object is in front of the area type object in the same top-level, sublayer, or group.







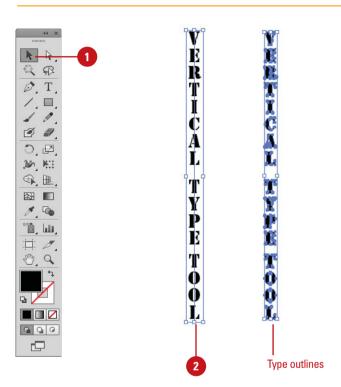


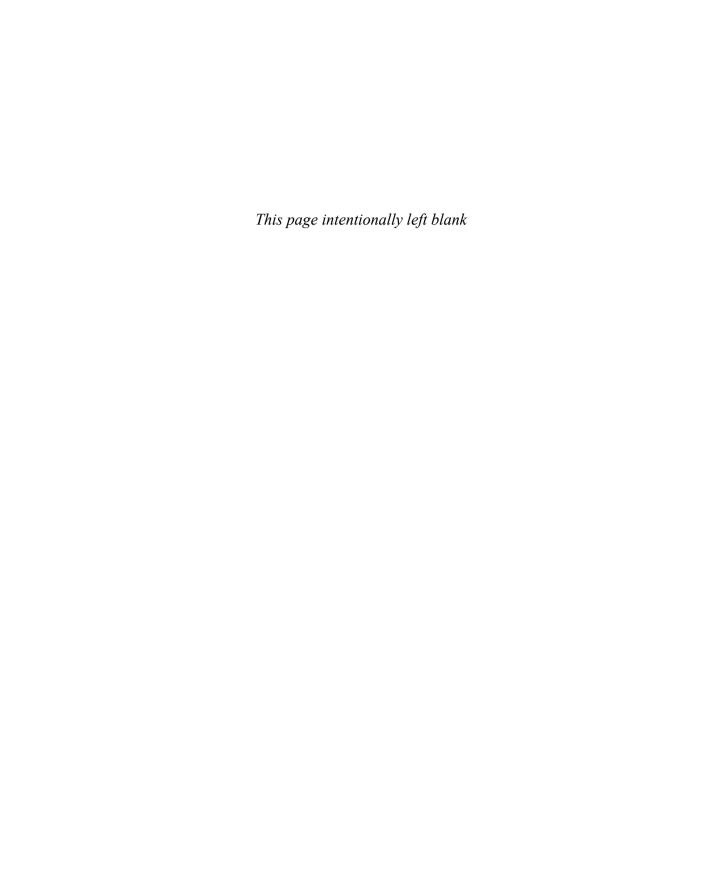
Creating Type Outlines

The Create Outlines command converts characters in a type object into a separate object with a path. Some characters, such as "A" or "B," that contain an interior shape (known as a counter) are converted into compound objects. After you create an outline, you can reshape the path, use it as a mask object, fill it with a gradient or a mesh, or use it in a compound object. When you create outlines, the fill and stroke attributes and any appearances of the type are applied to the outlines. Before you use the Create Outlines command, it's a good idea to make a copy of the type object or your document as a backup to preserve a copy of the type layers.

Create Type Outlines

- 1 Select the **Selection** tool on the Tools panel.
- 2 Select the type object or select characters in the type.
- 3 Click the **Type** menu, and then click **Create Outlines**.
- To release a compound object into separate objects, click the **Object** menu, point to **Compound Path**, and then click **Release**.





Working with Graphics

Introduction

In addition to opening Illustrator documents, you can also open graphic files created in different formats, such as TIFF, JPEG, GIF, and PNG. You open a graphic file the same way you open documents in Illustrator. You can also use Illustrator's Place command to insert artwork. Illustrator lets you place graphic files saved in Photoshop PSD, BMP, JPEG, EPS, and PNG formats, to name a few.

With Illustrator's Place command, you can link or embed an image into your document. Embedding inserts a copy of one document in another. When data is embedded, you can edit it using the menus and toolbars of the program in which it was created. Linking displays information stored in one document in another. After you link or embed a graphic image file into an Illustrator document, you can use the Links panel in Illustrator to manage and work with the files. The Links panel displays a list of all the linked or embedded files in your document.

If you have a raster graphic, such as a JPEG, TIFF, or PSD file, in your document, you can use tracing options to convert the graphic into editable vector artwork. You can set options to create a close simulation of the graphic or a more artistic rendering of it and then fine-tune your results.

The Graphic Styles panel allows you to create, save, and apply graphics styles. A graphic style is a collection of attributes that can be applied to a layer, sublayer, group, or object. The Appearance panel allows you to apply and manage multiple attributes of an object. You can apply fills, strokes, opacity, blending mode, effects, and other attributes to objects, layers, groups, or graphic styles. The panel makes it easy to apply, edit, duplicate, restack, or remove attributes.

What You'll Do

Open Graphics

Place Graphics

Place Graphics from Adobe Bridge

Link Graphics

Manage Linked Graphics

Trace Raster Graphics

Adjust Tracing Options

Convert Tracing to Paths

Apply Graphic Styles

Create Graphic Styles

Edit Graphic Styles

Apply Appearance Attributes

Create a Mosaic Graphic

Opening Graphics

Open a Graphic Image

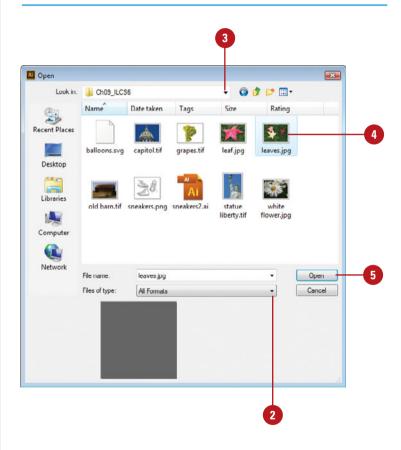
- 1 Click the **File** menu, and then click **Open** to display all file types in the file list of the Open dialog box.
- 2 Click the Files of Type (Win) or Enable (Mac) list arrow, and then select a graphic format.
- 3 Navigate to the drive or folder location with the image you want to open.
- 4 Click the graphic file you want to open.

TIMESAVER Press and hold the Shift key to select multiple contiguous files to open in the Open dialog box.

5 Click Open.

See Also

See "Opening a Document with Adobe Bridge" on pages 16-17 or "Placing Graphics from Adobe Bridge" on pages 262-263 for more information on finding, opening, or placing graphic files from Bridge. In addition to opening Illustrator documents, you can also open graphic files created in different formats, such as TIFF, JPEG, GIF, and PNG. You open a graphic file the same way you open documents in Illustrator. When you open a graphic file, a tab appears across the top of the Document window, which you can click to display. If you need to manage, organize, or find graphic files, Adobe Bridge is the way to go. With Adobe Bridge, you can search for the graphic files that you want to edit, and then open them in Illustrator.



Placing Graphics

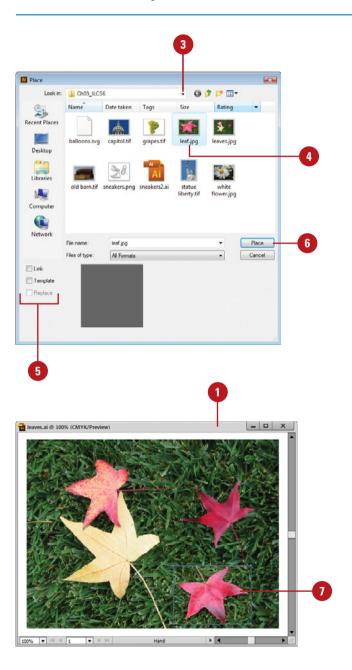


- 1 Open an Illustrator document.
- 2 Click the **File** menu, and then click
- 3 Navigate to the drive or folder location with the image you want to open.
- 4 Select the graphic file that you want to place into the active document.
- 5 Select any of the following options:
 - Link. Places a screen version of the graphic and links the document to the graphic file. Deselect to embed a copy of the graphic file image in the document.
 - Template. Places a dimmed version of the graphic on a template layer for tracing.
 - Replace. Replaces the currently selected image.
- 6 Click Place.

Illustrator places the image in a new layer, directly above the active layer, and then encloses it within a transformable bounding box.

7 Control the shape by manipulating the corner and side nodes of the freeform bounding box.

You can use Illustrator's Place command to insert artwork into an open document. To increase your control of the new image information, Illustrator places the new image into a separate layer. Illustrator lets you place graphic files saved in Photoshop PSD, BMP, JPEG, EPS, and PNG formats, to name a few. When you first place a vector-based image into Illustrator, you have the ability to modify the width, height, and rotation while retaining the vector format of the file.



Placing Graphics from Adobe Bridge

Browse and Open Graphics with Adobe Bridge

1 Click the Go to Bridge button on the Application bar or click the File menu, and then click Browse in Bridge.

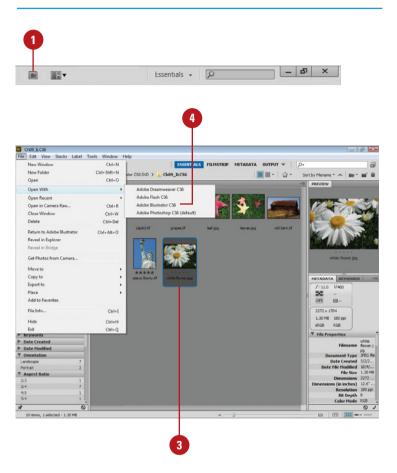
Adobe Bridge opens, displaying files and folders on your computer.

- 2 Navigate to the drive or folder where the file is located.
- 3 Select the graphic thumbnail representing the file that you want to open in your Illustrator document.
- 4 Click the File menu, point to Open With, and then click Adobe Illustrator CS6.

Did You Know?

You can locate a linked graphic in Bridge from Illustrator. In the Links panel, select the graphic name, click the Options menu, and then click Reveal In Bridge.

Adobe Bridge allows you to search, sort, filter, manage, and process graphic files one at a time or in batches. You can open or place graphics directly into Illustrator by using the Open With (Adobe Illustrator) or Place (In Illustrator) commands in Bridge from the File menu. You can also drag thumbnails from the Bridge into an open Illustrator document window.



Place Graphics with Adobe Bridge

1 Click the **Go to Bridge** button on the Application bar or click the **File** menu, and then click **Browse** in **Bridge**.

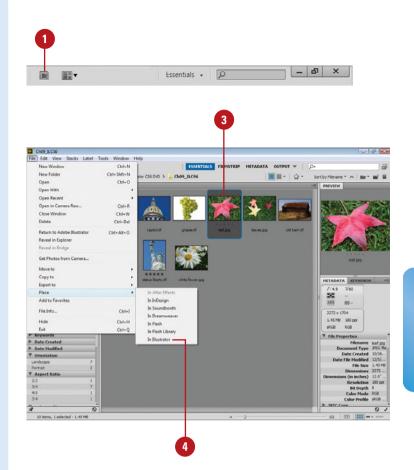
Adobe Bridge opens, displaying files and folders on your computer.

- 2 Navigate to the drive or folder where the file is located.
- 3 Select the graphic thumbnail that represents the file you want to place in your Illustrator document.
- 4 Click the File menu, point to Place, and then click In Illustrator.
 - Drag to Illustrator. Drag the graphic from Bridge to the Illustrator icon on the taskbar (Win) or Dock (Mac), hold for a moment to display Illustrator, release the mouse to place the graphic image.

Did You Know?

You can drag-and-drop Photoshop elements into Illustrator. In Photoshop, select all or part of an image or a layer, select the Move tool, and then drag the selection or layer into an Illustrator artboard to place an embedded copy of it in your document.

You can change XMP data for a graphic. Click the Go to Bridge button on the Application bar, locate and select the image you want, select the Metadata panel, click the Edit button for a data item, enter data, and then click the Apply button (check mark) at the bottom of the panel.



Linking Graphics

Link to a Graphic

- Open an Illustrator document.
- 2 Click the File menu, and then click Place.
- 3 Select the graphic file that you want to place into the active document.
- 4 Select the Link check box.
 - To embed a copy of the graphic file image in the document, deselect the Link check box.
- 5 Click Place.

Illustrator places the image in a new layer, directly above the active layer, and then encloses it within a transformable bounding box.

See Also

See "Setting File Handling & Clipboard Preferences" on pages 466-467 for information on setting linking options.

With Illustrator's Place command, you can link or embed an image into your document. **Embedding** inserts a copy of one document into another. When data is embedded, you can edit it using the menus and toolbars of the program in which it was created (that is, the **source program**). **Linking** displays information stored in one document (the **source file**) in another (the **destination file**). You can edit the linked object from either file, although changes are stored in the source file. If you break the link between a linked object and its source file, the object becomes embedded. As you work with linked or embedded files in the Layers panel, a linked image appears as <Linked File>, while an embedded image appears as an image object.

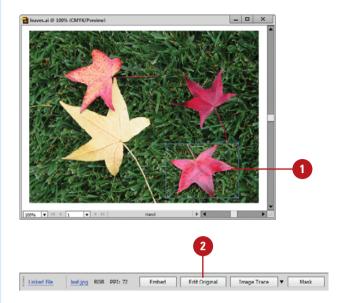


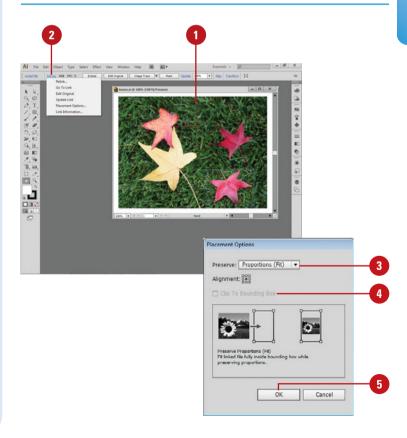
Edit a Linked Graphic in the Source

- Select the linked graphic.
- Click Edit Original on the Control panel.
 - You can also click the Edit Original button on the Links panel.
- 3 Make the changes that you want in the original program.
- 4 Return to Illustrator.
- If prompted, click Yes to update your document.

Select Placement Options for Linked Graphics

- 1 Select the linked graphic.
- Click image name on the Control panel, and then click Placement Options.
 - You can also click the Options menu in the Links panel, and then click Placement Options.
- 3 Click the Preserve list arrow, and then select an option: Transforms, Proportions (Fit), Proportions (Fill), File Dimensions, or Bounds.
- 4 If available, select an alignment position, and select or deselect the Clip To Bounding Box check box.
- 5 Click OK.





Managing Linked Graphics

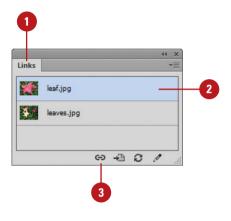
Replace a Linked or Embedded Graphic

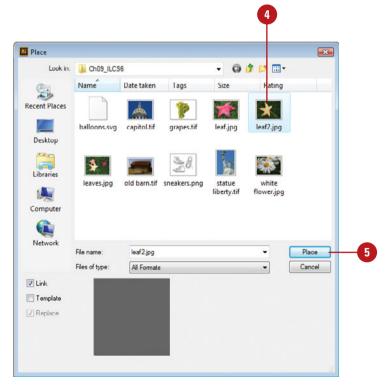
- 1 Select the **Links** panel.
- 2 Select the name of the graphic that you want to replace.
- 3 Click the **Relink** button on the panel.
 - You can also select the image in the document window, click the image name or Embedded on the Control panel, and then click Relink.
- 4 Select the graphic file that you want to use as the replacement in the active document.
- 5 Click Place.
 - You can also select the image in the document window, click the File menu, click Place, select a replacement image, select the Replace check box, and then click Place.

Did You Know?

You can locate a placed graphic in your document. In the Links panel, select the graphic that you want to find, and then click the Go To Link button on the panel.

After you link or embed a graphic image file into an Illustrator document, you can use the Links panel in Illustrator to manage and work with the files. The Links panel displays a list of all the linked or embedded files in your document. You can use the Links panel to update, replace, or relink a graphic image file. If a linked file is moved from its original location, you need to repair the link the next time you open the document. If a linked file needs to be updated, a warning icon appears in the Links panel to let you know.





Work with Linked or Embedded Graphics

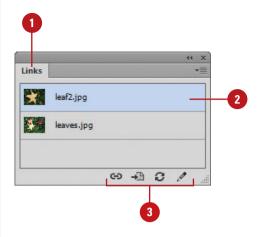
- 1 Select the **Links** panel.
- Select the graphic name that you want to change.
- 3 Do any of the following:
 - Update a Link. Click the Update Link button on the panel.
 - Go to Link. Click the Go To Link button on the panel.
 - Edit Original. Click the Edit
 Original button on the panel to
 open the program that created
 the file and edit it.
 - View Information. Double-click the graphic name, view the information, and then click OK.
 - Change from Linked to Embedded. Click the Options menu, and then click Embed Image.

Did You Know?

You can change the display of the Links panel. In the Links panel, click the Options menu, and then select a display option, such as: Show All, Show Missing, Show Modified, Show Embedded, Sort By Name, Sort By Kind, or Sort By Status.

See Also

See "Setting File Handling & Clipboard Preferences" on pages 466-467 for information on setting linking options.





Tracing Raster Graphics

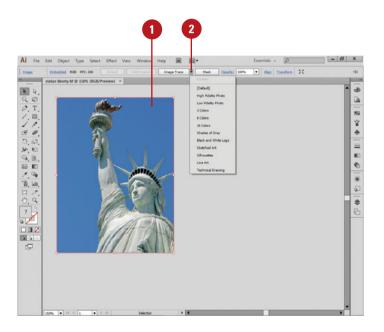
Trace a Raster Graphic

- 1 Select the graphic that you want to trace.
 - You can also select an image trace object to change it.
- Use one of the following:
 - Preset. Click the Tracing
 Presets list arrow on the
 Control panel, and then select a
 tracing preset.
 - Last Used. Click the Image Trace button on the Control panel. If prompted, click OK.

The image trace preset is applied to the graphic and Image Tracing options appear on the Control panel.

- 3 To change the view of the image trace, click the **View** list arrow on the Control panel, and then select a view option:
 - Tracing Result.
 - Tracing Result with Outlines.
 - Outlines.
 - Outlines with Source Image.
 - Source Image.

If you have a raster graphic—such as a JPEG, TIFF, or PSD file—in your document, you can use tracing options to convert the graphic into editable vector artwork. You can set options to create a close simulation of the graphic or a more artistic rendering of it and then fine-tune your results. The Image Trace option (New!) on the Control or Image Trace panel detects and traces the color and shading in a raster graphic to create an editable vector object. You can use tracing presets (recommended for first time users), such as Line Art, Technical Drawing, or High Fidelity Photo, or set your own tracing options in the Image Trace panel. You can also access options on the Image Trace submenu on the Object menu. When applied, a traced object is known as an image trace object.





Tracing options available on the Control panel.

Trace a Raster Graphic Using the Image Trace Panel

- 1 Select the graphic that you want to trace.
 - You can also select an image trace object to change it.
- 2 Click the **Window** menu, and then click **Image Trace**.
- 3 Click a preset button or select a preset from the **Preset** list arrow.

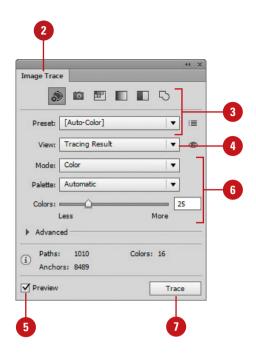
The preset buttons include: Auto-Color, High Color, Low Color, Grayscale, Black and White, and Outline.

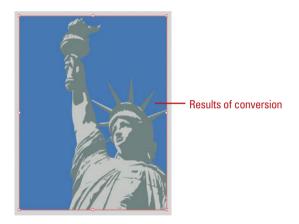
The Preview check box is selected and the image trace preset is applied to the graphic.

- 4 To change the view of the image trace, click the **View** list arrow, and then select a view option.
 - Quick View of Source. Click and hold the View Source Image button (eye icon).
 Release the mouse to return back to tracing.
- 5 To not view your changes after each individual option change, deselect the **Preview** check box.
- 6 Change the image trace options you want on the Image Trace panel.
- 7 To apply setting changes to the graphic, click **Trace**.

Did You Know?

You can restore a traced graphic back to its original state. Select the traced object, click the Object menu, point to Image Trace, and then click Release.





Adjusting Tracing Options

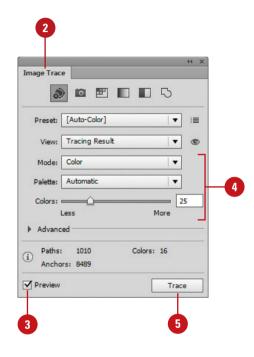
Change Image Tracing Options

- 1 Select the graphic that you want to trace.
 - You can also select an image trace object to change it.
- 2 Click the **Window** menu, and then click **Image Trace**.
- To view your changes as you set options, select the **Preview** check hox.
- Specify the following options:
 - Mode. Click the list arrow to select a color mode.
 - Palette. Click the list arrow to select a color palette.
 - Colors, Grays, or Threshold.
 Drag the slider to adjust the range or intensity of color.
- 5 To apply setting changes to the graphic, click **Trace**.

Did You Know?

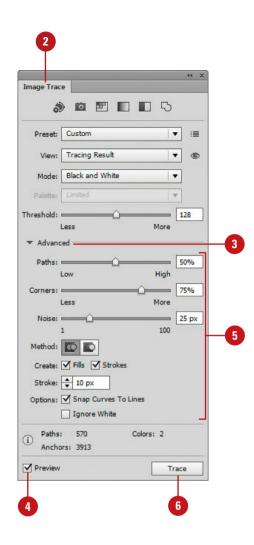
You can create, rename, or delete tracing presets. Select the Image Trace panel, and then click the Manage Presets button. Click Save As New Preset to create a new preset. Select an existing custom preset, and then click Rename or Delete.

After you create an image trace, you can use the Image Trace panel to make adjustments. The Image Trace panel (New!) provides a set of simple standard options and a set of advanced options. With the Preview option set, Image Tracing options are live, which means that Illustrator applies an option change right after you make it, which can sometimes slow down your work efficiently. When Illustrator applies a change, a progress bar appears, which you can always stop if it takes too long. If you don't like an image tracing option that is applied to the graphic, you can undo it.



Change Advanced Image Tracing Options

- 1 Select the graphic that you want to trace.
 - You can also select an image trace object to change it.
- 2 Click the Window menu, and then click Image Trace.
- 3 Click the Advanced arrow to expand the Image Trace panel.
- 4 To view your changes as you set options, select the **Preview** check box.
- 5 Specify any of the following options:
 - Paths. Drag the slider to adjust path fitting; higher the value, the tighter the fit.
 - Corners. Drag the slider to adjust the number of path corners; higher the value, the more corners.
 - Noise. Drag the slider to adjust the noise level, areas of specific pixel size; higher the value, less the noise.
 - Method. Click the Abutting or Overlapping button to connect paths.
 - Create Fills or Strokes. Select to create filled regions or stroked paths. For Strokes, specify a width in pixels.
 - Snap Curves To Lines. Drag the slider to replace slightly curved lines with straight lines.
 - Ignore White. Drag the slider to set white color fills to none.
- 6 To apply setting changes to the graphic, click **Trace**.



Converting Tracing to Paths

Convert Image Tracing to Paths

- Select the image trace object.
- 2 Click **Expand** on the Control panel.
 - You can also click the Object menu, point to Image Trace, and then click Expand.
 - To make an image trace and convert it to paths, click the Object menu, point to Image Trace, and then click Make and Expand.

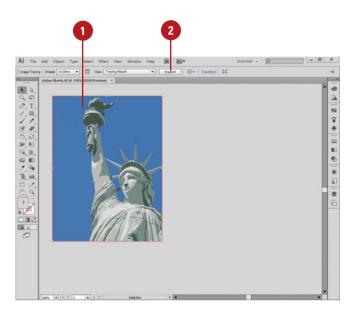
Illustrator creates a multitude of paths, which you can view using the Layers panel.

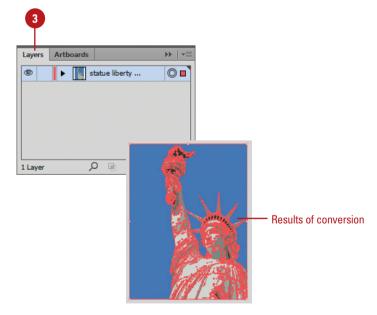
3 Select the **Layers** panel to view the newly created paths.

Did You Know?

You can convert a traced object to a live paint group. This is useful when you want to paint a traced object. Select the traced object, click the Object menu, point to Live Paint, and then click Make.

After you finish creating an image trace object, you can convert (expand) it to a path. When you expand an image trace object, it no longer remains an image trace object. It becomes a standard path, which you can reshape and recolor. The Expand button on the Control panel converts an image trace object into paths, which you can view and change on the Layers panel.





Applying Graphic Styles

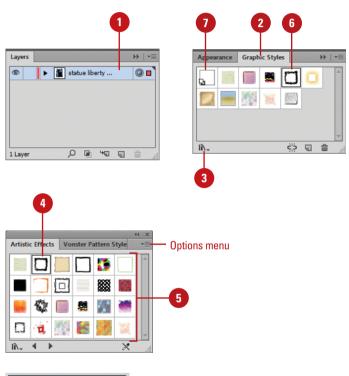
Apply a Graphic Style

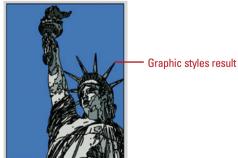
- 1 Select an object with the Selection tool or click the target circle for a layer, sublayer, group, or object in the Layers panel.
- Select the Graphic Styles panel.
- 3 Click the **Graphic Styles Libraries** menu, and then select a library.
- 4 Click a graphic style thumbnail in the graphic styles library.

The graphic style is added to the Graphic Styles panel.

- 5 To preview and view styles, use any of the following:
 - Preview. Right-click (Win/Mac) or Option-click (Mac) a graphic style thumbnail to display a preview of the style.
 - View. Click the Options menu, and then click Use Square for Preview or Use Text for Preview. Select a view size: Thumbnail View, Small List View, or Large List View.
- 6 Click a graphic style thumbnail in the Graphic Styles panel to apply it to the selected object.
- 7 To remove all styles applied to a graphic, click the **Default Graphic Style** thumbnail in the upper left corner of the Graphic Styles panel.

The Graphic Styles panel allows you to create, save, and apply graphic styles. A graphic style is a collection of attributes that can be applied to a layer, sublayer, group, or object. Graphic styles are similar in nature to character or paragraph styles. From the Graphic Styles panel, you have access to a host of graphic style libraries—including Vonster's Pattern Styles (New!), designed by Von Glitschka—from which to choose a style. You can view styles for graphics and text. Not sure how a style will look? Now you can preview a thumbnail before you apply it. If you still don't like it after you apply it, you can remove it without affecting the underlying path. When you apply a graphic style to a layer or group, the style is applied to all objects on it.





Creating Graphic Styles

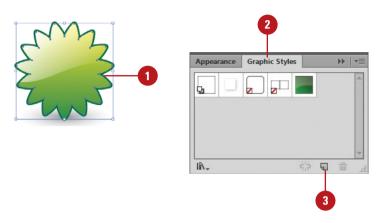
Create a Graphic Style from an Object

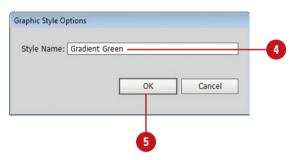
- 1 Select an object with the Selection tool or click the target circle for a layer, sublayer, group, or object in the Layers panel.
- Select the Graphic Styles panel.
- 3 Alt+click (Win) or Option+click (Mac) the **New Graphic Style** button on the panel.
 - You can also drag the selected object directly to the Graphic Styles panel or click the New Graphic Style button to create a graphic style. The graphic style is given the name Graphic Style, which you can doubleclick to change.
- 4 Enter a name for the graphic style.
- 5 Click **OK**.

Did You Know?

You can view graphic style attributes. Select the Graphic Styles and Appearance panels, click the graphic style in the Graphic Styles panel, and then view its attributes in the Appearance panel.

You can create a graphic style from an existing object or duplicate an existing graphic style and then change it. I think the best way is to apply the attributes you want to an object, and then use the object to create a graphic style. Although, if you see a graphic style from one of the libraries that is close to what you want, you can quickly duplicate the graphic style, and then make changes to it.





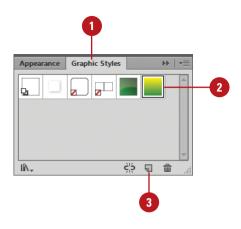


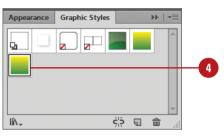
Duplicate a Graphic Style

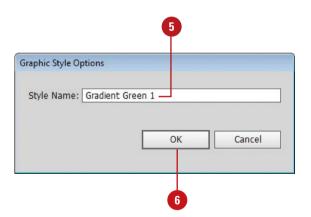
- 1 Select the **Graphic Styles** panel.
- Select the graphic style that you want to duplicate.
- 3 Click the **New Graphic Style** button on the panel.
 - The duplicate graphic style is added to the Graphic Styles panel.
- 4 Double-click the duplicate graphic style.
- 5 Rename the graphic style.
- 6 Click OK.

Did You Know?

You can save a graphic styles library. Select the Graphic Styles panel, display only the styles that you want to save in a library (delete the ones that you don't want), click the Options menu, click Save Graphic Style Library, enter a name, and then click Save. When you save the library in the default location, the new library appears on the User Defined submenu on the Graphic Styles Libraries menu on the panel.







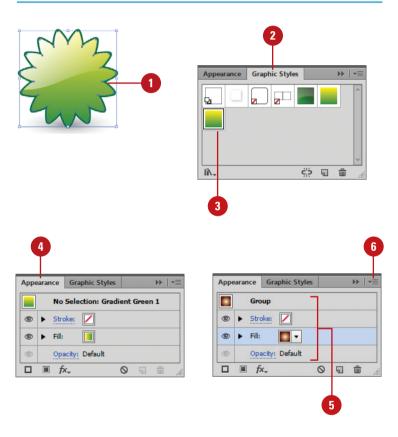
Editing Graphic Styles

Edit a Graphic Style

- 1 Select an object with the Selection tool or click the target circle for a layer, sublayer, group, or object in the Layers panel.
- Select the Graphic Styles panel.
- 3 Apply the graphic style that you want to edit to the selected object.
- 4 Select the **Appearance** panel.
- 5 Modify the appearance of the style in the Appearance panel.
- 6 Click the **Options** menu, and then click **Redefine Graphic Style**.
 - You can also Alt-drag (Win) or Option-drag (Mac) the edited style from the Appearance panel onto the original style in the Graphic Styles panel.

Did You Know?

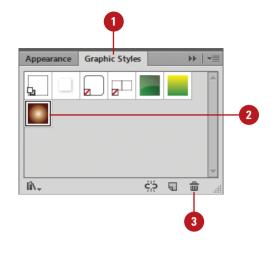
You can merge graphic styles. Select the Graphic Styles panel, Ctrl+click (Win) or @ +click (Mac) the graphics styles you want to combine, click the Options menu, click Merge Graphic Styles, enter a name, and then click OK. After you create a graphic style, you can make changes to it. However, when you make changes to the graphic, your changes are applied to any object that uses the graphic style. If you want this to happen, then you are good to go. If not, you can make a duplicate of the graphic style and then make changes to it. If you no longer need or want a graphic style, you can delete it. When you delete a graphic style, any attributes that are linked to an object remain with the object, but any updates will not be applied.





Delete a Graphic Style

- 1 Select the **Graphic Styles** panel.
- Select the graphic style that you want to delete.
- 3 Click the **Delete Graphic Style** button on the panel.
- 4 Click **Yes** to confirm the deletion.

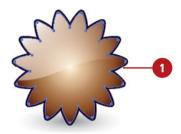


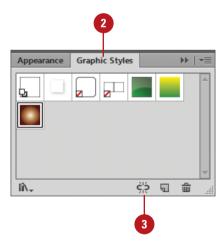
Break the Link to a Graphic Style

- 1 Select an object with the Selection tool or click the target circle for a layer, sublayer, group, or object in the Layers panel.
- 2 Select the **Graphic Styles** panel.
- 3 Click the Break Link to Graphic Style button on the panel.

Did You Know?

You can merge a style with an object's attributes. Alt+drag (Win) or Option+drag (Mac) the style from the Graphic Styles panel to the object. To preserve the color of type when applying a graphic style, click the Options menu, and then click Override Character Color to deselect it.





Applying Appearance Attributes

Apply and Change Appearance Attributes

- 1 Select an object with the Selection tool or click the target circle for a layer, sublayer, group, or object in the Layers panel.
- 2 Select the Appearance panel.
 The currently targeted layer

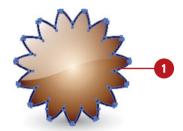
appears in bold with a type name at the top.

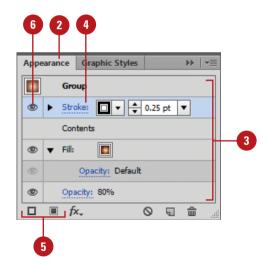
- 3 Click **Fill**, **Stroke**, **Opacity**, or other available attributes to display a panel with options.
- 4 Specify the options and values that you want to set for the attribute.
- 5 To apply multiple fill or stroke attributes, click the **Add New Fill** or **Add New Stroke** button on the panel.
- 6 To show or hide attributes, click the Visibility column for each attribute.

Did You Know?

You can copy appearance attributes. In the Layers panel, Alt+drag (Win) or Option+drag (Mac) the target circle for the item that you want to copy onto the target circle for another layer, group, or object.

The Appearance panel allows you to apply and manage multiple attributes to an object. You can apply fills, strokes, opacity, blending mode, effects, and other attributes to objects, layers, groups, or graphic styles. The panel makes it easy to apply, edit, duplicate, restack, or remove attributes. You can click links to open panels and option dialog boxes for effects, strokes, and fills. When you have a lot of attributes for an object, it can be hard to work with them. It's easy to manage multiple attributes in the Appearance panel; you can hide attributes to reduce the clutter and make it easier to work with the attributes that you want, much like working with the Layers panel.







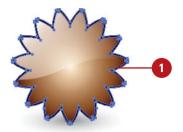


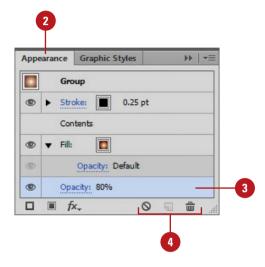
Remove Appearance Attributes

- 1 Select an object with the Selection tool or click the target circle for a layer, sublayer, group, or object in the Layers panel.
- Select the Appearance panel.
- 3 Select the attribute that you want to delete.
- 4 Do one of the following:
 - Delete. Removes an appearance attribute, except for stroke and fill. Click the Delete Selected Item button on the panel.
 - Clear Except Stroke and Fill.
 Removes all the appearance
 attributes, except the stroke
 and fill. Click the Options menu,
 and then click Reduce to Basic
 Appearance.
 - Clear. Removes all the appearance attributes and changes the stroke and fill to None. Click the Clear Appearance button on the panel.

Did You Know?

You can expand an object's appearance attributes. Select the object with the appearance attributes that you want to expand, click the Object menu, and then click Expand Appearance. The paths used to create the attributes are changed to separate objects within a group, which can then be edited.



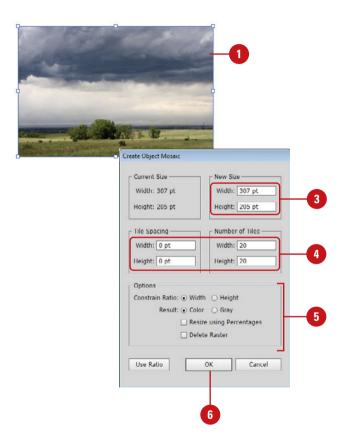


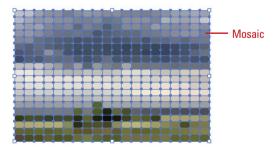
Creating a Mosaic Graphic

Create a Mosaic Graphic

- Select a bitmap graphic or rasterized vector object with the Selection tool to use as the basis for the mosaic.
- 2 Click the **Object** menu, and then click **Create Object Mosaic**.
- 3 To change the dimensions of the mosaic, specify the Width and Height values in New Size.
- 4 Specify the Width and Height values in Tile Spacing and Number of Tiles.
- 5 Specify options in the following areas:
 - Constrain Ratio. Locks the width or height to the dimensions of the original bitmap image.
 - Result. Specifies whether the mosaic tiles are color or gray.
 - Resize Using Percentages.
 Select to change the size of the image by percentages of width and height.
 - Delete Raster. Select to delete the original bitmap image.
 - Use Ratio. Click to make the tiles square; uses the number of tiles to makes the tiles square.
- 6 Click **OK**.

A mosaic is an art design made of small pieces of colored stone or glass. In Illustrator, you can create a mosaic special effect. You can apply this effect to a bitmap graphic or a rasterized vector object. The graphic must be embedded in an Illustrator document (not linked) to perform the Create Object Mosaic command. During the process, you can change the dimensions of the mosaic, control the spacing between tiles, and specify the total number of tiles.





Manipulating Artwork with Effects

10

Introduction

Adobe Illustrator effects are a designer's dream come true. With effects you can turn an image into an oil painting or a watercolor; you can even change night into day. Illustrator's Effect menu includes over 100 highly creative effects from Illustrator and Photoshop, which can be applied once, reapplied, or combined with other filters to create any effect your imagination can dream up.

The potential combination of effects and images literally runs into the millions. This means that effects are truly an undiscovered territory. As a matter of fact, the Photoshop Effect Gallery lets you view the effects of one or more filters on the active document. This level of power gives you unbelievable creative control over your images.

Take a moment to view some of the various effects that Illustrator offers. Because there are over 100 effects available, we can't show you all of them, but we think you'll enjoy viewing the selection at the end of the chapter.

What You'll Do

Apply Illustrator Effects

Apply the Convert to Shape Effect

Apply the Scribble Effect

Apply the Inner or Outer Glow Effect

Apply the Drop Shadow Effect

Apply 3D Effects

Apply Warp Effects

Apply Distort & Transform Effects

Change Raster Effect Settings

Work with the Effect Gallery

Apply Multiple Effects

Control Effects Using Selections

Use Blur Effects

View Various Effects

Applying Illustrator Effects

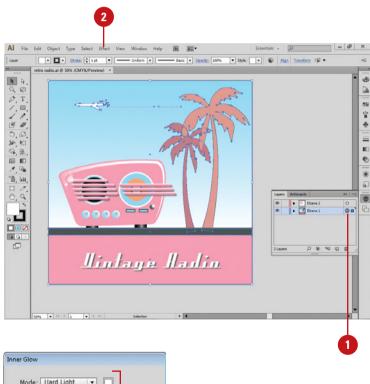
Apply an Illustrator Effect

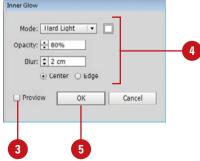
- 1 Select the **Layers** panel, and then select the target circle for a layer, sublayer, group, or object.
 - To apply an effect to a part of an object, click the Stroke or Fill on the Appearance panel.
- 2 Click the **Effect** menu, point to a submenu under Illustrator Effects (if needed), and then select an effect.
- 3 To preview an effect in your document, select the **Preview** check box.
- 4 Select the options you want for the selected effect; options vary depending on the effect.
- 5 Click OK.

Did You Know?

You can edit an applied effect. Select the layer, object or object's stroke or fill, open the Appearance panel, double-click the effect, make changes, and then click OK.

Illustrator effects change the appearance of an object, not its underlying path, and are fully editable. The effects can be edited or removed without permanently affecting the object. So, you can experiment with an effect and then undo it if you don't like it. The Illustrator effects appear at the top of the Effect menu. Most of the Illustrator effects are vector-based for the display and upon output, so they can be modified without affecting the object. However, some of the effects—Drop Shadow, Inner Glow, Outer Glow, and Feather—are rasterized (converted from vector to raster) upon output, which doesn't allow for non-destructive modification without affecting the object. After you apply an effect, it appears on the Appearance panel, where you can make changes. If you apply an effect to a targeted layer, sublayer, or group, it automatically is applied to all current and future objects on the target. If you use graphic styles, you can also apply effects to them.





Apply an Illustrator Effect in Graphic Styles

1 Select a style name or swatch on the Graphic Styles panel or select an object that uses a graphic style.

The style name appears in the Appearance panel.

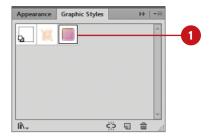
- Click the Effect menu, point to a submenu under Illustrator Effects (if needed), and then select an effect.
- 3 To preview an effect in your document, select the **Preview** check box.
- 4 Select the options you want for the selected effect; options vary depending on the effect.

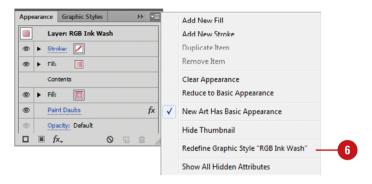
If you enter a value in a box, press Tab to update the preview.

- 5 Click OK.
- 6 Click the **Options** button on the Appearance panel, and then click **Redefine Graphic Style** to update the style.

Did You Know?

You can remove an effect from a layer, object, or graphic style. Select the layer, object, or graphic style, open the Appearance panel, select the effect name, and then click the Delete Selected Item button. If you're removing an effect from a style, click the Options button on the Appearance panel, and then click Redefine Graphic Style to update the style.





For Your Information

Working with Resolution Independent Effects

Raster effects are image effects that create pixels instead of vector data. In Illustrator, you can create raster effects by using the Effects menu. The raster effects include SVG Filters, Drop Shadow, Inner Glow, Outer Glow, Feather, and all the Photoshop Effects. Illustrator uses Resolution Independent Effects (RIE) to maintain a consistent appearance across different types of output, such as print, Web, or video. When you change the resolution setting in the Document Raster Effects Settings dialog box, Illustrator interprets the raster resolution effect on the image and modifies related parameter values (as minimally as possible) in the Effect Gallery dialog box to maintain consistency. See "Changing Raster Effects Settings" on page 292 for information on changing the resolution in the Document Raster Effects Settings dialog box.

Applying the Convert to Shape Effect

Apply the Convert to Shape Effect

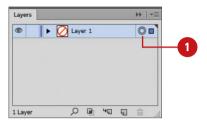
- 1 Select the **Layers** panel, and then select the target circle for a layer, sublayer, group, or object.
- 2 Click the Effect menu, point to Convert to Shape, and then click Rectangle, Rounded Rectangle, or Ellipse.
- 3 To preview an effect in your document, select the **Preview** check box.
- Click the Absolute or Relative option, and then enter values for width and height.

For the Relative option, if you want the shape to be larger or smaller than the actual path, enter a positive or negative value.

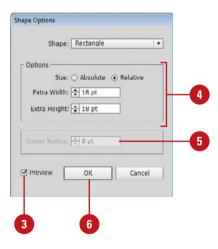
- 5 For a Rounded Rectangle shape, enter a **Corner Radius** value.
- 6 Click OK.

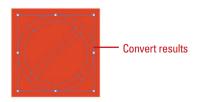
Did You Know?

You can round off sharp corners without converting the shape. Select the shape, click the Effect menu, point to Stylize, and then click Round Corners. With the Illustrator Convert to Shape effect, you can change an object's outline to a rectangle, rounded rectangle, or ellipse without changing the actual underlying path. In the Shape Options dialog box, you can specify the width and height of the converted shape. The size can be set to an absolute value or a relative one based on the original object.







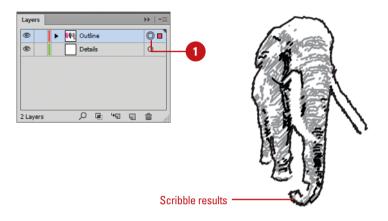


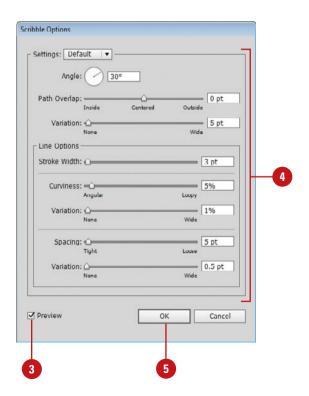
Applying the Scribble Fffect

Apply the Scribble Effect

- 1 Select the **Layers** panel, and then select the target circle for a layer, sublayer, group, or object.
- Click the Effect menu, point to Stylize, and then click Scribble.
- 3 To preview an effect in your document, select the **Preview** check box.
- 4 Select from the following options:
 - Settings. Click the Settings list arrow to select a preset for the Scribble effect.
 - Angle. Enter an Angle value or rotate the dial to change the angle of the sketch lines.
 - Path Overlap. Drag the Path Overlap slider toward Outside to have the sketch lines extend beyond the edge of the path, or toward Inside to have the sketch lines stay inside the path along with the degree of random variation.
 - Line Options. Change the Stroke Width for the lines, the Curviness for the lines (angle sharply or loosely) along with the degree of random variation, and the Spacing for the lines (tight or loose) along with the degree of random variation.
- Click **OK**.

If you want to make an object's fill look as though it was drawn with a pen or pencil, the Illustrator Scribble effect is the one for you. In the Scribble Options dialog box, you can use one of the many presets to create the look you want. It makes the job easy. The presets include Childlike, Dense, Loose, Moire, Sharp, Sketch, Snarl, Swash, Tight, and Zig-zag. After you select a preset (even if it's just the Default), you can adjust individual settings to customize the Scribble effect. As you make changes, you can preview the results in your document.





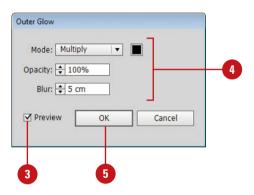
Applying the Inner or Outer Glow Effect

Apply the Inner Glow or Outer Glow Effect

- 1 Select the **Layers** panel, and then select the target circle for a layer, sublayer, group, or object.
- 2 Click the Effect menu, point to Stylize, and then click Inner Glow or Outer Glow.
- To preview an effect in your document, select the **Preview** check box.
- Select from the following options:
 - Color. Click the Color box, and then select a glow color.
 - Blend Mode. Click the Mode list arrow, and then select a blending mode for the glow color.
 - Opacity. Click the arrow or enter a value to adjust the transparency of the glow.
 - Blur. Click the arrow or enter a value to adjust how far the glow extends inward or outward.
 - Center or Edge. For the Inner Glow effect, click Center to have the glow spread outward from the center of the object, or click Edge to have the glow spread inward from the edge of the object toward the center.
- 5 Click **OK**.

With the Illustrator Inner Glow or Outer Glow effect, you can apply a color special effect to an object. The inner glow effect spreads a color from the edge of an object inward, while the outer glow effect spreads a color from the edge of an object outward. You can also apply both effects to the same object. As you make changes, you can preview the results in your document. It's important to remember that the Inner Glow and Outer Glow effects are rasterized (converted from vector to raster) upon output.







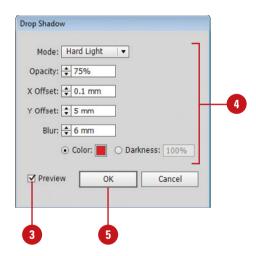
Applying the Drop Shadow Effect

Apply the Drop Shadow Effect

- 1 Select the **Layers** panel, and then select the target circle for a layer, sublayer, group, or object.
- 2 Click the Effect menu, point to Stylize, and then click Drop Shadow.
- 3 To preview an effect in your document, select the **Preview** check box.
- 4 Select from the following options:
 - Blend Mode. Click the Mode list arrow, and then select a blending mode for the shadow color.
 - Opacity. Click the arrow or enter a value to adjust the transparency of the shadow.
 - X and Y Offset. Enter values for the offset distance of the shadow.
 - Blur. Click the arrow or enter a value to adjust how far the shadow extends inward or outward.
 - Color. Click the Color option, and then select a color or click the Darkness option and specify a percentage.
- 5 Click OK.

The Illustrator Drop Shadow effect allows you to apply soft, natural shadows to an object. With the Drop Shadow effect, you can specify a color blend, opacity (degree of transparency), offset, blur, and shadow color. As you make changes, you can preview the results in your document. You can apply the Drop Shadow effect to images and editable text. It's important to remember that the Drop Shadow effect is rasterized (converted from vector to raster) upon output.





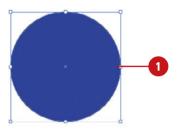


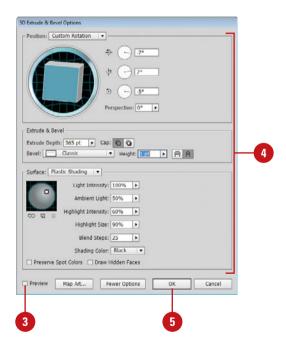
Applying 3D Effects

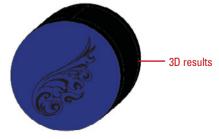
Create a 3D Object

- Select the object that you want to change.
- 2 Click the Effect menu, point to 3D, and then click Extrude & Bevel.
 - Click More Options to display all available options in the dialog box.
- 3 To preview an effect in your document, select the **Preview** check box.
- 4 Select from the following options:
 - Position. Specifies object perspective and rotation angle.
 - Extrude & Bevel. Specifies the extent of object depth and bevel.
 - Surface. Specifies the surface of the 3D object.
 - Lighting. Adds one or more light sources, varies the light intensity, changes shading color, and changes the light source direction.
 - Map Art. Click to map 2D artwork (as a symbol) onto the surface of a 3D object.
- Click **OK**.

With the Illustrator 3D Effects, you can create 3D objects from 2D objects. The 3D Effects include Extrude & Bevel, Revolve, and Rotate. You can specify multiple appearance options including: position, rotation, surface, lighting, and shading. Every 3D object is composed of multiple surfaces, such as a front, back, and sides. You can map 2D artwork (as a symbol) from the Symbols panel to each surface on a 3D object to create the look that you want.

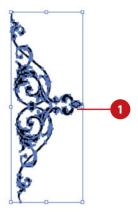


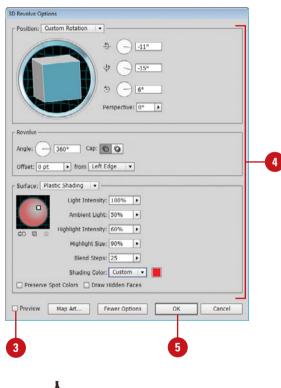




Create a 3D Revolving Object

- 1 Select the object that you want to change.
- Click the Effect menu, point to 3D, and then click Revolve.
 - Click More Options to display all available options in the dialog box.
- To preview an effect in your document, select the **Preview** check box.
- 4 Select from the following options:
 - Position. Specifies object perspective and rotation angle.
 - Revolve. Specifies how to sweep the path around the object to create a 3D object.
 - Surface. Specifies the surface of the 3D object.
 - Lighting. Adds one or more light sources, varies the light intensity, changes shading color, and changes the light source direction.
 - Map Art. Click to map 2D artwork (symbol) onto the surface of a 3D object.
- 5 Click OK.





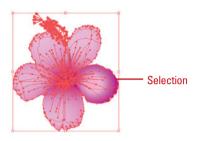


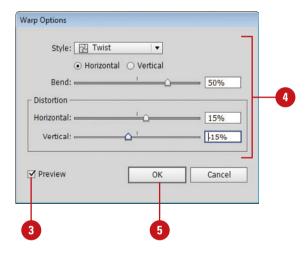
Applying Warp Effects

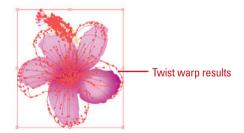
Apply a Warp Effect

- 1 Select the **Layers** panel, and then select the target circle for a layer, sublayer, group, or object.
- Click the **Effect** menu, point to **Warp**, and then select a warp command.
- 3 To preview an effect in your document, select the **Preview** check box.
- 4 Select from the following options:
 - Style. Click the Style list arrow, to change the warp effect.
 - Direction. Click the Horizontal or Vertical option to specify an effect direction.
 - Bend. Drag the Bend slider or enter a value to adjust the bending for the warp effect.
 - Distortion. Drag the Horizontal or Vertical slider or enter a value to adjust the distortion direction for the warp effect.
- 5 Click **OK**.

The Illustrator Warp effects allow you to apply different types of distortion effects. You can specify how much bend and distortion, either horizontal or vertical, takes place in the warp effect. You can apply a wide variety of warp effects, including Arc, Arch, Bulge, Shell, Flag, Wave, Fish, Rise, Fisheye, Inflate, Squeeze, or Twist. As you make changes, you can preview the results in your document. You can apply the warp effects to images and editable text.





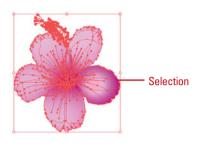


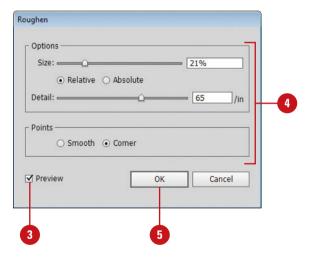
Applying Distort & Transform Effects

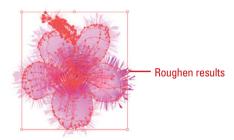
Apply a Distort & Transform Effect

- 1 Select the **Layers** panel, and then select the target circle for a layer, sublayer, group, or object.
- Click the Effect menu, point to Distort & Transform, and then select a command.
- To preview an effect in your document, select the **Preview** check box (if available).
- 4 Select from the following options:
 - Free Distort. Drag the resize handles to distort the image. To display the original, click Reset.
 - Pucker & Bloat. Drag the slider or enter a value to specify the balance between pucker and bloat.
 - Roughen. Drag sliders to adjust the size and detail of the edges and specify whether points are smooth or corners.
 - Transform. Drag sliders to adjust scale, movement, rotation, and other options.
 - Tweak. Drag sliders to adjust control and anchor points; similar to Pucker & Bloat.
 - Twist. Specify an angle to adjust the twist from center.
 - Zig Zag. Drag sliders to create a zig zag pattern; similar to Roughen effect.
- 5 Click **OK**.

The Illustrator Distort & Transform effects allow you to apply different types of distortion and transformation effects. You can apply a wide variety of effects, including Free Distort, Pucker & bloat, roughen, Transform, Tweak, Twist, and Zig Zag. Each effect provides different options to create the results you want. As you make changes, you can preview the results in your document (in most cases). You can apply the warp effects to images and editable text.





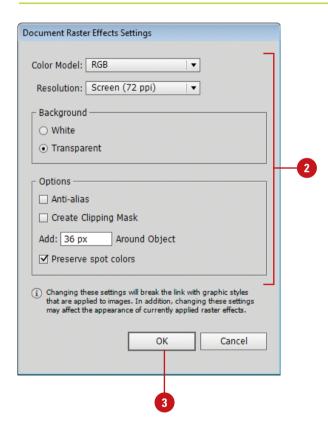


Changing Raster Effects Settings

Change Raster Effects Settings

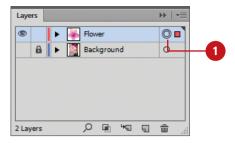
- 1 Click the Effect menu, and then click Document Raster Effects Settings.
- 2 Select from the following options:
 - Color Model. Select a color mode: CMYK or RGB, Grayscale, or Bitmap.
 - Resolution. Select a screen size in points per inch (ppi). Use Screen for web or video output, Medium for desktop printers, or High for commercial printing.
 - Background. Use White to make any transparent areas white or Transparent to make the background transparent by creating an alpha channel.
 - Anti-alias. Select to soften the edges of a rasterized object.
 - Create Clipping Mask. Select to create a clipping path around the image and specify a size to extend the effect. If you selected the Transparent option, you don't need to select this option.
 - Preserve Spot Colors. Select to preserve spot colors.
- 3 Click **OK**.

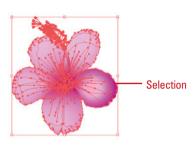
Some of the Illustrator effects—Drop Shadow, Inner Glow, Outer Glow, and Feather—and all of the Photoshop effects, are rasterized upon output. You can control how a raster effect looks in your document and how it will output from Illustrator by using the Document Raster Effects Settings dialog box. The available options allow you to specify a color model, resolution, background type (white or transparent), as well as apply anti-alias, create a clipping mask, and preserve spot colors. These options are globally applied to all raster effects. The raster settings convert a vector object to a bitmap image. When you change the resolution setting, Illustrator applies Resolution Independent Effects (RIE) and modifies related raster parameter values in the Effect Gallery dialog box to maintain consistency across different types of output. If you want to apply raster settings to an individual object, you can specify many of the same options in the Rasterize dialog box.

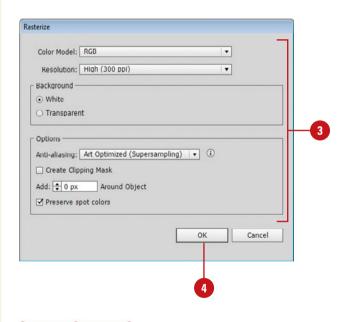


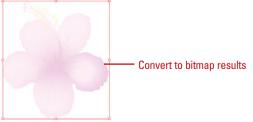
Convert Vector Objects to Bitmap Images

- 1 Select the **Layers** panel, and then select the target circle for a layer, sublayer, group, or object.
- 2 Click the **Object** menu, and then click **Rasterize**.
 - You can also click the Effects menu, and then click Rasterize.
- 3 Select from the following options:
 - Color Model. Select a color mode: CMYK or RGB, Gravscale, or Bitmap.
 - Resolution. Select a screen size in points per inch (ppi). Use Screen for web or video output, Medium for desktop printers, High for commercial printing, or Use Document Raster Effects Resolution to apply the global resolution.
 - Background. Use White to make any transparent areas white or Transparent to make the background transparent by creating an alpha channel.
 - Anti-aliasing. Use Art
 Optimized (Supersampling) to
 soften shape edges. Use Type
 Optimized (Hinted) to soften
 type edges. Use None to keep
 edges jagged.
 - Create Clipping Mask. Select to create a clipping path around the image and specify a size to extend the effect. If you selected the Transparent option, you don't need to select this option.
 - Preserve Spot Colors. Select to preserve spot colors.
- 4 Click OK.







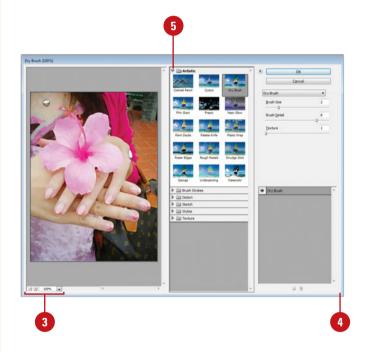


Working with the Effect Gallery

Work with the Photoshop Effect Gallery

- 1 Select the **Layers** panel, and then select the layer you want to modify with an effect.
- 2 Click the **Effect** menu, and then click **Effect Gallery**.
- 3 Change the image preview by clicking the plus or minus zoom buttons, or by clicking the black triangle and selecting from the preset zoom sizes.
- 4 If necessary, drag the lower right corner in or out to resize the Effect Gallery dialog box.
- 5 Click the **expand triangle**, located to the left of the individual categories, to expand an effect category. Effect categories include:
 - Artistic
 - Brush Strokes
 - Distort
 - Sketch
 - Stylize
 - Texture

The Effect Gallery enables you to maintain complete and total control over Photoshop effects. In essence, the Effect Gallery gives you access to all of Photoshop's effects and lets you apply the effects to any image, while viewing a large preview of the results. The Effect Gallery dialog box is composed of three sections—Image Preview, Effect Selection, and Effect Controls. When you use the Effect Gallery to modify the image, you see exactly how the image will look; there is no guesswork involved. When you apply an effect to an image, you are physically remapping the pixel information within the image. Illustrator provides almost 50 Photoshop effects and the combinations of those effects are astronomical. That means there are a lot of different combinations available for you to try...have fun.



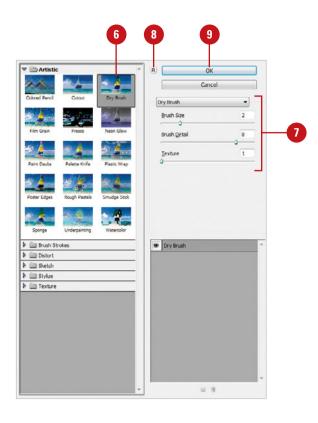
- 6 Click an effect from the expanded list to view its default effects on the image.
- 7 Modify the results of the effect using the effect controls.
- To temporarily hide the Effect Selections, click the **Show/Hide Effect Thumbnails** button, located to the left of the OK button.
- 9 Click OK.
 - Reset. Hold down Alt (Win) or Option (Mac), and then click
 Reset (the Cancel button changes to Reset) to restore the default settings for the effect.

Did You Know?

You can reapply a specific effect using a shortcut. Press Shift+Ctrl+E (Win) or Shift+@se+E (Mac) to reapply the last effect to the image.

You can access the Photoshop effects from the Effect menu. If you know the Photoshop effect you want to use, you can open the Effect Gallery directly to the effect you want. Click the Effect menu, point to an effect category, and then click the effect you want. The Photoshop Effect Gallery opens, display the effect you want.

You cannot access the Pixelate, Blur, or Video effects from the Photoshop Effect Gallery. The Pixelate, Blur, and Video Photoshop are only available from the Effects menu.



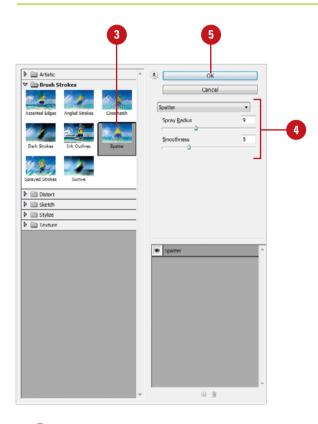
Applying Multiple Effects

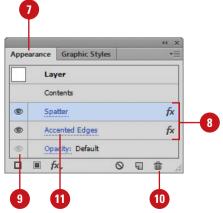
Apply Multiple Effects

- 1 Select the **Layers** panel, and then select the layer you want to modify with an effect.
- Click the Effect menu, and then click Effect Gallery.
- 3 Select the effect you want.
- 4 Adjust the effect as necessary.
- Click OK.
- 6 To apply another effect to the layer, repeat steps 2 thru 5.
- Select the Appearance panel.
- To change the effect's influence on the image, drag an effect to another position in the stack.
- To temporarily show or hide the effect on the image, click the **Show/Hide** button in the Visibility column on the panel.
- To delete a selected effect, select it, and then click the **Delete** button on the panel.
- To edit an effect, click the effect name in the Appearance panel.

The Effect Gallery opens, where you can make changes.

With Photoshop's Effect Gallery you can preview, apply, show, or hide only one individual effect at a time. If you want to apply multiple Photoshop effects, you have to use the Effect Gallery multiple times. After you apply multiple effect, you can use the Visibility icon in the Appearance panel to show or hide any of the individual effects. The order of the effects influences their impact on the image, so when you use more than one effect, try dragging the effect up or down in the stack to see the different possibilities.





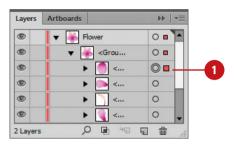
Controlling Effects Using Selections

Control Effects Using Selections

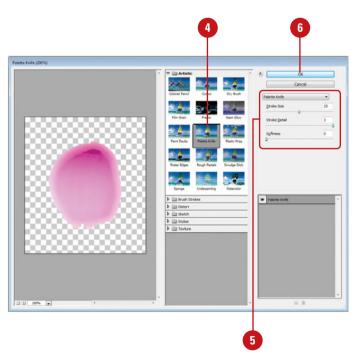
- 1 Select the **Layers** panel, and then select the layer to which you want to apply an effect.
- Select the Direct Selection tool on the Tools panel, and then make a selection in the document window.
- 3 Click the Effect menu, and then click Effect Gallery.
- 4 Select any Photoshop effects.
- 5 Adjust the effect options until you see the effect you want.
- 6 Click OK.

The effect is only applied to the selected areas of the image.

When you apply an effect, Illustrator applies the effect equally to the entire image. Unfortunately, that might not be what you had in mind. For example, you might want to apply the Gaussian Blur effect to a portion of the image. In that case, Illustrator's selection tools come to the rescue. The primary purpose of making a selection is to define a work area, and when you select an area before applying an effect, the only area impacted by the effect will be the selected area.





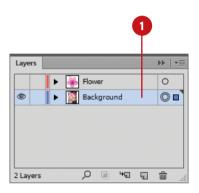


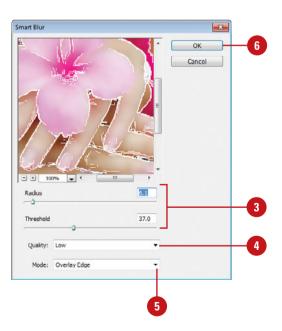
Using Blur Effects

Use the Smart Blur Effect

- 1 Select the **Layers** panel, and then select the layer you want to modify with an effect.
- 2 Click the Effect menu, point to Blur, and then click Smart Blur.
- 3 Drag a slider or enter a pixel value for the following:
 - Radius. Specifies the area size to apply the blur.
 - Threshold. Specifies how dissimilar the pixels need to be before they are changed.
- 4 Click the Quality list arrow, and then select a quality value: Low, Medium, or High.
- 5 Click the **Mode** list arrow, and then select a quality value:
 - Normal. Applies the blur to the entire selection.
 - Edge Only. Applies the blur to the edge only for color transitions.
 - Overlay Edge. Applies the blur to edges with an overlay for color transitions.
- 6 Click OK.

You can apply the Photoshop blur effects—Gaussian, Radial, and Smart—in Illustrator. The Gaussian Blur (New!) effect applies a typical blur to an image or a selection by a controllable amount. The Gaussian Blur effect can be used to add a sense of depth to the image. For example, you could select and blur the background of an image while leaving the foreground in focus. The outcome of the effect is to create a hazy, out-of-focus effect on the image or selection. For the Gaussian Blur effect, you can use the Preview option (New!) to see an enhanced live preview in your document while you adjust the blur effect. If you want to apply a blur with an additional effect, the Radial blur applies a soft blur with a spin or zoom, and the Smart blur applies a precise blur with a radius, threshold, quality level, and edge options.





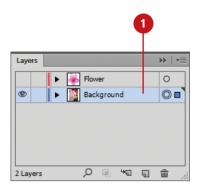
Use the Gaussian Blur Effect

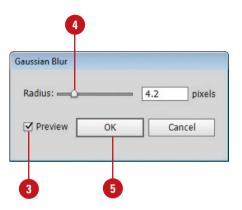
- Select the Layers panel, and then select the layer you want to modify with an effect.
- 2 Click the Effect menu, point to Blur, and then click Gaussian Blur.
- 3 To preview an effect in your document, select the **Preview** check box.
- 4 Drag the **Radius** slider or enter a pixel value to increase or decrease the amount of Gaussian blur applied to the image.
- 5 Click OK.

Did You Know?

You can display or update the previous version of Gaussian Blur filter. If you open a document with a previous version of Gaussian Blur filter applied it, the effect is named Legacy Gaussian Blur (New!) in the Appearance panel. If you edit the effect, it's converted to the updated version.

You can use the Radial Blur effect. In the Layers panel, select the layer you want to modify. Click the Effect menu, point to Blur, and then click Radial Blur. Select the Spin or Zoom option, select an quality option, and then specify an amount. To adjust the center position of the blur, drag the pattern in the Blur Center box. Click OK.







The Gaussian Blur filter applied to the image

Viewing Various Effects

Illustrator and Photoshop provide a bountiful selection of over 100 effects.. Take a moment to view some of the various effects you can use. The original image is shown to the right, and we've displayed some common effects on the following pages. A good thing to think about when using effects is your original image. Look at the background colors, and see if they will look good with some of the effects. The best thing to do is open an image that has a lot of varied details, and then apply some effects to see what looks good to you.



Various Effects

Cutout



Fresco



Dry Brush



Palette Knife



Accented Edges



Diffuse Glow



Stamp



Glass



Note Paper



Glowing Edges



Grain



Mosaic Tiles



Graphic Pen



Spatter



Stained Glass



Plastic Wrap



11

Drawing and Painting

Introduction

After you create a path using the Pencil tool or other drawing tool, you can use the Live Paint command or the Live Paint Bucket tool to convert the paths into a Live Paint Group that you can paint. Before you start using the Live Paint Bucket tool, it's important to select the painting options that you want to use beforehand.

With the Live Paint Bucket tool, you can recolor a Live Paint Group. When you click an area formed by intersecting lines in a Live Paint Group, the Live Paint Bucket tool applies fill and stroke paint attributes. When you apply fill or stroke attributes, you're actually recoloring faces (fills) and edges (strokes) and not the path itself. With the Live Paint Selection tool, you can select faces (fills) and edges (strokes) in a Live Paint Group. Before you start using the Live Paint Selection tool, it's important to choose the selection options that you want to use beforehand. If you create a gap in a closed path in a Live Paint Group, the face (fill) of the object disappears. With the Gap Options dialog box, you can specify gap detection options to avoid this problem.

The Brushes panel allows you to draw with different brush tips, creating freestyle lines, shapes, patterns, and textures. There are five main categories of brushes: Scatter, Calligraphic, Art, Pattern, and Bristle. You can use brushes that come built-in with Illustrator in Brush libraries or you can create your own. Illustrator's paintbrush tool was designed to reproduce the visual effect of applying paint to an artboard. When you use a stylus and a pressure-sensitive drawing tablet, the Paintbrush tool is pressure-sensitive, too. You select brushes from the Brushes panel or other Brush libraries to use with the Paintbrush tool.

What You'll Do

Use the Pencil Tool

Create Live Paint Groups

Set Live Paint Bucket Tool Options

Use the Live Paint Bucket Tool

Use the Live Paint Selection Tool

Modify Live Paint Groups

Set Gap Options

Use the Brushes Panel

Use the Paintbrush Tool

Create and Edit Scatter Brushes

Create and Edit Calligraphic Brushes

Create and Edit Art Brushes

Create and Edit Pattern Brushes

Create and Edit Bristle Brushes

Work with Brushes

Work with Liquify Tools

Using the Pencil Tool

Use the Pencil Tool

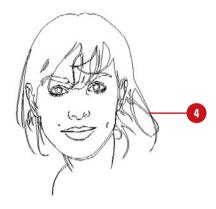
- 1 Select the **Pencil** tool on the Tools panel.
- 2 Select a stroke color and weight and a fill of **None** on the Tools and Stroke panels.
- 3 Click the View menu, and then click Pixel Preview to view the drawing with attributes or click Outline to view the drawing as lines (wireframe).
- Use any of the following methods:
 - New Path. Drag in a blank area to create an open or closed path. To create a closed path, hold down Alt (Win) or Option (Mac) while you finish drawing.
 - Reshape Path. Drag along the edge of a selected open or closed path.
 - Add to Path. Drag from an endpoint of an open path.

Did You Know?

You can erase all or part of a path with the Path Eraser tool. Select the Path Eraser tool (same slot as the Pencil tool), and then drag along the path that you want to erase.

The Pencil tool is exactly what its name implies...a pencil. If you like to draw freehand or sketch objects, especially with a drawing tablet, the Pencil tool is right for you. You can use the Pencil tool in several ways. You can draw new line segments to create a path, reshape a path, or add to a path. You can customize the way the Pencil tool works by setting preferences in the Pencil Tool Preferences dialog box.

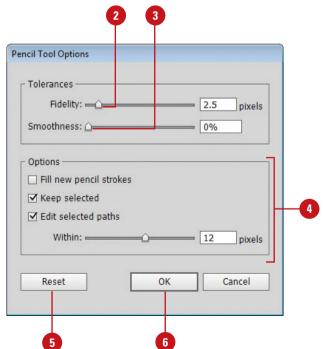




Set Pencil Tool Options

- 1 Double-click the **Pencil** tool on the Tools panel.
- 2 Drag the slider or enter a **Fidelity** value (.5-20). Fidelity determines how far the mouse (or stylus) must move before an anchor point is added. A higher value creates fewer anchor points and a smoother path while a lower value creates more anchor points and a rougher path.
- 3 Drag the slider or enter a Smoothness value (0-100). A high value creates a smoother curve, while a low value creates more bends.
- 4 Select or deselect any of the following check boxes:
 - Fill New Pencil Strokes. Select to fill new paths with the current fill color.
 - Keep Selected. Select to keep pencil paths selected after you draw them.
 - Edit Selected Paths. Select to enable Reshaping for the Pencil tool within the specified pixel range (2-20).
- 5 To revert settings back to the defaults, click **Reset**.
- 6 Click **OK**.





Creating Live Paint Groups

Create Live Paint Groups

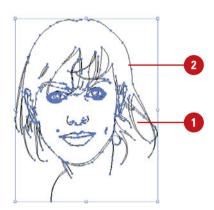
1 Create a drawing using any of the drawing tools or use the Live Trace command to create a path from a raster graphic.

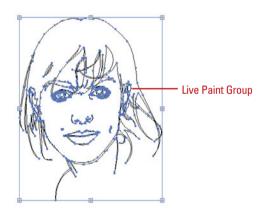
For the best results, use a drawing with multiple intersecting lines that you can fill.

- To create a Live Paint Group from type, click the Type menu, and then click Create Outlines to create path outlines.
- To create a Live Paint Group from a symbol or blend, click the Object menu, and then click Expand to create paths.
- 2 Select all the paths using selection tools on the Tools panel.
- 3 Click the **Object** menu, point to **Live Paint**, and then click **Make**.
 - You can also click the Live
 Paint Bucket tool on the Tools
 panel, and then click the
 selected paths.

The paths are nested together into a Live Paint Group, which appears in the Layers panel.

Live Paint allows you to fill open or closed paths by creating Live Paint Groups. After you create a path using the Pencil tool or other drawing tool, you can use the Live Paint command or the Live Paint Bucket tool to convert the paths into a Live Paint Group that you can paint. You can also convert a traced object from a raster graphic into a Live Paint Group, and then paint it. The Live Paint Bucket tool allows you to click an area formed by intersecting lines to apply fill (known as face) and stroke (known as edges) attributes. As you reshape the Live Paint objects, the paint attributes also change.

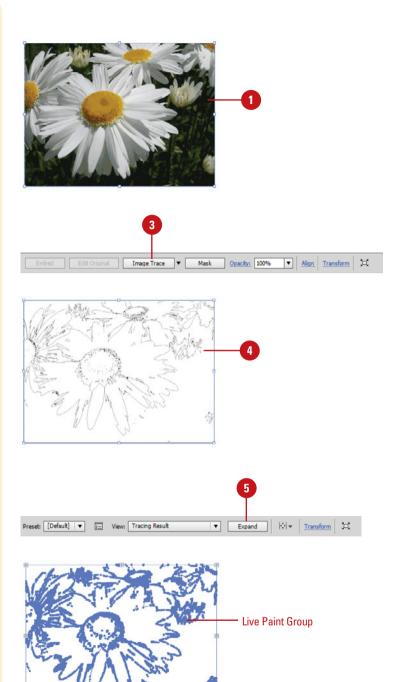




Convert a Traced Object to a Live Paint Group

- Open or place a raster graphic in an Illustrator document.
- Select the graphic that you want to trace.
 - You can also select an Image Trace object to change it.
- 3 Click the Image Trace button (New!) on the Control panel. If prompted, click OK.
- 4 Select all the paths using selection tools on the Tools panel.
- 5 Click the **Expand** button on the Control panel.
- 6 Click the **Object** menu, point to **Live Paint**, and then click **Make**.
 - You can also click the Live
 Paint Bucket tool on the Tools panel, and then click the selected paths.

The paths are nested together into a Live Paint Group, which appears in the Layers panel.

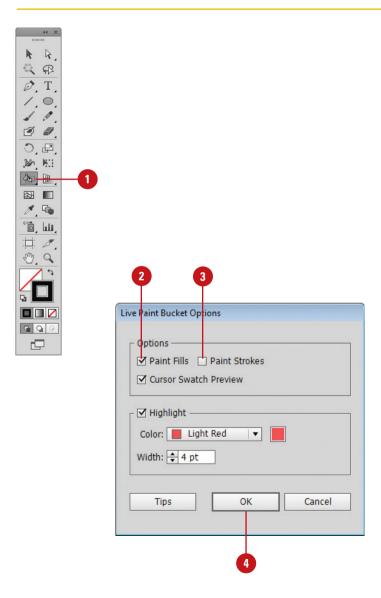


Setting Live Paint Bucket Tool Options

Select Options for Paint Fills or Strokes with the Live Paint Bucket Tool

- 1 Double-click the Live Paint Bucket tool on the Tools panel.
- 2 Select the **Paint Fills** check box to paint fills with the Live Paint Bucket tool.
- 3 Select the **Paint Strokes** check box to paint strokes with the Live Paint Bucket tool.
- Click OK.
 - If only Paint Fills or Paint Strokes is selected, you can Shift-click with the Live Paint Bucket tool to switch between painting fills and applying stroke colors and weight.

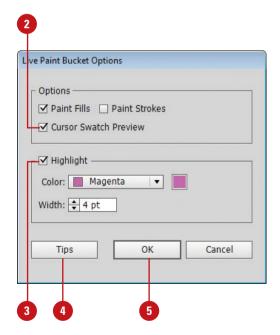
With the Live Paint Bucket tool on the Tools panel, you can recolor fills and strokes in a Live Paint Group. Before you start using the Live Paint Bucket tool, it's important to select the painting options that you want to use beforehand. You can quickly set Live Paint Bucket tool options by double-clicking the tool on the Tools panel. In the Live Paint Bucket Options dialog box, you set options to paint fills and/or paint strokes in a Live Paint Group. To make it easier to paint fills and strokes, you can also select the Cursor Swatch Preview option to display a color strip above the Live Paint Bucket pointer with the current or last color used along with two adjacent colors. In addition, you can specify a highlight color to make it easier to identify fill and stroke areas.



Set Live Paint Bucket Tool Preferences

- 1 Double-click the Live Paint Bucket tool on the Tools panel.
- 2 Select the Cursor Swatch Preview check box to display a color strip above the Live Paint Bucket pointer with the current or last color used, along with two adjacent colors.
- 3 Select the **Highlight** check box to change the highlight color, and then select a color and specify a width.
- To get helpful tips and techniques for using Live Paint, click **Tips**, read the tip screen, click **Next**, read the next tip screen, and then click **OK**.
- Click OK.





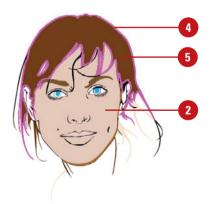
Using the Live Paint Bucket Tool

Fill Faces with the Live Paint Bucket Tool

- 1 Select the **Live Paint Bucket** tool on the Tools panel.
 - Make sure the Paint Fills option is set in the Live Paint Bucket Options dialog box.
 Double-click the Live Paint Bucket tool.
 - If only Paint Fills or Paint Strokes is selected in Options, you can Shift-click with the Live Paint Bucket tool to switch between painting fills and applying stroke colors and weight.
- Display a Live Paint Group object.
- 3 Select a fill color on the Swatches, Tools, or Control panels to use with the Live Paint Bucket tool.
 - If the Cursor Swatch Preview appears above the pointer, you can press the left or right arrow keys to select or display the next or previous color from the Swatches panel.
- Point to the face that you want to fill. The face becomes highlighted.
- 5 Click an individual face or drag multiple faces.

With the Live Paint Bucket tool on the Tools panel, you can recolor a Live Paint Group. When you click an area formed by intersecting lines in a Live Paint Group, the Live Paint Bucket tool applies fill and stroke paint attributes. When you apply fill or stroke attributes, you're actually recoloring faces (fills) and edges (strokes) and not the path itself. Each edge can have a different color (even None) and weight. You can customize the way the Live Paint Bucket tool works by setting preferences in the Live Paint Bucket Options dialog box.

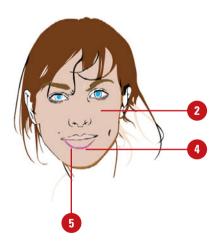




Change Stroke Edges with the Live Paint Bucket Tool

- 1 Select the **Live Paint Bucket** tool on the Tools panel.
 - Make sure the Paint Strokes option is set in the Live Paint Bucket Options dialog box. Double-click the Live Paint Bucket tool.
 - If only Paint Fills or Paint Strokes is selected in Options, you can Shift-click with the Live Paint Bucket tool to switch between painting fills and applying stroke colors and weight.
- Display a Live Paint Group object.
- 3 Select a stroke color, weight, or other attributes on the Strokes, Tools, or Control panels to use with the Live Paint Bucket tool.
 - To remove colors from stroke edges, select None.
- 4 Point to the edge that you want to change. The edge becomes highlighted.
- 5 Click an individual edge or drag multiple edges.
 - Double-click an edge to apply the current stroke attributes to all contiguous edges that have the same color and weight.
 - Triple-click an edge to apply the current stroke color and attributes to all edges that have the same attributes.



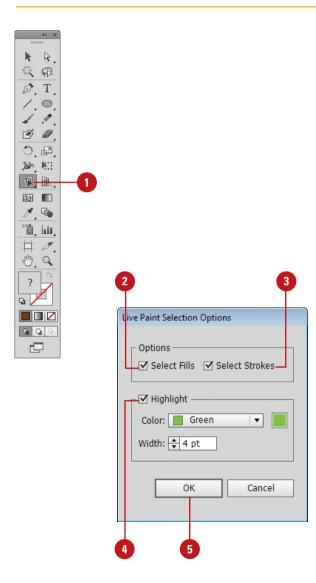


Using the Live Paint Selection Tool

Set Live Paint Selection Tool Options

- 1 Double-click the Live Paint Selection tool on the Tools panel.
- Select the Select Fills check box to paint fills with the Live Paint Selection tool.
- 3 Select the **Select Strokes** check box to paint strokes with the Live Paint Selection tool.
- Select the Highlight check box to change the highlight color, and then select a color and specify a width.
- 5 Click OK.

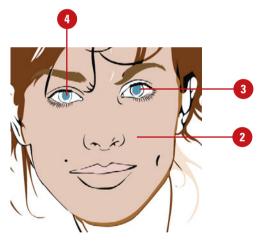
With the Live Paint Selection tool on the Tools panel, you can select faces (fills) and edges (strokes) in a Live Paint Group. Before you start using the Live Paint Selection tool, it's important to choose the selection options that you want to use beforehand. You can quickly set Live Paint Selection tool options by double-clicking the tool on the Tools panel. In the Live Paint Selection Options dialog box, you set options to select fills and/or to select strokes in a Live Paint Group. In addition, you can specify a highlight color for the selection. It's a good idea to select a different color than the Live Paint Bucket tool; they are initially set to the same color.

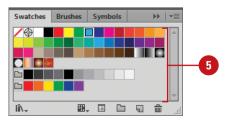


Use the Live Paint Selection Tool

- Select the Live Paint Selection tool on the Tools panel.
- Display a Live Paint Group object.
- 3 Click a face or edge.
- 4 Shift-click to select or deselect additional faces or edges.
- 5 Do any of the following:
 - Fills. Select a fill color, gradient, or pattern.
 - Strokes. Select a stroke color, weight, or other attributes.
 Select None to hide stroke edges.
 - Delete. Press Backspace or Delete to remove the selected faces or strokes.







Modifying Live Paint Groups

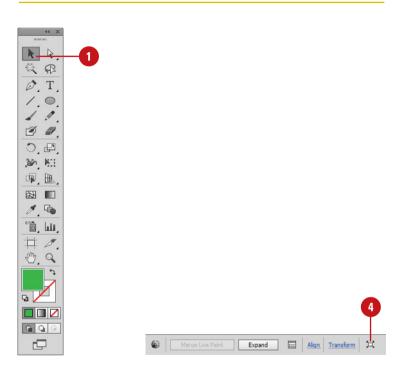
Reshape or Move Paths in a Live Paint Group

- Select the **Selection** tool on the Tools panel.
- 2 Click the View menu, and then click Show Bounding Box.
- Select a path or area in a group.
- 4 Click the **Isolate Selected Object** button on the Control panel.

TIMESAVER Double-click the Live Paint Group to isolate it.

- Do any of the following:
 - Select the Selection tool, and then drag a handle to modify it or drag the path to move it.
 - Select the Direct Selection tool, click an anchor point, and then drag to modify the segment.
- 6 Click the gray bar above the document to exit Isolation Mode.

After you create a Live Paint Group, you can use Isolation Mode to reshape, move, and add to the group. To make your group easier to select and modify, you can show a bounding box with star-filled selection handles around the path. If you no longer want a selected path, you can remove it using the Delete key. When you modify a path in a Live Paint Group, colors automatically refill and line segments reshape.





Add Paths to a Live Paint Group

- 1 Select the **Selection** tool on the Tools panel.
- 2 Click the View menu, and then click Show Bounding Box.
- Select a path or area in a group.
- 4 Click the **Isolate Selected Object** button on the Control panel.

TIMESAVER Double-click the Live Paint Group to isolate it.

- 5 Draw the path that you want to add to the group using drawing tools on the Tools panel.
- 6 Click the gray bar above the document to exit Isolation Mode.
 - You can also draw a path on a layer, select the new path and the Live Paint Group, and then click Merge Live Paint on the Control panel.

Did You Know?

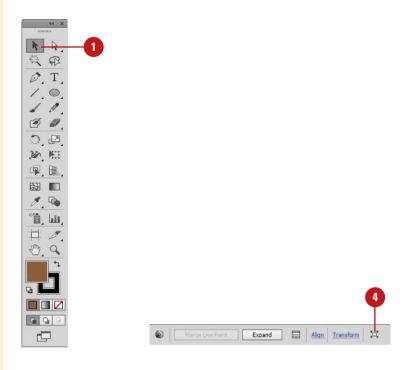
You can expand a Live Paint Group.
Select the Live Paint Group, and then click Expand on the Control panel.

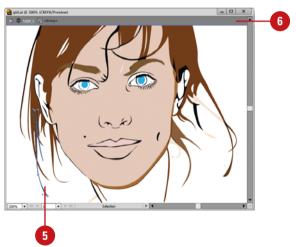
click Expand on the Control panel.

Now, you can edit individual components of the Live Paint Group path.

You can release a Live Paint Group.

Select the Live Paint Group, click the Object menu, point to Live Paint, and then click Release. Now, you can edit individual components of the Live Paint Group path.



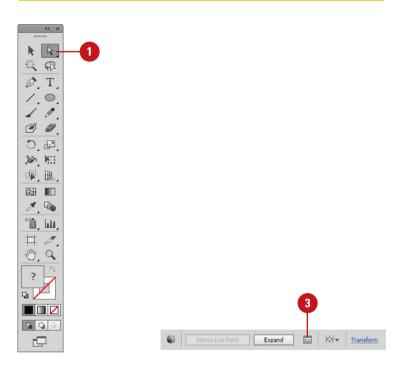


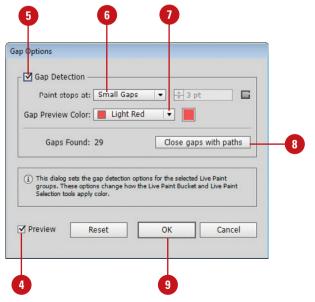
Setting Gap Options

Set Gap Options

- Select the **Direct Selection** tool on the Tools panel.
- Select a Live Paint Group.
- 3 Click the **Gap Options** button on the Control panel.
- 4 Select the Preview check box to view your changes as you set options.
- 5 Select the **Gap Detection** check box to enable the feature.
- 6 Click the **Paint Stops At** list arrow, and then select a gap option.
 - Select the Custom check box to specify a custom size.
- 7 Click the **Gap Preview Color** list arrow, and then select a color.
- 8 Click the **Close gaps with paths** button to apply these settings to the document.
- 9 Click OK.

If you create a gap in a closed path in a Live Paint Group, the face (fill) of the object disappears. With the Gap Options dialog box, you can specify gap detection options to avoid this problem. You can select a predefined gap size or enter one of your own along with a gap preview color.





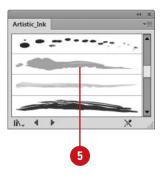
Using the Brushes Panel

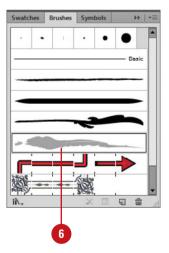
Use and Apply Brushes to a Path with the Brushes Panel

- Select the Brushes panel.
- 2 Select a path with any of the selection tools.
- 3 To change the Brushes panel view, click the **Options** menu, and then select any of the following available view options:
 - Show Calligraphic Brushes, Show Scatter Brushes, Show Art Brushes, Show Bristle Brushes, or Show Pattern Brushes
 - Thumbnail View
 - List View
- 4 Click the **Brush Libraries Menu** button on the panel, point to a brush category, and then select a brush library.
- 5 Click a brush in the library panel to add it to the Brushes panel.
 - You can also drag a brush from any brushes panel onto a path to apply it.
- 6 Click a brush on the Brushes panel to apply it to the selected path.

The Brushes panel allows you to draw with different brush tips, to create freestyle lines, shapes, patterns, and textures. There are five main categories of brushes: Calligraphic, Scatter, Art, Bristle, and Pattern. You can use built-in brushes that come with Illustrator (stored in Brush libraries) or you can create your own. Sometimes it's hard to find a brush. To make it easier, you can use the Options menu to change the panel views. Brushes are live, which means that any previous use of a brush can be updated when you change the brush.





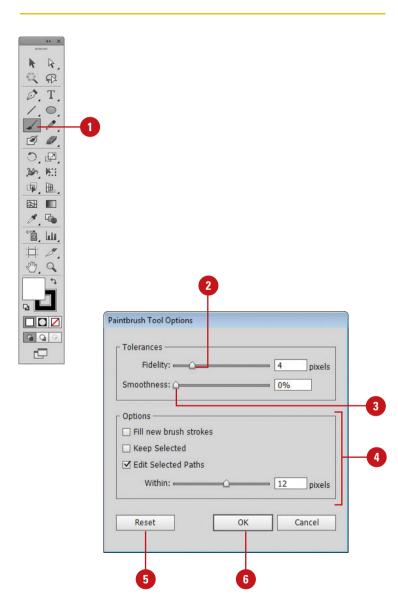


Using the Paintbrush Tool

Set Paintbrush Tool Options

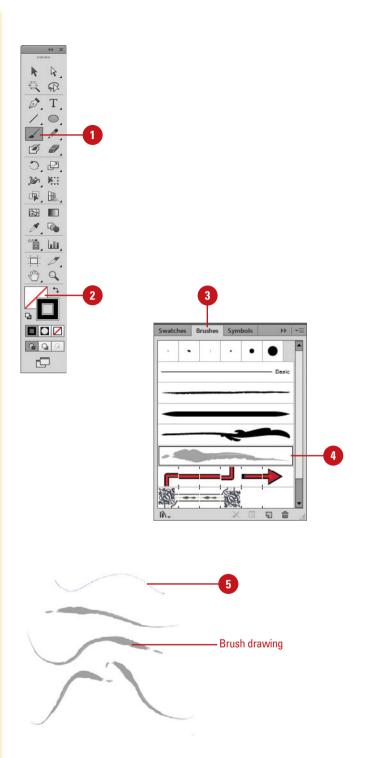
- 1 Double-click the **Paintbrush** tool on the Tools panel.
- 2 Drag the slider or enter a Fidelity value (.5-20). Fidelity determines how far the mouse (or stylus) must move before an anchor point is added. A higher value creates fewer anchor points and a smoother path while a lower value creates more anchor points and a rougher path.
- 3 Drag the slider or enter a Smoothness value (0-100). A high value creates a smoother curve, while a low value creates more hends.
- 4 Select or deselect any of the following check boxes:
 - Fill New Brush Strokes. Select to fill new paths with the current fill color.
 - Keep Selected. Select to keep brush paths selected after you draw them.
 - Edit Selected Paths. Select to enable changing an existing path with the Paintbrush tool within the specified pixel range (2-20).
- 5 To revert settings back to the defaults, click **Reset**.
- 6 Click **OK**.

Illustrator's paintbrush tool was designed to reproduce the visual effect of applying paint to an artboard. When you use a stylus and a pressure-sensitive drawing tablet, the Paintbrush tool is pressure-sensitive too. You select brushes from the Brushes panel or other Brush libraries to use with the Paintbrush tool. You can customize the way the Paintbrush tool works by setting preferences in the Paintbrush Tool Preferences dialog box.



Use the Paintbrush Tool

- 1 Select the **Paintbrush** tool on the Tools panel.
- Select None for the fill color.
- 3 Select the Brushes panel.
- 4 Select a brush on the panel.
 - You can also click the Brush list arrow on the Control panel, and then select a brush.
- 5 Do any of the following:
 - Open Path. Drag to draw a path that doesn't connect.
 - Closed Path. Drag to draw a path, and then Alt+drag (Win) or Option+drag (Mac) to close it.

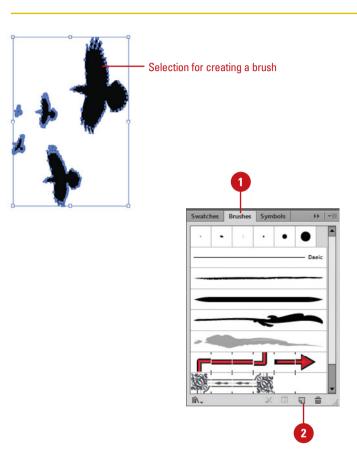


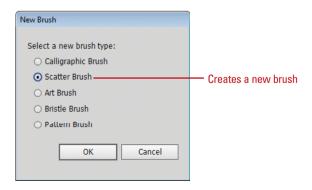
Creating and Editing Scatter Brushes

Create or Edit a Scatter Brush

- 1 Select the **Brushes** panel.
- 2 Do one of the following:
 - Create. Select one or more objects, click the New Brush button on the panel, click the Scatter Brush option, and then click OK. Enter a name for the brush.
 - Edit. Deselect any brushes, and then double-click a Scatter brush.
- 3 Specify the following options:
 - Size. Determines the size of the scatter objects.
 - Spacing. Determines the spacing between the scatter objects.
 - Scatter. Determines the distance between the path and the objects.
 - Rotation. Specifies the rotation range relative to the page or path.
- 4 For the Size, Spacing, Scatter, and Rotation options, click the list arrow, and then select one of the following options:
 - Fixed. Enter a single fixed value.
 - Random. Drag sliders or enter a range for variable value.

Scatter brushes disperse copies of an object along a path. You create a scatter brush from a path, compound path, type character, or type outline. When you use a scatter brush, the brush is applied using a fixed or random method along a path. You use a similar method to create and edit a Scatter brush. You use the Scatter Brush Options dialog box to set the options that you want.

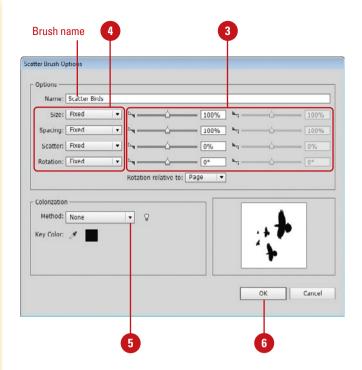


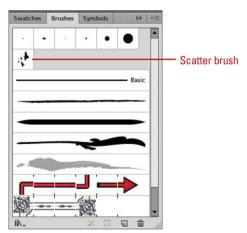


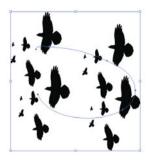
- Pressure, Stylus Wheel, Tilt, Bearing, or Rotation. Drag sliders or enter values when using a drawing tablet.
- 5 Click the **Method** list arrow, and then select an option:
 - None. Retains colors from the Brushes panel.
 - Tints. Changes black areas in the brush stroke to the current stroke color.
 - Tints and Shades. Changes colors in the brush stroke to tints of the current stroke color.
 - Hue Shift. Change the current stroke color to the Key color and change other colors to hue colors. Select the Key color that you want.
- 6 Click **OK**.

If the brush is being used, an alert appears.

7 Click **Apply to Strokes** to apply the modified brush option to existing strokes or **Leave Strokes** to apply the modified brush only to new strokes.







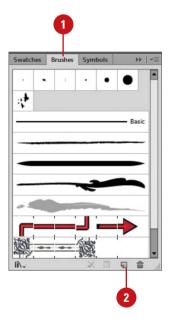
Creating and Editing Calligraphic Brushes

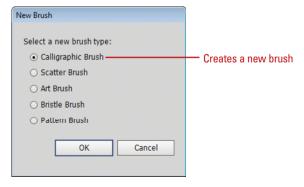
Create or Edit a Calligraphic Brush

- 1 Select the Brushes panel.
- 2 Do one of the following:
 - Create. Select one or more objects, click the New Brush button on the panel, click the Calligraphic Brush option, and then click OK. Enter a name for the brush.
 - Edit. Deselect any brushes, and then double-click a calligraphic brush.
- 3 Specify the following options:
 - Angle. Enter a value (-180 to 180) to specify the angle of rotation for the brush.
 - Roundness. Enter a value (0-100%) to specify the roundness of the brush. Drag a black dot in the preview away from or toward the center.
 - Size. Drag a slider or enter a value (0-1296 points) to specify the diameter of the brush.

Calligraphic brushes resemble strokes you create with a Calligraphy pen. When you use a calligraphic brush, it applies the brush to the center of the path. You use a similar method to create and edit a Calligraphic brush. You use the Calligraphic Brush Options dialog box to set the options that you want. The options include Angle, Roundness, and Diameter.

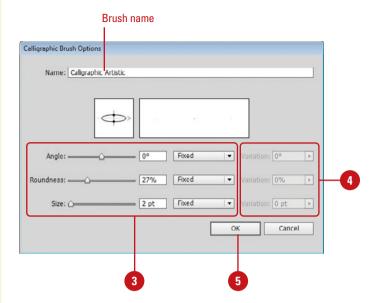


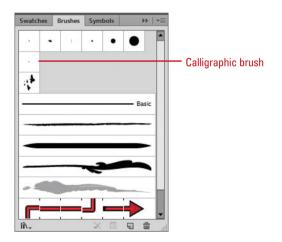




- 4 For the **Angle**, **Roundness**, and **Size** options, click the list arrow, and then select one of the following options:
 - Fixed. Enter a single fixed value.
 - Random. Drag sliders or enter a range for a variable value.
 - Pressure, Stylus Wheel, Tilt, Bearing, or Rotation. Drag sliders or enter values if using a drawing tablet.
- 5 Click **OK**.

 If the brush is being used, an alert appears.
- 6 Click **Apply to Strokes** to apply the modified brush option to existing strokes or **Leave Strokes** to apply the modified brush only to new strokes.





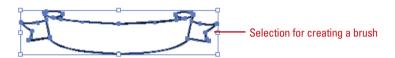


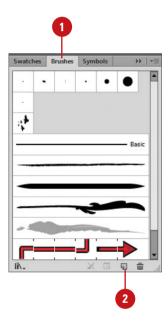
Creating and Editing Art Brushes

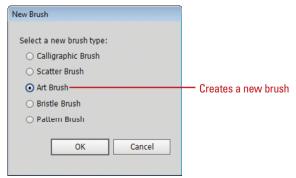
Create or Edit an Art Brush

- 1 Select the Brushes panel.
- 2 Do one of the following:
 - Create. Select one or more objects, click the New Brush button on the panel, click the Art Brush option, and then click OK. Enter a name for the brush.
 - Edit. Deselect any brushes, and then double-click an art brush.
- 3 Specify the following options:
 - Width. Specify a brush width percentage. With a writing tablet, select an art brush width.
 - Brush Scale Option. Specify the scaling for art and pattern brushes along a path. Click the Scale Proportionately, Stretch To Fit Stroke Length, or Stretch Between Guides option.
 - Direction. Select an icon to specify the direction of the artwork in relation to the line.

Art brushes create artistic strokes when painting. When you use an Art brush, it stretches a brush shape or object shape evenly along the center of a path. You use a similar method to create and edit an Art brush. You can use the Art Brush Options dialog box to set the options that you want. The options include: Width, Direction, Scale or Stretch, Flip Along or Flip Across, Colorization, and Overlap (adjusts corner and folds). When you use a writing tablet and 6D pen, such as a Wacom Art Pen, with an art brush, you can set options for pressure, stylus wheel, bearing, rotation, and tilt.

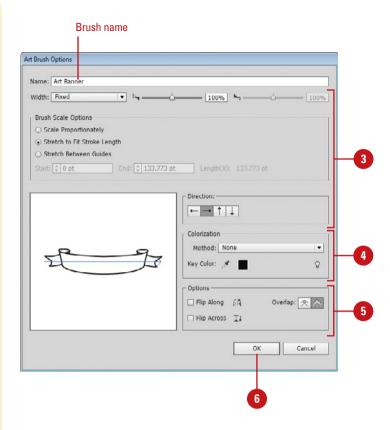


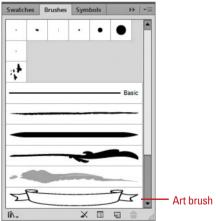


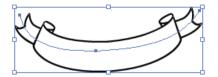


- 4 Click the **Method** list arrow, and then select an option:
 - None. Retains colors from the Brushes panel.
 - Tints. Changes black areas in the brush stroke to the current stroke color.
 - Tints and Shades. Changes colors in the brush stroke to tints of the current stroke color.
 - Hue Shift. Changes the current stroke color to the Key color and changes other colors to hue colors. Select the Key color that you want.
- 5 Specify the following options:
 - Flip Along or Flip Across.
 Select to change the orientation of the artwork in relation to the line.
 - Do Not Adjust Corners And Folds or Adjust Corners And Folds To Prevent Overlap.
 Select to set the brush corner control.
- 6 Click **OK**.

 If the brush is being used, an alert appears.
- 7 Click **Apply to Strokes** to apply the modified brush option to existing strokes or **Leave Strokes** to apply the modified brush only to new strokes.





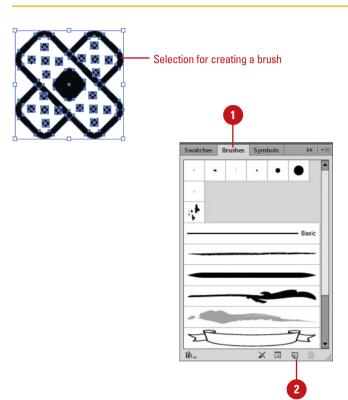


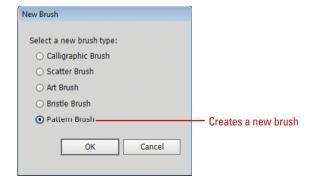
Creating and Editing Pattern Brushes

Create or Edit a Pattern Brush

- 1 Select the Brushes panel.
- 2 Do one of the following:
 - Create. Select one or more objects, click the New Brush button on the panel, click the Pattern Brush option, and then click OK. Enter a name for the brush.
 - Edit. Deselect any brushes, and then double-click a pattern brush.
- 3 Specify the following options:
 - Scale. Enter a value to adjust the size of tiles relative to the original size. With a writing tablet, select a pattern brush width.
 - Spacing. Enter a value to adjust the spacing between tiles.
 - Tile Buttons. Select to apply different patterns to different parts of a path.
 - Flip Along or Flip Across.
 Select to change the orientation of the artwork in relation to the line.
 - Fit. Select an option to adjust the size of the tile.

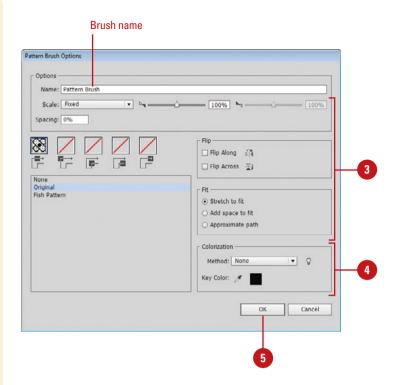
Pattern brushes paint with a pattern. Pattern brushes work the same way as Scatter brushes; however, they follow the path exactly, while Scatter brushes don't. You use a similar method to create and edit a Pattern brush. You use the Pattern Brush Options dialog box to set the options that you want. The options include Scale, Spacing, Tile Buttons, Flip Along or Flip Across, and Fit. When you use a writing tablet and 6D pen, such as a Wacom Art Pen, with a pattern brush, you can set options for pressure, stylus wheel, bearing, rotation, and tilt.

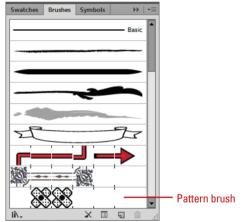


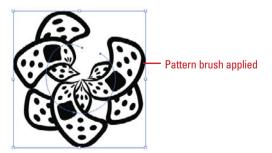


- 4 Click the **Method** list arrow, and then select an option:
 - None. Retains colors from the Brushes panel.
 - Tints. Changes black areas in the brush stroke to the current stroke color.
 - Tints and Shades. Changes colors in the brush stroke to tints and shades of the current stroke color.
 - Hue Shift. Changes the current stroke color to the Key color and changes other colors to hue colors. Select the Key color that you want.
- 5 Click **OK**.

 If the brush is being used, an alert appears.
- 6 Click **Apply to Strokes** to apply the modified brush option to existing strokes or **Leave Strokes** to apply the modified brush only to new strokes.





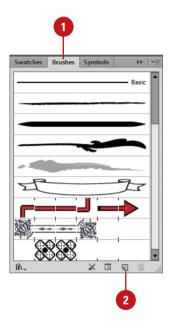


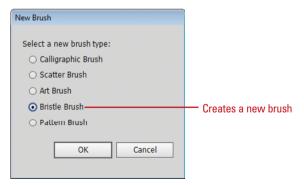
Creating and Editing Bristle Brushes

Create or Edit a Bristle Brush

- 1 Select the Brushes panel.
- Do one of the following:
 - Create. Click the New Brush button on the panel, click the Bristle Brush option, and then click OK. Enter a name for the brush.
 - Edit. Deselect any brushes, and then double-click a bristle brush.
- 3 Click the **Shape** list arrow, and then select a brush shape, such as Flat Point, Flat Angle, Round Blunt, or Round Fan.
- Specify the following options:
 - Size. Specify the diameter of the brush between 1mm and 10mm. The brush size is measured at the point where the bristles meet the handle.
 - Bristle Length. Specify the length of the bristle between 25% and 300%.
 - Bristle Density. Specify the density of the bristle between 1% and 100%. This option is calculated based on the brush size and bristle length. The density is the number of bristles in a specified area of the brush neck.

Bristle brushes simulate the effects of painting with a natural brush, such as watercolors and oils. When you use a bristle brush, it paints with vectors to resemble a natural brush stroke. When you create a bristle brush, you can set brush options, such as brush shape (either, round, flat, or fan), brush size, length, density, thickness, paint opacity, and stiffness. When you use a writing tablet and 6D pen, such as a Wacom Art Pen, with a bristle brush, a cursor simulates the brush tip and the pen automatically responds to pressure, bearing, rotation, and tilt.



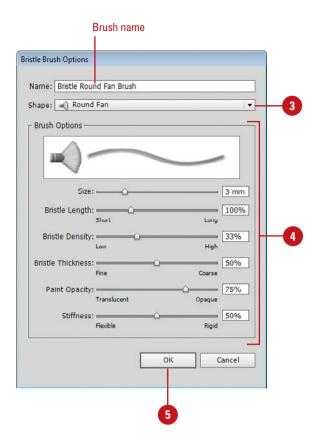


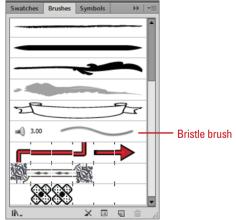
- Bristle Thickness. Specify the thickness of the bristle from fine to coarse between 1% and 100%.
- Paint Opacity. Specify the opacity of the selected paint between 1% (translucent) and 100% (opaque). This value is the maximum opacity used in the brush.

You can use the numeric keys (0-9) as shortcuts to set bristle brush opacity; 0=100%, 1=10%, 9=90%, etc.

- Stiffness. Specify the rigidness of the bristle between 1% to 100%. A lower value creates flexible bristles, while a higher value creates stiffer bristles.
- 5 Click **OK**.

 If the brush is being used, an alert appears.
- 6 Click Apply to Strokes to apply the modified brush option to existing strokes or Leave Strokes to apply the modified brush only to new strokes.





Working with Brushes

Remove Brush Strokes and Delete Brushes

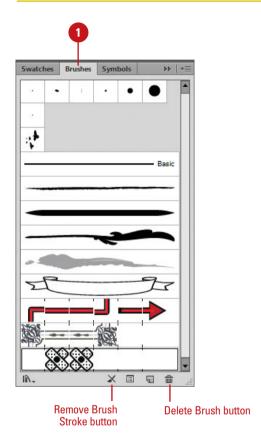
- 1 Select the Brushes panel.
- 2 Do any of the following:
 - Delete from Object. Select the objects with brushes that you want to remove, and then click the Remove Brush Stroke button on the panel.
 - Delete from Brushes Panel.
 Deselect all objects, select the brush you want to delete, and then click the Delete Brush button on the panel. Click Yes to confirm the deletion.

If the brush is currently being used in objects, click **Expand Strokes** to convert the brush to paths or click **Remove Strokes** to remove them from the objects.

Did You Know?

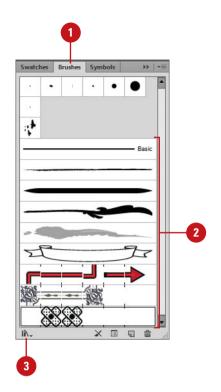
You can convert brush strokes into outlined paths. Select the brushed path, click the Object menu, and then click Expand Appearance. Now, you can edit individual components of the brushed path.

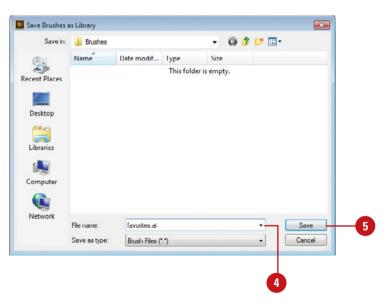
As you create and edit brushes in the Brushes panel or add them into the Brushes panel from other brush libraries, it's important to save them in a brush library if you want to use them again in the future. You can create your own brush libraries by using the Save Brushes command on the Options menu. The Save Brushes command saves all the brushes currently in the Brushes panel, so you need to delete the ones that you don't want in the library. In addition to deleting brushes in the Brushes panel, you can also remove brush strokes from objects.



Save a Brush Library

- 1 Select the Brushes panel.
- Display the brushes that you want to save in the Brushes panel. Remove the ones that you don't want.
- 3 Click the Brush Libraries Menu button, and then click Save Brushes.
- 4 Enter a name for the brushes library.
- 5 Click Save.
- To open the brush library, click the Brush Libraries Menu button, point to User Defined, and then select the saved library.





Working with Liquify Tools

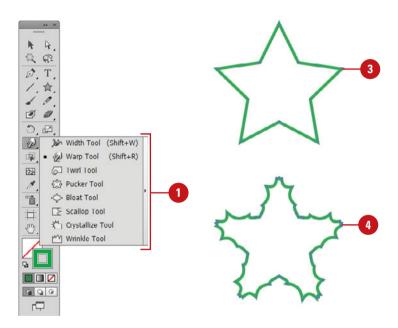
Use a Liquify Tool

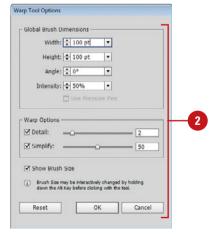
- 1 Select the liquify tool (Width, Warp, Twirl, Pucker, Bloat, Scallop, Crystallize, or Wrinkle) that you want to use on the Tools panel.
- 2 To change tool options, doubleclick the tool on the Tools panel, specify the options that you want, and then click **OK**.

The options vary depending on the liquify tool.

- Position the cursor (which changes to a circle with a crosshair in the middle) over the path that you want to change.
- 4 Click and/or drag to apply the distortion to the path.

Illustrator provides Liquify tools on the Tools panel that allow you to distort a path quickly and easily with the click of a mouse. The Liquify tools include Warp, Twirl, Pucker, Bloat, Scallop, Crystallize, and Wrinkle. All the tools are grouped together in the same slot on the Tools panel. The tools work the same way, they each apply a different distortion effect. You can change the way each tool works by selecting options in the tool's Options dialog box, which you can open by double-clicking the tool on the Tools panel. Some of the common options you can change include brush dimensions.





12

Using Symbols

Introduction

If you use the same object in multiple places in a document, you can use the Symbols panel to store and use it as an instance. A symbol is stored once and used multiple times as an instance, which speeds up printing and reduces the size of your document. Each instance is linked to the original symbol. When you break the link between a symbol and an instance, the instance is converted back to a normal object.

You can place instances one at a time or create a collection of instances with the Symbol Sprayer tool, known as a symbol set. This allows you to quickly create artistic designs without a lot of experience.

With the Symbols panel, you can create, edit, rename, duplicate, and delete symbols. You can create your own symbol from a selected object or you can use the ones provided by Illustrator. Illustrator gives you access to almost 30 different symbol libraries, which include Arrows, Artistic Textures, Flowers, Fashion, Maps, and Nature to name a few.

The Symbol Sprayer allows you to create a symbol set. After you create a symbol set, you can use one of 7 other symbolism tools to modify it. The symbolism tools include: Symbol Shifter (to shift direction and bring forward or send backward), Symbol Scruncher (to move instances closer or farther apart), Symbol Sizer (to increase or decrease size), Symbol Spinner (to change the orientation), Symbol Stainer (to increase or decrease the transparency), Symbol Screener (to recolor with tints), and Symbol Styler (to apply a graphic style). With the Expand command, you can break the link between an instance and the original symbol or break apart a symbol set.

What You'll Do

Use the Symbols Panel Use Symbol Libraries Work with Symbols Duplicate and Edit Symbols Break Symbol Links Use the Sprayer Tool Set Symbolism Tools Options Use the Symbol Shifter Tool Use the Symbol Scruncher Tool Use the Symbol Sizer Tool Use the Symbol Spinner Tool **Use the Symbol Stainer Tool** Use the Symbol Screener Tool Use the Symbol Styler Tool **Expand Symbol Instances Use 9-Slice Scaling for Symbols** Align Symbols to the Pixel Grid **Set the Symbol Registration Point**

Using the Symbols Panel

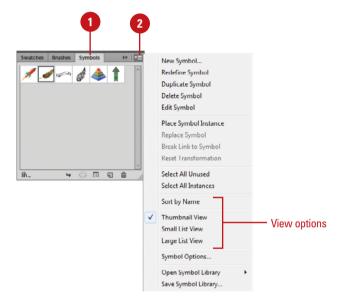
Create Instances with the Symbols Panel

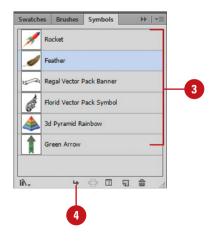
- 1 Select the Symbols panel.
- 2 To change the Symbols panel view, click the **Options** menu, and then select any of the following view available options:
 - Thumbnail View
 - Small List View
 - Large List View
 - Sort by Name
- 3 Select a symbol on the panel.
- 4 Click the **Place Symbol Instance** button on the panel.
 - You can also drag a symbol from the Symbols panel onto an artboard.

Did You Know?

You can duplicate an instance on the arthoard. Alt+drag (Win) or Option+drag (Mac) the instance on the arthoard.

If you use the same object in multiple places in a document, you should store it in the Symbols panel and use it as an instance. A symbol is stored once in the Symbols panel and used multiple times as an instance, which speeds up printing and reduces the size of your document. Each instance is linked to the original symbol. When you select an instance on the artboard, the symbol is selected in the Symbols panel. You select a symbol instance by pointing to the symbol content in normal mode (not just inside the bounding box). You can place instances one at a time or create a collection of instances with the Symbol Sprayer tool, known as a **symbol set**. This allows you to quickly create artistic designs without a lot of experience. With the Symbols panel you can create, edit, rename, duplicate, and delete symbols.





Using Symbol Libraries

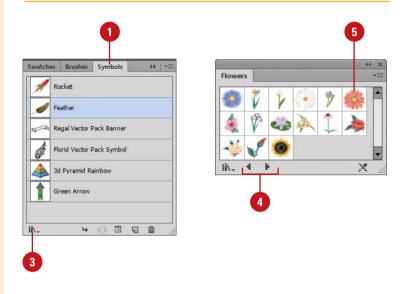
Use Symbol Libraries

- 1 Select the Symbols panel.
- Select a path with any of the selection tools.
- 3 Click the **Symbol Libraries Menu** button on the panel, and then select a symbol library.
- Click the Load Previous Symbol Library or Load Next Symbol Library button to view other libraries.
- 5 Click a symbol in the library panel to add it to the Symbols panel.
- 6 Select a symbol on the Symbols panel.
- Click the Place Symbol Instance button on the panel.
 - You can also drag a symbol from the Symbols panel or any symbols library onto an artboard.

Did You Know?

You can arrange symbols on the Symbols panel. In the Symbols panel, you can drag a symbol to a new spot.

Instead of creating your own symbols, you can use the ones provided by Illustrator. Illustrator gives you access to almost 30 different symbol libraries, which include Arrows, Artistic Textures, Flowers, Fashion, Maps, and Nature, to name a few. When you open a symbol library from the Symbols panel, a new panel appears, displaying the library symbols. Instead of opening each library separately, you can use the Load Previous Symbol Library or Load Next Symbol Library buttons on the panel to quickly view libraries to find the symbols you want. When you click a library symbol, it's added to the Symbols panel.





Working with Symbols

Create a Symbol from an Object

- 1 Create the object that you want to use, and then select it using the **Selection** tool on the Tools panel.
- 2 Select the Symbols panel.
- Click the New Symbol button on the panel.
 - You can also drag the object directly to a blank area on the Symbols panel.
- Type a name for the symbol.
- 5 Click the **Type** list arrow, and then click **Graphic**.
- 6 Click **OK**.
- 7 To rename a symbol in the Symbols panel (**New!**), doubleclick the name, edit it, and then press Enter (Win) or Return (Mac).

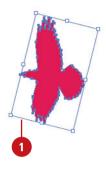
Did You Know?

You can create a symbol without the dialog box. Select the object, and then Alt+drag (Win) or Option+drag (Mac) the object onto the New Symbol button on the panel.

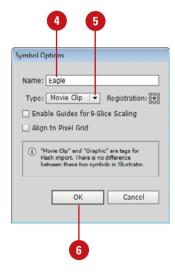
You can change symbol options.

Select the symbol in the Symbols panel, click the Symbol Options button on the panel, change the options that you want, and then click OK.

With the Symbols panel you can create, edit, rename (New!), duplicate, and delete symbols. You can use any object (path, type, and graphics to name a few) in Illustrator to create a symbol. There are two types of symbols: Graphic and Movie Clip (used for Flash, more later). As you create symbols in the Symbols panel or add them into the Symbols panel from other symbol libraries, it's important to save them in a symbol library if you want to use them again in the future. The Save Symbols command saves all the symbols currently in the Symbols panel, so you need to delete the ones that you don't want in the library.









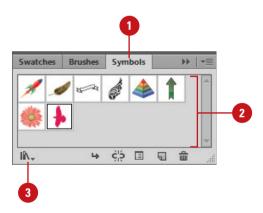
Delete Symbols

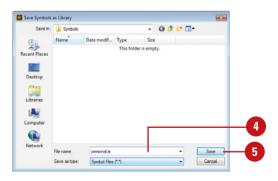
- 1 Select the Symbols panel.
- 2 Select the symbols that you want to delete.
- 3 Click the **Delete Symbol** button on the panel.
 - You can also drag a symbol over the Delete Symbol button to delete it.
- If there are no instances of the deleted symbol, click **Yes** to confirm the deletion. If there are instances, click **Expand Instances** to convert the instance to paths or click **Delete Instances** to remove them.

Save and Create a Symbols Library

- Select the **Symbols** panel.
- 2 Display the symbols that you want to save in the Symbols panel.
 Remove the ones that you don't want.
- 3 Click the Symbol Libraries Menu button, and then click Save Symbols.
- 4 Enter a name for the symbols library.
- 5 Click Save.
- To open the symbol library, click the **Symbol Libraries Menu** button, point to **User Defined**, and then select the saved library.







Duplicating and Editing Symbols

Duplicate a Symbol

- 1 Select the Symbols panel.
- Select the symbol that you want to duplicate.
- 3 Drag the symbol onto the **New Symbol** button on the panel.
 - You can also select an instance on the artboard, and then click
 Duplicate on the Control panel.
- 4 Click the **Symbol Options** button on the panel.
- 5 Type a name for the symbol.
 - You can also double-click the name, edit it, and then press Enter (Win) or Return (Mac) to rename a symbol in the Symbols panel (New!).
- 6 Click OK.

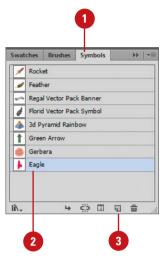
The two symbols are the same and linked to the same instances on the artboard.

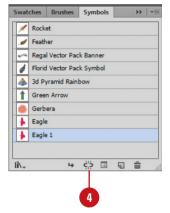
 To make them different, click the Break Link to Symbol button on the panel, and then edit it.

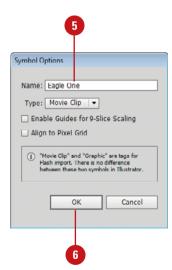
Did You Know?

You can assign names to instances for export to Flash. Select the instance on the artboard, enter a name in the Instance Name field on the Control panel. This is helpful when you export the instances to Adobe Flash for use in movies.

Instead of creating your own symbols, you can duplicate an existing symbol (from a symbol library) that is close to what you want and then edit it. It's faster than creating one from scratch. When you edit a symbol, Illustrator creates a temporary instance in Isolation Mode, where you can make your changes. When you exit Isolation Mode, your changes are applied to all linked instances in your document.







Edit a Symbol

- 1 Select the Symbols panel.
- 2 Double-click the symbol (not the name) that you want to edit.
 - You can also select the symbol, click the Options menu, and then click Edit Symbol.
 - If you're working with an instance, select it, and then click Edit Symbol on the Control panel.

A temporary instance of the symbol appears in isolation mode.

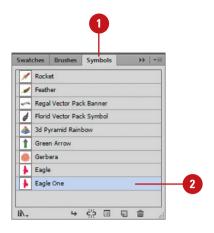
- 3 Make the changes that you want to the symbol.
- 4 Click the gray bar above the document to exit Isolation Mode.

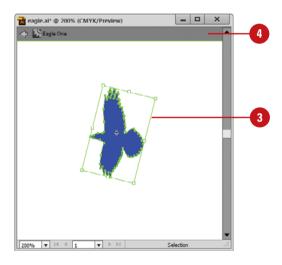
The symbol updates in the Symbols panel and all instances of the symbol are updated as well.

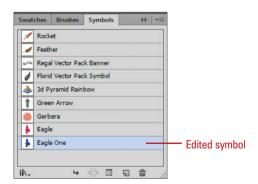
Did You Know?

You can replace the symbols in a symbol set. Select a symbol set on an artboard using the Selection tool, click a replacement symbol on the Symbols panel, click the Options menu, and then click Replace Symbol.

You can create sublayers. In symbol editing mode, you can create sublayers and use Paste Remembers Layers on the Options menu on the Layers panel.







Breaking Symbol Links

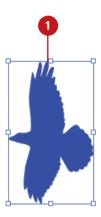
Break a Link Between a Symbol and an Instance

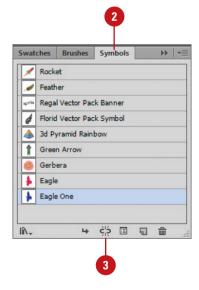
- 1 Select the instance on the artboard for which you want to break the symbol link.
- Select the Symbols panel.
- 3 Click the **Break Link to Symbol** button on the panel.
 - You can also click the Break Link button on the Control panel.

Did You Know?

You can replace one symbol with another in an instance. Select the instance on an artboard using the Selection tool, click a replacement symbol on the Symbols panel, click the Options menu, and then click Replace Symbol.

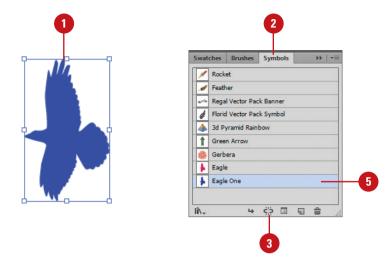
When you create an instance of a symbol, the instance is linked to the symbol, which speeds up printing and reduces the size of your document. When you break the link between a symbol and an instance, the instance converts to a normal object. If you don't want an instance to be updated when you edit a symbol, you can break the link between the symbol and the instance (which creates a normal object), and then create a new symbol with the normal object.

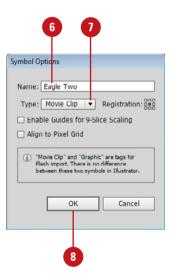


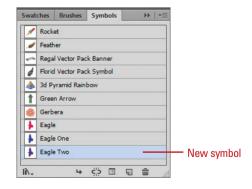


Break a Link and Create a New Symbol

- 1 Select the instance on the artboard for which you want to break a symbol link.
- Select the Symbols panel.
- 3 Click the **Break Link to Symbol** button on the panel.
 - You can also click the Break Link button on the Control panel.
- 4 Make the changes that you want to the object (no longer an instance) on the artboard.
- 5 Drag the object to a blank area on the Symbols panel from an artboard to create a new symbol.
- Type a name for the symbol.
- 7 Click the **Type** list arrow, and then click **Graphic**.
- 8 Click OK.







Using the Symbol Sprayer Tool

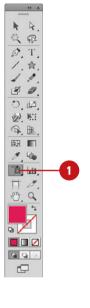
Use the Symbol Sprayer Tool

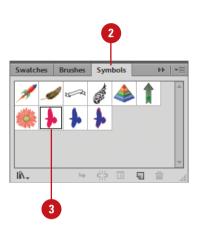
- 1 Select the **Symbol Sprayer** tool on the Tools panel.
- 2 Select the **Symbols** panel.
- 3 Select the symbol that you want to use.
- 4 Click once to create a single instance or click and hold or drag to create multiple instances.

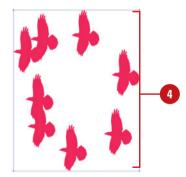
The symbol set of instances appears in a bounding box.

- 5 Do any of the following:
 - Create New Symbol Set.
 Ctrl+click (Win) or
 Command+click (Mac) in a blank area outside the bounding box, and then click again, click and hold, or drag.
 - Add Instances to Symbol Set. Select the symbol set, click a symbol on the Symbols panel, and use the Symbol Sprayer tool.
 - ◆ Delete Instances from a Symbol Set. Select the symbol set, select the Symbol Sprayer tool, Alt+click (Win) or Option+click the instances in the symbol set that you want to delete.

The Symbol Sprayer tool allows you to spray multiple instances of a symbol to create a symbol set. The symbol set appears on the artboard containing all the instances within a bounding box. After you create a new symbol set, you can add or delete instances or quickly create another set. You can customize the way the Symbol Sprayer tool works by setting options in the Symbolism Tools Options dialog box.





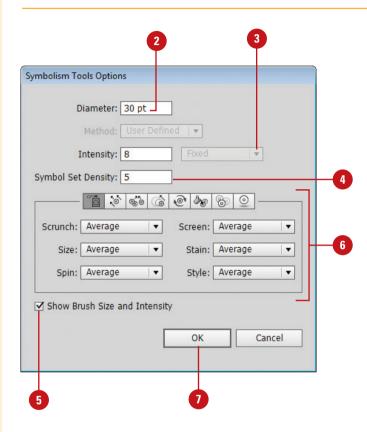


Setting Symbolism Tools Options

Set Symbolism Tools Options

- 1 Double-click any symbolism tool on the Tools panel.
- 2 Enter a **Diameter** value (1-999 points) to specify a default size for the symbols.
- 3 Enter an **Intensity** value (1-10) that designates the rate at which the tools create symbols or changes. The lower the value, the slower the action.
- 4 Enter a **Symbol Set Density** value (1-10) to specify the distance between instances. The higher the value, the closer the instances.
- 5 Select the **Show Brush Size and**Intensity check box to have the
 current diameter setting display as
 a ring around the tool pointer.
- 6 Click a symbolism button to specify or display options for the tool.
 - Symbol Sprayer. For the available options, select Average to add instances based on an average sampling of adjacent instances or User Defined to set a value.
- Click **OK**.

Illustrator comes with 8 symbolism tools: Symbol **Sprayer**, Symbol **Shifter**, Symbol **Scruncher**, Symbol **Sizer**, Symbol **Spinner**, Symbol **Stainer**, Symbol **Screener**, and Symbol **Styler**. While each tool does a different job, you can set common and specific options for any of them in one place: the Symbolism Tools Options dialog box. The common options are Diameter, Intensity, and Symbol Set Density.



Using the Symbol Shifter Tool

Use the Symbol Shifter Tool

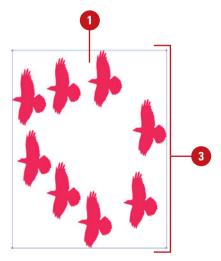
- Select the symbol set that you want to use.
- 2 Select the Symbol Shifter tool on the Tools panel.
- 3 Drag in the symbol set to shift the instances in the direction you want.
- 4 Do any of the following to shift the position of an instance:
 - Bring Forward. Shift+click an instance.
 - Send Backward. Alt+Shift+click (Win) or Option+Shift+click (Mac) an instance.

Did You Know?

You can set Symbol Shifter options.

Double-click the Symbol Shifter tool on the Tools panel, specify the options you want (see page 343 for details), and then click OK. The Symbol Shifter tool allows you to modify the attributes of an existing symbol set. You can shift the direction of instances or change the stacking order (bring forward or send backward) of instances. You can set either of these with a click of the mouse. You can customize the way the Symbol Shifter tool works by setting options in the Symbolism Tools Options dialog box.





Using the Symbol Scruncher Tool

Use the Symbol Scruncher Tool

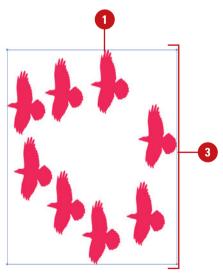
- Select the symbol set that you want to use.
- 2 Select the Symbol Scruncher tool on the Tools panel.
- 3 Do any of the following to move instances closer or farther apart:
 - Move Closer. Click and hold an instance or drag across instances inside the symbol set.
 - Move Away. Alt+click (Win) or Option+click (Mac) an instance or drag across instances inside the symbol set.

Did You Know?

You can set Symbol Scruncher options. Double-click the Symbol Scruncher tool on the Tools panel, specify the options you want (see page 343 for details), and then click OK.

The Symbol Scruncher tool allows you to move instances in an existing symbol set closer together (scrunched) or farther apart. It's easy to do. Simply click and hold or drag inside the symbol set to scrunch instances. Press an additional key to move instances farther away. You can customize the way the Symbol Scruncher tool works by setting options in the Symbolism Tools Options dialog box.





Using the Symbol Sizer Tool

Use the Symbol Sizer Tool

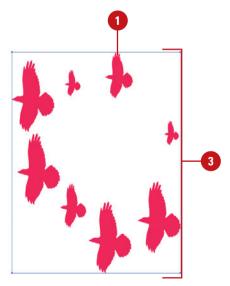
- Select the symbol set that you want to use.
- 2 Select the Symbol Sizer tool on the Tools panel.
- 3 Do any of the following to resize instances:
 - Larger. Click and hold an instance or drag across instances inside the symbol set.
 - Smaller. Alt+click (Win) or Option+click (Mac) an instance or drag across instances inside the symbol set.

Did You Know?

You can set Symbol Sizer options.

Double-click the Symbol Sizer tool on the Tools panel, specify the options you want (see page 343 for details), and then click OK. The Symbol Sizer tool allows you to resize individual instances in the symbol set. It's easy to do. Simply, click and hold or drag inside the symbol set to enlarge instances. Press an additional key to reduce instances. This way, you can get the visual look you want. You can customize the way the Symbol Sizer tool works by setting options in the Symbolism Tools Options dialog box.





Using the Symbol Spinner Tool

Use the Symbol Spinner Tool

- 1 Select the symbol set that you want to use.
- Select the Symbol Spinner tool on the Tools panel.
- 3 Drag an instance in the symbol set in the direction you want it rotated.

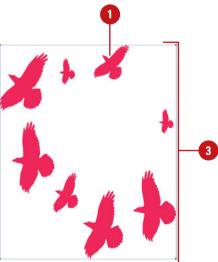
A rotation icon appears as you drag to indicate the current direction.

Did You Know?

You can set Symbol Spinner options.Double-click the Symbol Spinner tool on the Tools panel, specify the options you want (see page 343 for details), and then click OK.

The Symbol Spinner allows you to change the orientation of individual instances in the symbol set. Unlike other symbolism tools, click and hold doesn't do anything. With this tool, you drag inside the symbol set in the direction you want to rotate the instance. A rotation icon appears as you drag to specify the current direction. You can customize the way the Symbol Spinner tool works by setting options in the Symbolism Tools Options dialog box.





Using the Symbol Stainer Tool

Use the Symbol Stainer Tool

- 1 Select the symbol set that you want to use.
- 2 Select the Symbol Stainer tool on the Tools panel.
- 3 Select the fill color that you want to use.
- 4 Do any of the following to recolor the tint of instances:
 - Increase Tint. Click and hold an instance or drag across instances inside the symbol set.
 - Decrease Tint. Alt+click (Win) or Option+click (Mac) an instance or drag across instances inside the symbol set.

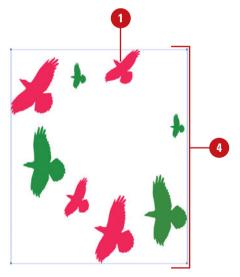
Did You Know?

You can set Symbol Stainer options.

Double-click the Symbol Stainer tool on the Tools panel, specify the options you want (see page 343 for details), and then click OK.

The Symbol Stainer allows you to recolor instances in an existing symbol set. You can recolor solid fills, patterns, and gradients with different tints (shades) of the current fill color for individual instances in the symbol set. This is useful for adding variation to instances. You can customize the way the Symbol Stainer tool works by setting options in the Symbolism Tools Options dialog box.





Using the Symbol Screener Tool

Use the Symbol Screener Tool

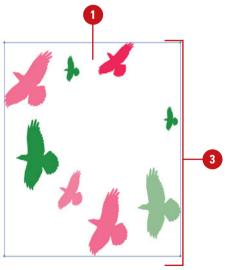
- 1 Select the symbol set that you want to use.
- 2 Select the Symbol Screener tool on the Tools panel.
- Do any of the following to increase or decrease instance opacity (transparency):
 - Increase. Click and hold an instance or drag across instances inside the symbol set.
 - Decrease. Alt+click (Win) or Option+click (Mac) an instance or drag across instances inside the symbol set.

Did You Know?

You can set Symbol Screener options.Double-click the Symbol Screener tool on the Tools panel, specify the options you want (see 343 for details), and then click OK.

The Symbol Screener tool allows you to make instances in an existing symbol set more transparent. You can increase or decrease the opacity for individual instances in the symbol set. This is useful for creating a faded look to instances. You can customize the way the Symbol Screener tool works by setting options in the Symbolism Tools Options dialog box.





Using the Symbol Styler Tool

Use the Symbol Styler Tool

- Select the symbol set that you want to use.
- 2 Select the Symbol Styler tool on the Tools panel.
- Select the Graphic Styles panel.
- Select the graphic style that you want to apply to instances in the selected symbol set.
- 5 Do any of the following to apply or remove a graphic style:
 - Apply Style. Click and hold an instance or drag across instances inside the symbol set.

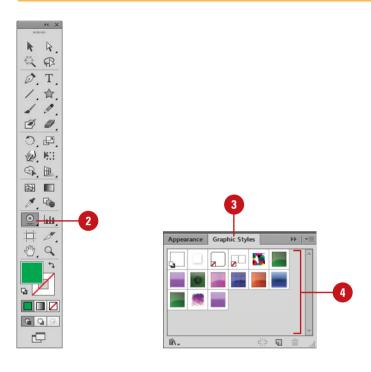
The longer you hold down the mouse, the greater the intensity of the applied style.

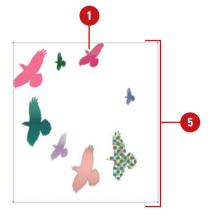
Decrease Style Intensity.
 Alt+click (Win) or Option+click (Mac) an instance or drag across instances inside the symbol set.

Did You Know?

You can set Symbol Styler options.

Double-click the Symbol Styler tool on the Tools panel, specify the options you want (see page 343 for details), and then click OK. The Symbol Styler tool allows you to apply the currently selected graphic style on the Graphic Styles panel to instances in an existing symbol set. It's easy to do. Simply click and hold or drag instances inside the symbol set to apply the graphic style. The longer you hold down the mouse, the greater the intensity of the applied style. You can customize the way the Symbol Styler tool works by setting options in the Symbolism Tools Options dialog box.



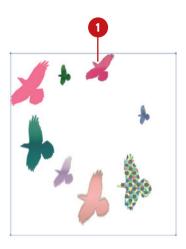


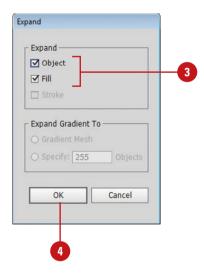
Expanding Symbol Instances

Expand an Instance or a Symbol Set

- 1 Select the instances or symbol set that you want to expand.
- Click the Object menu, and then click Expand or Expand Appearance (if the instance contains an effect).
- 3 Select the **Object** and **Fill** check boxes.
- 4 Click **OK**.

With the Expand command, you can break the link between an instance and the original symbol or break apart a symbol set. When you break the link between an instance and a symbol, the individual paths become nested in a group. When you break apart a symbol set, the individual instances are nested in a group, but the links to the original symbol are maintained.





Using 9-Slice Scaling for Symbols

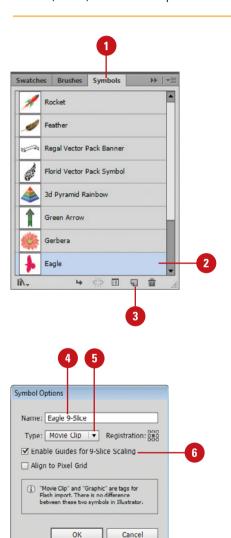
9-Slice Scale a Symbol

- Oselect the Symbols panel.
- Select the symbol on the artboard or in the Symbols panel using the Selection tool on the Tools panel.
- 3 Click the New Symbol button on the panel.
- Type a name for the symbol.
- 5 Click the **Type** list arrow, and then click **Graphic** or **Movie Clip**.
- 6 Select the Enable Guides for 9-Slice Scaling check box.
- Click OK.

Did You Know?

You can reset any transformation to symbols. Select the symbol, and then click the Reset button on the Control panel or click the Options menu in the Symbols panel, and then click Reset Transformation.

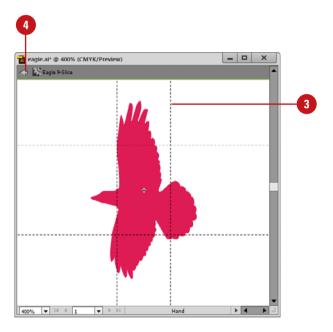
How do you scale objects without distorting them? In the past, you would scale an object equally in height and width. For many objects, this method of scaling doesn't work very well. In Illustrator, a method called **9-slice scaling** is used. A symbol is visually divided into nine areas, or slices, with a grid overlay (dotted lines called slide guides). The 9-slice scaling grid is visible only in isolation mode. Each area of the grid is scaled separately (except the corners), which provides more accurate results. The slide guides are set at 25% of the symbol's height and width by default. Before you can scale a symbol, you need to enable 9-slice scaling. You can use 9-slice scaling for symbols with rotation, shear, and other complex transformations.



Edit the 9-Slice Scaling Grid for a Symbol

- 1 Select the **Symbols** panel.
- 2 Double-click the symbol in the Symbols panel.
- 3 Position the pointer over any of the four guides, and then drag the guide to move it.
- 4 Click the **Exit Isolated Group** button to exit isolation mode.





Aligning Symbols to the Pixel Grid

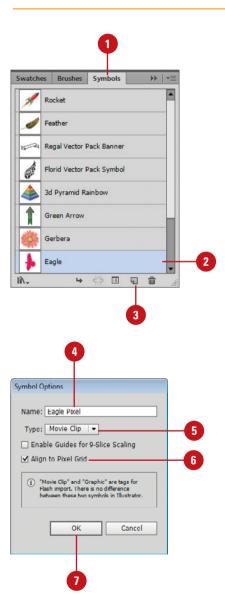
Create a Pixel Aligned Symbol

- Select the Symbols panel.
- Select the symbol on the artboard or in the Symbols panel using the Selection tool on the Tools panel.
- Click the New Symbol button on the panel.
- Type a name for the symbol.
- 5 Click the **Type** list arrow, and then click **Graphic** or **Movie Clip**.
- 6 Select the Align To Pixel Grid check box.
- Click OK.

See Also

See "Creating Pixel Aligned Objects" on page 67 for more information on working with pixel aligned objects.

When you create a symbol, you can enable the object to align to the pixel grid. When you align a symbol to the pixel grid, it creates an object that looks 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 the symbol 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, which you can deselect in the Symbol Options dialog box or Transform panel.

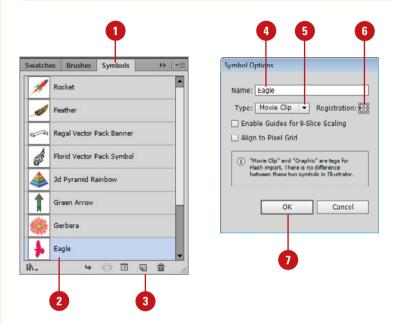


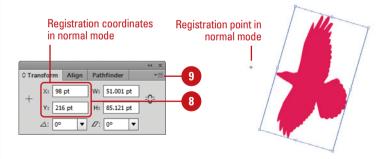
Setting the Symbol Registration Point

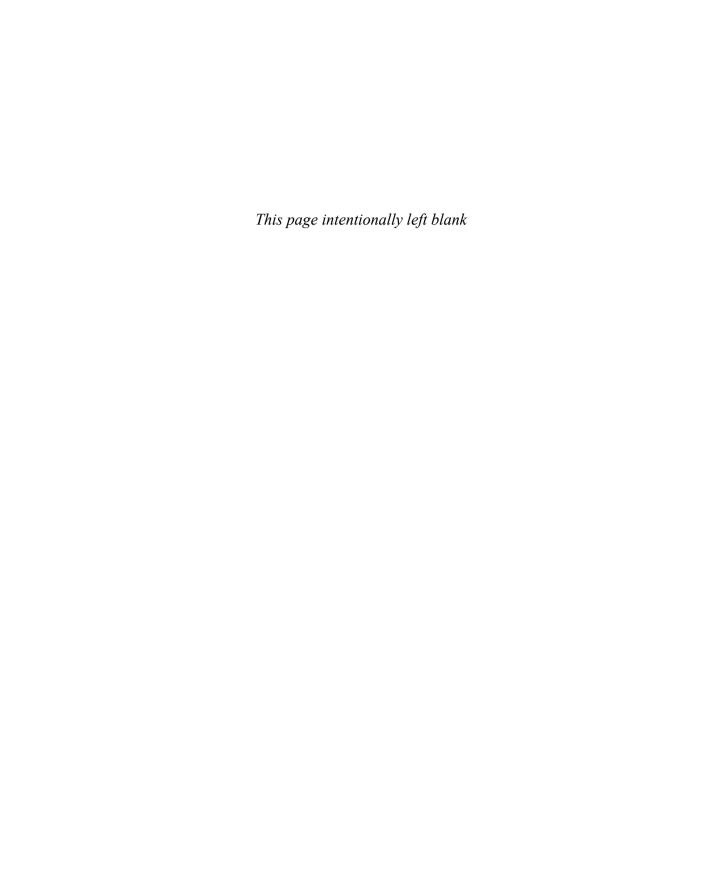
Set and Change the Symbol Registration Point

- 1 Select the **Symbols** panel.
- Select the symbol on the artboard or in the Symbols panel using the Selection tool on the Tools panel.
- Click the New Symbol button on the panel.
- Type a name for the symbol.
- 5 Click the **Type** list arrow, and then click **Graphic** or **Movie Clip**.
- 6 Click any of the 8 point squares to set the registration point.
- Click OK.
- To view/change the registration point coordinates, select the Transform panel, select the symbol in normal or isolation mode, and then view or change the location.
- To enable/disable the use of the registration point, click the Options menu on the Transform panel, and then click Use Registration Point for Symbol.

A registration point is the origin of the symbol; the point on which all transformations are based. For example, when you rotate a symbol, the rotation takes place around the registration point. The symbol registration point in Illustrator is similar to Adobe Flash Professional. When you create a symbol, you can select a registration point from any of the 8 points in the Symbol Options dialog box or change it in the Transform panel. The center point is the default. The registration point is visible as a crosshair in symbol edit/isolation mode and in normal mode when you select the symbol instance.







Automating the Way You Work

Introduction

Actions are similar to recording information on a tape; they record Illustrator commands and, like a tape recorder, can be played back at any time. Actions can be applied to any number of images. You can modify existing actions, and save them into a user-defined set. It's even possible to save them and send them to another Illustrator user. This chapter is dedicated to all the Illustrator users who are tired of doing something over and over again. If you have ever considered using actions as a part of your design workflow, then you're in for a wonderful journey of discovery.

A script is a series of commands that instructs Illustrator to perform a set of specified actions. These actions can be simple, affecting only a single object, or more complex, affecting many objects. Scripts are useful for repetitive tasks and can be used as a creative tool to streamline tasks that are time consuming and boring. You can use one of Illustrator's built-in scripts, such as ExportDocsAsFlash or ImageTracing, or create one of your own.

What You'll Do

Examine the Actions Panel

Build a New Action

Record an Action

Control the Playback of a Command

Add a Stop to an Action

Insert a Non-Recordable Command into an Action

Add a Command to an Action

Delete a Command from an Action

Work with Batch File Processing

Open and Use Scripts

Create and Edit Data Variables

Create and Format a Data Graph

Add Graph Designs to Graphs

Clean Up Unneeded Elements

Examining the Actions Panel

Examine the Actions Panel

- 1 Select the **Actions** panel.
- 2 Check the toggle box to toggle an action on or off.
- 3 Click the dialog box to toggle the dialog function on or off.
- 4 Click the expand triangle to expand or contract an action or set.
- 5 Click the **Options** menu to access all of the Actions panel options.

Did You Know?

You can convert your Actions into single-click buttons. Click the Options menu on the Actions panel, and then click Button Mode. When the Actions panel is in Button Mode, you cannot access or edit the steps in the individual actions. To access the standard Actions panel, click the Options menu on the Actions panel, and then click Button Mode to uncheck the option.

The Actions panel is where you create, save, modify, and store all of your actions. The analogy of a tape recorder is often used in describing the Actions panel, and it's actually a good way to think of actions. The action itself is a recording, and the Actions panel is the tape recorder. When you begin an action, the panel records each step in the process, saves them, and then lets you play them back on another image. In order to record and play actions, you need to understand how to use the Actions panel.



- 6 The following buttons are accessible at the bottom of the Actions panel, from left to right:
 - Stop. Click to stop recording and save an action.
 - Record. Click to begin recording an action.
 - Play. Click to begin execution of the selected action.
 - Create New Set. Creates a new action set.

Sets are like file folders; they store individual actions

- Create New Action. Starts the process of creating a new action.
- Delete. Click to delete the selected action or set.

Did You Know?

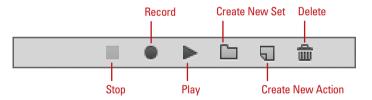
You can save actions into sets. Action sets are like file folders; they hold groups of actions. Select the Actions panel, click the Create New Set button, enter a name for the set, and then click OK.

You can save action sets as files. Select the Actions panel, click the set you want to save, click the Options menu, click Save Actions, enter a name for the file, specify a location,

and then click Save.

You can restore actions to the default set. Select the Actions panel, click the Options menu, click Reset Actions, and then click OK to replace or Append to combine with the current set.





Building a New Action

Build a New Action

- 1 Open a document, and then select the **Actions** panel.
- 2 Click the Create New Action button.
- 3 Enter a name for the action in the Name box.
- 4 Click the **Set** list arrow, and then select in which set to save the action.
- 5 Click the **Function Key** list arrow, and then click F1 - F12 to assign your new action to a function key.
- 6 Select the Shift or Control (Win) or Command (Mac) check boxes to require the pressing of the Shift key, or the Ctrl (Win) or (Mac) key in conjunction with the function key.

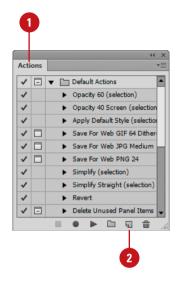
For example, F1, or Shift+F1, or Ctrl+F1, or Shift+Ctrl+F1.

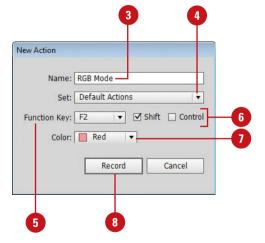
7 Click the **Color** list arrow, and then select from the available colors.

IMPORTANT If you choose a color for the action, it will only be visible if the actions are viewed in Button Mode.

- Click **Record** to begin creating the action.
- 9 Click the **Stop** button on the Actions panel.

Building an action is almost as simple as clicking the record button on a tape recorder. Actions are simply a series of program instructions. When you build an action, you're instructing Illustrator what to name the action, where to store it, and what shortcut keys, if any, will be used to activate the action. Since an action is simply a record of the work performed on an image, it's a good idea to plan out what you intend to do, and then build the action. Remember, actions are designed for tasks you plan to do repeatedly. It wouldn't make sense to create an action for a one-time use.





Controlling the Playback of a Command

Control the Playback of a Command

- 1 Open a document, and then select the **Actions** panel.
- 2 Click the **expand triangle** of the action you want to modify.
- 3 Select the action that you want to play.
- To remove commands from playback, uncheck the command or commands you do not want to execute.
- 5 Make a selection if necessary for use with the action.
- 6 Click the **Play** button on the Actions panel to run the action without executing the unchecked command(s).
- 7 Recheck the command(s) to return them to executable status.

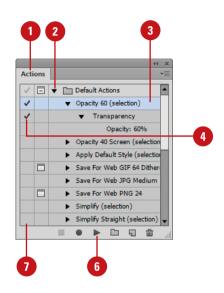
Did You Know?

You can specify the playback speed.

Select the Actions panel, click the Options menu, click Playback Options, specify a speed (Accelerated, Step By Step or Pause For), and then click OK.

You can copy an action. Select the Actions panel, drag the action over the Create New Action button on the panel or select the action, click the Options menu, and then click Duplicate.

Not all actions are created perfectly. Sooner or later, you'll work through the process of action building only to find out (after the action is saved), that you forgot a step, or you need to remove or modify an existing step. Fortunately, Illustrator doesn't make you recreate the action; all you have to do is modify it. When you create an action, all of the commands execute in the order they appear in the list of action steps. However, it's possible you might occasionally want to skip one of the steps in the list, without permanently deleting it. To play an action, simply select it and then click the Play button.





Adding a Stop to an Action

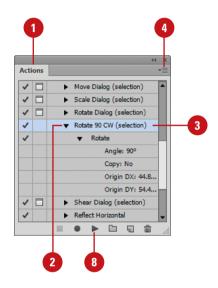
Add a Stop to an Action

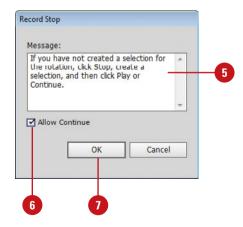
- 1 Open a document, and then select the **Actions** panel.
- 2 Click the **expand triangle** of the action you want to modify.
- 3 Click the command directly above where you want to place the action.
- 4 Click the **Options** menu, and then click **Insert Stop**.
- 5 Enter a message associated with the purpose of the stop action.
- 6 Select the **Allow Continue** check box to add a Continue button to the stop alert box.
- 7 Click **OK**.
- 8 Click the **Play** button on the Actions panel to run the action.

Did You Know?

You can run an action inside an action. Select the Actions panel, click the command directly above where you want to insert the run step for another action, click the Record button, click the action to be added, click the Play button to record the second action into the first action, and then click Stop.

There are times when you want to make changes to individual files during the playback of an action. For example, you want to create an action to transform artwork using the Rotate, Scale, and Shear commands, yet the rotation, scale, and shear settings are not always the same. If the settings you want to use for the action are not the same every time or there is a potential problem, you can insert a stop that allows you to specify the settings you want, and then have the action continue on its way to complete the rest of the steps or stop it all together. This provides you with the automation you want with the flexibility to specify the settings you want.





Inserting a Non-Recordable Command into an Action

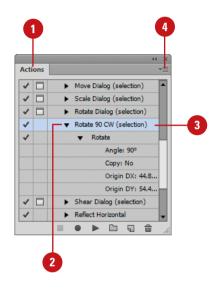
Insert a Non-Recordable Command into an Action

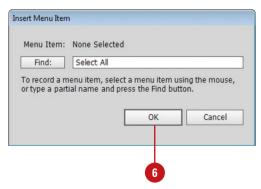
- 1 Open a document, and then select the **Actions** panel.
- 2 Click an action, and then click the expand triangle.
- 3 Click the name of the action to insert the item at the end of the action, or click a specific action step to insert the item after the selected step.
- 4 Click the **Options** menu, and then click **Insert Menu Item**.
- Select a command from the available options (the command is selected by clicking and selecting an item from Illustrator's dropdown menu system).
- 6 Click OK.

The non-recordable command is added to the action steps.

IMPORTANT When you use the Insert Menu Item command for a command that opens a dialog box, you cannot disable the modal control in the Actions panel.

When you create an action, not all commands and tools can be recorded, such as Selection, Pen, Paintbrush, Pencil, Pencil, Gradient, Mesh, Eyedropper, Live Paint Bucket, and Scissors tools or Effects and View menu commands. However, you can insert many non-recordable commands into an action by using an Insert Menu Item command. The Insert Menu Item command can be used when recording an action or after it has been recorded. Inserted commands do not execute until the action is played, so the file remains unchanged when the command is inserted. This gives you the ability to experiment with different non-recordable commands without the risk of damaging a valuable image.





Adding a Command to an Action

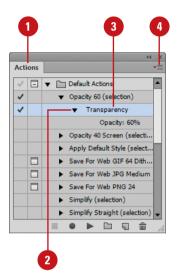
Add a Command to an Action

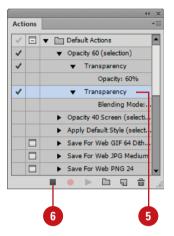
- 1 Open a document, and then select the **Actions** panel.
- Click the expand triangle of the action to which you want to add the command.
- 3 Click the command directly above where you want to insert the new command.
- 4 Click the **Options** menu, and then click **Start Recording**.
- 5 Add the additional command by selecting an Illustrator option.
- 6 When you're finished adding commands, click the **Stop** button on the Actions panel.

The next time the action is run, the additional command will be performed.

Did You Know?

You can change the order of commands in an action. Select the Actions panel, drag the command you want to change up or down in the actions stack. Release the mouse when you see a dark line underneath the command where you want the action. Actions are very versatile; in fact, almost anything that can be done to an image can be placed into an action. You might find that as you perform an action, you need to add an additional command. You can do this with ease; that's why actions are so great to work with. For example, you might create an action to convert an image from the RGB to the CMYK mode, and after you save the action, you decide it would be great to include an effect. You don't have to throw away the previous action and start all over; all you have to do is select where the command will be inserted, restart the action, and perform the new step. The Actions panel is a powerful time-saving tool, and if you forget a step, it's also a breeze to modify.





For Your Information

Using Modal Controls with an Action

Modal controls are pauses in an action that allow you to modify a command before proceeding. Modal controls are available for every command that utilizes a dialog box, or any command that requires the pressing of the Enter/Return key to process the effect. Select the Actions panel, click the second column to activate or deactivate the Modal Control button.

Deleting a Command from an Action

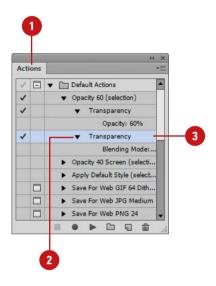
Delete a Command from an Action

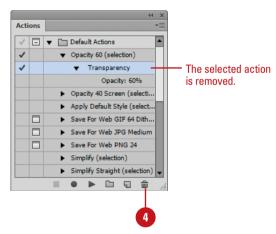
- 1 Open a document, and then select the **Actions** panel.
- Click the **expand triangle** of the action from which you want to delete the command.

IMPORTANT You cannot delete a command from a running action.

- 3 Click the command you want to delete.
- 4 Select from three deletion methods:
 - Drag the command over the Delete button.
 - Click the command, click the Delete button, and then click Yes in the Delete the Selection alert box.
 - Click the command, and then hold down the Alt (Win) or Option (Mac) key, and then click the **Delete** button to delete the command without the alert box message.

Occasionally, you may want to permanently delete a command from an existing action. If that's the case, Illustrator makes the process quick and easy. An action consists of a group of steps. As the action executes, each step is completed in the order in which it appears within the action list. No one step is dependent upon another, so if you want to remove a step, it's a simple process of deletion. Once the command is removed, the action will perform as if the deleted command never existed.





Working with Batch File Processing

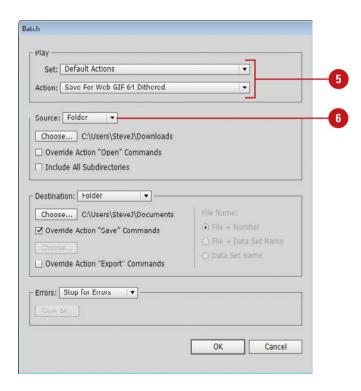
Work with Batch File Processing

1 Create a new folder, and then move all the images into the folder.

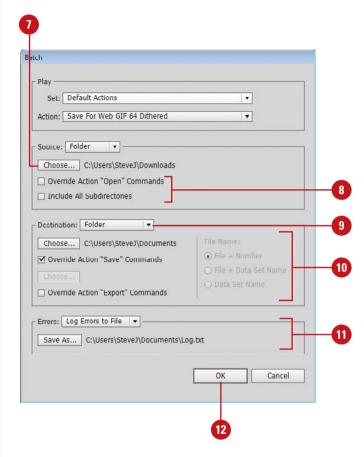
IMPORTANT These files must be Illustrator files. There should not be any other files, such as text files, inside this folder.

- Create a second folder to hold the modified images (optional).
- 3 Select the Actions panel.
- 4 Click the **Options** menu, and then click **Batch**.
- 5 Select from the following Play options:
 - Click the Set list arrow, and then select the Set containing the Action you want to apply to the images.
 - Click the Action list arrow, and then select the correct Action.
- 6 Click the Source list arrow, and then select an image source from the following: Folder or Data Sets.

There is nothing more exciting than working on a new creative project, and watching your designs come to life. Conversely, there is nothing more tiresome than having to apply a new creative concept or correction individually to many additional images. For example, you just spent three hours coming up with a procedure to apply color and blending modifications to one of the company's logos. The photo logo looks great; however, you now have to apply color and blending modifications to all of the company's logos. You could create an action, but you would still have to open each image and apply the action individually. The solution is to batch process the images after you have created the action. Batch file processing lets you apply an action to an entire folder of files, and all you have to do is click a button. Now, what could be simpler than that?



- Click Choose (available if Folder is selected as the source), and then select the location of the image folder.
- 8 Select the check boxes for any options you want:
 - Override Action "Open"
 Commands. Select to use an open command embedded into the Action.
 - Include All Subdirectories.
 Select to batch process any images located in folders embedded in the main image folder.
- 9 Click the **Destination** list arrow, and then click **None**, **Save and Close**, or **Folder**.
- 10 Specify options for the Save or Export commands:
 - Click Choose (available if Folder is selected as the source), and then select the destination of the modified images.
 - Select the Override Action "Save" Commands or Override Action "Export" Commands check box to use a save or export command embedded into the Action.
 - Select File Name options to create sequential files name in a batch sequence.
- 11 Click the Errors list arrow, select an errors option, and then click Save As to save your error information, if necessary.
- 12 Click **OK**.



For Your Information

Things to Remember About Batch File Processing

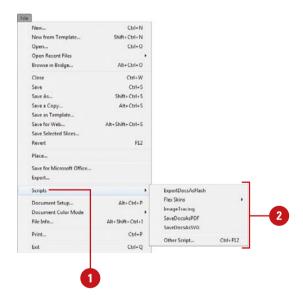
There are many settings and requirements in order to make your batch file processing a success. Remember that before you begin, you need to have a created action. After your action is created, and all the kinks are worked out, you can then set up your batch file processing. Knowing ahead of time where the source images are, where you'll be storing them (destination), having a naming convention, and other similar details will help reduce your setup of the batch file processing to a few easy steps.

Opening and Using Scripts

Use Built-in Scripts

- 1 Click the File menu, and then point to Scripts.
- 2 Select one of the following built-in scripts:
 - ExportDocsAsFlash.
 - Flex Skins. Then select Create Flex 3 Skin or Export Flex 3 Skin.
 - ImageTracing. (New!)
 - SaveDocsAsPDF.
 - SaveDocsAsSVG.

A script is a series of commands that instructs Illustrator to perform a set of specified actions. These actions can be simple, affecting only a single object, or more complex, affecting many objects. The actions can call not only Illustrator, but also invoke other applications. Scripts are useful for repetitive tasks and can be used as a creative tool to streamline tasks that are time consuming and boring. A scripting language lets you ask a guestion (an event), and use the answer to that question to perform any commands (an action) that are available in Illustrator. You can use one of Illustrator's built-in scripts, such as ExportDocsAsFlash, ImageTracing (New!), or SaveDocsAs PDF, or create one of your own. To create your own scripts you need a working knowledge of a scripting language like JavaScript, and either a scriptediting application or a simple text editor, such as Notepad (Win), TextEdit (Mac) BBEdit or even Microsoft Word. The languages you can use to perform scripting are varied and include Visual Basic, AppleScript, and JavaScript, to name a few. As a matter of fact, the Scripts Events Manager lets you set JavaScript and Illustrator Actions to run automatically when a specified Illustrator event occurs.

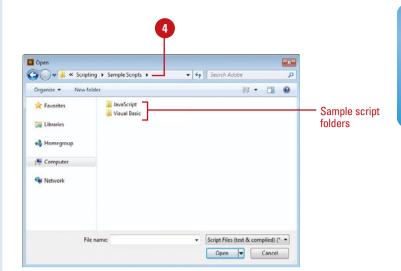


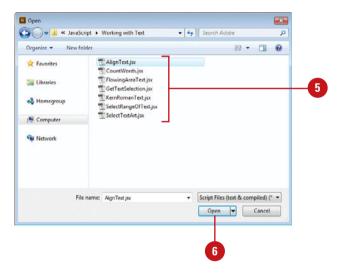
Open and Use Enhanced Scripting

- Open a text editor, and then create a script using any approved scripting language.
- Save the document with the correct extension, for example, ActiveLayer.js for JavaScript.
- 3 To access the script in Illustrator, click the File menu, point to Scripts, and then click Other Script.

TIMESAVER Press Ctrl+F12 (Win) or & +F12 (Mac).

- 4 Navigate to the folder or drive where your script file is located.
- 5 Click the script that you want to run.
- 6 Click Open to run the script.
 Your script appears in a browser window.





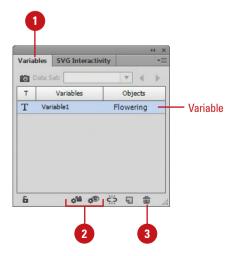
Defining and Editing Data Variables

Create Data Variables

- 1 Select the Variables panel.
- 2 Select from the available options:
 - Variable. Click the New Variable button. To bind it to an object, select the object and variable, and then click the Make Object Dynamic or Make Visibility Dynamic button.
 - Graph Data. Select the graph object, and then click the Make Object Dynamic button.
 - Linked File. Select the linked file, and then click the Make Object Dynamic button.
 - Text String. Select the text object, and then click the Make Object Dynamic button.
 - Visibility. Select the object that you want to show or hide, and then click the Make Visibility Dynamic button.
- 3 To delete a variable, select it, click the **Delete Variable** button, and then click **Yes** or **No** for all occurrences.

When you work with objects in Illustrator, you can define variables to drive them in a template document. Data-driven objects make it possible to create multiple versions of an object quickly and precisely. For example, you need to produce several web banners using the same template. Instead of creating each banner, one at a time, you can use data-driven graphics to generate web banners using variables and data sets. Any artwork can be converted into a template for data-driven graphics by defining variables for objects in the image. A **data set** is a collection of variables and associated data. You can switch between data sets to upload different data into your template. You can work with variables and data sets in the Variables panel. The left column displays the variable name and the right column displays the bound object name as shown in the Layers panel. There are four types of variables: Graph Data, Linked File, Text String, and Visibility.





Create a Data Set

- 1 Select the Variables panel.
- 2 Display the variables that you want in the data set.
- 3 Click the **Capture Data Set** button on the panel to create a data set.
- 4 Edit the objects associated with the variables on the artboard.

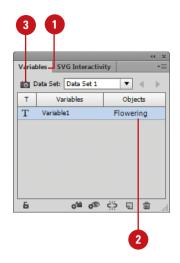
Image visibility, the text in a type layer, or exchanging one image for another, can now be controlled through changing variables.

- 5 Click the **Capture Data Set** button on the panel to create another data set.
- 6 Repeat Steps 4 and 5 for each variable in the template.
- 7 To switch between data sets, click the **Data Set** list arrow, and then select a data set.
- To apply the data on the artboard to the current data set, click the Options menu, and then click Update Data Set.

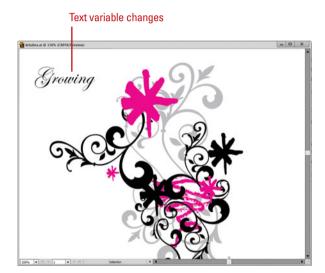
Did You Know?

You can delete a data set. Select the Variables panel, click the Data Set list arrow, select the data set that you want to delete, click the Options menu, and then click Delete Data Set.

You can rename a data set. Select the Variables panel, click the Data Set list arrow, select the data set that you want to rename, select the name in the Data Set box, type a name, and then press Enter (Win) or Return (Mac).





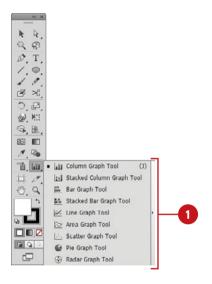


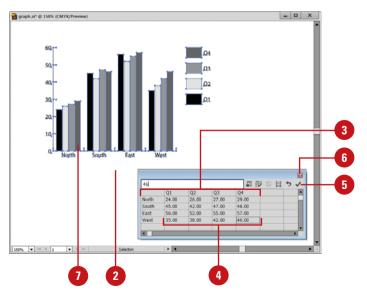
Creating and Formatting a Data Graph

Create a Data Graph

- 1 Select a graph tool on the Tools panel.
- Drag to create a data graphic the size that you want. Alt+drag (Win) or Option+drag (Mac) to draw from the center.
- 3 Enter data labels in the first row and column for the graph in the Graph Data window. Press Enter (Win) or Return (Mac) to add the text.
- 4 Enter data for the graph in the Graph Data window. Press Enter (Win) or Return (Mac) to add the data.
- 5 Click the **Apply** button to display your data changes in the graph on the artboard.
- 6 When you're done, click the Close button in the Graph Data window.
- 7 To edit and modify graphs, select the graph object, click the Object menu, point to Graph, and then select a graph command: Type, Data, Design, Column, or Marker.

A graph allows you to display data in a visual way. With Illustrator, you can create nine different graphs: Column, Stacked Column, Bar, Stacked Bar, Line, Area, Scatter, Pie, and Radar. After you select the type of graph you want to create, you draw the size of the graph you want, and then enter data in the Graph Data window. To edit and modify a graph, select the graph object, and use commands on the Graph submenu on the Object menu. After you create a graph, you can format it. You can change the appearance and position of the graph's axes, add drop shadows, move the legend, and combine different types. For a more customized look, you can change colors, shading, typeface, and apply transparency, gradient, blends, brush strokes, and graphic styles.



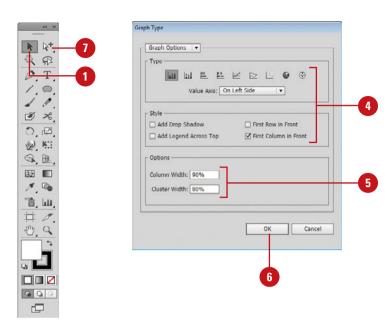


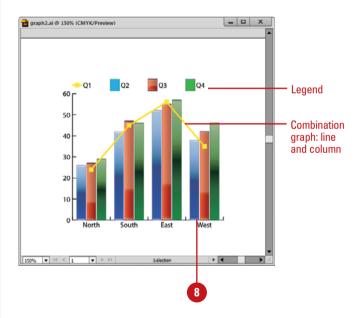
Format a Data Graph

- 1 Select the **Selection** tool on the Tools panel.
- Select the graph.
- 3 Click the **Object** menu, point to **Graph**, and then click **Type**.

TIMESAVER Double-click the Graph tool on the Tools panel.

- 4 Do any of the following to format the data graph:
 - Type. Click a type button.
 - Value Axis. Places axis values on the left, right, or both sides.
 - Add Drop Shadow. Applies a drop arrow behind items.
 - Add Legend Across Top.
 Displays the legend horizontally.
 - First Row In Front. Controls the overlap of graph data.
 - First Column In Front. Places the column of data on top.
- 5 Select the graph specific options you want; the options vary depending on the graph type. For line graphs, select check boxes to Mark Data Points, Connect Data Points, and Draw Filled Lines.
- 6 Click OK.
- 7 To select parts of a graph, click the Group Selection tool on the Tools panel, and then click the graph part. To select a group of parts, click the graph part again.
- 8 To change the color, stroke, style, or opacity, select the graph part, and then use the options on the Control panel.
 - To combine graph types, select the graph data part, doubleclick the **Graph** tool, select a type, and then click **OK**.





Adding Graph Designs to a Graph

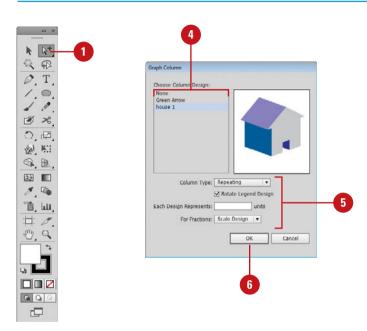
Add a Graph Design to a Graph

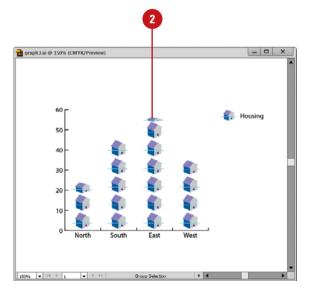
- 1 Select the **Group Selection** tool on the Tools panel.
- 2 Select the column or marker in the graph you want to replace.
- 3 Click the Object menu, point to Graph, and then click Column or Marker.
- 4 Select the design you want to use.
- 5 For a column design, select any of the following:
 - Column Type. Select a column type: Vertically Scaled, Uniformly Scaled, Repeating, or Sliding (scale bottom, not top).
 - Rotate Legend Design. Rotate the design in the legend.
 - Each Design Represents. The number of units per design (Repeating type).
 - For Fractions. Chop or scale a partial design (Repeating type).
- 6 Click OK.

Did You Know?

You can create a column or marker design. Create the design using any of the drawing tools. Select the design with the Selection tool. Click the Object menu, point to Graph, click Design, click New Design, click Rename, type a name, click OK, and then click OK.

You can use graph designs to add graphics or symbols to columns or markers in a graph. You can create your own graph designs using a graphic or symbol, or use one of the sample swatch libraries provided by Illustrator (in the Adobe/Adobe Illustrator CS6/Cool Extras/Sample Files/Graphics Designs). After you create a graph and select a column or marker (line or scatter type), you can add a graph design to it.



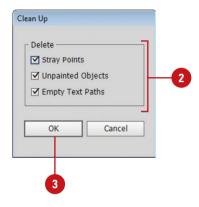


Cleaning Up Unneeded Elements

to fonts that may not be available when you send source files to prepress. Unpainted objects, those without a fill nor a stroke, may cause overlapping objects to display or print incorrectly. With the Clean Up command, you can have Illustrator automatically remove unneeded elements from your document.

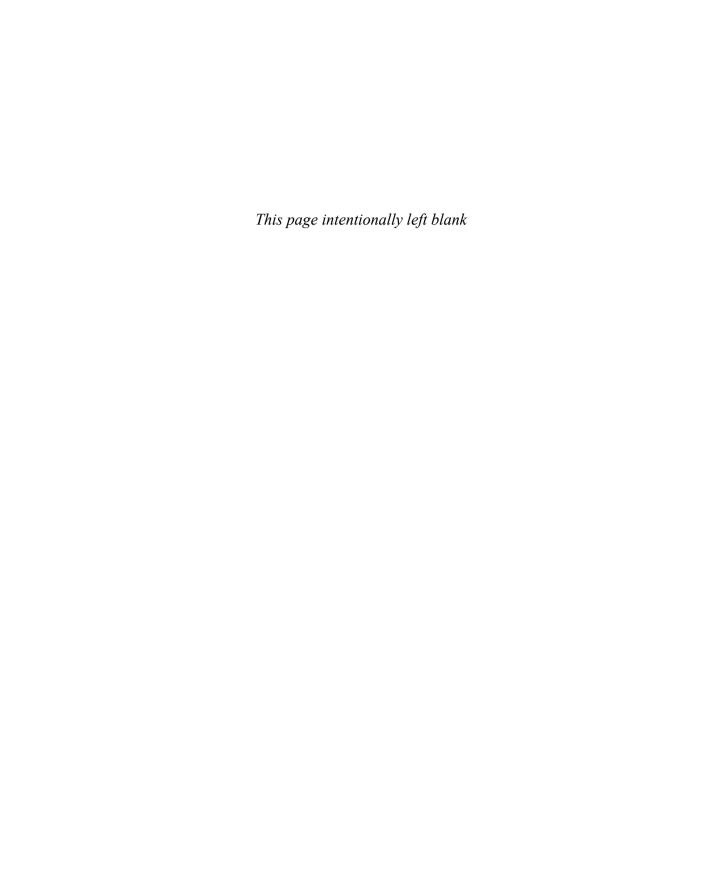
Clean Up Unneeded Elements

- 1 Click th Object menu, point to Path, and then click Clean Up.
- Select any of the following:
 - Stray Points. Select to remove stray points, those with a single anchor point with no path.
 - Unpainted Objects. Select to remove unpainted objects, those without a fill nor stroke.
 - Empty Text Paths. Select to remove empty text objects.
- 3 Click OK.



While you work on revision after revision of a document, it may contain stray anchor points, empty text objects or unpainted objects that may

cause problems later. Stray anchor points can sometimes cause files to export with unexpected size boundaries. A stray point is a single anchor point with no path. Empty text objects may contain references



Proofing and Printing Documents

14

Introduction

The Print command is probably the most used of all Illustrator's print options. The Print command is a portal to other menus that let you control specific printing functions, such as crop marks and bleeds, output ink, graphics, and color management. Color separations divide artwork into four plates by color, known as process colors. Each plate represents a CMYK (Cyan, Magenta, Yellow, and Black) color. The Separations Preview panel allows you to preview color separations on your screen. You can preview spot color objects and check for rich black areas and overprinting. If you frequently use custom settings to send an Illustrator document to a local printer or commercial printer for printing, you can save time by creating a preset. Before you print your document, it's important to check the Summary category in the Print dialog box. The summary information is good to have if you're having problems printing your job at a commercial printer.

When you save a document, you have the ability to save more than just Illustrator information. You can save copyright, camera, and even image category information. This data is saved with the file as metadata in the XMP format (Extensible Metadata Platform) in Illustrator files, and can be recognized and accessed by any application, such as Adobe Bridge, that reads XMP metadata. The Document Info panel allows you to view information about a selected object or the entire document. You can display information about graphic styles, brushes, spot colors, patterns, gradients, fonts, linked images, and embedded images by using the Options menu.

What You'll Do

Use Spell Check

Use the Custom Dictionary

Find and Replace Text and Elements

Find and Change Fonts

Print a Document

Print with Presets

Set General Print Options

Set Marks and Bleed Options

Set Graphics Options

Preview Color Separations

Set Output Options

Set Advanced Options

Set Color Management Options

Check for Print Problems

Insert File Information

Use the Document Info Panel

Using Spell Check

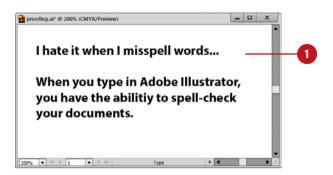
Use Spell Check

- 1 Open a document that contains one or more Type objects.
- 2 Click the Edit menu, and then click Check Spelling.
- 3 Click Start.
- When Illustrator encounters a word not in its dictionary, it displays that word in the Word Not Found box, and allows you to choose one of the following options:
 - Ignore. Ignore this word one time.
 - Ignore All. Ignore all instances of this word.
 - Change. Change the word, based on the selected suggestion.
 - Change All. Change all occurrences of the word, based on the selected suggestion.
 - Add. Add the word to Illustrator's dictionary.

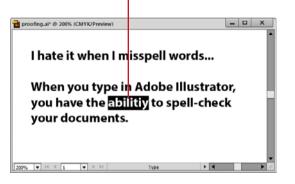
Illustrator continues to highlight misspelled words until the document is completely scanned.

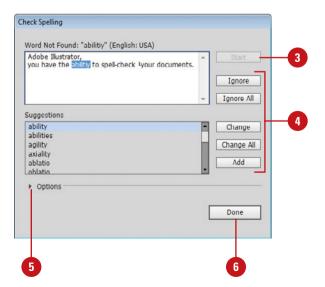
- To specify additional find and ignore options, click the **Options** arrow.
- 6 When you're finished, click **Done**.

There's nothing more embarrassing than creating a document that contains misspelled words. Although you wouldn't use Illustrator if all you needed to do was create a text document, Illustrator includes a fully functional spell checking system, which at least lets you make sure all of your words are spelled correctly.



Highlighted word identified by spell checker.



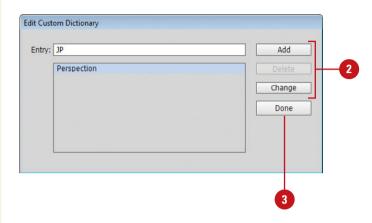


Using Custom Dictionaries

Use a Custom Dictionary

- 1 Click the Edit menu, and then click Edit Custom Dictionary.
- Do any of the following:
 - Add an Entry. Enter an entry, and then click Add.
 - Delete an Entry. Select an entry, and then click Delete.
 - Change an Entry. Select an entry, edit it, and then click Change.
- When you're finished, click **Done**.

Illustrator comes with a custom dictionary for the spell checker. If you need to manage dictionary content, you can use the Edit Custom Dictionary dialog box to add, delete, or edit words. The ability to edit the dictionary becomes useful when you accidentally enter a word that you don't want in the dictionary, or you have some specialty words that you want to enter in all at once.

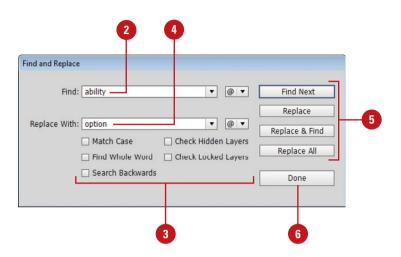


Finding and Replacing Text and Elements

Use Find and Replace

- 1 Click the Edit menu, and then click Find and Replace.
- 2 Enter the text to locate in the Find hox.
- 3 Select from the following Find and Replace options:
 - Match Case. Select to search for the word in the same case as typed in the Find box.
 - Find Whole Word. Select to search for whole words as typed in the Find box.
 - Check Hidden Layers. Select to search hidden layers.
 - Check Locked Layers. Select to search locked layers.
 - Search Backwards. Select to search in the reverse direction.
- 4 Enter the replacement text in the Replace With box.
- 5 Click **Find Next** to locate the next occurrence of the word:
 - Click Replace to change the word.
 - Click Replace & Find to automatically change the word and locate the next occurrence.
 - Click Replace All to change all occurrences of the word.
- When you're finished, click **Done**.

In the editing process, it is sometimes helpful to find and replace a particular word or phrase because the text needs to be changed, either in one spot or globally throughout the document. The Find and Replace command makes it easy to locate and replace specific text in a document. In addition to text, you can also find and replace other elements, such as a bullet character, tab character, Em Space, and quotation marks.





Use Find and Replace Elements

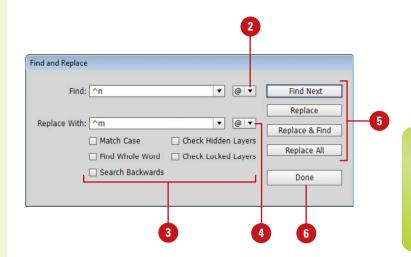
- 1 Click the Edit menu, and then click Find and Replace.
- Click the Arrow button next to the Find box, and then select the element type that you want to find.

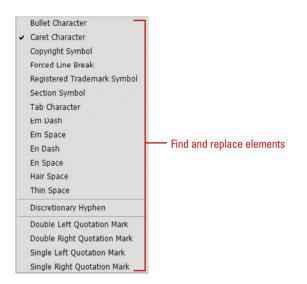
The special characters are added to the Find box. You can also add text.

- 3 Select from the following Find and Replace options:
 - Match Case. Select to search for the word in the same case as typed in the Find box.
 - Find Whole Word. Select to search for whole words as typed in the Find box.
 - Check Hidden Layers. Select to search hidden layers.
 - Check Locked Layers. Select to search locked layers.
 - Search Backwards. Select to search in the reverse direction.
- 4 Click the **Arrow** button next to the Replace With box, and then select the element type that you want to use for replacement.

The special characters are added to the Replace With box. You can also add text.

- 5 Click **Find Next** to locate the next occurrence of the element:
 - Click Replace to change the element.
 - Click Replace & Find to automatically change the element and locate the next occurrence.
 - Click Replace All to change all occurrences of the element.
- 6 When you're finished, click **Done**.





Finding and Changing Fonts

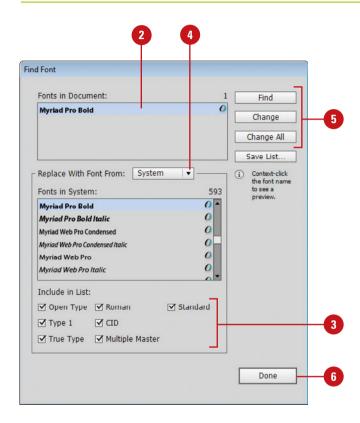
Find or Change a Font

Click the Type menu, and then click Find Font.

The fonts in the top list are the ones currently used in your document. The list at the bottom displays fonts in your document or on your computer, depending on your setting.

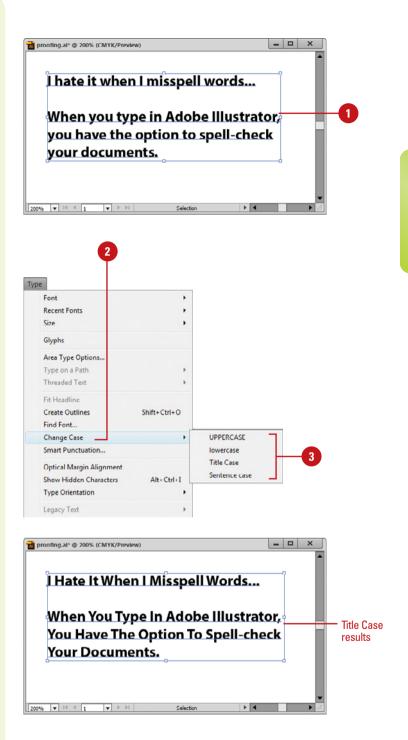
- 2 To find a specific font, select it in the top list.
- 3 Select the check boxes at the bottom to specify the font attributes that you want to find.
- To replace the font in the top list, select a font in the bottom list. Click the **Replace With Font From** list arrow, and then click **System** to show all the fonts on your computer.
- 5 Click Find to display the first instance of the font, and then click Change to replace it, or click Change All to replace all uses of the font in your document.
- 6 When you're done, click **Done**.

Say you create some artwork using a certain font. After the customer or client reviews, they ask you to change it. Instead of manually changing each use of the font, you can use the Find Font command to quickly find and change every instance of the font in your document. If you're not sure what fonts are used in your document, the Find Font dialog box gives you a list. If there are paragraphs with inconsistent use of capitalization in your document, you can also use change case options to fix them.



Change Case

- 1 Select the type for which you want to change case.
- Click the Type menu, and then point to Change Case.
- Select one of the following:
 - UPPERCASE.
 - lowercase.
 - Title Case.
 - Sentence case.

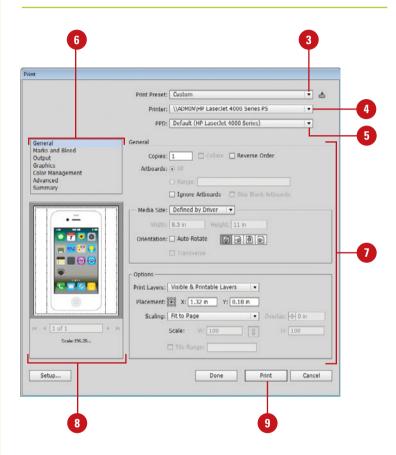


Printing a Document

Print a Document

- Click the File menu, point to
 Document Color Mode, and then
 click CMYK Color or RGB Color.
 - Check your printer for the best color mode setting.
- Click the File menu, and then click Print.
- 3 Click the **Print Preset** list arrow, and then select a preset.
- 4 Click the **Printer** list arrow, and then select an available printer.
- 5 Click the **PPD** list arrow, and then select a PPD (if available).
 - A PPD (PostScript Printer Description) is a printer driver, a specific file used by commercial and specialty printers to define an output device.
- 6 Select a print category (General, Marks and Bleed, Output, Graphics, Color Management, Advanced) with your desired settings.
- 7 Select the options that you want; see other pages in this chapter for option specifics.
- 8 Use the navigation buttons to view preview pages. Drag artwork in the preview to move it around.
- 9 When you're finished, click Print.

The Print command is probably the most used of all Illustrator's print options. The Print command is a portal to other menus that let you control specific printing functions, such as crop marks and bleeds, output ink, graphics, and color management. Understand that the options available for the Print command will be partially determined by your default printer. For example, if your default printer uses more than one paper tray, you will see options for selecting a specific tray for the current print job. In spite of the differences, there are some universal options for all print jobs, and these are covered here.

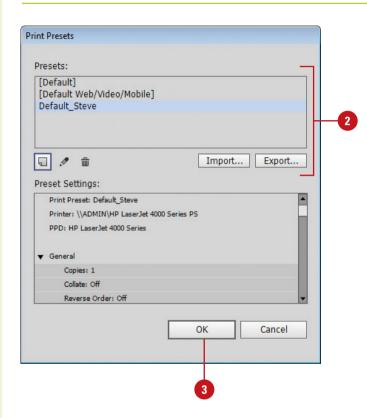


Printing with Presets

Create a Preset for Printing

- Click the Edit menu, and then click Print Presets.
- Perform any of the following:
 - New. Click the New button, specify the options that you want, and then click OK.
 - Edit. Select a custom preset (not a predefined one), click the Edit button, change the options, and then click OK.
 - Delete. Select a custom preset (not a predefined one), and then click the Delete button.
 - Import. Click Import, navigate to the preset file, select it, and then click Open.
 - Export. Select a preset, click
 Export, specify a location and name, and then click Save.
- 3 Click **OK**.

If you frequently use custom settings to send an Illustrator document to a local printer or commercial printer for printing, you can save time by creating a preset. Adobe Creative Suite programs, including Illustrator, InDesign, Photoshop, and Acrobat, provides built-in presets that you can use in any of the programs. When you create your own preset, you can also use it in other CS programs.

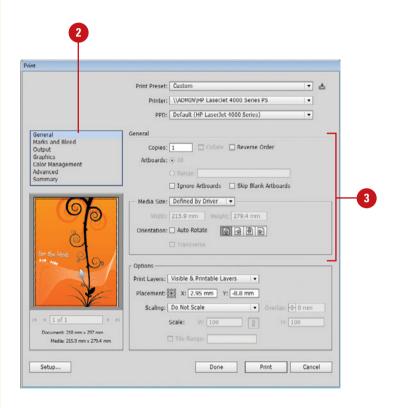


Setting General Print Options

Set General Print Options

- 1 Click the File menu, and then click Print.
- Click the General category.
- 3 Select from the various General and Media options:
 - Copies. Enter the number of copies you want to print.
 - Collate. Select to print artboard pages in collated order.
 - All or Range. Select an option to print all or a range of artboard pages.
 - Reverse Order. Select to print artboard pages in reverse order.
 - Ignore Arthoards. Select to print artwork from all arthoards on a single page.
 - Skip Blank Artboards. Select to not print blank artboard pages.
 - Size. Select a page size.
 - Transverse. Select to rotate the printed artwork 90 degrees.
 - This option is only available when your PPD supports it.
 - Width and Height. For a custom page size, specify a width and height.
 - Auto-Rotate. Select to automatically rotate artboards to print to the media size. (Selected by default)

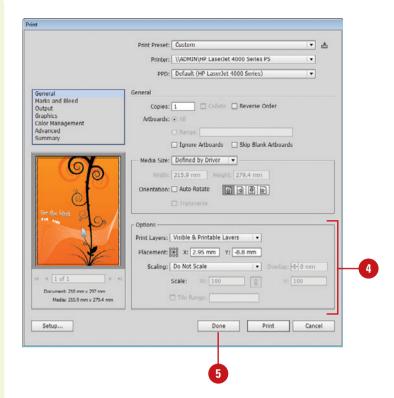
The General category in the Print dialog box allows you to set the page size and orientation (Portrait Up, Portrait Down, Landscape Left, Landscape Right), number of artboards to print, and artboard scale and tiling options. You can also ignore and skip blank artboards for printing. In addition, you can specify which layers you want to print: Visible & Printable Layers, Visible Layers, or All Layers.



- Orientation. Click an icon to select a page orientation.
- 4 Select from the various options:
 - Print Layers. Select an option to print layers: Visible & Printable Layers, Visible Layers, or All Layers.
 - Placement. Click a square on the Placement icon to select an origin for aligning artwork to the page.
 - Scaling. Click the list arrow, and then select an option:
 - Do Not Scale. Select to not scale artboards during printing.
 - Custom. Select to specify a custom width and height for artboards during printing.
 - Fit to Page. Select to scale artboards to the page during printing.
 - Tile Full Pages or Tile Imageable Areas. Select to tile artwork on multiple pages.
- When you're finished, click **Done**.

Did You Know?

You can show and hide print tiling in the document window to preview pages. Click the View menu, and then click Show Print Tiling or Hide Print Tiling.

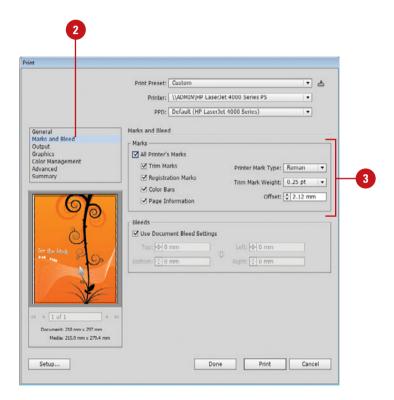


Setting Marks and Bleed Options

Set Marks and Bleed Print Options

- 1 Click the **File** menu, and then click **Print**.
- Click the Marks and Bleed category.
- 3 Select from the various Marks options:
 - All Printer's Marks. Select to enable the following check boxes: Trim Marks, Registration Marks, Color Bars, and Page Information.
 - Trim Marks. Select to add trim lines for cutting the page.
 - Registration Marks. Select to add small targets for aligning color separations.
 - Color Bars. Select to add small color squares with color information for the printer.
 - Page Information. Select to add labels with document information: name, artboard number, time and date, plate color, and screen angle.
 - Printer Mark Type. Select a type: Roman or Japanese.
 - Trim Mark Weight. Specify a thickness for the trim marks.

The Marks and Bleed category in the Print dialog box allows you to select printer's marks and create a bleed. Printer marks appear at the edge of the printable page. Commercial printers use printer marks to trim the paper, registration marks to align printing plates, and color bars to print colors properly. Bleed is the amount of artwork that appears outside of the printing area, which includes the bounding box and trim marks. Bleed is useful as a margin of error. It makes sure that ink is printed to the edge of the page so that there are no gaps between the artwork and the edge of the trimmed document page. Your commercial printer can advise you on bleed settings based on your print job.



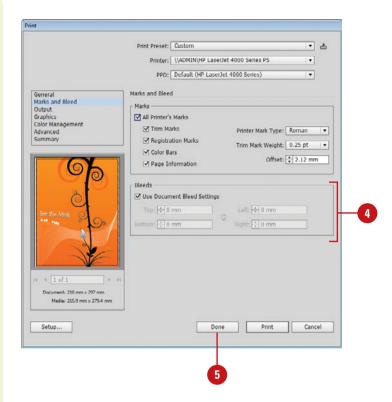
 Offset. Specify an offset value (0-72 points) for the distance between trim marks and the bounding box.

Enter an offset value to make sure that any printer's marks will not be overlapped by the bleed.

- 4 Select from the various Bleeds options:
 - Use Document Bleed Settings.
 Select to use bleed settings defined in the New Document dialog box.
 - Top, Left, Bottom, and Right.
 Enter values to define the bleed area.

Your commercial printer can advise you on bleed settings based on your print job.

5 When you're finished, click **Done**.

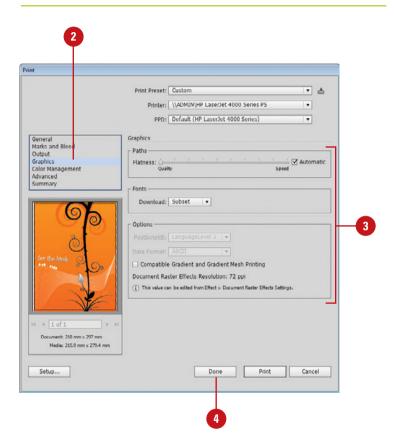


Setting Graphics Options

Set Graphics Print Options

- Click the File menu, and then click
- Click the Graphics category.
- 3 Select from the various Graphics options:
 - Flatness (Paths). Select the Automatic check box to use a setting supplied by Illustrator.
 - If you have problems printing a document, adjust the Flatness level, and then reprint it.
 - Download (Fonts). Select a download option: None, Subset (only characters, or glyphs, used), or Complete (all fonts used).
 - PostScript (Options). Choose from Language Level 2 or Language Level 3. Level 3 delivers the best speed and quality if you are printing to a PostScript 3 device.
 - Data Format (Options). Choose ASCII or Binary to determine how the data is sent to the printer.
 - Compatible Gradient and Gradient Mesh Printing. Select only if you're having problems printing gradients or gradient meshes.
- 4 When you're finished, click **Done**.

The Graphics category in the Print dialog box allows you to set printing options for paths, fonts, PostScript files, gradients, meshes, and blends. The Flatness option (under Paths) controls how well objects in your document print on a PostScript printer. The Automatic setting is recommended. If a document has problems printing, adjust the Flatness level. When you include type in your document, the fonts that you use in your document need to be downloaded to your printer.



Previewing Color Separations

Preview Color Separations with the Separations Preview Panel

- Open a document that contains the artwork that you want to preview.
- 2 Select the **Separations Preview** panel.
- 3 Select the Overprint Preview check box.
- 4 Do any of the following:
 - Hide Separation Ink. Click the eye icon for each ink you want to hide. Click the eye icon again to make the effects of the ink visible.
 - Hide All Separation Inks Except One. Alt+click (Win) or Option+click (Mac) the eye icon to show just one ink color. Click the eye icon again to make all the inks visible.
 - View All Inks. Click the CMYK eye icon.
- 5 Deselect the **Overprint Preview** check box to return to normal view.

Color separations divide artwork into four plates by color, known as process colors. Each plate represents a CMYK (Cyan, Magenta, Yellow, and Black) color. The Separations Preview panel allows you to preview color separations on your screen. You can preview spot color objects and check for rich black areas and overprinting. Rich black is process black ink mixed with color inks for increased opacity and richer color instead of a normal black, while overprinting prevents the knockout of overlapping areas and makes those areas transparent. This is used to avoid the need for trapping and to avoid gaps between touching colors. Use it when your artwork doesn't share common ink color. In the Separations Preview panel, you can use the Visibility column to show and hide different separation color inks to preview your artwork on the artboard.



Setting Output Options

Set Output Print Options

- 1 Click the File menu, and then click
- Click the **Output** category.
 Check with your commercial printer for help with specific

values for your print job.

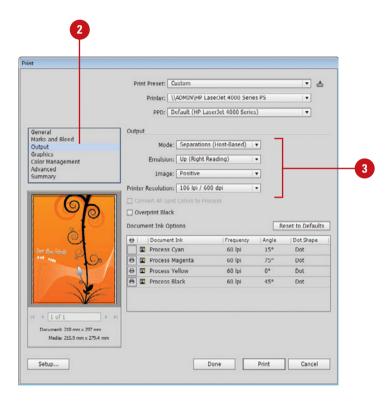
- 3 Select from the various Output options:
 - Mode. Select an output mode: Composite, Separations (Host-Based), or In-RIP Separations.

Use Composite to print a general print job (not separations); use Separations (Host-Based) to have Illustrator create the separations; or use In-RIP Separations to have Illustrator create a PostScript file that creates the separations.

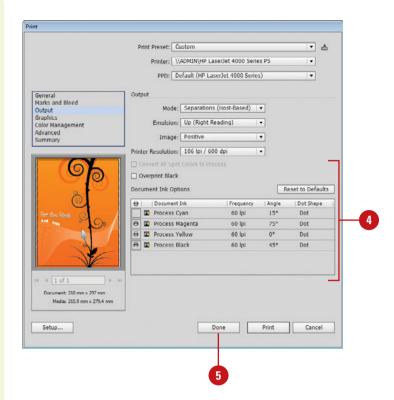
- Emulsion. Select an option: Up (Right Reading) or Down (Right Reading).
- Image. Select an option: Positive or Negative.
- Resolution. Select a printer resolution. The first number represents the halftone screen ruling (LPI) and the second number represents the device resolution (DPI).

Check with your commercial printer for these settings.

The Output category in the Print dialog box allows you to create and print color separations. When you choose to create color separations, you also have the option of selecting which color plates that you want to print. Since options vary from job to job, check with your commercial printer for help with specific values for your print job. Some of the options include Mode (composite or separation), Emulsion, Image, and Resolution.



- 4 If you selected a Separation option from the Mode menu, select from the various Document Ink options:
 - Document Inks. For each process or spot color that you don't want to print, click the printer icon.
 - Convert All Spot Colors to Process. Select to convert all spot colors in the artwork to process colors.
 - Overprint Black. Select to allow black fills and strokes to overprint color underneath.
- 5 When you're finished, click **Done**.



Setting Advanced Options

Set Advanced Print Options

- Click the File menu, and then click
- Click the Advanced category.
- 3 Select from the various Advanced options:
 - Print as Bitmap. Select if you have problems printing vector objects to a non-PostScript printer.
 - Overprints. Select an overprint option:

Preserve. Use to keep the file's overprint settings.

Discard. Use to discard the file's overprint settings.

Simulate. Use to simulate overprinting for proofing purposes.

Preset. Select a resolution option:

High Resolution. Use for high-quality color separations.

Medium Resolution. Use for desktop PostScript printing.

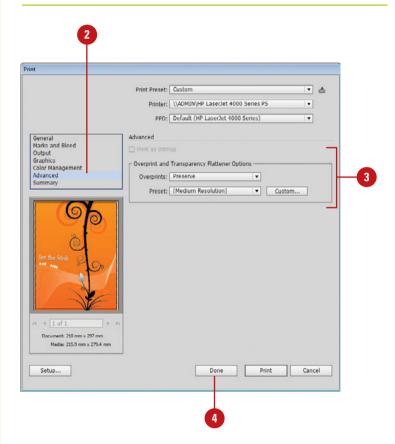
Low Resolution. Use for black and white printing.

For Complex Art. Use for printing art with a lot of shape and line paths (New!).

Custom. Click to select custom settings.

When you're finished, click Done.

The Advanced category in the Print dialog box allows you to set options or use presets (**New!**) for the overprinting and transparency flattening of vector artwork when you print. You can set overprint options for fills and strokes for color composite or separations printing. You can use the Flattener Preview panel to highlight the areas affected by flattening artwork. If you have problems printing vector objects to a non-PostScript printer, select the Print as Bitmap option to convert vector objects to bitmap raster images for print purposes.

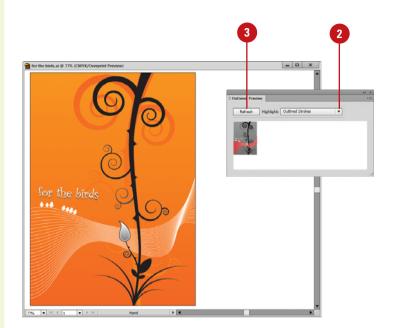


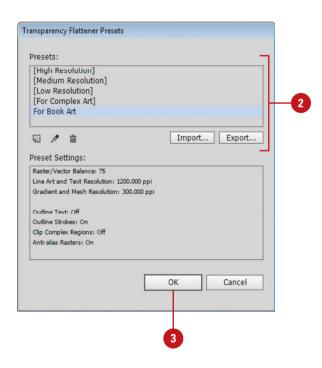
Preview Flattened Artwork

- 1 Click the Window menu, and then click Flattener Preview.
- 2 Click the **Highlight** list arrow, and then select a highlight option.
 - Options vary depending on the content of the artwork.
- To display a fresh preview based on your current settings, click
 Refresh



- 1 Click the Edit menu, and then click Transparency Flattener Presets.
- Perform any of the following:
 - New. Click the New button, specify the options that you want, and then click OK.
 - Edit. Select a custom preset (not a predefined one), click the Edit button, change the options, and then click OK.
 - Delete. Select a custom preset (not a predefined one), and then click the Delete button.
 - Import. Click Import, navigate to the preset file, select it, and then click Open.
 - Export. Select a preset, click
 Export, specify a location and name, and then click Save.
- 3 Click **OK**.



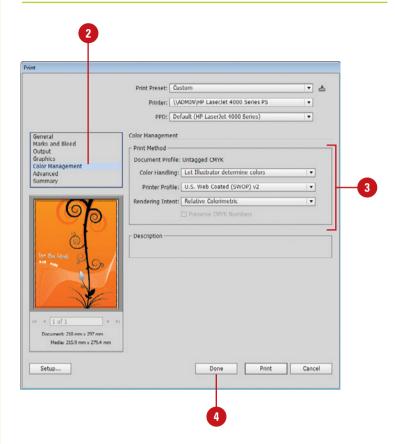


Setting Color Management Options

Set Color Management Print Options

- Click the File menu, and then click Print.
- Click the Color Management category.
- 3 Select from the various Color Management options:
 - Color Handling. Select a color option: Let Illustrator determine colors or Let PostScript printer determine colors.
 - Printer Profile. Select the profile for your output device.
 - Rendering Intent. Select an option to specify how the program converts colors to the destination color space.
 - Preserve CMYK Numbers.
 Select to preserve the CMYK color mode when a color profile is not available. Deselect to have Illustrator convert colors for use on the output device.
- 4 When you're finished, click **Done**.

The Color Management category in the Print dialog box allows you to select a printer profile and rendering intent for printing. Rendering intent specifies how the program converts colors to the destination color space. In most cases, it's best to use the default options for Color Management unless you've been given specific instructions from a commercial printer to change them.

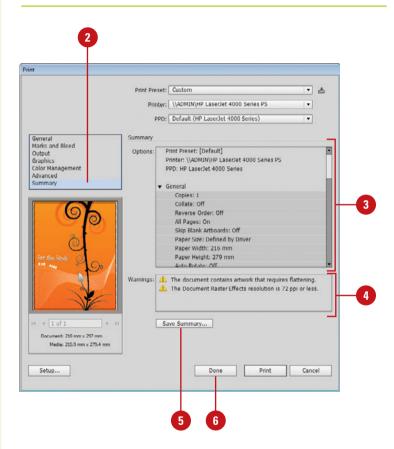


Checking for Print Problems

View Summary Print Options

- Click the File menu, and then click
- Click the Summary category.
- 3 Scroll through the print summary to review your print settings.
- 4 Check the Warnings box for problems or warning that you should fix before you print.
- To print the summary information to a file, click **Save Summary**, enter a name, specify a location, and then click **Save**.
- When you're finished, click **Done**.

Before you print your document, it's important to check the Summary category in the Print dialog box. The summary information is good to have if you're having problems printing your job at a commercial printer. You can save the information and send it to the printer to help diagnose the problem. The important area is the Warnings box, which displays warnings about printing problems with your document. Check to make sure your print job is clear of all warnings before you send it to a printer.

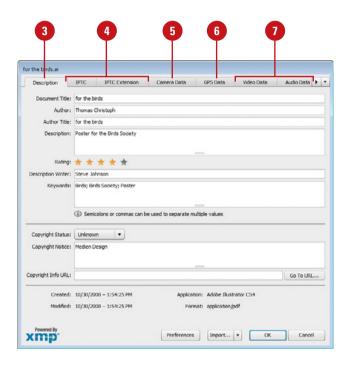


Inserting File Information

Insert File Information into a Document

- Open a document.
- 2 Click the **File** menu, and then click **File Info**.
- 3 Click the **Description** tab, and then enter information concerning the document title, description of file, author, and copyright information.
- 4 Click the IPTC and IPTC Extension tabs to enter information concerning the image's creator, description and keywords, location where photograph was taken, date created, copyright, and usage terms.
- 5 Click the **Camera Data** tab, which reveals information about the camera that took the image.
- 6 Click the **GPS Data** tab, which reveals Exif information about the camera and subject location.
- 7 Click the Video Data tab or Audio Data tab to reveal information about video and audio data, and then enter your video and audio data.

When you save a document, you have the ability to save more than just Illustrator information. You can save copyright, camera, and even image category information. This data is saved with the file as metadata in the XMP format (Extensible Metadata Platform) in Illustrator files, and can be recognized and accessed by any application, such as Adobe Bridge, that reads XMP metadata. In addition, if an image is a photograph, you can save data specifying the type of image, where it was shot, or the camera used. You can even get information on shutter speed and f-stop. You can do the same with video and audio data, too. That information will not only protect your intellectual property, but will supply you with vital statistics on exactly how you created that one-of-a-kind artwork.

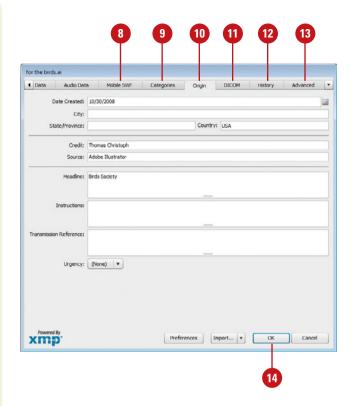


- Click the **Mobile SWF** tab, and then enter the file information for a mobile SWF document.
- 9 Click the Categories tab, and then enter category keywords for search purposes.
- 10 Click the **Origin** tab, and then enter data pertaining to the origin of the image.
- Click the **DICOM** tab, and then enter data pertaining to the Digital Imaging and Communications in Medicine options (patient name, ID, etc.).
- 12 Click the **History** tab to view historical information about the active document, such as dates last opened and saved, and a list of image adjustments.
- Click the **Advanced** tab to view additional information on the active document, such as EXIF, and PDF document properties.
- 14 Click OK.

Did You Know?

You can add metadata to files saved in the PSD, PDF, EPS, PNG, GIF, JPEG, and TIFF formats. The information is embedded in the file using XMP (Extensible Metadata Platform). This allows metadata to be exchanged between Adobe applications and across operating systems.

You can use the XMP Software
Development Kit to customize the
creation, processing, and interchange
of metadata. You can also use the XMP
kit to add fields to the File Info dialog
box. For information on XMP and the
XMP SDK, check the Adobe Solutions
Network.

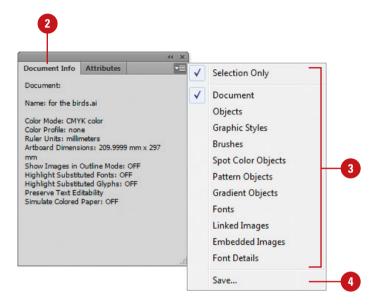


Using the Document Info Panel

Use the Document Info Panel

- 1 Select the object that you want to review information about.
- 2 Select the Document Info panel.
- 3 Click the **Options** menu, and then select any of the following:
 - Selection Only. Select for info on the current selection.
 Deselect for all objects.
 - Document.
 - Objects.
 - Graphic Styles.
 - Brushes.
 - Spot Color Objects.
 - Pattern Objects.
 - Gradient Objects.
 - Fonts.
 - Linked Images.
 - Embedded Images.
 - Font Details.
- To save the information to a text file, click the **Options** menu, click **Save**, enter a name for the file, specify a location, and then click **Save**.

The Document Info panel allows you to view information about a selected object or the entire document. You can display information about graphic styles, brushes, spot colors, patterns, gradients, fonts, linked images, and embedded images by using the Options menu. If you want to use the provided information in another document, you can also save the data as a text file.



15

Exporting a Document

Introduction

After you finish creating your document in Illustrator, you can save or export your artwork in another file format for use in other programs. There are five file formats to which you can save your artwork, which include AI (Adobe Illustrator), Adobe PDF (Portable Document Format), EPS (Encapsulated PostScript), FXG (Adobe Flex/Flash Builder), and SVG (Scalable Vector Graphics). These file formats are native to Illustrator, which means they preserve Illustrator content, including multiple artboards, when you re-open them.

If you want to save your artwork in another file format, you need to export it. Illustrator allows you to export your artwork in 13 different file formats, including Flash, Photoshop, Bitmap, JPEG, and PNG. When you export from Illustrator, your content is altered using the Options dialog box for the specific file format. If you want to use an Illustrator document in a Microsoft Office program, you need to save the document as a PNG (Portable Network Graphics) image with the Save for Microsoft Office command.

If you frequently create the same kind of document, then you should create a template. A template is a special document that makes it easier to reuse frequently used material in order to create a new document. An Illustrator Template file uses the (AIT) file format instead of the normal (AI) document file format.

What You'll Do

Export a Document

Understand Export File Formats

Export as a Bitmap

Export as a TIFF

Export as a PNG or JPEG

Export to Photoshop

Export with Presets

Export as a Flash Movie

Save as Adobe PDF

Save as an EPS

Save as SVG

Save for HTML5 and CSS

Save as Adobe FXG

Save for Microsoft Office

Save as a Template

Exporting a Document

Export a Document

- 1 Click the File menu, and then click Export.
- 2 Enter a name for the file in the File Name (Win) or Save As (Mac) box.
- 3 Click the **Save as Type** list arrow (Win) or **Format** popup (Mac), and then select a file format.

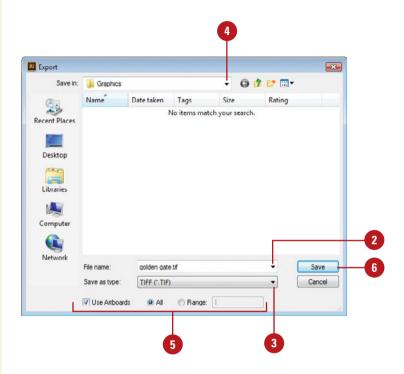
See the list on the next page for more information about all the file formats.

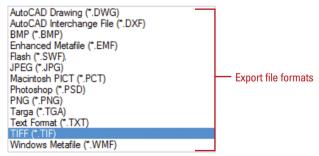
- 4 Navigate to the location where you want to save the document.
- 5 To preserve artboards, select the Use Artboards check box (if available), and then select the All or Range option. If you selected the Range option, enter a range.
- 6 Click Save.

For some formats, an Options dialog box appears, prompting you for additional settings.

- If prompted, specify the options that you want, and then click **OK**.
 - For help, point to an option to display a description at the bottom of the Options dialog box.

After you finish creating your document in Illustrator, you can export it for use in other programs. If you have a document with text, you can export it to a text document, which you can open in a word processing program. If you have a document with artwork, you can export it as a PSD file (for use in Photoshop) or a JPEG file (for use on the web). See the list on the next page for more information about all the file formats. If you have multiple artboards in a document, many file formats preserve them or create multiple page documents during export.





Understanding Export File Formats

Export File Formats	
Format	Usage
ВМР	Uses the BMP (Bitmap) format. This is the standard image format on the Windows platform.
Targa	Uses the Targa format for high-end image editing on the Windows platform.
PNG	Uses the PNG (Portable Network Graphics) format. This format is used for saving images to the Web; it supports up to 16 million colors and 256 levels of transparency.
AutoCAD Drawing	Uses the DWG format. This format creates a file used for 2- and 3-dimensional design data.
AutoCAD Interchange File	Uses the DXF (Drawing Interchange Format, or Drawing Exchange Format) format. This format creates a CAD (Computer Aided-Design) data file.
Enhanced Metafile	Uses the EMF format. This drawing format (32-bit) uses metafile commands to create simple artwork.
Flash	Uses the SWF movie format. This format creates a movie for use on the Web using the Flash player.
JPEG	Uses the JPG or JPEG (Joint Photographic Experts Group) format. This format uses a compression method to reduce the size of image files primarily for the Web.
Macintosh PICT	Uses the PICT or PICT Resource format. This is the standard image format on the Macintosh platform.
Photoshop	Uses the PSD (Photoshop) format, which saves layers, channels, notes, and color profiles.
TIFF	Uses the TIFF (Tagged-Image File Format) format. These files can be opened by almost any image-editing or layout program. TIFF is a common format for printing and saving flattened images without losing quality.
Text Format	Uses the TXT format. This format creates a plain text document.
Windows Metafile	Uses the WMF format. This drawing format (16-bit) uses metafile commands to create simple artwork.

Exporting as a Bitmap

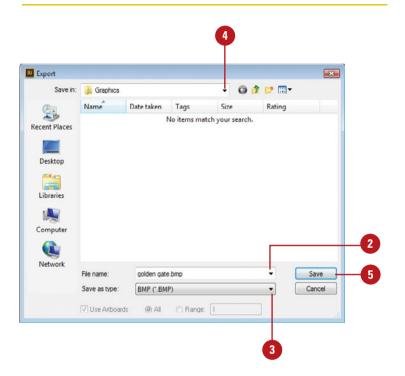
Export a Document as a Bitmap

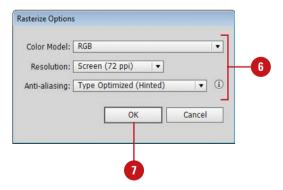
- 1 Click the File menu, and then click Export.
- 2 Enter a name for the file in the File Name (Win) or Save As (Mac) box.
- 3 Click the Save as Type list arrow (Win) or Format popup (Mac), and then click BMP (*.BMP).
- 4 Navigate to the location where you want to save the document.
- Click Save.
- 6 Specify the following options:
 - Color Model. Select a color mode: RGB, Grayscale, or Bitmap.
 - Resolution. Select a resolution option in ppi (pixels per inch).
 - Anti-aliasing. Select to smooth out the edges of text or artwork.
- 7 Click OK.

See Also

See "Anti-aliasing Type" on page 245 for more information on setting a text box to anti-alias text.

A bitmap document (BMP) is a raster image, which means it's made up of individual pixels. Since an Illustrator document is made up of vector data, the artwork in the document is converted from mathematical calculations to individual pixels. During the export process, you can specify a color mode for the pixels, resolution size (the number of pixels per inch), and whether you want to smooth out the edges with anti-aliasing for either text or artwork.



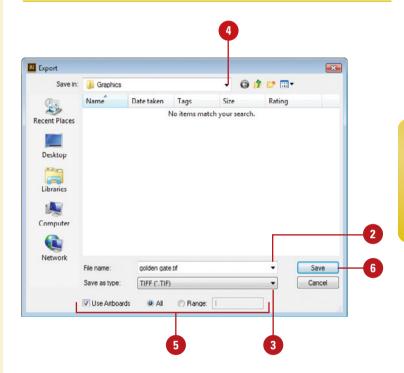


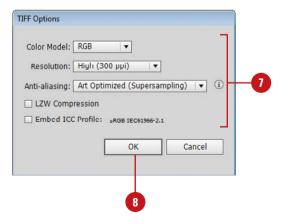
Exporting as a TIFF

Export a Document as a TIFF

- 1 Click the File menu, and then click Export.
- 2 Enter a name for the file in the File Name (Win) or Save As (Mac) box.
- 3 Click the **Save as Type** list arrow (Win) or **Format** popup (Mac), and then click **TIFF** (*.**TIF**).
- 4 Navigate to the location where you want to save the document.
- 5 To preserve artboards, select the Use Artboards check box (if available), and then select the All or Range option. If you selected the Range option, enter a range.
- 6 Click Save.
- Specify the following options:
 - Color Model. Select a color mode: RGB, CMYK, or Grayscale.
 - Resolution. Select a resolution option in ppi (pixels per inch).
 - Anti-aliasing. Select to smooth out the edges of text or artwork.
 - LZW Compression. Select to compress the image.
 - Embed ICC Profile. Select to attach the color profile of the document to the image.
- 8 Click **OK**.

TIFF (Tagged-Image File Format) files can be opened by almost any image-editing or layout program. TIFF is a common format for printing and saving flattened images without losing quality. During the export, you can specify a color mode for the pixels, resolution size (the number of pixels per inch), and whether you want to smooth out the edges with the Anti-alias option for text or artwork, compress the image with the LZW compression method, and embed the color profile in the image. If you have multiple artboards in a document, they are preserved.



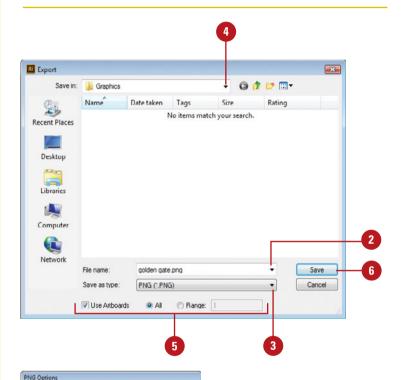


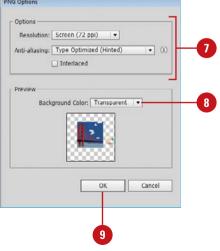
Exporting as a PNG or JPEG

Export a Document as a PNG

- 1 Click the File menu, and then click Export.
- 2 Enter a name for the file in the File Name (Win) or Save As (Mac) box.
- 3 Click the Save as Type list arrow (Win) or Format popup (Mac), and then click PNG (*.PNG).
- 4 Navigate to the location where vou want to save the document.
- 5 To preserve artboards, select the Use Artboards check box (if available), and then select the All or Range option. If you selected the Range option, enter a range.
- 6 Click Save.
- 7 Specify the following options:
 - Resolution. Select a resolution option in ppi (pixels per inch).
 - Anti-aliasing. Select to smooth out the edges of text or artwork.
 - Interlaced. Select to load/ display the image from top to bottom.
- 8 Click the Background Color list arrow, and then specify an option: Transparent, Black, White, or a custom color.
- 9 Click OK.

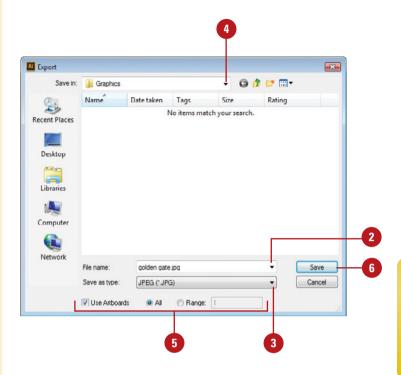
If you have an image that you want to post on the web, you can export it as a PNG (Portable Network Graphic) or JPEG (Joint Photographic Experts Group) file. PNG and JPEG are a compressed format with relatively high quality, so it's a common file format for the web. The Export command for PNG and JPEG give you options to specify image resolution and use anti-alias to smooth jagged edges for text and images. For PNG, you can also set options to use a transparent background. For JPEG, you can also set options to specify the color model, quality, and compression as well as embed an ICC color profile.

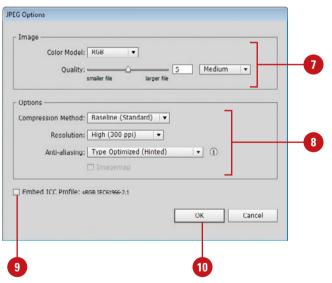




Export a Document as a JPEG

- 1 Click the File menu, and then click Export.
- 2 Enter a name for the file in the File Name (Win) or Save As (Mac) box.
- 3 Click the Save as Type list arrow (Win) or Format popup (Mac), and then click PNG (*.PNG).
- 4 Navigate to the location where you want to save the document.
- 5 To preserve artboards, select the Use Artboards check box (if available), and then select the All or Range option. If you selected the Range option, enter a range.
- 6 Click Save.
- 7 Specify the following options:
 - Color Model. Select a color mode: RGB, CMYK, or Grayscale.
 - Quality. Select a balance between file size and quality.
- 8 Specify the following options:
 - Compression Method. Select a method: Standard (used by most browsers), Optimized for color and size, and Progressive display for a series of scans.
 - Resolution. Select a resolution option in ppi (pixels per inch).
 - Anti-aliasing. Select to smooth out the edges of text or artwork.
 - Imagemap. Select to generate code for image maps.
- Select the Embed ICC Profile check box to attach the color profile of the document to the image.
- 10 Click OK.



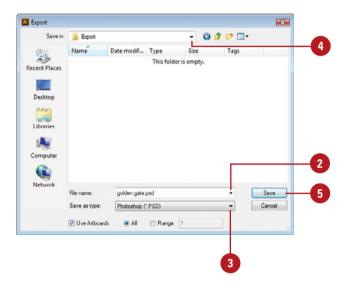


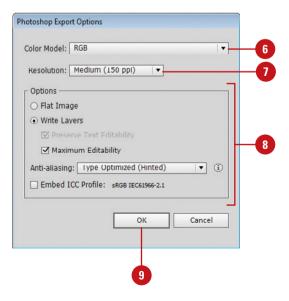
Exporting to Photoshop

Export a Document as a Photoshop File

- 1 Click the File menu, and then click Export.
- 2 Enter a name for the file in the File Name (Win) or Save As (Mac) box.
- 3 Click the Save as Type list arrow (Win) or Format popup (Mac), and then click Photoshop (*.PSD).
- 4 Navigate to the location where you want to save the document.
- Click Save.
- 6 Click the Color Model list arrow, and then select a color mode: RGB, CMYK or Grayscale.
- 7 Click the **Resolution** list arrow, and then select a resolution option.
- Specify the following options:
 - Flat Image. Select to flatten image to one layer.
 - Write Layers. Select to preserve layers and maximum editability for objects and text.
 - Anti-aliasing. Select to smooth out the edges of the image.
 - Embed ICC Profile. Select to attach the color profile of the document to the image.
- 9 Click **OK**.

Adobe Photoshop is a graphics and image editing program. When you export artwork to Photoshop, Illustrator converts objects into pixels and preserves layers and transparency. Other conversions include removing strokes and effects from text and changing opacity masks to layer masks. During the export process, you can specify a color mode for the pixels, resolution size (the number of pixels per inch), and whether you want to flatten or preserve layers, smooth out the edges with the Antialiasing option, and embed the color profile in the image. In addition to exporting, you can also copy and paste objects into Photoshop, which automatically creates Smart Objects that you can re-edit in Illustrator.





Exporting with Presets

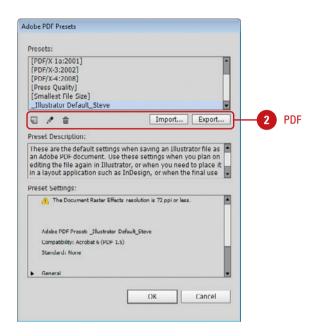
Create a Preset for Adobe PDF or Flash SWF

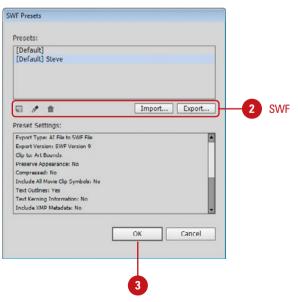
- Click the Edit menu, and then click
 Adobe PDF Presets or SWF
 Presets.
- Perform any of the following:
 - New. Click the New button, specify the options that you want, and then click OK.
 - Edit. Select a custom preset (not a predefined one), click the Edit button, change the options, and then click OK.
 - Delete. Select a custom preset (not a predefined one), and then click the Delete button.
 - Import. Click Import, navigate to the preset file, select it, and then click Open.
 - Export. Select a preset, click
 Export, specify a location and name, and then click Save.

For PDF files, the preset is saved with the *.joboptions* extension.

3 Click **OK**.

If you frequently use custom settings to export an Illustrator document to an Adobe PDF or Flash SWF file, you can save time by creating a preset. Adobe Creative Suite programs, including Illustrator, InDesign, Photoshop, and Acrobat, provide built-in presets that you can use in any of the programs. When you create your own preset, you can also use it in other CS programs. The process for creating a preset for an Adobe PDF or Flash SWF is similar; just the settings are different.



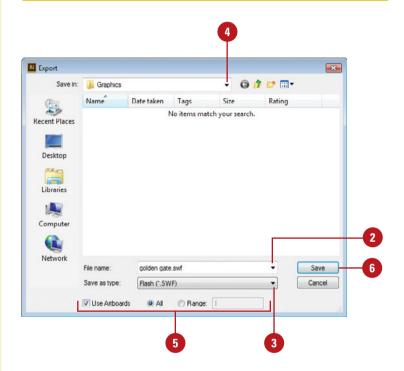


Exporting as a Flash Movie

Export a Document as a Flash Movie

- 1 Click the File menu, and then click Export.
- 2 Enter a name for the file in the File Name (Win) or Save As (Mac) box.
- 3 Click the Save as Type list arrow (Win) or Format popup (Mac), and then click Flash (*.SWF).
- 4 Navigate to the location where you want to save the document.
- 5 To preserve artboards, select the Use Artboards check box, and then select the All or Range option. If you selected the Range option, enter a range.
- 6 Click Save.
- Click the Preset list arrow, and then select a preset option, or specify your own options to create a custom preset.
 - To create a preset that you can use later, set your options, click the Save Preset button, enter a name, and then click OK.
- Click the **Export As** list arrow, and then select an export method.
- 9 Click the Version list arrow, and then select a target Flash Player version.

Adobe Flash is a vector-based animation and interactivity program. If you want to use individual Illustrator objects in Flash, you can simply copy and paste them directly into a Flash movie document (FLA). However, if you want to create a Flash movie (SWF) that you can use on a web page and display using Flash Player, you should use the Export command. The Export command gives you options to specify how you want to create a SWF movie. If you have multiple artboards in a document, these are preserved in the SWF file format.

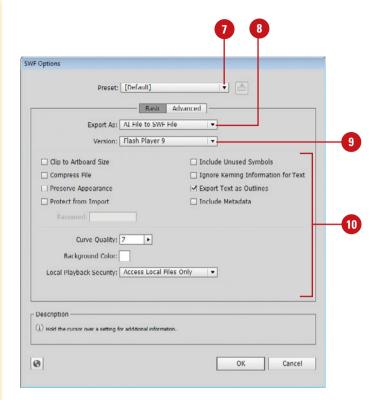


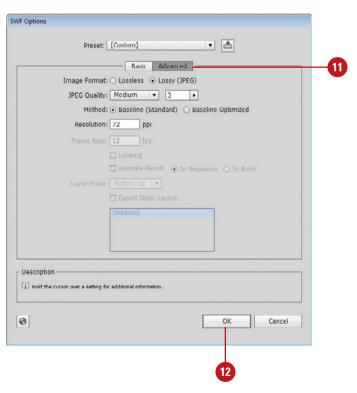
For Your Information

Tagging Text for Export to Flash

You can export text from Illustrator to text in Flash as a static, dynamic, or input text. Before you export the text, you need to tag the text first. By default, text is set to static, which is converted to regular text in Flash. Dynamic and input text have similar properties in Flash and Illustrator, which you can update and edit. To tag text in Illustrator, select a text object, click Flash Text on the Control panel, click the Type list arrow, and then click Static Text, Dynamic Text, or Input Text. Enter an optional instance name, specify a Rendering Type, and then select text options: Selectable, Show Border Around Text, and Edit Character Options. For dynamic text, you can specify a URL and target. For input text, you can specify a maximum number of characters.

- 10 Specify the following options:
 - Clip to Arthoard Size. Select to export only objects within an arthoard.
 - Preserve Appearance. Select to flatten artwork to a single layer.
 - Compress File. Select to compress the SWF file.
 - Include Unused Symbols.
 Select to export all unused symbols.
 - Export Text as Outlines. Select to convert type to vector paths.
 - Ignore Kerning Information for Text. Select to export text without kerning.
 - Include Metadata. Select to export metadata with the file.
 - Protect from Import. Select to prevent changes to the SWF.
 - Password. Select to protect the file with a password.
 - Curve Quality. Select a number for Bezier curve accuracy. The higher the number, the more accurate.
 - Background Color. Specify a background color for the file.
 - Local Playback Security.
 Specify whether you want to access only local file or network files.
- To set image compression and quality or animation frame rates and layer order options, click **Advanced**.
- 12 Click OK.



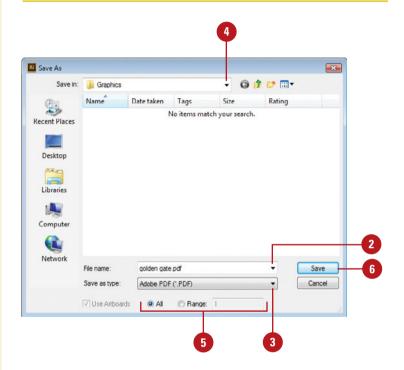


Saving as Adobe PDF

Save a Document as an Adobe PDF

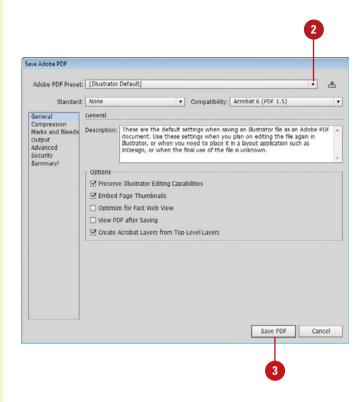
- 1 Click the File menu, and then click
 Save As.
- 2 Enter a name for the file in the File Name (Win) or Save As (Mac) box.
- 3 Click the Save as Type list arrow (Win) or Format popup (Mac), and then click Adobe PDF (*.PDF).
- 4 Navigate to the location where you want to save the document.
- 5 Select the All or Range option to create individual pages for each artboard. If you selected the Range option, enter a range.
- 6 Click **Save**.
- 7 Click the **Adobe PDF Preset** list arrow, and then select a preset option, or specify your own options to create a custom preset.
 - To create a preset that you can use later, set your options, click the Save Preset button, enter a name, and then click OK.
- 8 Select a category (General, Compression, etc.) from the list to display options.
- 9 Specify the options for the category that you want.
 - To reset options to defaults, hold down Alt (Win) or Option (Mac), and then click Reset.
- 10 Click Save PDF.

If a co-worker or client doesn't have Illustrator, you can create an Adobe PDF of a document for them to review your work. Adobe PDF (Portable Document Format) is a useful file format for document sharing, viewing, and proofing with Adobe Acrobat Reader, which is free for download on the web at www.adobe.com. If recipients of the file have Adobe Acrobat, they can add comments to an Adobe PDF. If you have multiple artboards in a document, these are preserved in the Adobe PDF file format.



Use Adobe PDF Preset Options

- 1 Follow steps 1 through 6 on the previous page.
- Click the Adobe PDF Preset list arrow, and then select one of the following presets:
 - Illustrator Default. Creates PDFs that preserve all Illustrator content, which can be reopened in Illustrator, InDesign, or QuarkXPress.
 - High Quality Print. Creates PDFs for quality printing on desktop printers and proofing devices.
 - PDF/X-1a: 2001/2003. Creates PDFs that meet printing standards for Acrobat Reader 4.0 or later. Useful for a CMYK workflow
 - PDF/X-3: 2002/2003. Creates
 PDFs that meet printing
 standards for Acrobat Reader
 7.0 or later. Useful for a color managed workflow.
 - PDF/X-4:2008. Creates PDFs that meet printing standards for Acrobat Reader 7.0 or later. Useful for a color-managed workflow with added support for preserving transparency.
 - Press Quality. Creates PDFs for high quality print production (digital printing or separations).
 - Smallest File Size. Creates compressed PDFs for use on the Web or e-mail distribution.
- 3 Click Save PDF.



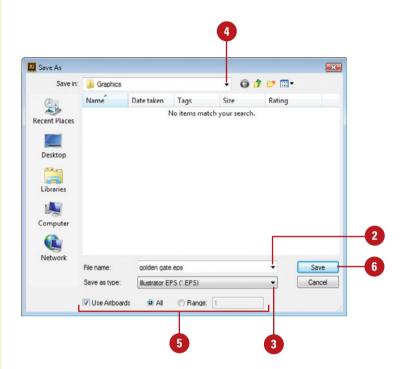


Saving as an EPS

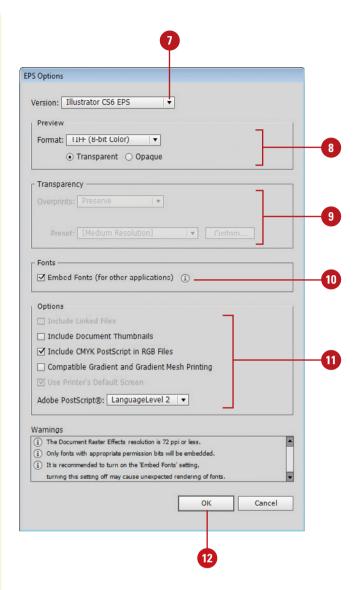
Save a Document as an EPS File

- 1 Click the File menu, and then click
 Save As.
- 2 Enter a name for the file in the File Name (Win) or Save As (Mac) box.
- 3 Click the Save as Type list arrow (Win) or Format popup (Mac), and then click Illustrator EPS (*.EPS).
- 4 Navigate to the location where you want to save the document.
- 5 To preserve artboards, select the Use Artboards check box, and then select the All or Range option. If you selected the Range option, enter a range.
- 6 Click Save.
- 7 Click the **Version** list arrow, and then select an Illustrator EPS version.
- To create an image preview for Open dialog boxes, click the Format list arrow, select a format, and then select the Transparent or Opaque option.
- 9 If the artwork contains transparent objects and overprints, specify the options you want.
- 10 Select the Embed Fonts (for other applications) check box to attach fonts used in the document to the image file, so they will be available in other programs.

EPS (Encapsulated PostScript) is a commonly used file format that you can import into graphics, word processing, and page layout programs. An EPS file can contain vector and bitmap graphics, so it makes the format more versatile for use in other programs. EPS does a good job of preserving graphic objects in an Illustrator document. If you have multiple artboards in a document, these are preserved in the EPS file format.



- 11 Specify the following options:
 - Include Linked Files. Select to embed linked files in artwork.
 - Include Document Thumbnails.
 Select to create a thumbnail image of the artwork.
 - Include CMYK PostScript in RGB Files. Select to allow the use of RGB output when it's not supported in a program.
 - Compatible Gradient and Gradient Mesh Printing. Select to allow older printers and PostScript devices to print gradients and gradient meshes by converting them to JPEG.
 - Use Printer's Default Screen.
 Select to use a printer's default settings.
 - Adobe PostScript. Select a PostScript level to save with the image. PostScript Language Level 2 is widely used. If you want to work with mesh objects, use Level 3.
- 12 Click OK.

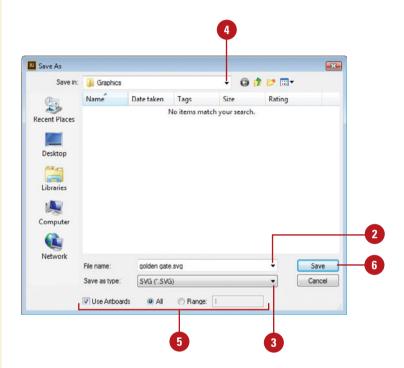


Saving as a SVG

Save a Document as a SVG File

- Click the File menu, and then click
- 2 Enter a name for the file in the File Name (Win) or Save As (Mac) box.
- Click the Save as Type list arrow (Win) or Format popup (Mac), and then click SVG (*.SVG) or SVG Compressed (*.SVGZ).
- 4 Navigate to the location where you want to save the document.
- 5 To preserve artboards (New!), select the Use Artboards check box, and then select the All or Range option. If you selected the Range option, enter a range.
- 6 Click **Save**.
- 7 Click the SVG Profiles list arrow, and then select a SVG specification by version number.
- 8 Specify the following font options:
 - Type. Select a font display option: Adobe CEF has the best display, yet not as widely supported; SVG is the most supported; and Convert to Outline provides the smallest size, yet lowest quality.
 - Subsetting. Select the set of font characters you want to include in the file.

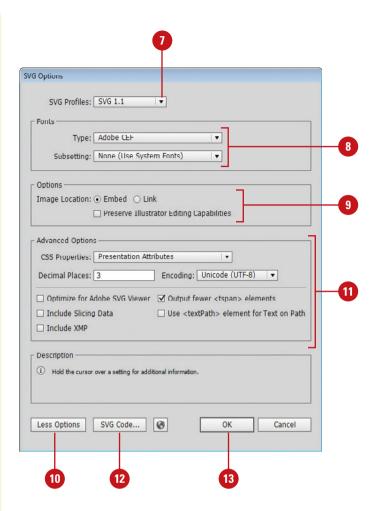
SVG (Scalable Vector Graphics) is a vector based format, like the Illustrator AI format, that describes images as shapes, paths, text and filter effects. Vector images can be resized without sacrificing sharpness and clarity. The SVG format is XML-based, which allows you to add code (XML and JavaScript) so that the web graphic can respond to user actions. Things to remember when you save a document to SVG, each layer is converted to a group (<g>) element, objects appear transparent based on opacity, use slices, image maps, and scripts to add web links, and symbols and paths improve performance.



- Click the Embed or Link option to specify where you want the image location (embedded in or external), and then select the check box if you want to preserve Illustrator editing capabilities for future revisions.
- To specify additional options, click More Options.

The button changes to Less Options.

- 11 Specify the following Advanced options:
 - CSS Properties. Select an option to create a CSS properties.
 - Optimize for Adobe SVG Viewer. Select to optimize for the best performance with the Adobe SVG Viewer.
 - Include Slicing Data. Select to include slicing locations and settings.
 - Include XMP. Select to include XMP metadata information.
 - Output fewer <tspan> elements. Select to reduce the file size by ignoring kerning position.
 - Use <textPath> element for Text on Path. Select to use <textPath> tag for path text, which creates more compact XML; deselect to use <text> tag.
- 12 If you want to view the SVG code in a web browser, click **SVG Code**.
- 13 Click OK.



Saving for HTML5 and CSS

Create a Canvas and Save as SVG for Use in HTML

- Select the object you want to create into a canvas.
- Click the Object menu, point to HTML5 Canvas, and then click Make.
 - If the menu is not available, please check your installation.

After you create a canvas, you can save it as a SVG file for use in an HTML editing program, such as Adobe Dreamweaver, where you can add scripting and other functionality.

To return a canvas object back to a normal Illustrator object, click the Object menu, point to HTML5 Canvas, and then click Release.

See Also

See "Saving as a SVG" on pages 416-417 for more information on saving a document as a SVG file for use in other programs. With the HTML5 Pack installed on your computer with Adobe Illustrator CS5.1 or later, you can get support for HTML5 and CSS3, and extend SVG capability. You can download the HTML5 Pack from Adobe Labs for free at *labs.adobe.com/downloads/ illustrator_html5.html*. Be sure to download or print out the installation instructions and then follow them carefully. On the Object menu, the HTML5 Canvas submenu appears, where you can make and release canvas (bitmap-based) artwork on output. This allows you to use scripting, such as JavaScript, to manipulate the canvas content in a HTML program, such as Adobe Dreamweaver. You can export artboards for unique screen sizes using SVG and CSS3 media queries, create web widgets, and export the Appearance panel to CSS3.

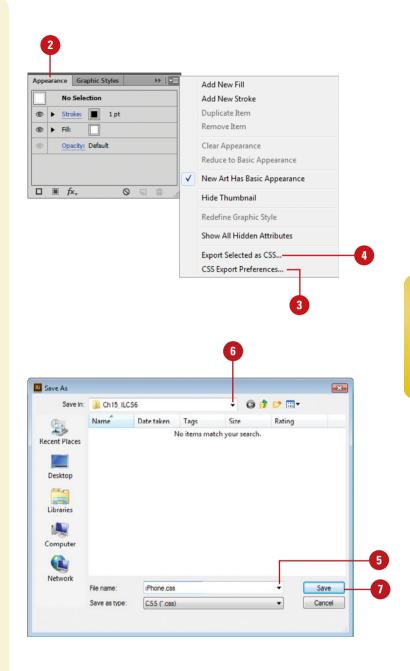


Save as a CSS File

- 1 Select the object with the appearance you want to save as a CSS file.
- Select the Appearance panel.
- 3 To set CSS preferences for the exported CSS file, click the Options menu, click CSS Export Preferences, specify the options you want, and then click OK.
 - CSS Units. Select the Pixels or Points option.
 - Object Appearance. Select check boxes for Include Fill, Include Stroke, or Include Opacity.
 - Position and Size. Select check boxes for Include Absolute
 Position or Include
 Dimensions.
- 4 Click the **Options** menu, and then click **Export Selected as CSS**.
- 5 Enter a name for the file in the File Name (Win) or Save As (Mac) box.

The format is set to CSS (*.css).

- 6 Navigate to the location where you want to save the document.
- 7 Click Save.

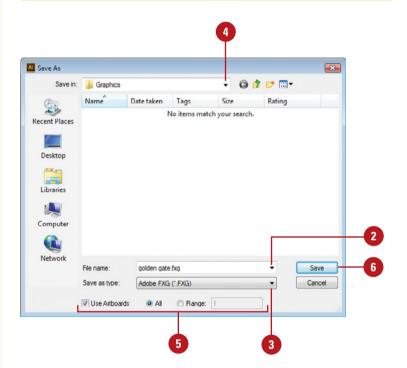


Saving as Adobe FXG

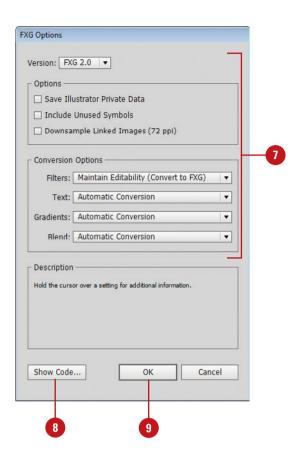
Save a Document as an Adobe FXG File

- 1 Click the File menu, and then click Save As.
- 2 Enter a name for the file in the File Name (Win) or Save As (Mac) box.
- 3 Click the Save as Type list arrow (Win) or Format popup (Mac), and then click Adobe FXG (*.FXG).
- Navigate to the location where you want to save the document.
- 5 To preserve artboards, select the Use Artboards check box, and then select the All or Range option. If you selected the Range option, enter a range.
- 6 Click Save.
- 7 Specify the following options:
 - FXG Version. FXG 2.0 is only supported for export and import.
 - Save Illustrator Private Data.
 Select to preserve Illustratorspecific data in the export to FXG so you can import it back to Illustrator.
 - Include Unused Symbols.
 Select to include unused symbols in the export.

Adobe FXG (Flash XML Graphics) is a file format based on a subset of MXML, the XML-based programming language used by the Flex framework, which you can use to build rich Internet applications. The FXG file format allows designers to exchange graphic content between programs with high fidelity. Illustrator allows you to save your artwork in the Adobe FXG file format (version 2.0), which you can use in Adobe Flash Catalyst, Adobe Flash Builder, and Adobe Flash Professional to build applications. When you save a document in Adobe FXG, the FXG Options dialog box appears, where you can specify the FXG specific save options you want. FXG always uses the RGB color mode. If you have multiple artboards in a document, these are preserved in the FXG file format.



- Downsample Linked Images (72 ppi). Select to resample linked images to 72 points per inch resolution.
- ◆ Filters. Drop Shadow, Inner Glow, Outer Glow and Gaussian Blur are the only supported filters in FXG. Select an option to preserve appearance (Expand or Rasterize) or maintain editability (Convert to FXG).
- Text. Select an option to preserve appearance (Create Outline or Rasterize) or maintain editability (Convert to FXG), or choose Automatic.
- Gradients. Select an option to have Illustrator automatically convert the gradient or maintain editability (Convert to FXG).
- Blend. Select an option to have Illustrator automatically convert the blend or preserve appearance (Rasterize).
- 8 Click Show Code to see the resulting FXG code for your artwork in your browser.
- 9 Click **OK**.



Saving a Document for Microsoft Office

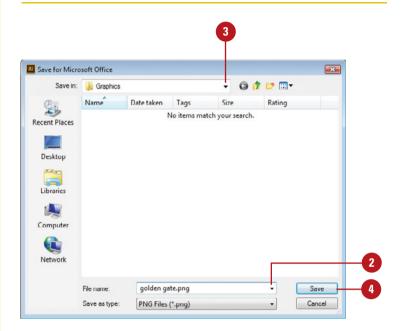
Save a Document for Microsoft Office

1 Click the File menu, and then click
Save for Microsoft Office.

The Save for Microsoft Office dialog box appears with the PNG file format.

- 2 Enter a name for the file in the File Name (Win) or Save As (Mac) box.
- 3 Navigate to the location where you want to save the document.
- 4 Click Save.

The Illustrator format (AI) is not compatible with Microsoft Office programs. If you want to use an Illustrator document in a Microsoft Office program, you need to save the document as a PNG (Portable Network Graphics) image. This format makes transparent areas opaque. In a Microsoft Office program, you can insert the PNG image file by using the Insert Picture command. To save a document as a PNG image, you use the Save for Microsoft Office command on the File menu.



Saving as a Template

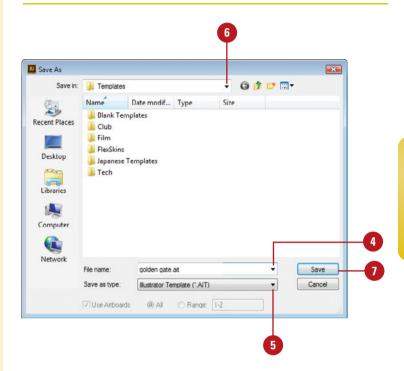
Save a Document as a Template

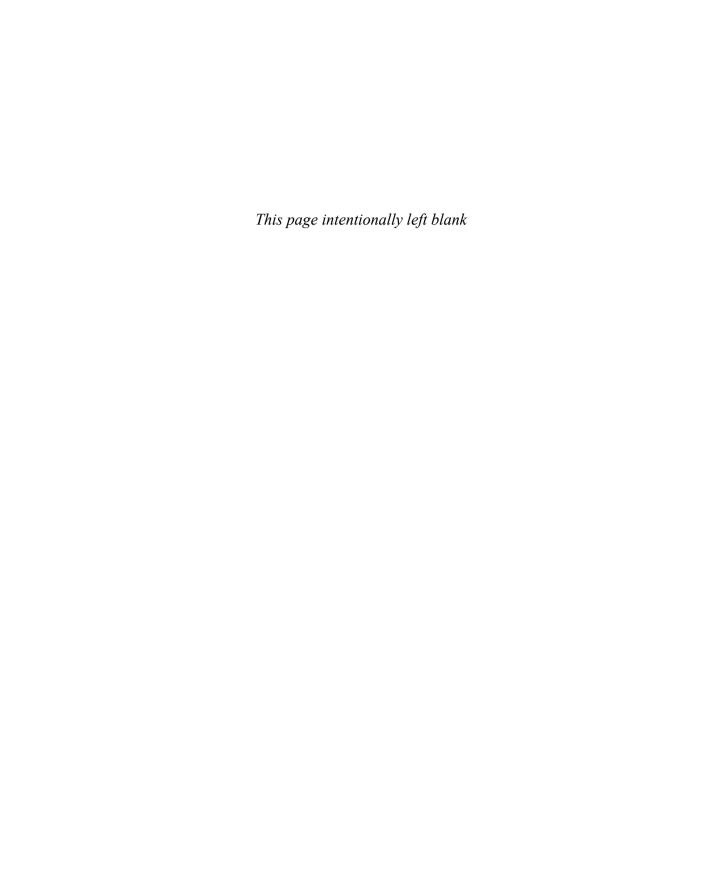
- 1 Open a new or existing document.
- Create a custom document.
- 3 Click the File menu, and then click Save As Template.

The Templates folder appears, displaying different types of templates available for Illustrator.

- 4 Type a name for the new template.
- 5 Click the Save as Type list arrow (Win) or Format popup (Mac), and then click Illustrator Template (*.AIT), if necessary.
- 6 Navigate to a different location if you want to save your custom templates in a folder other than the Illustrator Templates folder.
- Click Save.

If you find yourself frequently creating the same kind of document, then you should create a template. A template is a special document that makes it easier to reuse frequently used material. An Illustrator Template file uses the (AIT) file format instead of the normal (AI) document file format. When you create a new document from a template, a new document appears with the filename "Untitled," so you don't mistakenly make and save changes over the template file.





16

Designing for the Web

Introduction

If you need to manipulate a photographic image to place it on the web, there's not a better program on the market than Adobe Illustrator that will do the job for you. Illustrator uses various document formats, such as JPEG, GIF, PNG, SWF (Flash movie), and SVG, to save images for the web. For example, the JPEG format is used primarily for compressing photographic images, while the GIF format is used for compressing clip art and text. Each format is designed to serve a purpose, and knowing when to use a specific format will help you design fast-loading, dynamic web documents.

However, saving files in a specific file format is not the only way Illustrator helps you create web-friendly images; you can also slice images. When you slice an image, you're cutting the image into several pieces. Since the Internet handles smaller packets of information more efficiently than one large piece, slicing an image makes the whole graphic load faster, and Illustrator helps you slice images with ease.

What You'll Do

Save for the Web

Work with Save for Web Options

Work with Web File Formats

Optimize a JPEG Document

Optimize a GIF Document

Optimize a PNG-8 Document

Optimize a PNG-24 Document

Optimize an Image to File Size

Slice Images the Easy Way

Work with Slices

Add HTML Text or an URL to a Slice

Arrange Slices

Combine or Divide Slices

Save Slices for the Web

Save Selected Slices

Preview in a Browser

Saving for the Web

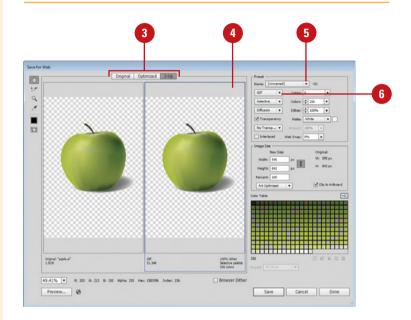
Save for the Web

- Open a document.
- 2 Click the File menu, and then click Save for Web.
- 3 Click the **Original**, **Optimized**, or **2-Up** tabs to view the document using different layouts.
- 4 Click one of the sample images to change its default format.

IMPORTANT If you're viewing the document using 2-Up, the first image is the original. You can't change the original; you can only edit one of the sample images.

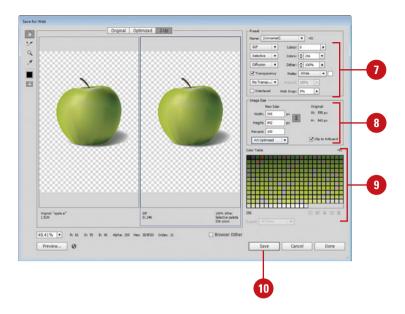
- 5 Click the **Preset** list arrow, and then select a new format from the available options.
- 6 Click the **Optimized File Format** list arrow, and then select from the following options:
 - GIF. The Graphics Interchange Format is useful for clip art, text, or images that contain a large amount of solid color. GIF uses lossless compression.
 - JPEG. The Joint Photographic Experts Group format is useful for images that contain a lot of continuous tones, like photographs. JPEG uses lossy compression.

Illustrator's Save for Web command is a dream come true for preparing images for the Internet, or even for saving images in a quick-loading format for Microsoft PowerPoint slide presentations, and you don't even have to leave Illustrator. The Save for Web command lets you open any Illustrator document, and convert it into a web-friendly format using the GIF, JPEG, or PNG formats. You can even try different optimization settings or compare different optimizations using the 2-Up pane. In addition, the dialog area below each image provides optimization information on the size and download time of the file.



- PNG-8. The Portable Network Graphics 8-bit format functions like the GIF format. PNG uses lossless compression.
- PNG-24. The Portable Network Graphics 24-bit format functions like the JPEG format. PNG-24 uses lossless compression.
- 7 Select from the various options that change based on your File Format selection.
- 8 Use the **Image Size** section to change the selected image's width and height, and make other image related adjustments.
- Use the **Color Table** section (available for the GIF and PNG-8 formats), to add, subtract, or edit colors in the selected document.
- 10 Click Save.
- Enter a name, and then select a location in which to save the image file.
- 12 Click **OK**.

Illustrator saves the modified file and returns you to the original image.



For Your Information

Working with Matte and Transparency

The Matte option, when available, specifies the background color used to fill anti-aliased edges that lie adjacent to transparent areas of the image. When the Transparency option is selected, the matte is applied to edge areas to help blend the edges with a web background of the same color. When the Transparency option is not selected, the matte is applied to transparent areas. Choosing the None option for the matte creates hard edges if Transparency is selected; otherwise, all transparent areas are filled with 100% white. The image must have transparency for the Matte options to be available.

Working with Save for Web Options

Work with Save for Web Options

- 1 Open a document.
- 2 Click the File menu, and then click Save for Web.
- 3 Select from the various tools:
 - Hand Tool. Drag inside the image to change the view.
 - Slice Select Tool. Select a predefined image slice.
 - Zoom Tool. Click on the image to expand the view size.
 - Eyedropper Tool. Drag within the image to perform a live sampling of the colors.
- 4 Click the **Zoom** list arrow, and then select a view size for the images.
- 5 Click the **Toggle Slice Visibility** button to show or hide the slices.

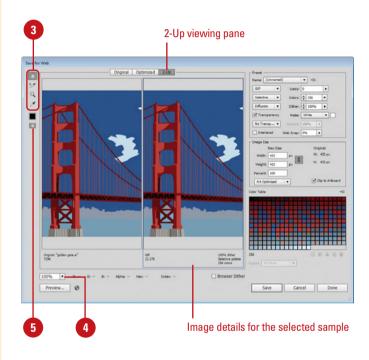
Did You Know?

You can view image details in the Save for Web dialog box. Below the selected sample, you can view file format, size, and color palette information.

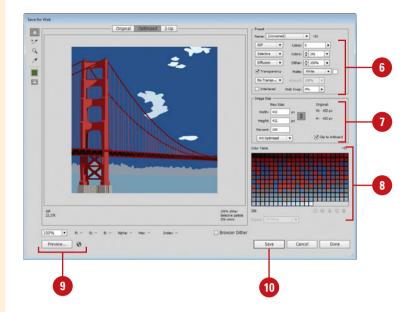
See Also

See "Optimizing an Image to File Size," on page 439 for information on reducing file sizes for the web.

When you choose Save for Web, you are able to save your image in one of three web formats: GIF, JPEG, or PNG. The Save for Web dialog box comes with options that will help you through the process. For example, if you choose the JPEG format, you can select the amount of compression applied to the image or, if you select the GIF format, you can choose how many colors are preserved with the image. The PNG format lets you save images in an 8-bit (256 colors) or a 24-bit (millions of colors) format. The options available with Save for Web give you the control you need to produce small image files with high quality.



- 6 Select from the various options that change based on your File Format selection.
- Use the **Image Size** section to change the selected image's width and height, and make other image related adjustments.
 - Width and Height. Specify a new image width and height; click the Lock icon to retain original proportions.
 - Percent. Specify a resize percentage.
 - Anti-aliasing. Select to smooth out the edges of text or artwork.
 - Clip to Artboard. Select to set the clipping boundary to the artboard rather than the smallest enclosed box or clipping box.
- Use the **Color Table** section (available for the GIF and PNG-8 formats) to add, subtract, or edit colors in the selected document.
 - Color Palette Menu. Click the menu to add or remove colors, select colors, sort colors, load or save a color table.
- Click the Preview in Default Browser button to preview the image in your default web browser.
 - Click the Select Browser Menu button to choose a browser or edit the browser list.
- 10 Click Save.



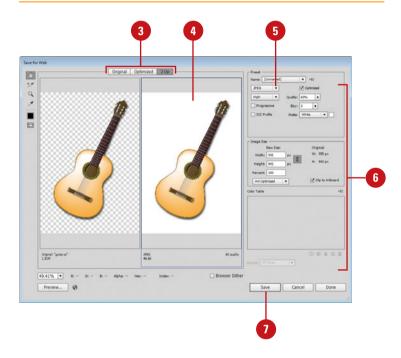
Working with Web File Formats

Work with Web File Formats

- Open a document.
- 2 Click the File menu, and then click Save for Web.
- 3 Click the **Original**, **Optimized**, or **2-Up** tabs to view the document using different layouts.
- Select one of the samples.
- 5 Click the **Optimized File Format** list arrow, and then select a format from the available options.
- 6 Select the options you want to use to change image compression, and then specify your desired color options.
- Click Save.

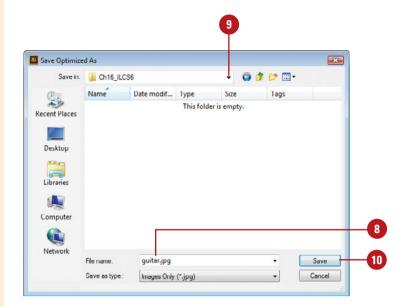
The Save Optimized As dialog box appears.

If you design web documents, you know that the size of your images is very important. Illustrator gives you the option of compressing images in one of three formats appropriate for use on the web: GIF, JPEG, or PNG. The GIF format compresses images that contain solid colors with sharp, definable edges, such as clip art and text. The JPEG format reduces the size of image files that contain a lot of soft transitional colors, such as photographs. The PNG format is a hybrid format designed to take the place of the GIF and JPEG format. Illustrator will help you transform your images into whatever format you need in order to create stunning web images.



- 8 Enter a name in the File Name box.

 The Save as Type (Win) or Format (Mac) list arrow is set to Images Only.
- 9 Click the Save In (Win) or Where (Mac) list arrow, and then select the location in which to save the file.
- 10 Click Save.

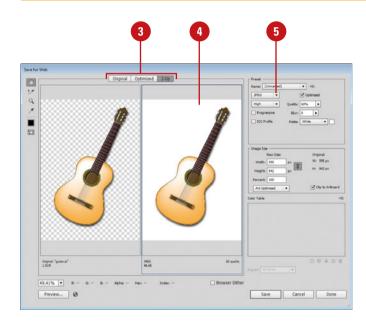


Optimizing a JPEG Document

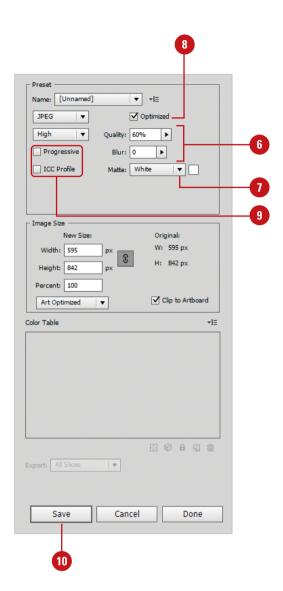
Optimize a JPEG Document

- Open a document.
- 2 Click the File menu, and then click Save for Web.
- 3 Click the **Original**, **Optimized**, or **2-Up** tabs to view the document using different layouts.
- 4 Click one of the sample images to change its default format.
- 5 Click the **Optimized File Format** list arrow, and then click **JPEG**.
- 6 Select from the following Quality options:
 - Compression Quality. Click the list arrow, and then select a preset JPEG quality from Low (poor quality) to Maximum (best quality).
 - Quality Amount. Enter a JPEG quality compression value (0% to 100%). The lower the value, the more information (color) is sacrificed for image size.
 - Blur. JPEG images compress better when the image has soft edges. Apply the Blur option to increase the softness of the image (at a sacrifice of image quality).

Illustrator comes complete with everything you will need to properly compress any JPEG Document. The Internet can sometimes be slow to navigate, and your visitors typically do not have much patience. When you compress a JPEG image, you're essentially removing information from the image to reduce its file size and speed up the loading time. The unfortunate result of that reduction is loss of image quality. Internet graphics are not always the best quality; however, reducing file size is a necessary evil to keep visitors from clicking off your site and moving to another. To keep visitors happy, your JPEG images must load fast, and Illustrator is just the application to help you accomplish that goal.



- 7 Click the **Matte** list arrow, and then select from the available options.
 - JPEG images do not support transparency. If your image contains transparent areas, use the Matte option to fill them in using a specific color.
- 8 Select the **Optimized** check box to further compress the image. This is not supported by all browsers.
- 9 Select from the following options:
 - Progressive. Select the check box to load a JPEG in three progressive scans. Not supported by all browsers.
 - ICC Profile. Select the check box to embed an ICC color profile into the JPEG image. This increases file size but helps maintain color consistency between monitors and operating systems.
- 10 Click **Save** to save the current image, and then save it using the Save Optimized As dialog box.



Optimizing a GIF Document

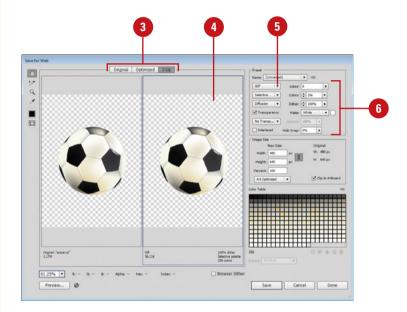
Optimize a GIF Document

- 1 Open a document.
- 2 Click the File menu, and then click Save for Web.
- 3 Click the **Original**, **Optimized**, or **2-Up** tabs to view the document using different layouts.
- 4 Click one of the sample images to change its default format.
- 5 Click the **Optimized File Format** list arrow, and then click **GIF**.
- 6 Select from the following options:

Color Options:

- Reduction. Click to select a visual reduction method for the image's colors.
- Colors. Enter or select a value from 2 to 256 maximum colors.
- Web Snap. Enter or select a value from 0% to 100% to instruct the GIF compression utility how many of the image colors should be web-safe.

The GIF file format is used primarily for images that contain solid colors with sharp edges, such as clip art, text, line art, and logos. Since the Internet can generally be slow to navigate, using the GIF format for images significantly reduces their file size, and will create fast-loading graphics. The GIF format supports 8-bit color, and creates a document with a maximum of 256 colors (the fewer colors, the smaller the file size). The GIF format has been around long enough for it to be considered a "native" Internet format. A **native format** is one that does not require a specific plug-in for the browser to display the file.



Dither Options:

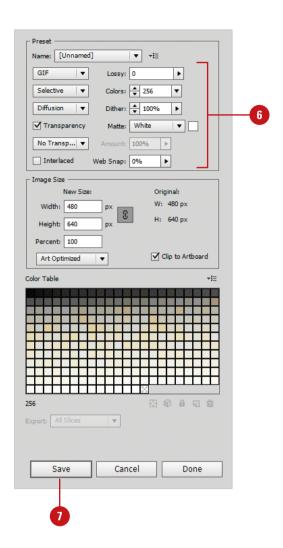
- Method. Click the list arrow, and then select from the available dithering schemes. Dithering refers to how the GIF format mixes the available colors in the image.
- Amount. Enter or select a value from 0% to 100% to instruct the GIF compression utility how many of the image's colors should be dithered.

Transparency Options:

- Transparency. Check to keep the transparent areas of a GIF image transparent.
- Matte. Click to fill the transparent areas of a GIF image.
- Dither. Click to select a dithering scheme and enter an amount for the mixing of the matte color.

Other Options:

- Interlaced. Check to have the GIF image load in three scans.
- Lossy. Enter or select a value from 0 to 100 to instruct the GIF compression utility how much image loss is allowed.
- 7 Click **Save** to save the current image, and then save it using the Save Optimized As dialog box.



Optimizing a PNG-8 Document

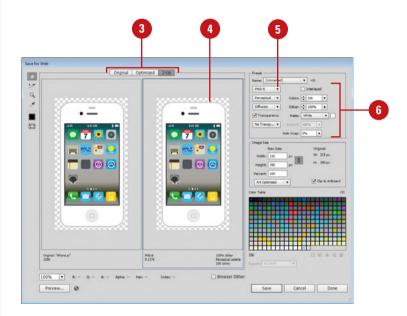
Optimize a PNG-8 Document

- Open a document.
- 2 Click the File menu, and then click Save for Web.
- 3 Click the **Original**, **Optimized**, or **2-Up** tabs to view the document using different layouts.
- 4 Click one of the sample images to change its default format.
- 5 Click the **Optimized File Format** list arrow, and then click **PNG-8**.
- 6 Select from the following options:

Color Options:

- Reduction. Click to select a visual reduction method for the colors in the image.
- Colors. Enter or select a value from 2 to 256 maximum colors.
- Web Snap. Enter or select a value from 0% to 100% to instruct the PNG-8 compression utility how many of the image's colors should be web-safe.

The PNG-8 file format is used primarily for images that contain solid colors with sharp edges—clip art, text, line art, and logos—and was designed as an alternative to the GIF file format. Since the PNG-8 format generates an image with a maximum of 256 colors, it significantly reduces an image's file size. While similar to the GIF file format, the PNG-8 format is not completely supported by older browsers. However, it is considered a native format for the creation of Flash animation movies.



Dither Options:

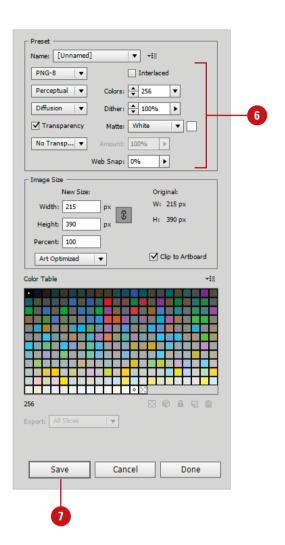
- Method. Click the list arrow, and then select from the available dithering schemes. Dithering is how the PNG-8 format mixes the available image's colors.
- Amount. Enter or select a value from 0% to 100% to instruct the PNG-8 compression utility how many of the image's colors should be dithered.

Transparency Options:

- Transparency. Check to keep the transparent areas of a PNG-8 image transparent.
- Matte. Click to fill the transparent areas of a PNG-8 image.
- Dither. Click to select a dithering scheme and enter an amount for the mixing of the matte color.

Other Options:

- Interlaced. Check to have the PNG image load in three scans.
- 7 Click **Save** to save the current image, and then save it using the Save Optimized As dialog box.



Optimizing a PNG-24 Document

Optimize a PNG-24 Document

- Open a document.
- 2 Click the File menu, and then click Save for Web.
- 3 Click the **Original**, **Optimized**, or **2-Up** tabs to view the document using different layouts.
- 4 Click one of the sample images to change its default format.
- 5 Click the **Optimized File Format** list arrow, and then click **PNG-24**.
- 6 Select from the following options:

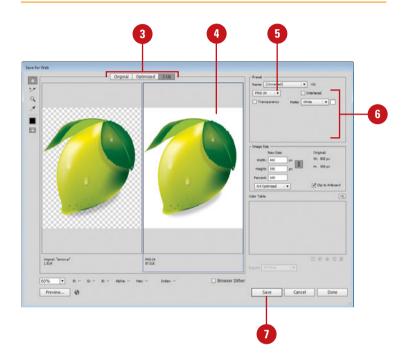
Transparency Options:

- Transparency. Check to keep the transparent areas of a PNG-24 image transparent.
- Matte. Click to fill the transparent areas of a PNG-24 image.

Other Options:

- Interlaced. Check to have the PNG-24 image load in three scans.
- 7 Click **Save** to save the current image, and then save it using the Save Optimized As dialog box.

The PNG-24 file format is used primarily for images that contain lots of colors with soft transitional edges, such as photographs, and was designed as an alternative to the JPEG file format. The PNG-24 format generates an image with millions of colors, and still manages to reduce the size of a file. While similar to the JPEG file format, the PNG-24 uses lossless compression, and does not compress files as small as the JPEG format. So for the time being, most designers are still using the JPEG format for creating faster-loading web graphics.



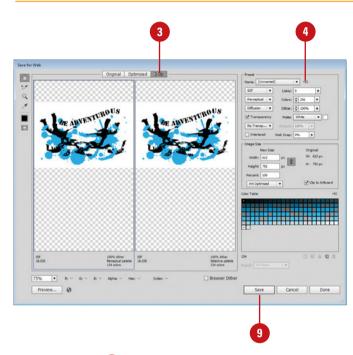
Optimizing an Image to File Size

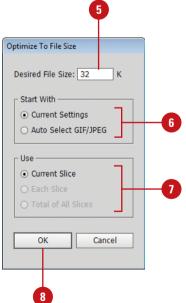
Optimize an Image to File Size

- Open a document.
- 2 Click the File menu, and then click Save for Web.
- 3 Click the **2-Up** tab, and then select the sample image to the right.
- 4 Click the **Optimize Menu** button, and then click **Optimize To File**Size.
- 5 Enter a file size in the Desired File Size data hox.
- 6 Click the Current Settings option or the Auto Select GIF/JPEG option to let Illustrator choose between the GIF or JPEG format.
- 7 Click the following Use options:
 - Current Slice
 - Each Slice
 - Total of All Slices
- 8 Click OK.

Illustrator compresses the selected sample.

 Click Save to save the compressed image. The Save for Web dialog box has many options to help you create the exact image you need—including helping you compress an image down to a specific file size. For example, you've just created an image you want to display on the web, but the maximum file size you can use is 35 KB. You could experiment with compression options in the Save for Web settings, or you could use the Optimize to File Size option.





Slicing Images the Easy Way

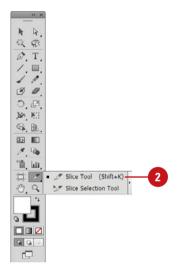
Create a User Slice with the Slice Tool

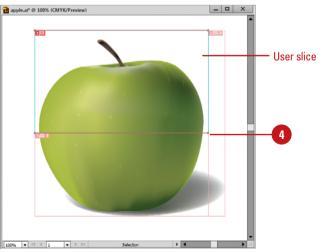
- Open a document.
- Select the Slice tool on the Tools panel.

IMPORTANT To make slicing a little easier, drag a few guides from the Ruler bar to help guide your slicing tool.

- 3 Drag and release the slice tool in the document to create a rectangular or square slice.
 - To constrain the slice to a square, hold down Shift as you drag.
- 4 Continue to drag and release until you have the image correctly sliced.

Illustrator allows you to slice a document into smaller pieces. You might want to slice an image to create interactive links; however, the best reason is speed. You gain speed by compressing individual slices to reduce the image size. You can draw directly on an image to create a user-defined slice using the Slice tool. When you create a slice, Illustrator also creates **auto slices**, which fill the space in the image that is not defined by user defined slices. There are two types of automatic slices: auto slices and subslices. Subslices show overlapping user-defined slices. User-defined slices are identified by a solid blue line, while auto slices are identified by dotted red lines. The slices also are numbered from left to right and top to bottom. If you want to make changes to the slice, you need to select it first. When you edit or move the layer contents, the slice automatically changes.





Create a User Slice from a Selected Object

- Open a document.
- 2 Select the object that you want to use to create a slice.
- 3 Click the **Object** menu, point to **Slice**, and then click **Make** or **Create from Selection**.

Did You Know?

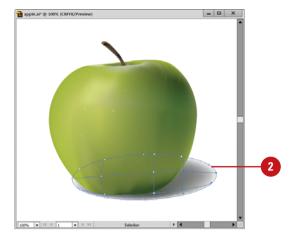
You can create slices from guides.

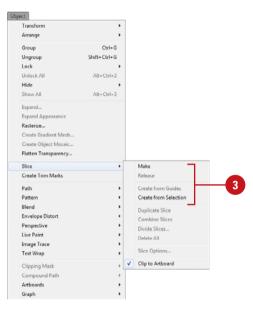
Add guides to the image, select the Slice tool on the tools panel, click the Object menu, point to Slice, and then click Create From Guides.

You can lock guides. To keep a guide from being moved, click the View menu, point to Guides, and then click Lock Guides.

You can remove guides. To remove guides, click the View menu, point to Guides, and then click Clear Guides.

You can show and hide guides. Click the View menu, point to Guides, and then click Show Guides or Hide Guides.





For Your Information

What's a Subslice?

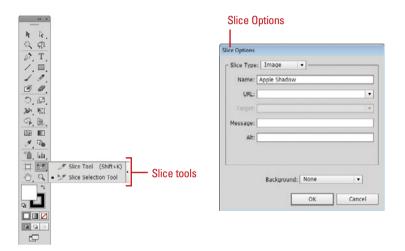
The subslice is a type of auto slice that is automatically created when you create overlapping slices. They are created as a stack, one on top of the other, which you can rearrange. The subslice shows you how the image is divided when you save the optimized file. Subslices appear with a number and a slice symbol. When you make changes to a slice related to a subslice, the subslice automatically gets recreated.

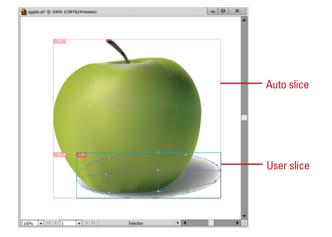
Working with Slices

Work with Slices in the Illustrator Window

- Open a document with slices.
- Use any of the following:
 - Show or Hide Slices. Click the View menu, and then click Show Slices or Hide Slices.
 - Select Slices. Click the Slice Selection tool, and then click the slice you want. Use Shift+click or drag to select multiple slices.
 - Delete Slices. Select the slices, and then press Delete.
 - Duplicate Slices. Select the slices, and then Alt (Win) or Option (Mac) and drag the selection.
 - View Slice Options. Click the Slice Selection tool, select the slice you want, click the Object menu, point to Slice, and then click Slice Options.

After you create slices within an image, you can use the Options bar or the Save for Web dialog box to work with slices. You can select options to show or hide slices, select one or more slices, delete or duplicate slices, and view or change slice settings. If you have an image with more than one slice, you need to optimize the slices in the Save for Web dialog box. You can use the Optimize menu to link multiple slices together. For linked slices in the GIF and PNG-8 format, Illustrator uses the same color palette and a dithering pattern to hide the seams between slices.





Work with Slices in the Save for Web Dialog Box

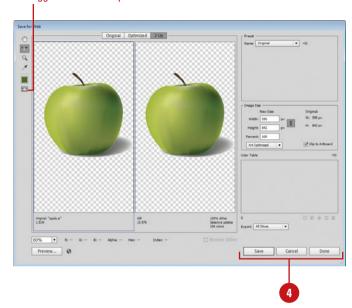
- 1 Open a document with slices.
- 2 Click the File menu, and then click Save for Web.
- 3 Select the file type you want, select any options, and then make any adjustments you want.
 - Show or Hide Slices. Click the Toggle Slices Visibility button.
 - Select Slices. Click the Slice Select tool, and then click the slice you want. Use Shift+click or drag to select multiple slices.
 - View Slice Options. Click the Slice Select tool, and then double-click the slice you want.
 - Link Slices. Select the slices you want to link, click the Optimize Menu button, and then click Link Slices.

A link icon appears on the slices.

- Unlink Slices. Select the slice, click the Optimize Menu button button, and then click Unlink Slice or Unlink All Slices.
- Export Slices. Click the Export list arrow, and then select a slices export option (New!).
- When you're done, click **Save** to save the image or click **Done** to save your settings.

TIMESAVER Hold down Ctrl (Win) or Command (Mac) to switch between the Slice tool and the Slice Select tool.

Toggle Slices Visibility button



Slice Select button

Optimize Menu button

Select order

Optimize Menu button

Optimize Menu button

Select order

Optimize Menu button

Select order

Optimize Menu button

Optimize Menu button

Optimize Menu button

Optimize Menu button

Select order

Optimize Menu button

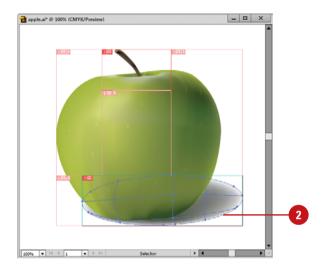
Auto slice hidden

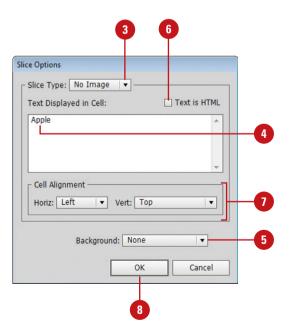
Adding HTML Text or an URL Link to a Slice

Add HTML Text to a Slice

- 1 Open a document with the slice.
- Open the Slice dialog box to add text using one of the following:
 - Tools Panel. Select the Slice Selection tool on the Tools panel, select the slice you want to add HTML text, click the Object menu, point to Slice, and then click Slice Options.
 - Save for Web dialog box. Click the File menu, click Save for Web, and then double-click the slice to which you want to add HTML text.
- 3 Click the Slice Type list arrow, and then click No Image.
- Enter the text you want.
- 5 Click the **Background** list arrow, and then select a background:
 None, Matte, Eyedropper Color,
 White, Black, or Other.
- 6 Select the **Text is HTML** check box to include HTML formatted tags.
- Select the horizontal and vertical cell alignment options you want.
 - To line up text in cells in the same row, set a common baseline for all cells in the row.
- 8 Click OK.

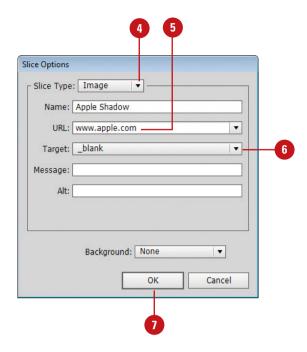
If you want to include text within a slice for use on the web, you can enter plain or formatted text with standard HTML tags directly on a slice with the type **No Image**. The text doesn't show up in Illustrator; you need to use a web browser to see it. Don't enter too much text as it might affect the exported layout. You can add text using the Slice Select tool on the Tools panel, or in the Save for Web dialog box. If you want to create a hyperlink out of a slice for use on the web, you can add an URL to a slice with the type **Image**.





Add an URL Link to a Slice

- Open a document.
- Select the Slice Selection tool on the Tools panel.
- 3 Double-click the slice to which you want to add an URL link.
 - You can also click the Object menu, point to Slice, and then click Slice Options.
- 4 Click the **Slice Type** list arrow, and then click **Image**.
- 5 Enter an URL address or select a previously created one from the list. Be sure to use the complete URL address, such as http://www.perspection.com.
- 6 If you want to enter a target frame:
 - _blank. Displays the linked file in a new window.
 - _self. Displays the linked file in the same frame as the original file.
 - _parent. Displays the linked file in its own original parent frameset.
 - _top. Replaces the entire browser window with the linked file, removing all current frames.
- Click **OK**.



For Your Information

Selecting a Slice Content Type

The slice type determines how the slice appears in a web browser after you save it for the web from Illustrator. There are three content types: Image, No Image, and HTML Text. Image contains image data, while No Image creates empty table cells where you can put text or a solid color. HTML Text specifics the text is formatted with HTML tags; available when you select the Text is HTML check box. To change the slice content type, click the Object menu, point to Slice, and then click Slice Options. Click the Type list arrow, and then select the type you want.

Arranging Slices

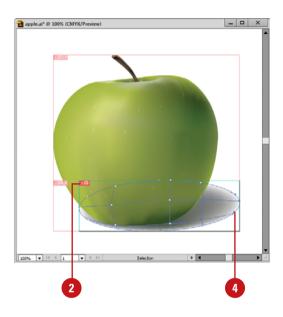
Move or Resize Slices

- Open a document with slices.
- Select the slices you want to move or resize.
- To move a slice selection, drag the slice to a new location. You can press Shift to constrain movement up, down, or diagonally.
- 4 To resize a slice, drag the side or corner handle of the slice. When you select adjacent slices with common edges, the slices resize together.
 - You can also set exact slice position or size on the Control panel.

Did You Know?

You can copy and paste a slice. You can copy and paste a slice like any other object using the Copy and Paste commands. If you copy a slice to Dreamweaver, it retains information from the original file in Illustrator.

Moving and resizing objects in Illustrator is a common task. You can move or resize slices in the same basic way you do other objects. In addition to moving slices, you can also align them along an edge or to the middle, and evenly distribute them horizontally or vertically. When you align and distribute slices, you can reduce the amount of unnecessary auto slices, thereby creating smaller files and faster load times. When you have slices overlapping each other, you can change the stacking order to move them up or down in the order. For example, if you have one slice behind another, you can bring the slice forward one level at a time or to the top (front).



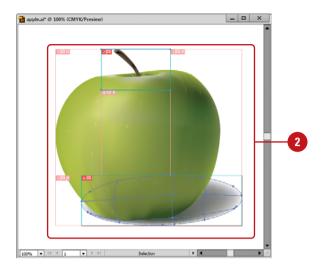


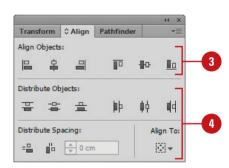
Align, Distribute, or Stack Slices

- Open a document with slices.
- Select the slices you want to arrange.
- 3 To align slices, select the alignment button on the Align panel you want: Horizontal Align Left, Center, or Right, and Vertical Align Top, Center, or Bottom.
- 4 To evenly distribute slices, select the distribute button on the Align panel you want: Vertical Distribute Top, Center, or Bottom, and Horizontal Distribute Left, Center, or Right.
- 5 To change the slice stacking order, click the **Object** menu, point to **Arrange**, and then select the command you want: **Bring To Front**, **Bring Forward**, **Send Backward**, or **Send To Back**.

Did You Know?

You can snap slices to a guide, user slice, or other object. Click the View menu, and then click Snap To Grid or Snap To Point. When you move a slice toward an element, the slice snaps to the elements within 4 pixels.





Combining or Dividing Slices

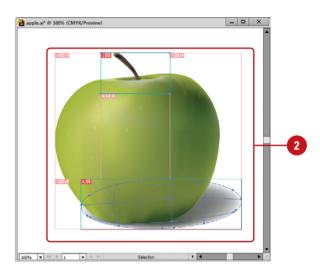
Combine or Divide Slices

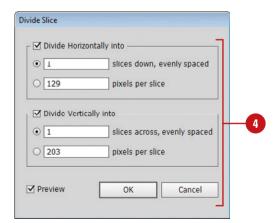
- Open a document with slices.
- Select the slices you want to combine or the slice you want to divide.
- To combine the slice selection, click the **Object** menu, point to **Slice**, and then click **Combine Slices**.
- 4 To divide the slice selection, click the **Object** menu, point to **Slice**, and then click **Divide Slices**.
 - To preview slice divide, select the **Preview** check box.
 - Specify options to divide the slice horizontally or vertically, and then click OK.

Did You Know?

You can duplicate user and auto slices. Select the slice, click the Object menu, point to Slice, and then click Duplicate Slice.

In addition to moving and resizing slices, you can also combine or divide slices. If you want to combine slices, you simply select the slices you want to combine and then choose the Combine Slices command. When you divide slices, you select options to divide the slice horizontally or vertically, down or across in equal parts, or enter an exact size in pixels. As you specify divide values, you can select the Preview option to see how it effects the slice in the document window.





Saving Slices for the Web

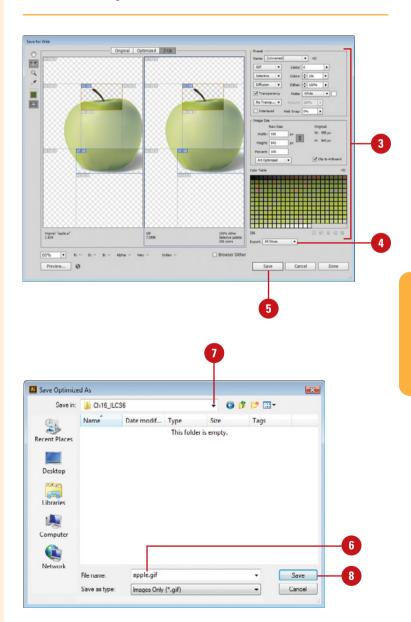
Save a Slice for the Web

- Open a document with the slice you want to save.
- 2 Click the File menu, and then click Save for Web.
- 3 Select the file type you want, select any options, and then make any adjustments you want.
- 4 Click the Slices list arrow (New!), and then click All Slices, All User Slices, or Selected Slices.
- Click Save.
- 6 Enter a name in the File Name box.

The Save as Type (Win) or Format (Mac) list arrow is automatically set to Images Only.

- 7 Click the **Save In** (Win) or **Where** (Mac) list arrow, and then select the location in which to save the files.
- 8 Click Save.

After you create slices within an image, you can export and optimize each slice using the Save for Web command, which saves each slice as a separate file. In the Save for Web dialog box, you can specify the slices you want to save (New!), either All Slices, All User Slices, or Selected Slices. After you click Save in the Save for Web dialog box, the Save Optimized As dialog box appears, where you can specify file names for the image slices.



Saving Selected Slices

Save a Selected Slice

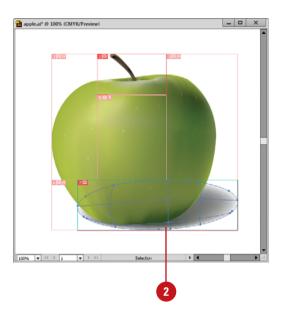
- Open a document with slices.
- Select the slices you want to save.
- 3 Click the File menu, and then click Save Selected Slices.
- 4 Enter a name in the File Name box.

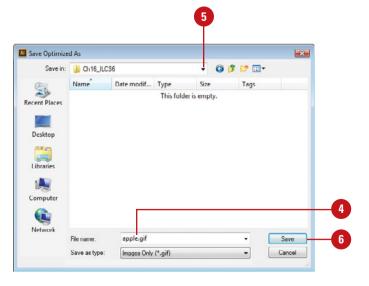
 The Save as Type (Win) or Format (Mac) list arrow is automatically
- 5 Click the **Save In** (Win) or **Where** (Mac) list arrow, and then select the location in which to save the files.

set to Images Only.

6 Click Save.

Instead of using the Save for Web dialog box to select and save slices, you can select and slices directly from the document window. In the document window, select the slices you want to save, and then use the Save Selected Slices command on the File menu. In the Save Selected Slices dialog box, you can enter a name for the image slice files and specify where you want to save the individual files. Each selected slice is saved as a separate file with consecutive numbers at the end to distinguish them apart.



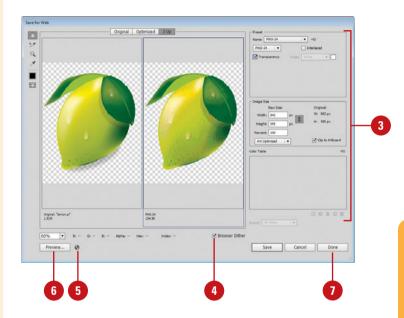


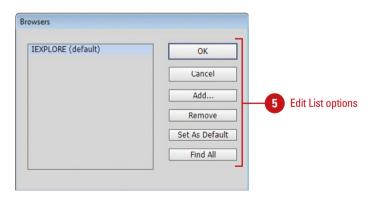
Previewing in a Browser

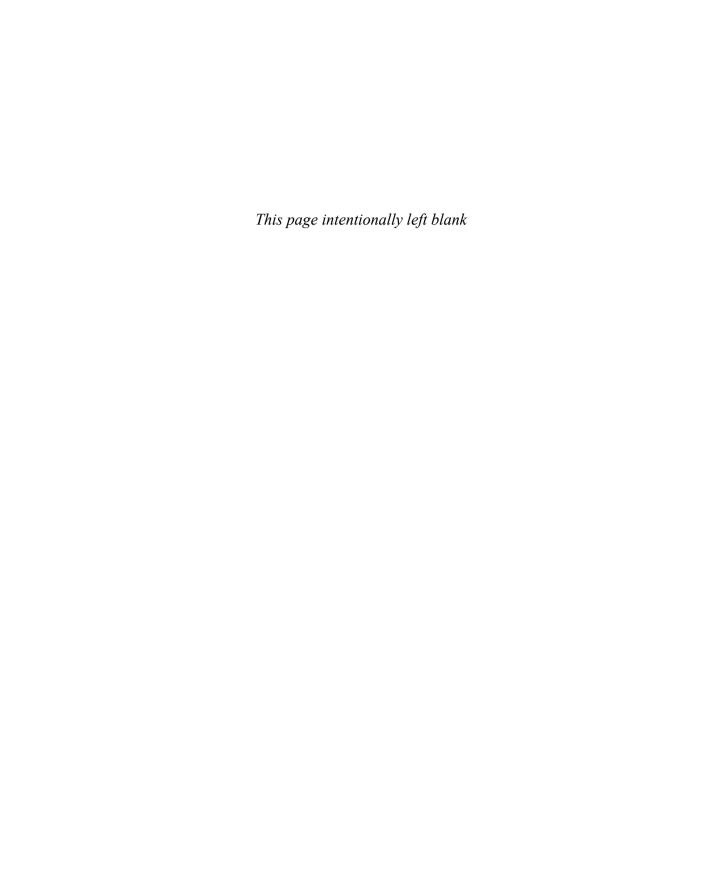
Preview in a Browser

- Open a document.
- 2 Click the File menu, and then click Save for Web.
- 3 Specify the settings you want for the image that you want to preview.
- To view how a browser dithers the image, click the **Browser Dither** check box (New!).
- 5 To add a browser to the list of available ones or set a new default, click the **Select Browser**Menu button, and then select from the following options:
 - Other. Click to select the browser you want to use.
 - Edit List. Click to find, add, remove, or set as default.
 - Add. Add a browser.
 - Remove. Removes the selected browser.
 - Set As Default. Set the selected browser as the default.
 - Find All. Finds all browsers on your computer.
- 6 Click **Preview** to open the image in your default browser.
 - When you're done, close your browser.
- 7 Click Done.

While you're working with images in the Save for Web dialog box, you can preview them in your web browser to see how they will look on the web. If you want to use your default browser, you can click the Preview button to quickly see your results. If you want to preview it in other browsers, you can add them to your browser list. Illustrator makes it easy to find all the browsers installed on your computer. In the Browsers dialog box, simply click Find All and Illustrator does the rest. If you want to see see how a browser dithers your image, you can select the Browser Dither option (New!).







Customizing the Way You Work

17

Introduction

No description of Adobe Illustrator would be complete without that well-known, but little utilized area called Preferences. Illustrator preferences serve several purposes. They help customize the program to your particular designing style, and they help you utilize available computer resources to increase the overall performance of the program.

As you use Illustrator, you'll come to realize the importance of working with units and rulers. Precision is the name of the game when you are working with images. What about the color of your guides, grids, and slices? No big deal, you say. Well, if you've ever tried viewing a blue guide against predominantly blue artwork, you know exactly why guide color is important. By working through preferences, such as Display Performance and Scratch Disks, speed increases of up to 20% can be achieved.

In addition, customizing the program helps make you more comfortable, and studies show that the more comfortable you are as a designer, the better your designs. Plus, being comfortable allows you to work faster, and that means you'll accomplish more in the same amount of time. What does setting up preferences do for you? They make Illustrator run faster, you work more efficiently, and your designs are better. That's a pretty good combination. Illustrator doesn't give you Preferences to confuse you, but to give you choices, and those choices give you control.

What You'll Do

Set General Preferences

Change Selection & Anchor Display Preferences

Set Type Preferences

Change Units & Display Performance Preferences

Set Slices and Hyphenation Preferences

Select Plug-Ins

Select Scratch Disks

Set User Interface Preferences

Set File Handling & Clipboard Preferences

Work with Appearance of Black Preferences

Define Shortcut Keys

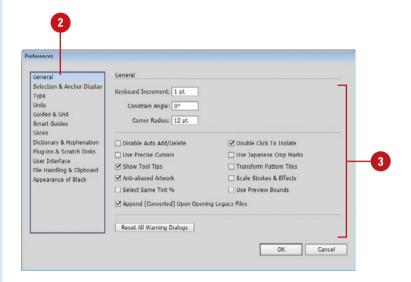
Use Drawing Tablets

Setting General Preferences

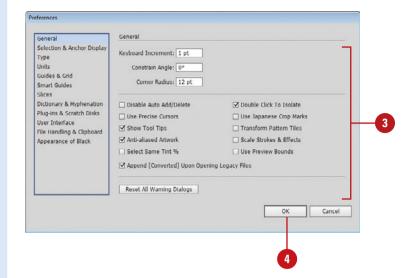
Set General Preferences

- 1 Click the Edit (Win) or Illustrator (Mac) menu, and then point to Preferences.
- 2 Click **General**.
- 3 Select the various options you want to use:
 - Keyboard Increment. Enter a distance value (0-1296 points) that a selected object moves when an arrow key is pressed.
 - Constrain Angle. Enter the angle (-360 to 360) for the x and y axes. Many tool operations and other measurements are calculated relative to this angle.
 - Corner Radius. Enter a value (0-1296 points) to specify the curvature in the corners of objects drawn with the Rounded Rectangle tool.
 - Disable Auto Add/Delete. Select to disable the behavior of the Pen tool to change to the Add Anchor Point or Delete Anchor Point tool when you point to an anchor.
 - Use Precise Cursors. Select to use crosshairs instead of the tool icon for drawing and editing tools.
 - Anti-aliased Artwork. Select to display smoother edges of vector objects.

Illustrator's General preferences help you configure some of the more common features of the program. Some of the options include keyboard increment choices to move selected objects with arrow keys, antialiased artwork to smooth out edges, showing tooltips to display onscreen help tags, and scaling stroke & effects to scale an object's stroke weight and appearance. You can also click the Reset All Warning Dialogs to allow warnings for which you previously selected the Don't Show Again check box.



- Show Tool Tips. Select to display a popup tag with a name or short description when you point to a program item, such as a button or tool.
- Select Same Tint %. Select to select only objects with the same spot color and tint percentage as the currently selected object when you use the Fill Color and Stroke Color commands.
- Append [Converted] Upon
 Opening Legacy Files. Select to append "[Converted]" to Illustrator 11 or earlier files when you open them.
- Double Click To Isolate. Select to place a double-clicked group in Isolation Mode.
- Use Japanese Crop Marks.
 Select to use Japanese-style crop marks when you print separations.
- Transform Pattern Tiles. Select to transform a pattern when you use a transformation tool on an object that contains a pattern.
- Scale Strokes & Effects. Select to scale an object's stroke weight and appearance when you scale an object by using its bounding box, the Scale tool or the Free Transform tool.
- Use Preview Bounds. Select to include an object's stroke weight and any effects when calculating its dimensions.
- Reset All Warning Dialogs. Click to allow warnings for which you previously selected the Don't Show Again check box.
- 4 Click OK.



Changing Selection & Anchor Display Preferences

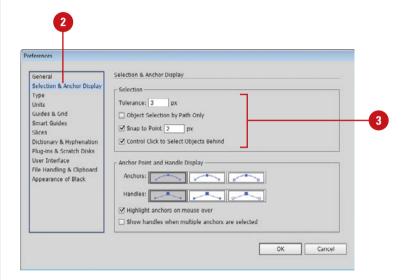
Change Selection & Anchor Display Preferences

- 1 Click the Edit (Win) or Illustrator (Mac) menu, and then point to Preferences.
- Click Selection & Anchor Display.
- 3 Select the Selection options you want to use:
 - Tolerance. Enter a value (in pixels) within which an anchor point becomes selected when you click near it with the Direct Selection tool.
 - Object Selection by Path Only.
 Choose to select an object with the Selection or Direct
 Selection tool when you click a path segment or anchor point.

Deselect to select a filled object in Preview view with a selection tool when you click the filled area.

- Snap to Point. Select to snap objects to an anchor point or guide within the specified value (in pixels).
- ◆ Control or Command Click to Select Objects Behind. Select to use the keyboard shortcut Ctrl+click (Win) or +click (Mac) to select an object behind another object.

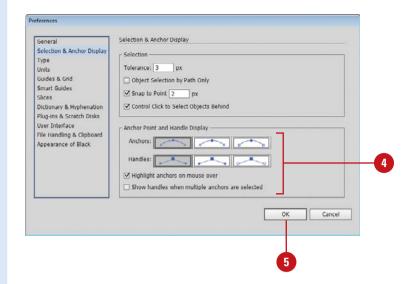
Illustrator's Selection & Anchor Display preferences allow you to set selection and anchor-related options. The Selection options include Tolerance, which specifies a value within which an anchor point becomes selected when you click near it; Object Selection by Path Only, which selects an object when you click a path segment or anchor point; and Snap to Point, which snaps objects to an anchor point or guide within the specified value. If an object is behind another object, you can set an option to use the keyboard shortcut Ctrl+click (Win) or select it. The Anchor Display main options include Anchors and Handles, which allow you to select the display of anchor points and handle end points.



- 4 Select the Anchor Point and Handle Display options you want to use:
 - Anchors. Specify the display of anchor points.
 - Handles. Specify the display of handle end points (direction points).
 - Highlight anchors on mouse over. Select to highlight the anchor point located directly below the mouse pointer.
 - Show handles when multiple anchors are selected. Select to display direction lines on all selected anchor points when you use the Direct Selection or Group Selection tool to select an object.

Deselect to display direction lines for an anchor point when it is the only anchor point on the path or when the Bezier segment for the direction line is selected and the anchor point is not selected.

5 Click OK.

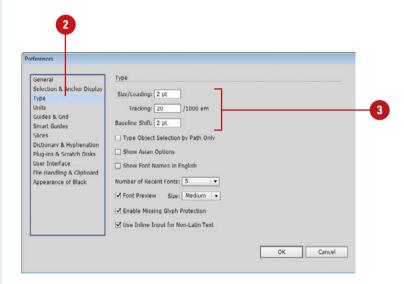


Setting Type Preferences

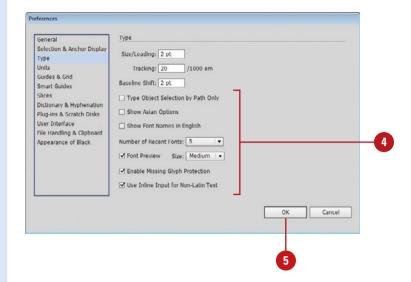
Set Type Preferences

- 1 Click the Edit (Win) or Illustrator (Mac) menu, and then point to Preferences.
- 2 Click **Type**.
- 3 Specify values for Size/Leading, Tracking, and Baseline Shift to increment selected text each time you press a keyboard shortcut for the command.
- 4 Select from the following Type options you want to use:
 - Type Object Selection by Path Only. Choose to select text when you click on a type path.
 - Deselect to select text when you click with a selection tool on or near the type.
 - Show Asian Options. Select to display Japanese, Chinese, and Korean type options in the Character and Paragraph panels.
 - Show Font Names In English.
 Select to display non-Roman fonts using their Roman names.

Although Illustrator is not by definition a typesetting application, such as Adobe InDesign, it does have some very powerful type features. For example, Adobe Illustrator allows you to set options to customize the way you select text. In addition, Illustrator's type menu lets you see fonts exactly as they will print or display. For designers who use a lot of fonts, this WYSIWYG (What You See Is What You Get) font menu is a timesaver. You can use Type preferences to help you select the type and font options you want to use.



- Font Preview Size. Select to display fonts on the menu in small, medium, or large size.
- Enable Missing Glyph
 Protection. Select to
 automatically select incorrect,
 unreadable characters
 between roman and non Roman (Japanese or Cyrillic)
 fonts.
- Use Inline Input for Non-Latin Text. Select to type non-Roman characters directly into Illustrator instead of using a separate dialog box.
- 5 Click **OK**.

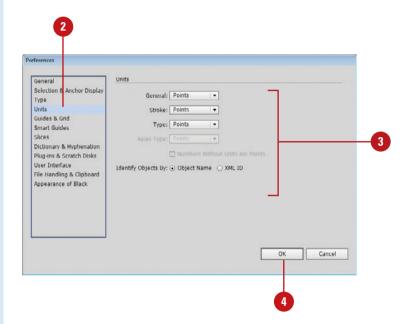


Changing Units Preferences

Change Units Preferences

- 1 Click the Edit (Win) or Illustrator (Mac) menu, and then point to Preferences.
- 2 Click **Units**.
- 3 Select from the following Units options you want to use:
 - General. Select a unit of measure for rulers, dialog boxes, and Transform, Control, and Info panels.
 - Stroke. Select a unit of measure for the Strokes panel and Stroke Weight field on the Control panel.
 - Type. Select a unit of measure for the Character and Paragraph panels.
 - Asian Type. Select a unit of measure for Asian type.
 - Numbers Without Units Are Points. Select to not convert points to picas when Picas is set as the General unit.
 - Identify Objects By. For dynamic objects, select an option to assign variables to the Object Name or an XML ID.
- 4 Click OK.

While changing the measurable units and rulers do not affect output quality, they do help to measure information in a document consistent with the specific output device. In Units preferences, you can set units of measure for general, stroke, and type-related features. The General option (Units) sets a unit of measure for rulers, dialog boxes, and Transform, Control, and Info panels.

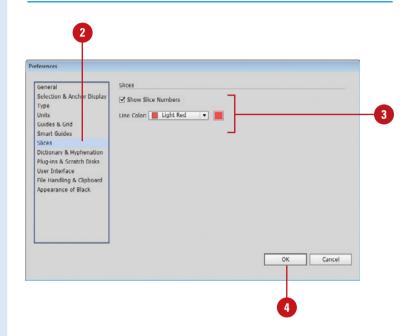


Setting Slices Preferences

Set Slices Preferences

- 1 Click the Edit (Win) or Illustrator (Mac) menu, and then point to Preferences.
- Click Slices.
- 3 Select from the following Slices options you want to use:
 - Show Slice Numbers. Select to show slice numbers.
 - Line Color. Click the list arrow, and then select a line color for slices.
 - To select a custom color (New!), click the color box, select a color, and then click OK.
- 4 Click OK.

Illustrator allows you to slice a document into smaller pieces. You might want to slice an image to create interactive links; however, the best reason is speed. You gain speed by compressing individual slices to reduce the image size. In Slices preferences, you can set options to show a slice number on the screen for easier management and select a line color for slices. You can select a predefined color or a custom one that you can select or specify in the Color dialog box.

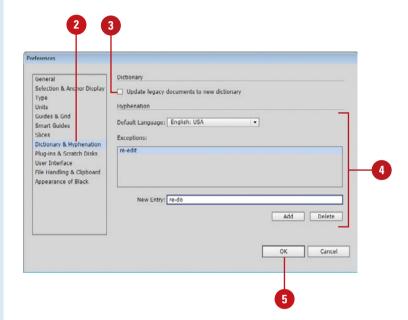


Setting Dictionary & Hyphenation Preferences

Set Dictionary & Hyphenation Preferences

- Click the Edit (Win) or Illustrator (Mac) menu, and then point to Preferences.
- 2 Click Dictionary & Hyphenation.
- 3 Select the Update legacy documents to new dictionary check box to use the new dictionary with older illustrator documents (.AI) (New!).
- 4 Select from the following
 Hyphenation options you want to
 use:
 - Default Language. Select a default language for use with Hyphenation.
 - Exceptions. Enter words in the New Entry box that you want hyphenated a certain way (include the hyphen), and then click Add. To delete an entry, select it from the list, and then click Delete.
- 5 Click OK.

The Dictionary & Hyphenation Preferences give you the ability to specify whether to use the new dictionary with legacy Illustrator documents (New!) and set the default language for hyphenation and any exceptions. When you select a default language for hyphenation, it includes language specific rules for hyphenating the language. If you want to add your own rules for hyphenation, you can add exceptions. You can enter words in the New Entry box that you want hyphenated a certain way. If you no longer want an exception, you can delete it at any time.

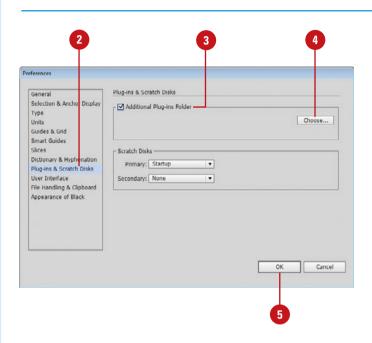


Selecting Plug-Ins

The Plug-ins preferences give you the ability to organize your plug-ins by saving them in one or more folders. These additional folders are typically used to hold third-party plug-ins. When selected, plug-ins contained within the folder will be available in Illustrator. Organizing your plug-ins into folders helps keep your projects focused and reduces the clutter of plug-ins when you want to select them. If you're not sure what plug-ins are installed you can view a list using System Info.

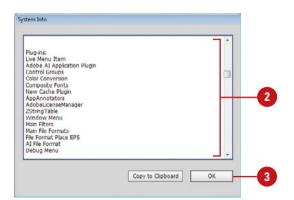
Select Plug-Ins Preferences

- 1 Click the Edit (Win) or Illustrator (Mac) menu, and then point to Preferences.
- Click Plug-ins & Scratch Disks.
- 3 Select the Additional Plug-ins
 Folder check box if you have
 additional plug-ins stored outside
 the default Illustrator plug-ins
 folder.
- 4 If you change the location of your additional plug-ins folder, you can always click **Choose** and navigate to it.
- 5 Click **OK**.



Display Plug-Ins

- 1 Click the Help menu, and then click System Info.
- Scroll down the list until you can see the plug-ins.
- 3 Click **OK**.



Selecting Scratch Disks

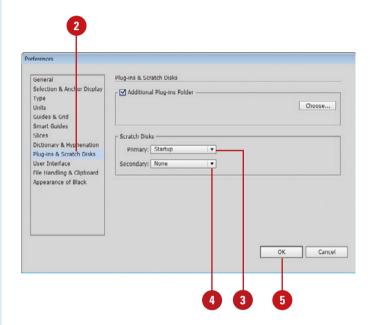
Select Scratch Disks Options

- Click the Edit (Win) or Illustrator (Mac) menu, and then point to Preferences.
- Click Plug-ins & Scratch Disks.
- 3 Click the **Primary** list arrow, and then select a location for use as a virtual memory location for processing.
- 4 Click the **Secondary** list arrow, and then select a location for use as a secondary virtual memory location for processing when needed.

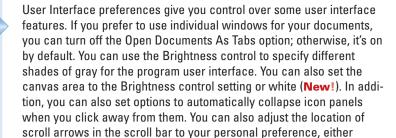
IMPORTANT Illustrator holds scratch disk space as long as the application is open. To delete scratch disk space you must close Illustrator.

5 Click **OK**.

The Scratch Disk preferences are available to help you get the best performance out of your computer by letting you choose one or more hard drives for scratch operations. When your computer doesn't have enough RAM to perform an operation, Illustrator uses free space on any available drive, known as a Scratch Disk. Illustrator runs faster when you divide the Scratch Disk workload. Scratch operations are performed on your hard drive and take place when Illustrator is using one of its many filters and adjustments. Illustrator detects and displays all available disks in Plug-ins & Scratch Disks preferences, where you can select the disks you want to use. By assigning additional hard drives to the task, you speed up Illustrator's overall performance. Scratch Disk changes take effect the next time you start Illustrator.



Setting User Interface Preferences

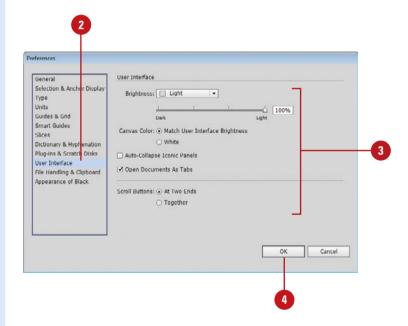


together or at two ends (New!).

Set User Interface Preferences

- Click the Edit (Win) or Illustrator (Mac) menu, and then point to Preferences.
- 2 Click **User Interface**.
- 3 Select from the following Interface options:
 - Brightness. Drag the slider to specify a gray value from Dark to Light for the background of all panels.
 - Canvas Color. Select an option to match the color with the user interface brightness or use white (New!).
 - Auto-Collapse Iconic Panels.
 Automatically collapses icon panels when you click away.
 - Open Documents As Tabs.
 Select to open documents as tabs instead of individual document windows.
 - Scroll Buttons. Select an option to place scroll arrows at two ends or use them together on one side (New!).
- 4 Click **OK**.

Some options don't take effect until you restart Illustrator.



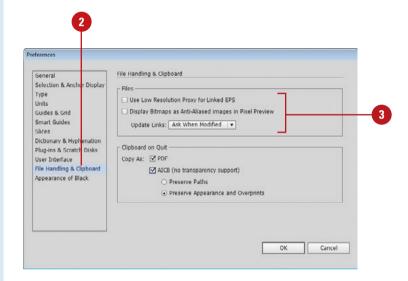
Setting File Handling & Clipboard Preferences

Work with File Handling & Clipboard Preferences

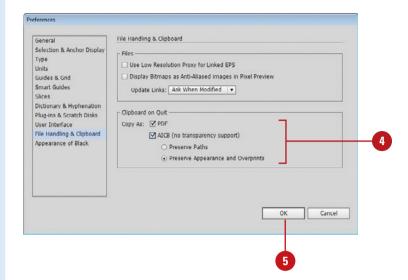
- 1 Click the Edit (Win) or Illustrator (Mac) menu, and then point to Preferences.
- 2 Click File Handling & Clipboard.
- 3 Select from the following Files options:
 - Use Low Resolution Proxy for Linked EPS. Select to display linked images as low-resolution to increase performance.
 - Display Bitmaps as Anti-Aliased Images in Pixel
 Preview. Select to display bitmaps as anti-aliased images in Pixel Preview mode (New!).

With Pixel Preview, you can preview how objects appear when rasterized. Click the View menu, and then click Pixel Preview. Anti-aliasing provides a sharper edge.

 Update Links. Specify how to update linked images: Automatically (no dialog box), Manually (update in the Links panel), or Ask When Modified (use dialog box). In File Handling & Clipboard preferences, you can set file linking and copying to the Clipboard options. You can set file linking options to display linked images as low-resolution to increase performance, set display options to view bitmaps as anti-aliased images in Pixel Preview (New!), and specify how to update the links. In addition, you can set options to specify what format you want to use to copy content to the Clipboard. The available options include PDF and AICB (a PostScript format). For the AICB option, you can also select an option to copy the selection as a set of detailed paths or to preserve the selection's appearance and any overprinting.



- 4 Select from the following Clipboard on Quit options:
 - Copy As PDF. Select to copy a selection to the Clipboard in the PDF file format, which preserves transparency.
 - Copy As AICB (no transparency support). Select to copy a selection to the Clipboard in the AICB file format (a PostScript format). Select an option to copy the selection as a set of detailed paths or to preserve the selection's appearance and any overprinting.
- 5 Click OK.

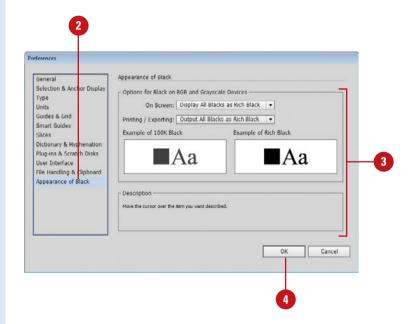


Working with Appearance of Black Preferences

Work with Appearance of Black Preferences

- Click the Edit (Win) or Illustrator (Mac) menu, and then point to Preferences.
- 2 Click Appearance of Black.
- 3 Select from the following Appearance of Black options:
 - On Screen. Select Display All Blacks Accurately to display blacks based on actual CMYK color values or select Display All Blacks as Rich Black to display all blacks as rich blacks (a mix of CMYK values).
 - Printing / Exporting. Select
 Output All Blacks Accurately
 to print blacks using actual
 CMYK color values on RGB and
 grayscale devices, or select
 Output All Blacks as Rich
 Black to print blacks as rich
 blacks (a mix of CMYK values)
 on RGB devices.
- 4 Click **OK**.

If a printer uses a combination of CMYK inks instead of the actual 100K black tone to create a rich black look, you can set options in the Appearance of Black preferences to specify how you want to create the appearance of black in your documents. There are two available options to determine the appearance of black in your document: one for On Screen and another one for Printing/Exporting. Each of the options allows you to specify how you want to work with the appearance of black (true black or rich black) in your documents.

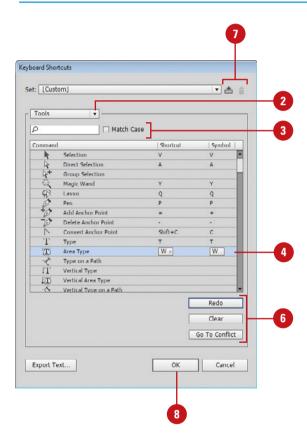


Defining Shortcut Keys

Create a Keyboard Shortcut

- 1 Click the Edit menu, and then click Keyboard Shortcuts.
- 2 Click the list arrow, and then click
 Menu Commands or Tools.
- 3 To search for a command or shortcut, enter a phrase in the Search box (New!). The results appear as you type.
 - Match Case. Select to view exact results (New!).
- Select an item from the list.
- 5 Use the keyboard to create the new shortcut. For example, press Ctrl+N (Win) or @ +N (Mac).
- 6 To work with the shortcut, do any of the following:
 - Undo. Click to undo shortcut.
 - Clear. Click to clear the selected shortcut.
 - Go To Conflict. Click to display the shortcut conflict.
- 7 To work with a keyset file, do any of the following:
 - Save. Click to save the custom keyset file.
 - Delete. Click to delete the selected custom keyset.
- 8 Click **OK**
- 9 Specify a keyset file name, and then click **OK**.

A wise man once wrote "time is money," and Illustrator is a program that can consume a lot of time. That's why the Illustrator application uses keyboard shortcuts. **Keyboard Shortcuts**, as their name implies, let you perform tasks in a shorter period of time. For example, if you want to open a new document in Illustrator, you can click the File menu, and then click New, or you can abandon the mouse and press Ctrl+N (Win) or SH-N (Mac) to use shortcut keys. Using shortcut keys reduces the use of the mouse and speeds up operations. In fact, studies have shown, it can save 1 hour out of every 8 in a work day. Illustrator raises the bar by not only giving you hundreds of possible shortcut keys, which you can search for (New!), but also allowing you to define your own.



Using Drawing Tablets

When you design on a computer, you're leaving the natural world of oil, watercolor, and canvas, for the electronic world of computer monitors and pixels (don't worry, it's a relatively painless transition). Without a doubt, there are many differences between traditional and digital design; however, it's not necessary to abandon all aspects of the natural media world. For example, the computer mouse has always been a problem with designers who miss the feel and control of a brush in their hands. Fortunately, technology came to the rescue years ago, with the invention of the drawing tablet. Drawing tablets combine a drawing surface and a brush-like drawing tool in the form of a pen. A designer picks up the pen and moves it across the drawing tablet surface. In turn, the drawing tablet interprets those movements as brush strokes. Not only does Illustrator fully support

drawing tablet technology, it also interprets the particular drawing style of the designer. For example, pushing harder with the brush against the drawing tablet instructs Illustrator to create a wider stroke, or to apply more color. Drawing tablets have helped to translate the control of working with real art brushes on canvas, into the world of the digital designer. Of all the manufacturers, Wacom stands out as the leader in drawing tablet technology. Wacom returns the feel of designing with a brush to the digital designer's world, and the software required to power the tablet works seamlessly with Illustrator and the Windows or Macintosh operating systems. To check out which tablet might be right for your needs, point your browser to www.wacom.com and check out the available options.



Working Together with Adobe Programs

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Introduction

Adobe programs are designed to work together so you can focus on what you need to do, rather than on how to do it. In fact, the Adobe programs share tools and features for your most common tasks so you can work uninterrupted and move seamlessly from one program to another. Adobe Creative Suite is an integrated collection of programs that work together to help you create designs in print, on the web, or on mobile devices. When you install Adobe Creative Suite or a stand-alone Adobe program, you also get additional Adobe programs and services—Bridge, Camera Raw plug-in, Media Encoder, Extension Manager, and ExtendScript Toolkit—to help you perform specific jobs, such as locating, downloading, and modifying images for projects, managing files and program extensions, testing files for different mobile devices, and creating scripts.

Adobe Bridge is a program that lets you view, open, modify, and manage images located on your computer from any Adobe Creative Suite program. Adobe Bridge is literally the glue that binds Adobe Creative Suite programs together into one cohesive unit with shared tools. Bridge allows you to search, sort, filter, manage, and process image files one at a time or in batches. You can also use Bridge to do the following: create new folders; rename, move, delete and group files; edit metadata; rotate images; create web galleries and contact sheets; and run batch commands. You can also import files from your digital camera and view file information and metadata.

What You'll Do

Explore Adobe Programs

Explore Adobe Bridge

Get Started with Adobe Bridge

Get Photos from a Digital Camera

Work with Raw Images from a Digital Camera

Modify Images in Camera Raw

Work with Images Using Adobe Bridge

Set Preferences in Adobe Bridge

Apply Image Adjustments

Create a Web Photo Gallery

Automate Tasks in Adobe Bridge

Use Mini Bridge

Work with Adobe Media Encoder

Work with Adobe Extension Manager

Script with Adobe ExtendScript Toolkit

Exploring Adobe Programs

Adobe Creative Suite

Adobe Creative Suite is an integrated collection of programs that work together to help you create designs in print, on the web, or on mobile devices. Adobe's Creative Suite comes in different editions with different combinations of Adobe programs. The main programs for print design include InDesign and Acrobat Professional; for graphic design the programs include Photoshop, Illustrator, and Fireworks; for video and sound design the programs include Premiere Professional, After Effects Professional, Encore, and Soundbooth; and for web design the programs include Flash Professional, Dreamweaver, Fireworks, and Contribute.

Working Together with Adobe Programs

When you install Adobe Creative Suite or a stand-alone Adobe program, you also get additional Adobe programs—Bridge, Camera Raw plug-in, Media Encoder, Extension Manager, and ExtendScriptToolkit—to help you perform specific jobs such as managing files and program extensions and testing files for mobile devices.

Adobe Bridge

Adobe Bridge is a file management/batching program that manages and processes images while you work. To use Bridge, click Browse in Bridge on the File menu or the Go to Bridge button on the Applications bar within an Adobe CS product or from the desktop use the Start menu (Win) or the App folder (Mac).

Camera Raw Plug-In

The Camera Raw plug-in—available in Adobe Bridge, Adobe Photoshop, and other Adobe

programs—allows you to open and process with fine control RAW image formats (not processed, also known as digital negatives) produced by digital cameras. Raw image formats are intended to capture as closely as possible the characteristics of the picture. DNG (Digital NeGative) is a raw format developed by Adobe.

Adobe Media Encoder

Adobe Media Encoder allows you to encode and compress video and audio files and convert them to distribution formats: F4V, FLV, H.264, and MP3. You can select a format and preset for systems—such as high-definition (HD), desktops, and the web (Flash, Vimeo, and YouTube)—and devices—such as Apple TV, iPad, iPhone, and Android. The presets include: size, bitrate (data rate), and frames per second (fps) rate.

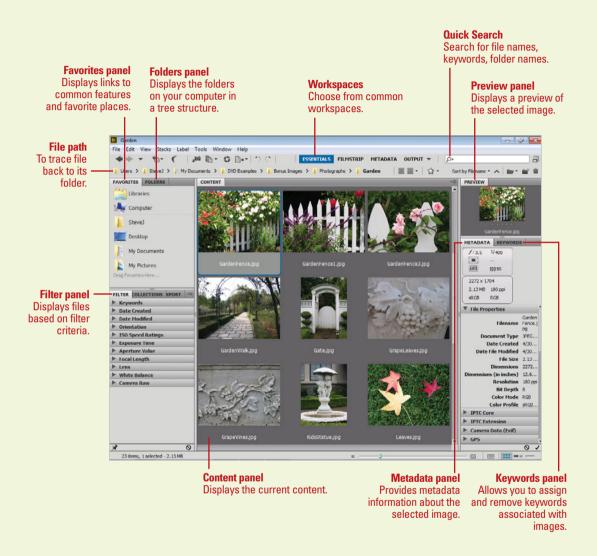
Adobe Extension Manager

Adobe Extension Manager allows you to install and delete added program functionality, known as extensions, to many Adobe programs. The Extension Manager is automatically installed when you install InDesign, Flash Professional, Dreamweaver, or Fireworks. You can use the Extension Manager to access the Adobe Exchange site, where you can locate, research, and download many different types of extensions for use in Adobe programs.

Adobe ExtendScript Toolkit

Adobe ExtendScriptToolkit allows you to create, edit, and debug an extended version of JavaScript, called ExtendScript, to be used for scripting Adobe programs. If you perform the same set of tasks on a regular basis, you can use scripting as a powerful tool to make a lengthy set of tasks simple.

Exploring Adobe Bridge

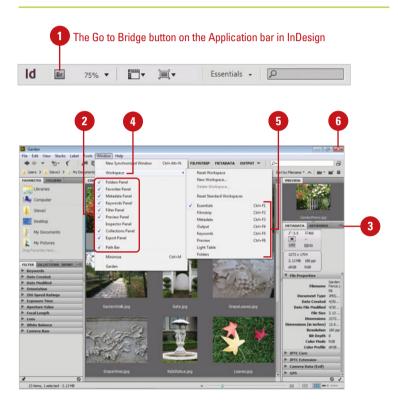


Getting Started with Adobe Bridge

Get Started with Adobe Bridge

- 1 Launch your Adobe product, click the **File** menu, and then click **Browse in Bridge**.
 - You can also click the Go to Bridge button on the Application bar (if available). Ctrl (Win) or ☐ (Mac)+ click for a maximized view, Alt (Win) or Option (Mac)+click to open a new Bridge window, or Shift+click to open Mini Bridge.
 - You can also start Adobe Bridge from the Start menu (Win) or the Applications folder (Mac).
- To open and close a panel, click the Window menu, and then click the panel name you want.
- To move a panel, drag the panel tab you want to another location in the Bridge window.
- To save a workspace, click the Window menu, point to Workspace, click New Workspace, type a name, and then click OK.
- 5 To display a workspace, click the Window menu, point to Workspace, and then click the workspace you want.
- 6 When you're done, click the **Close** button in the Bridge window.

Adobe Bridge CS6 (New!) is a stand-alone program that lets you view, open, and manage images located on your computer from any Adobe Creative Suite program. Adobe Bridge is literally the glue that binds Adobe Creative Suite programs and shared tools together into one cohesive unit. The Bridge program provides a set of panels that make it easy to find, view, and manage the files on your computer or network. As you work with Bridge, you'll open, close, and move (dock and undock) the panels to meet your individual needs. After you customize the workspace, you can save the location of the panels as a custom workspace, which you can display using the Workspace command on the Window menu. Bridge also provides some predefined workspaces.

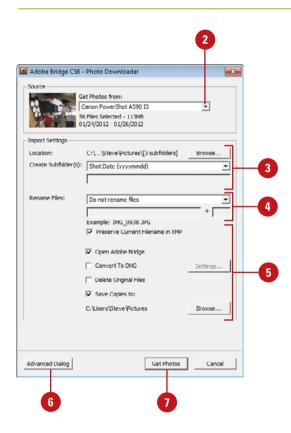


Getting Photos from a Digital Camera

Import Raw and Other Files from a Camera

- 1 In Adobe Bridge, click the File menu, and then click Get Photos from Camera or click the camera icon on the Application bar.
- Click the Get Photos From list arrow, and then select the source camera or memory card.
- 3 Click the **Browse** button to select a folder location, and then create a new subfolder to store the images (optional).
- To rename the files, select a method, and then enter file name text.
- Select the options you want:
 - Preserve Current Filename in XMP. Select to save the current filename as image metadata.
 - Open Adobe Bridge. Select to open and display the files in Adobe Bridge.
 - Convert To DNG. Select to convert Camera Raw files to DNG. Click Settings to set DNG conversion options.
 - Delete Original Files. Select to delete original files from camera or memory card.
 - Save Copies To. Select to save copies to another folder for backup.
- To apply metadata to the files, click **Advanced Dialog**.
- Click Get Photos.

If you have raw or other images from your digital camera, you can use the Get Photos from Camera command in Adobe Bridge to retrieve and copy them to your computer. This allows you to specify where you want to store the files, rename them if you want, preserve metadata, or convert them to the DNG format. When you convert raw files to the DNG format, you specify preview size, compression, and whether to preserve the raw image data or embed the original raw file.

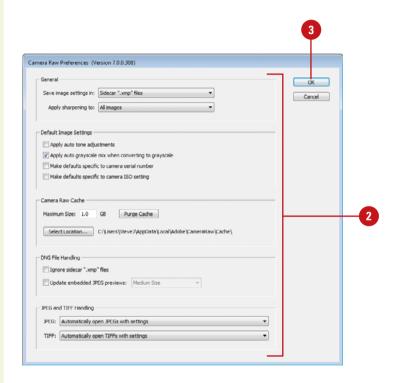


Working with Raw Images from a Digital Camera

Set Camera Raw Preferences

- 1 In Adobe Bridge, click the Edit (Win) or Adobe Bridge (Mac) menu, and then click Camera Raw Preferences.
 - In the Camera Raw dialog box, you can also click the Open
 Preferences Dialog button on the toolbar to access camera raw preferences.
- 2 Select the preferences you want:
 - General. Specify where Camera Raw file settings are stored. Use Sidecar XMP files to store settings separately, or Camera Raw Database to store settings in a searchable database.
 - Default Image Settings. Select options to automatically apply settings or set defaults.
 - Camera Raw Cache. Set a cache size to shorten loading time for thumbnails and previews.
 - DNG File Handling. Select options to ignore XMP files or update embedded content.
 - JPEG and TIFF Handling.
 Automatically open JPEGs and/or TIFFs in Camera Raw.
- 3 Click OK.

Raw image file formats are created by most mid- to high-end digital cameras and contain information about how the image was taken. The raw format turns off all camera adjustments, and simply saves the image information. Using the raw format is as close to using traditional film as a digital camera can get. Raw images are larger; however, the increase in file size gives you more information that can be used by Camera Raw to adjust the image. Camera Raw version 7 (New!) is installed along with an Adobe CS program as a plug-in. It supports more than 400 cameras. Before you get started with Camera Raw, you can set preferences to apply default image options and specify how you want to open and work with work with DNG (Digital Negative), JPEG, and TIFF images.



Work with Images in Camera Raw

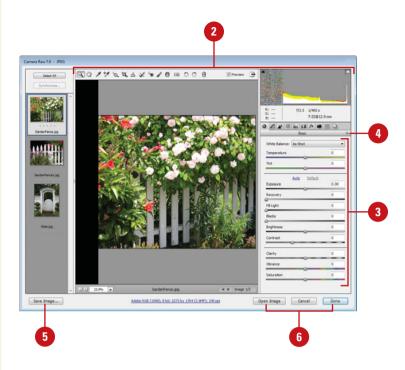
- 1 In Adobe Bridge, select the images (camera raw, TIFF or JPEG), right-click the selection, and then click Open in Camera Raw.
 - In Photoshop, you can use the Open dialog box to open a file in Camera Raw.

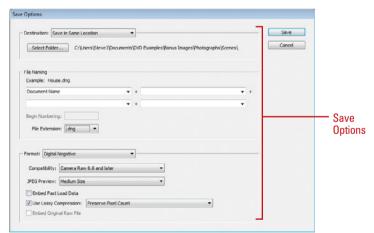
The Camera Raw dialog box opens.

- Click any of the tools to modify or enhance the image, and select the Preview check box to see all changes that have been made.
- 3 Click any of the tabs to modify or enhance the image.

The Basics tab is easier to use with all sliders having a starting point in the middle (**New!**).

- 4 Click the Camera Raw Menu button to Load, Save, or Apply a specific set of Raw settings.
 - You can use the Presets tab to apply, create, or delete presets.
- 5 Click Save Image(s) to specify a folder destination, file name, and format for the processed images.
- When you're done, click **Done** to process the file, but not open it, or click **Open Image(s)** to process and open it in Photoshop. Hold Alt (Win) or Option (Mac) to use **Open Copy** or **Reset**.





Modifying Images in Camera Raw

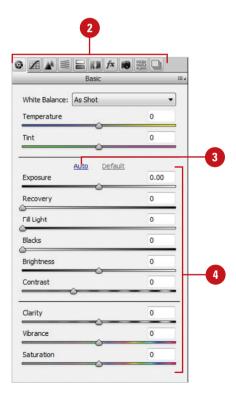
Modify Images in Camera Raw

- 1 In Adobe Bridge, select the images, right-click the selection, and then click **Open in Camera Raw**.
 - In Photoshop, you can use the Open dialog box to open a file in Camera Raw.

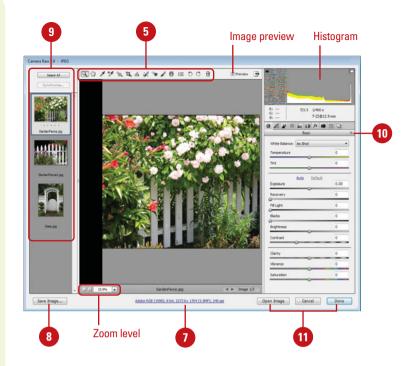
The Camera Raw dialog box opens.

- Click any of the tabs—Basic, Tone Curve, Detail (Sharpen & Noise Reduction), HSL / Grayscale, Split Toning, Lens Corrections, Effects, Camera Calibration, Presets, or Snapshots—to change the options you want.
- 3 To automatically make tonal adjustments, click **Auto** on the Basic tab.
- 4 Use sliders or enter values to make any other manual adjustments.
 - Basic. Use sliders for Temperature, Tint, Exposure, Contrast, Highlights (New!), Shadows (New!), Whites (New!), Blacks (New!), Clarity, Vibrance, and Saturation.

From Adobe Bridge, you can use Camera Raw version 7 (New!) to open raw files (extensions differ based on the digital camera), JPEG, and TIFF files to make image touch-ups and enhancements. For example, you can have a poorly take image, and then use the Basic settings to automatically or manually enhance image exposure, contrast, highlights, shadows, clarity, and vibrance. If you're not sure what to do, you can click Auto to have Camera Raw do it or drag sliders to adjust options manually. You can adjust color tones (Hue, Saturation, and Luminance or grayscale), reduce luminance and color noise, add grain, add sharpening, correct for lens defects, add post-crop vignetting and effects, and retouch images with the Heal, Clone and Red Eve tools. In addition, raw images can be converted into 16-bit mode, which provides more control over adjustments such as tonal and color correction. Once processed, raw images can be saved in the DNG (Digital Negative), TIFF, PSD, or JPEG formats. After you make Camera Raw adjustments, you can save the settings so you can use them later. All changes made to raw images are non-destructive, meaning only the metadata is changed to make different versions, leaving the original data unchanged.



- Use tools to modify the image:
 - Use the Zoom, Hand, Rotate, Crop, and Straighten tools to change the size, orientation, and position of the image.
 - Use the White Balance tool to set the image white balance or the Color Sampler tool to sample a color from the image.
 - Use the Spot Removal or Red Eye Removal tool to fix the image.
 - Use the Adjustment Brush, Gradient Filter (New!), or Targeted Adjustment tool to make adjustments to exposure, brightness, contrast, saturation, clarity, sharpness, and color.
- 6 Use options to view the image:
 - Preview. Select to display the image with all changes that have been made.
 - Zoom Level. Changes to the level of image magnification can be made here.
- 7 Click the file name to change the (color) Space, (bit) Depth, Size, and Resolution of the image.
- Click Save Image(s) to specify a folder destination, file name, and format for the processed images.
- Select the images you want to synchronize (apply settings) in the Filmstrip (if desired, click Select All), and then click Synchronize.
- 10 Click the Camera Raw Menu button to Load, Save, or Apply a specific set of Raw settings.
 - You can use the Presets tab to apply, create, or delete presets.
- When you're done, click **Done** to process the file, but not open it, or click **Open Image(s)** to process and open it in Photoshop. Hold Alt (Win) or Option (Mac) to use **Open Copy** or **Reset**.



For Your Information

What is the DNG File Format?

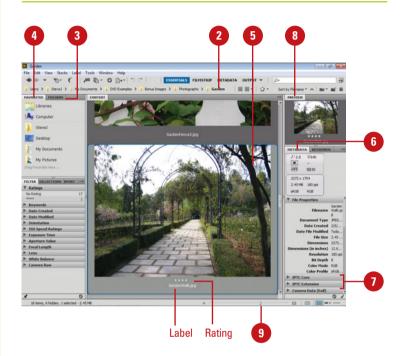
The DNG, or Digital Negative, format is an openly published raw file format from Adobe that stores "raw" pixel data captured by digital cameras before it has been converted to another format, such as TIFF or JPEG. In addition, it captures standard 'EXIF' metadata, such as date, time, camera used, and camera settings. Saving raw files in the DNG format provides several advantages. DNG files are smaller than uncompressed TIFFs, and they do not have the artifacts of compressed JPEGs. Many key camera parameters, such as white balance, can be modified even after the image is captured. You have access to 16-bit data for greater detail and fidelity, and the added flexibility of converting a single file using multiple conversion settings. When you convert raw images into the DNG format, you are using a format that is openly published by Adobe and usable by other software and hardware vendors, which makes it a safe format for the long-term storage and archiving of digital images. The raw format used by digital cameras is proprietary to the specific camera (e.g., NEF for Nikon, CR2 for Canon, RAF for Fuii), so the format might not be supported once that camera and its proprietary software is obsolete, which means at some point in the future, you might not be able to open any of your archived raw images. The DNG format solves that problem. To get a free copy of the DNG converter, go to www.adobe.com and then search for DNG converter.

Working with Images Using Adobe Bridge

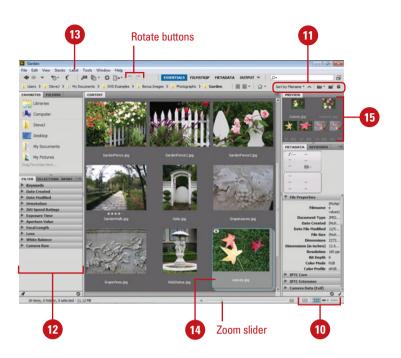
Work with Images Using Bridge

- 1 Launch your Adobe product, click the File menu, and then click Browse in Bridge, or click the Launch Bridge button (if available).
- 2 Click the **Folder** path, and then select a folder.
- 3 Click the **Folders** tab and choose a folder from the scrolling list.
- Click the Favorites tab to choose from a listing of user-defined items, such as Pictures.
- 5 Click an image within the preview window to select it.
- 6 Click the **Metadata** tab to view image information, including date and time the image was shot, and aperture, shutter speed, and f-stop.
- 7 Click the IPTC Core or IPTC
 Extension arrow to add userdefined metadata, such as creator
 and copyright information, or
 captions.
- 8 Click the **Preview** tab to view a larger thumbnail of the selected image. Multiple images appear when you select them.
 - Click the image in the Preview tab to display a Loupe tool for zooming. Drag magnified box to change positions. Click it to deactivate the tool.
- 9 Drag the **Zoom** slider to increase or decrease the thumbnail views.

With Adobe Bridge, you can drag assets into your layouts as needed, preview them, and add metadata to them. Bridge allows you to search, sort, filter, manage, and process image files one at a time or in batches. You can also use Bridge to create new folders; rename, move, delete and group files (known as stacking); edit metadata; rotate images; and run batch commands. You can also view information about files and data imported from your digital camera.



- 10 Click the preview buttons to select a different view of the workspace you have chosen. If you want to view your images in filmstrip or metadata focus mode, choose that workspace from the Window menu.
 - View Content as Thumbnails.
 Default view. Displays the images as thumbnails with the file name underneath.
 - View Content as Details.
 Displays a thumbnail of each image with selected details about the image such as date created, document type, resolution.
 - View Content as List. Displays a small thumbnail of each image with metadata information details, such as date created and file size.
- Use the file management buttons to sort, open or delete images, or create a new folder.
- 12 To narrow down the list of images using a filter, click the criteria you want to use in the Filter panel.
- To add a label or rating to images, select the ones you want, click the **Label** menu, and then select the label or rating you want.
- To group related images as a stacked group, select the images, click the **Stacks** menu, and then click **Group as Stack**.
 - Use the Stacks menu to ungroup, open, expand, or collapse stacks.
- Double-click on a thumbnail to open it in the default program, or drag the thumbnail from Bridge into an open Adobe application.



For Your Information

What is Metadata?

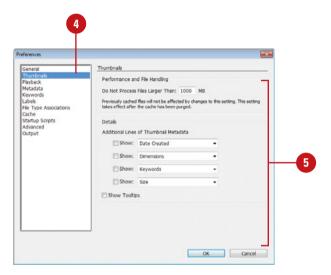
Metadata is information about an image file, such as its author, copyright, creation date, size, version, color space, resolution, and searchable keywords. This data is stored in the file or in a separate file known as a **sidecar file**, using a standard format called **Extensible Metadata Platform (XMP)**. Bridge uses XMP files to help you organize and search for files on your computer. Metadata is also stored in other formats, such as EXIF (digital camera data), IPTC (photographer and image data), GPS (global positioning system data), and TIFF, which are all synchronized with XMP.

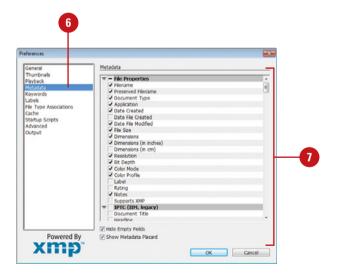
Setting Preferences in Adobe Bridge

Set Bridge Preferences

- 1 In Adobe Bridge, click the Edit (Win) or Bridge (Mac) menu, and then click Preferences.
- Click the General category.
- 3 Select the appearance, behavior, and Favorite Items you want.
 - Appearance. Select options for color theme (New!), user interface brightness, image backdrop, and accent color.
 - Favorite Items. Select the items vou want to access and use.
- 4 Click the **Thumbnails** category.
- 5 Specify the performance and details options you want:
 - Performance and File Handling.
 Choose the maximum size of file to be processed (default: 1000 MB).
 - Details. Select the metadata details you want to show with the thumbnail.
- 6 Click the **Metadata** category.
- Select the check boxes with the metadata you want and clear the ones you don't want.
- 8 Click the Labels category.
- 9 Enter names for labels you want to be associated with a specific color.

Adobe Bridge allows you to set preferences to customize the way you work. The Preferences dialog box is organized into categories—including General, Thumbnails, Playback, Metadata, Keywords, Labels, File Type Associations, Cache, Startup Scripts, Advanced, and Output. You can set specific options within these categories to suit your particular needs. For example, you can choose to display more metadata information with thumbnails, such as dimensions, size, keywords, color mode, label, etc. In addition, you can change the user interface with a color theme (New!), brightness, backdrop, and accent color.

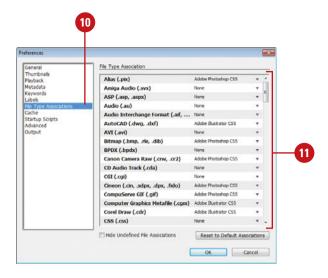


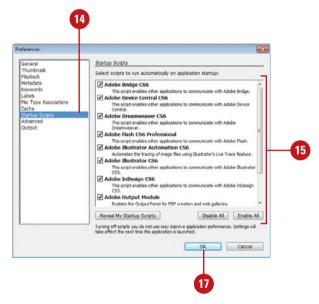


10 Click the File Type Associations category.

The left column displays the file type and the right column displays the current program that will open the file by default.

- To change the default program, click the list arrow next to the file type, and then select a program or choose Browse to locate another application you would like to use.
- 12 Click the Cache category.
- 13 Choose where to store the cache, choose a cache size, and optimize or purge the cache from here.
- 14 Click the Startup Scripts category.
- Select the check boxes with the programs you want to enable and clear the ones you want to disable.
- Click the **Advanced** category, and specify whether to use software rendering and monitor-size previews, and then choose the language and keyboard options you want. You can also choose to have Bridge start automatically at login.
- 17 Click OK.





Applying Image Adjustments

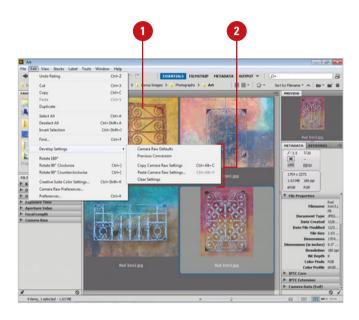
Modify Images in Adobe Bridge

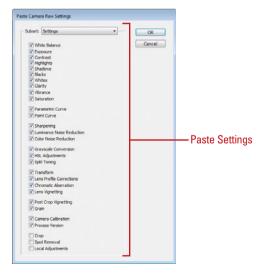
- 1 In Adobe Bridge, display and select the images that you want to adjust.
- 2 Use any of the following methods to modify an image:
 - Apply a Preset Adjustment.
 Click the Edit menu, point to
 Develop Settings, and then select a preset adjustment.
 - Copy and Paste Settings. Click the Edit menu, point to Develop Settings, and then click Copy Settings. Select the image(s) to which you want to apply the settings. Click the Edit menu, point to Develop Settings, and then click Paste Settings. Select the options to apply, and then click OK.
 - Apply the Most Recent Adjustment. Click the Edit menu, point to Develop Settings, and then click Previous Conversion.

Did You Know?

You can use Photoshop automation commands in Adobe Bridge. You can use the Batch or Image Processor commands on the Tools menu under Photoshop in Bridge to automate the processing of your camera's raw files.

Adobe Bridge makes it easy to make adjustments to one image in Camera Raw and then apply those adjustments to other images directly from Bridge without going back into Camera Raw. For instance, you may be correcting the white balance for an image and have many other images that were shot at the same time, under the same lighting conditions. You can use the initial settings to correct the rest of your images right from Bridge. You can also make a preset from your favorite adjustments, which will then be available as a develop setting within Bridge.



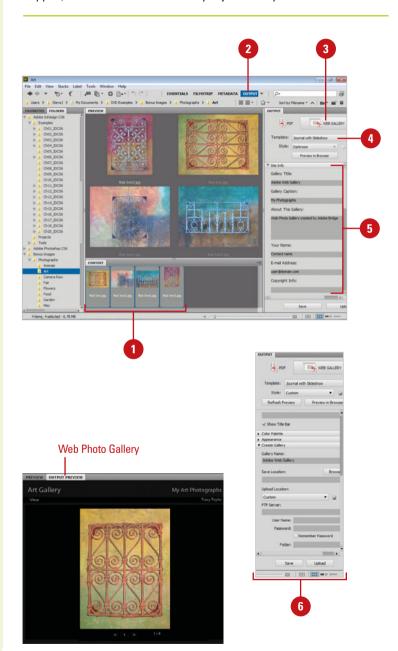


Creating a Web Photo Gallery

Create a Web Photo Gallery in Adobe Bridge

- 1 In Adobe Bridge, select the images that you want to use for the photo gallery.
- Click the Workspace menu, and then click Output.
- 3 Click the Web Gallery button.
- 4 Click the **Template** list arrow, and then select a template.
 - Click the Refresh Preview button to view your template choices or click the Preview in Browser button to see how it would look on the web.
- 5 Use the following panels to customize the Web gallery:
 - Site Info. Provide descriptive information about the Web Photo gallery.
 - Color Palette. Select custom colors for screen elements.
 - Appearance. Specify options to show file names, a preview and thumbnail size, slide duration, and a transition effect.
- 6 In the Create Gallery panel, enter a gallery name, and then select a creation option:
 - Save to Disk. Click Browse to specify a location, and then click Save.
 - Upload. Specify the FTP server location, user name, password, a folder, and then click Upload.

Adobe Bridge takes the drudgery out of creating a Web Photo Gallery (thumbnail images on web pages). The pages generated with this command display small thumbnails of a group of images—when you click on an image, a larger version is displayed within another window or section of the page. If your goal is to show the world your photographs, but you don't want to write all the HTML code involved in making that happen, then the Web Photo Gallery is just what you need.

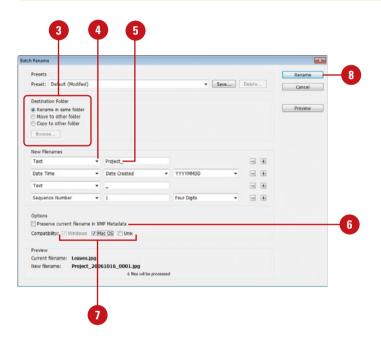


Automating Tasks in Adobe Bridge

Rename Files Automatically in Adobe Bridge

- 1 In Adobe Bridge, select the files or folders you want to use.
- 2 Click the **Tools** menu, and then click **Batch Rename**.
- 3 Select the Destination Folder option you want: Rename in same folder, Move to other folder, or Copy to other folder, and then click Browse to specify a new folder location.
- 4 Click the **Element** drop-down, and then select options to specify how you want to name the files:
 - Text, New Extension, Current Filename, Preserved Filename, Sequence Number, Sequence Letter, Date/Time, Metadata, or Folder Name.
- 5 Enter the text you want to use in conjunction with the Element selection to name the files.
- Select the Preserve Current File Name In XMP Metadata check box to retain the original filename in the metadata.
- Select the check boxes for the operating systems with which you want the renamed files to be compatible.
- 8 Click Rename.

The Tools menu provides commands you can use to automate tasks in Bridge. For example, you can automate the process of renaming a group of files using the Batch Rename command. If you use Photoshop, or InDesign, you can use commands on submenus to run automated tasks, such as processing raw images with Photoshop, or you can create a contact sheet of images in InDesign. You can also use the Tools menu to start other Adobe programs as well as create and edit Metadata templates, which you can use to append or replace metadata in InDesign or other XMP-enabled programs.



Using Mini Bridge

Use Mini Bridge

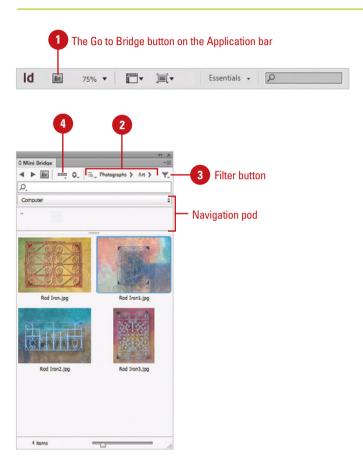
- 1 Launch your Adobe product, and then start Mini Bridge:
 - Photoshop. Click the File menu, and then click Browse in Mini Bridge or click the Window menu, point to Extensions, and then click Mini Bridge.
 - InDesign/InCopy. Shift+click the Go to Bridge button on the Application bar.

If prompted, click Launch Bridge.

Mini Bridge opens in the panel.

- 2 Use the Path or **Path** button and the Navigation pod to locate the graphics you want to view.
- 3 Use the buttons (View, Sort, and Filter) on the Tool bar to show, select, sort, and filter files.
- 4 To preview files, click the **View** button, and then click an option:
 - Slideshow. Displays a slide show of the viewed files.
 - Review Mode. Displays a full screen preview of the viewed files.
 - Full Screen Preview. Displays a full screen preview. You can also press the Spacebar.

Adobe Mini Bridge is a condensed version of Adobe Bridge available in a panel within an Adobe CS program (Photoshop, InDesign, and InCopy). Mini Bridge allows you to directly access graphics within a CS program, where you can drag and drop them in a document. Within Mini Bridge, you can navigate to different locations on your computer, search, sort, filter, and preview content as well as access Adobe Bridge. In Photoshop, the Mini Bridge panel appears in film strip mode (New!), like in Lightroom.



Working with Adobe Media Encoder

Convert Media Files Using Presets

- 1 Start Adobe Media Encoder from the All Programs menu (Win) or the Applications folder (Mac).
- 2 Click the **Add Source** button (+), select the media files you want to convert, and then click **Open**.
- 3 Select each media file, click the Format list arrow, and then select a conversion file format. Click the Preset list arrow, and then select a predefined setting.
- 4 To use the Preset Browser, select the media file, select a preset, and then click **Apply Preset** (New!).

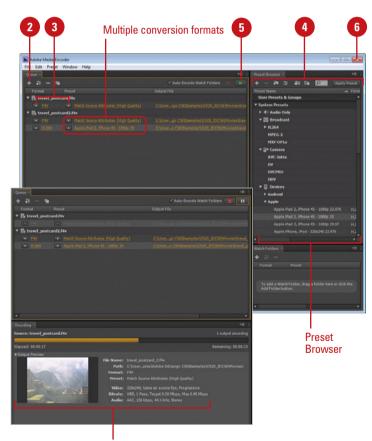
This adds a copy of the selected file with the preset applied.

- Presets. Use toolbar buttons to create, delete, group, view settings, import, and export presets (New!).
- 5 Click the Start Queue button.

The media files are converted to the new media format and placed in the same folder as the original.

6 When you're done, click the **Close** button to exit the program.

Adobe Media Encoder CS6 (New!) is a program you can use to encode and compress video and audio files and convert them to a variety of distribution formats: F4V, FLV, H.264, and MP3. With the Preset Browser (New!), you can select a format and preset for systems—such as highdefinition (HD), desktops and the web (Flash, Vimeo, and YouTube)—and devices—such as Apple TV, iPad, iPhone, and Android. The presets include: size, bitrate (data rate), and frames per second (fps) rate. When you export a movie for playback on a specific type of device at a certain bandwidth, you select an encoder (codec). Each encoder has a corresponding decoder that decompresses and interprets the data for playback. You can batch process multiple media files to expedite the workflow process. For example, you can add, reorder, and change the encoding settings of files in the batch processing queue while Media Encoder encodes other files. You can also use the Watch folder to help you automate the process. It's a folder you add to the Watch folder list that automatically encodes any files you place in it.



Encoding information and progress

Convert Media Files Using Custom Settings

- 1 Start Adobe Media Encoder from the All Programs menu (Win) or the Applications folder (Mac).
- Click the Add Source button (+), select the media files you want to convert, and then click Open.

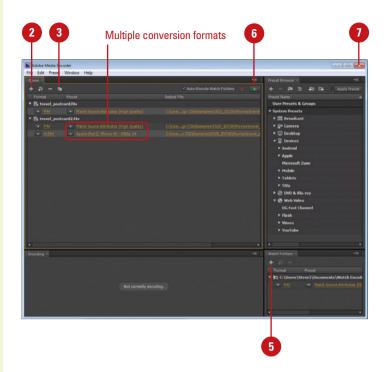
TIMESAVER You can drag one or more files from the desktop or file window directly into the queue.

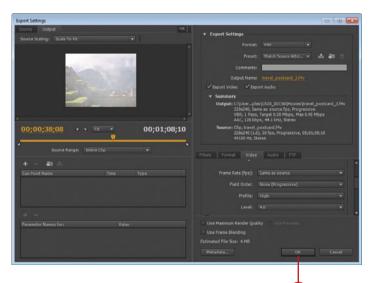
- 3 To create a duplicate copy of a media file to set different settings, select the media file, and then click the **Duplicate** button.
- To apply custom export settings, select the media file, click the **Edit** menu, click **Export Settings**, specify the settings you want, and then click **OK**.
- 5 To use a watch folder, click the **Add**Folder button (+), select the folder
 you want to use, and then click **OK**.
 - Select each folder, click the Format list arrow, and then select a conversion file format. Click the Preset list arrow, and then select a predefined setting.

TIMESAVER You can drag one or more folders from the desktop or file window directly into the queue.

- 6 Click the **Start Queue** button.

 The media files are converted to the new media format and placed in the same folder as the original.
- When you're done, click the **Close** button to exit the program.





Working with Adobe Extension Manager

Install and Use an Extension

1 Start Adobe Extension Manager from the Start menu (Win) or the Applications folder (Mac).

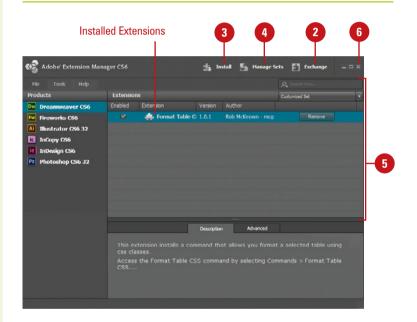
TIMESAVER In Flash, Dreamweaver, InDesign, or Fireworks, click the Help menu, and then click Manage Extensions.

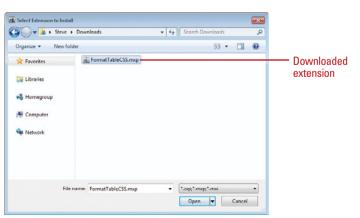
- To locate an extension, click

 Exchange to access the Exchange
 web site, download an extension,
 and then save it.
- To install an extension, click **Install**, locate and select the extension (.zxp or .mxp), and then click **Open**.
- To create, edit, activate, import, and export extension sets, click

 Manage Sets (New!).
- 5 Perform any of the following:
 - Search. Select a filter from the down arrow, and then enter search name (New!).
 - Extension Set. Click the down arrow to select a set (New!).
 - Sort. Click a column heading.
 - Enable or Disable. Select or deselect the Enabled check box.
 - Remove. Select the extension, and then click Remove.
- When you're done, click the Close button.

Adobe Extension Manager CS6 (New!) is a program you can use to install and delete added program functionality, known as extensions, to many Adobe programs. The Extension Manager is automatically installed when you install Flash, Dreamweaver, InDesign, or Fireworks. You can use the Extension Manager to access the Adobe Exchange site, where you can locate, research, and download many different types of extensions with the ZXP or MXP (for compatibility) file format. ZXP is an Adobe Zip Format Extension Package file. Some are free and some are not. After you download an extension, you can use Extension Manager to install it for all users or only the current user. In Extension Manager, you can search and filter (New!), enable, disable, and remove extensions. You can also create, edit, activate, import, and export extension sets for better management (New!).



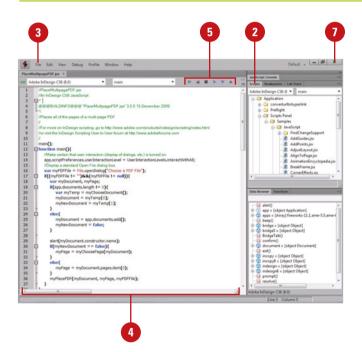


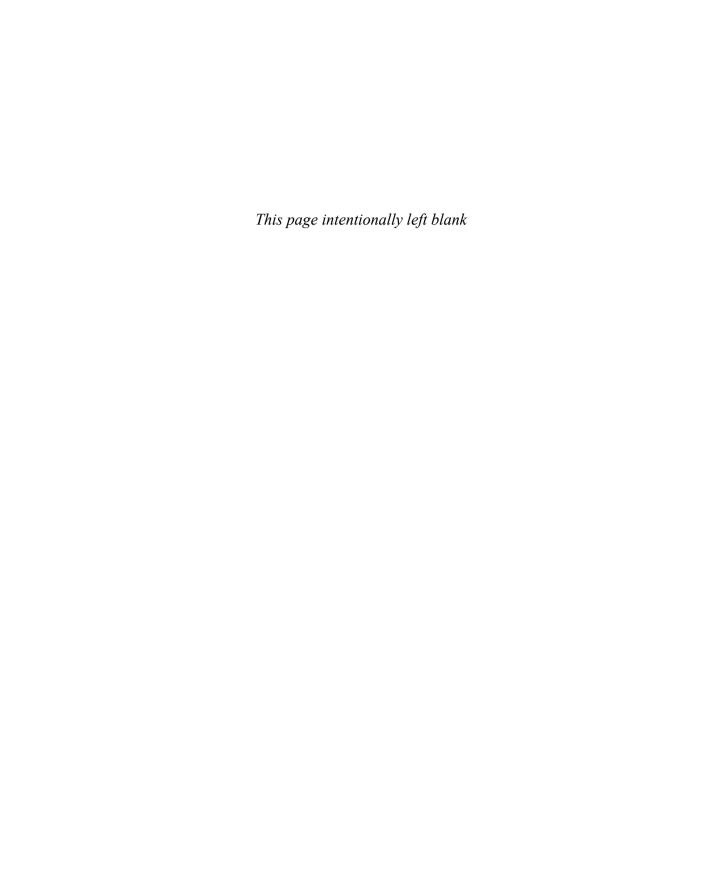
Scripting with Adobe ExtendScript Toolkit

Adobe ExtendScript Toolkit CS6 (New!) is a program you can use to create and test scripts to control and automate features in many Adobe Create Suite programs. If you perform the same set of tasks on a regular basis, you can use scripting as a powerful tool to make a lengthy set of tasks simple. A script is a series of statements in a language—an extended version of JavaScript, called ExtendScript—that tells a program what to do. For example, you can write a script to open an image in Photoshop, make some enhancements, and then insert the image into an InDesign document. If you're new to scripting, take a look at the Adobe Intro To Scripting document, which you can open from the Help menu. You can also use the Scripts panel to access favorite and sample scripts by target program. You can open the script, modify it, save it, and run it within the target program. Another option is the search the web for ExtendScript sample scripts. ExtendScript programs and scripts end with the extension JSX. A normal JavaScript file ends with the extension JS.

Use ExtendScript Toolkit to Work with Scripts

- 1 Start Adobe ExtendScript Toolkit from the All Programs menu (Win) or the Applications folder (Mac).
- 2 To use a built-in script, select the Scripts panel, select a target program, and then navigate to a script, and then double-click it to open it.
- To start a new script, click the File menu, and then click New JavaScript.
- 4 Enter or edit the script in the Document window.
- 5 To start, stop, pause, or step through the script, click the buttons on the Document window toolbar.
 - You can also use commands on the Debug menu.
- 6 Click the **File** menu, and then click **Save**. If a new script, enter a name, specify a location, and then click **Save**.
- When you're done, click the Close button to exit the program.





New! Features

N

Adobe Illustrator CS6

Adobe Illustrator CS6 means superior results faster, with new features and enhancements that help you create and manage your images more easily and efficiently. The indispensable new and improved features help graphic web designers, photographers, and video professionals create the highest quality images, with the control, flexibility, and capabilities that you expect from the professional standard in desktop digital imaging.

Each new release of Illustrator brings with it new features, improvements, and added sophistication. This edition is aimed at the web designer, interactive media professional, or subject matter expert developing multimedia content, and the application developer.

Only New Features

If you're already familiar with Illustrator CS5, you can access and download all the tasks in this book with Adobe Illustrator CS6 New Features to help make your transition to the new version simple and smooth. The Illustrator CS6 New Features as well as other Illustrator CS5 to Illustrator CS6 transition helpers are available on the web at www.perspection.com.

What's New

If you're searching for what's new in Illustrator CS6, 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 CS6. The following is a brief description of each new feature and its location in this book.

Illustrator CS6

• 64-bit now available (p. 2-3, 5) All features have been enabled to work in 64-bit to provide faster processing, quicker application of effects, and a smoother workflow. 32-bit plug-ins don't work in the 64-bit version of Illustrator. Windows users can choose between the 32-bit and 64-bit versions, while Mac users use the 64-bit version exclusively.

- User Interface redesigned (p. 6-7, 465-466) The user interface has been redesigned with the ability to choose a different interface color by selecting from a range of tonal values between light and dark themes. Four presets are available with custom values as an option. You can also choose to use white for a canvas color or to match the canvas color to the interface brightness, and adjust the location of scroll arrows.
- Dialog Box redesign (p. 6-7) Dialog boxes use the interface color. Commit buttons, such as OK, Cancel, etc., are at the bottom-right corner in all modal dialog boxes. In addition, you have full keyboard access in all dialog boxes.
- Panels redesign (p. 8-11) There are new icon designs for all panels, giving the program a completely new look. There is a Resize bar at the bottom of some panels to make it easier to resize them.
- Control panel redesign (p. 13) The Control Panel icons have been reorganized and de-cluttered. For consistency, most controls now appear in the same place on the panel as you change from one object type to another.
- Open Adobe Idea File (p. 14-15) Adobe Illustrator CS6 comes with the Adobe Creative Cloud desktop plug-in, which you can open and edit files (.IDEA) created in your Adobe Touch Apps.
- Saving legacy documents (p. 26-27) When you save a document created in an earlier version of Illustrator, known as a legacy format, you get a dialog box, asking if you want to continue.
- Document Profile changes (p. 31) The Basic CMYK profile has been removed. The Web profile has new sizes: 960 x 560 pixels and 1280 x 800 pixels. The Mobile and Devices profile has been replaced with the Devices profile, which provides templates for the iPad, iPhone, Xoom, Fire/Nook tablets, and Galaxy S phones. The Flash Catalyst profile has been changed to use Flash Builder.
- New Document Setup Preset (p. 34-35) For Complex Art is a new Document Setup preset available with the High, Medium, Low, and Custom options.
- Artboard display buttons (p. 38-39) You can access artboard buttons on the Control panel, instead of using list arrows.
- Workspaces (p. 60-61) The Workspaces menu adds built-in workspaces for Layout and Tracing, which goes along with the Image Trace feature.
- ◆ Maximum size for Rounded Rectangle (p. 68) The maximum value for the Rounded Rectangle shape is 16,383 points.
- Scale Strokes & Effects option (p. 98-99, 102-103) The check box option has been added to the Transform panel and the Transform and Transform Each dialog box. The option is still available on the Options menu.
- Transform options (p. 102-103) Check box options for Transform Objects and Transform Patterns have been added to the Transform and Transform Each dialog boxes. Select options to transform only objects or the object's pattern.
- Fill and Stroke Color options (p. 113) The Default Fill and Stroke and Swap Fill and Stroke icons are available on the Color panel.
- Inline name editing (p. 116-117, 202, 214-215, 336, 338) You can edit the names of layers, swatches, symbols and other content directly in panels. Double-click the item name in a list view to select and edit the name in the panel.

- Color groups (p. 118-119) You can use colors in selected artwork to create a color group.
- Vonster patterns and styles (p. 120, 273) Swatch Libraries and Graphic Styles Libraries include Vonster patterns and styles designed by artist Von Glitschka.
- Pattern creation (p. 146--148) With the Pattern Options panel, you create, edit, and save pattern designs. In Pattern Editing mode (within the Pattern Options panel), you can create and edit patterns interactively and view your changes on the artboard as you design.
- Anti-alias rasters (p. 158) The anti-alias option has been added to the Flatten Transparency dialog box.
- Gradient on stroke (p. 160-161) You can apply a gradient directly to a stroke
 without needing to expand the stroke and then fill it with a gradient. You have
 three types of gradient strokes: Within Stroke (gradient fills the stroke), Along
 (gradient follows path), and Across (gradient crosses path).
- Locate Object (p. 200, 217) The Layers panel button allows you to jump to the layer on which your selected object is located. The option is still available on the Options menu.
- Formatting type (p. 244) The Character panel includes formatting options: All Caps, Small Caps, Superscript, and Subscript. The formatting options are still available on the Options menu.
- Image Trace (p. 268-271, 307, 368) Live Trace has been replaced with Image Trace. This upgraded tracing tool produces tracings with less paths and anchor points, as well as better color recognition than Live Trace. Use the Image Trace panel options to choose from new presets and make modifications. You can also use the ImageTracing script to perform batch processing.
- Gaussian Blur (p. 298-299) The Gaussian Blur filter has been upgraded with a live preview and better performance. Older versions of the blur filter effect are titled "Legacy Gaussian Blur" in the Appearance panel. If you edit the effect, it's converted to the new filter version.
- For Complex Art print option (p. 394) The print option is available as a preset for printing artwork with complex shapes and lines.
- Preserve artboards with SVG (p. 416-417) When you save a document as a SVG, you can preserve artboards within the file.
- Save Slices (p. 443, 449) In the Save for Web dialog box, you can specify the slices you want to save.
- Browser Dither (p. 451) In the Save for Web dialog box, you can select the Browser Dither option to view how a browser dithers your image.
- Slices preferences (p. 461) In the Slices Preferences dialog box, you can select a custom color from a Color box.
- Dictionary preferences (p. 462) In the Dictionary & Hyphenation Preferences dialog box, you can select an option to update legacy documents to the new dictionary.
- File preferences (p. 466) In the File Handling & Clipboard Preferences dialog box, you can select an option to display bitmaps as anti-aliased images in pixel preview.

- Keyboard shortcuts (p. 469) In the Keyboard Shortcuts dialog box, you can search for a command or shortcut.
- Adobe Bridge (p. 474, 482-483) Adobe Bridge CS6 allows you to manage images and work with metadata. You can change the user interface with a color theme, brightness, backdrop, and accent color.
- Camera Raw 7.0 (p. 476-479) You can recover more highlights than ever before
 and have access to a wider dynamic range. The Basics tab is easier to use with
 all sliders having a starting point in the middle. The plug-in supports more than
 400 camera models.
- Mini Bridge (p. 478) The Mini Bridge panel appears in film strip mode, like in Lightroom.
- ◆ Adobe Media Encoder (p. 488-489) Adobe Media Encoder CS6 allows you to render and export video files.
- Adobe Extension Manager (p. 490) Adobe Extension Manager CS6 allows you to create, edit, activate, import, and export extension sets.
- Adobe ExtendScript Toolkit (p. 491) Adobe ExtendScript Toolkit CS6 allows you
 to create and test scripts to control and automate features in many Adobe
 Create Suite programs.

What Happen To ...

- CS Live The CS Live menu command has been removed. This also includes the Share My Screen commands on the File menu.
- Device Central command The Device Central command on the File menu has been removed. The Save for Web & Devices commands has been changed to Save for Web. The Devices portion of the feature has been removed.
- **Scripts** The FreehandToAl script on the Scripts submenu on the File menu has removed. The LiveTrace script has been replaced by the ImageTrace command.
- Workspaces The Like Freehand, Live InDesign, and Like Photoshop workspaces have been removed from the Workspaces menu.
- Unsharp Mask The Unsharp Mask Photoshop Effect on the Effect menu has been removed.
- Flash Text The Flash Text has been removed. This includes the Flash Text panel and the Flash Dynamic Text and Flash Input Text commands on the Object submenu on the Select menu.
- Tracing Presets command The Tracing Presets command on the Edit menu has been removed. The functionality has been incorporated into the Image Trace feature.
- WBMP File Format The WBMP file format has been removed from the Save for Web dialog box.
- SWF and SVG File Format The SWF and SVG file formats have been removed from the Save for Web dialog box; however, they are still available in the Save As dialog box.

Adobe Certification

C

About the Adobe Certified Expert (ACE) Program

The Adobe Certified Expert (ACE) program is for graphic designers, web designers, systems integrators, value-added resellers, developers, and business professionals seeking official recognition of their expertise on Adobe products.

What Is an ACE?

An Adobe Certified Expert is an individual who has passed an Adobe Product Proficiency Exam for a specific Adobe software product. Adobe Certified Experts are eligible to promote themselves to clients or employers as highly skilled, expert-level users of Adobe software. ACE certification is a recognized worldwide standard for excellence in Adobe software knowledge. There are three levels of ACE certification: Single product certification, Specialist certification, and Master certification. To become an ACE, you must pass one or more product-specific proficiency exams and sign the ACE program agreement. When you become an ACE, you enjoy these special benefits:

- Professional recognition
- An ACE program certificate
- Use of the Adobe Certified Expert program logo

What Does This Logo Mean?

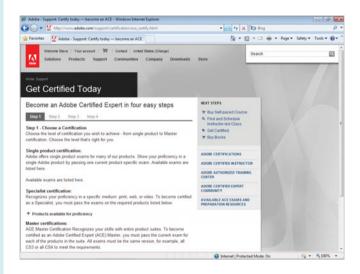
It means this book will prepare you fully for the Adobe Certified Expert exam for Adobe Illustrator CS6. The certification exam has a set of objectives, which are organized into broader skill sets. The Adobe Certified Expert objectives and the specific pages throughout this book that cover the objectives are available on the web at www.perspection.com.



Choosing a Certification Level

There are three levels of certification to become an Adobe Certified Expert.

- Single product certification. Recognizes your proficiency in a single Adobe product. To qualify as an ACE, you must pass one product-specific exam.
- Specialist certification. Recognizes your proficiency in multiple Adobe products with a specific medium: print, web, or video. To become certified as a Specialist, you must pass the exams on the required products. To review the requirements, go online to http://www.adobe.com/support/certification/ace_certify.html.
- Master certification. Recognizes your skills in terms of how they align with the Adobe product suites. To become certified as a Master, you must pass the exam for each of the products in the suite.



Preparing for an Adobe Certified Expert Exam

Every Adobe Certified Expert Exam is developed from a list of objectives, which are based on studies of how an Adobe program is actually used in the workplace. The list of objectives determine the scope of each exam, so they provide you with the information you need to prepare for ACE certification. Follow these steps to complete the ACE Exam requirement:

- 1 Review and perform each task identified with a Adobe Certified Expert objective to confirm that you can meet the requirements for the exam.
- 2 Identify the topic areas and objectives you need to study, and then prepare for the exam.

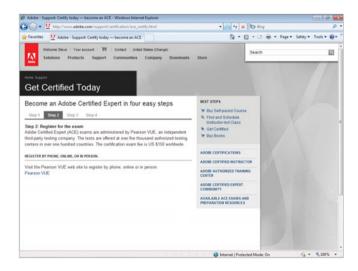
3 Review the Adobe Certified Expert Program Agreement. To review it, go online to http://www.adobe.com/support/certification/ace_certify.html.

You will be required to accept the ACE agreement when you take the Adobe Certified Exam at an authorized testing center.

4 Register for the Adobe Certified Expert Exam.

ACE testing is offered at more than a thousand authorized Pearson VUE and Thomson Prometric testing centers in many countries. To find the testing center nearest you, go online to www.pearsonvue.com/adobe (for Pearson VUE) or www.2test.com (for Prometric). The ACE exam fee is US\$150 worldwide. When contacting an authorized training center, provide them with the Adobe Product Proficiency exam name and number you want to take, which is available online in the Exam Bulletin at http://www.adobe.com/support/certification/ace certify.html.

5 Take the ACE exam.



Getting Recertified

For those with an ACE certification for a specific Adobe product, recertification is required of each ACE within 90 days of a designated ACE Exam release date. There are no restrictions on the number of times you may take the exam within a given period.

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Taking an Adobe Certified Expert Exam

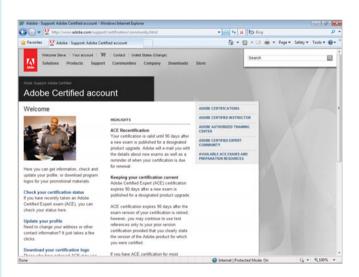
The Adobe Certified Expert exams are computer-delivered, closed-book tests consisting of 60 to 90 multiple-choice questions. Each exam is approximately one to two hours long. A 15-minute tutorial will precede the test to familiarize you with the function of the Windows-based driver. The exams are currently available worldwide in English only. They are administered by Pearson VUE and Thomson Prometric, independent third-party testing companies.

Exam Results

At the end of the exam, a score report appears indicating whether you passed or failed the exam. Diagnostic information is included in your exam report. When you pass the exam, your score is electronically reported to Adobe. You will then be sent an ACE Welcome Kit and access to the ACE program logo in four to six weeks. You are also placed on the Adobe certification mailing list to receive special Adobe announcements and information about promotions and events that take place throughout the year.

When you pass the exam, you can get program information, check and update your profile, or download ACE program logos for your promotional materials online at:

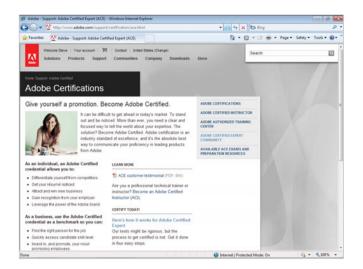
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Getting More Information

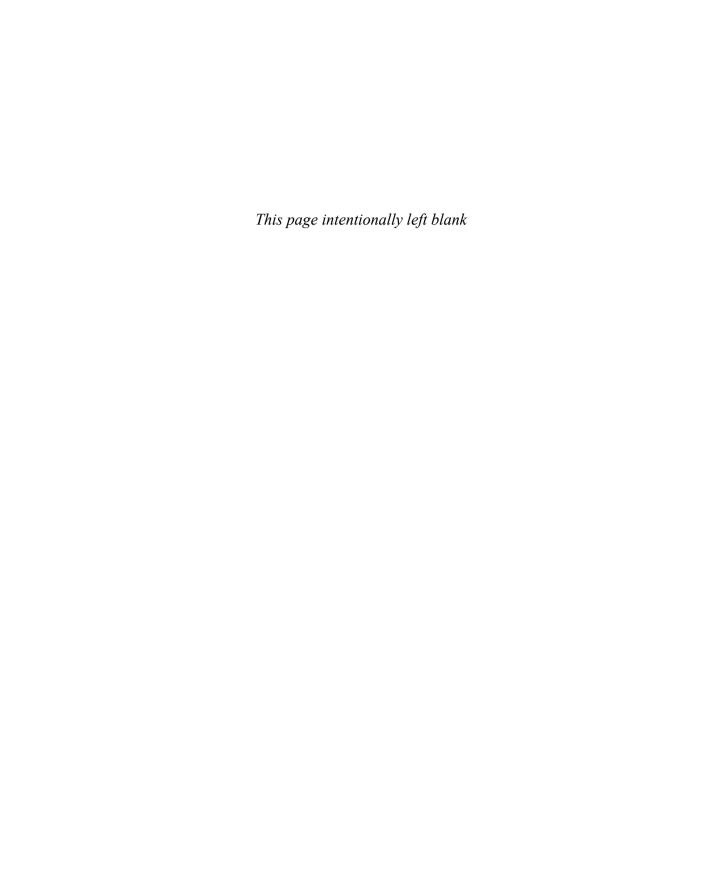
To learn more about the Adobe Certified Expert program, read a list of frequently asked questions, and locate the nearest testing center, go online to:

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The projects include

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- · Tracing and recoloring artwork
- · Creating stylized 3D type
- · Creating and using bristle brushes
- · Exporting to other formats
- Preparing for a printer