Includes

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More than 600 of the Most Essential Photoshop

CS4 Tasks



Adobe®

Photoshop® CS4 Occordence on Demand

What you need, when you need it!



Adobe® Photoshop® CS4 On Demand

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Introduction

Welcome to Adobe Photoshop CS4 On Demand, a visual quick reference book that shows you how to work efficiently with Photoshop CS4. This book provides complete coverage of basic to advanced Photoshop 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 Photoshop CS4, 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 Photoshop CS4. 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 (Mac), as a quicker alternative to using the mouse. A complete list of keyboard shortcuts is available on the Web at www.perspection.com.

How You'll Learn

How This Book Works

What's New

Keyboard Shortcuts

Step-by-Step Instructions

Real World Examples

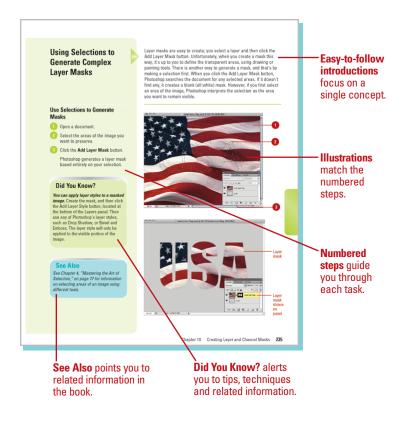
Workshops

Adobe Certified Expert

Get More on the Web

Step-by-Step Instructions

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



Real World Examples

This book uses real world examples 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 through out 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.



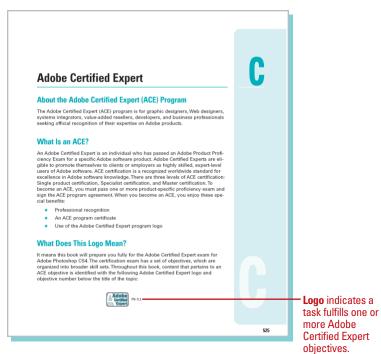
Workshops

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 project results file at the end. The Workshop projects and associated files are available on the Web at www.perspection.com.

Workshops Introduction The Workshop is all about being creative and thinking outside of the box. These workshops will help your right-brain soar, while making your left-brain happy by explaining why things work the way they do. Exploring Photoshop's possibilities is great fur; however, always stay grounded with the knowledge of how things work. Knowledge is power. Getting and Using the Project Files Each project in the Workshop includes a start file to help you get started with the profinal file to provide you with the results so you can see how well you accomplished the Before you can use the project files, you need to download them from the Web. You can access the files at www.perspection.com. After you download the files, uncompress them into a folder on your Project 1: Scaling an Image Using Content-Aware The Workshop walks you through Skills and Tools: Content-Aware Scale, Refine Edge, and Blending Mode in-depth projects One of the exciting new features in Photoshop CSA is Content-Aware Scaling This command look une or une exciting new reatures in Photoshop CS4 is Content-Aware Scaling. This comman for the focal point in your image and then identifies pixel areas that are less important and a subtracts pixels in those areas as necessary as you scale the image, leaving the focal point unchanged (unless you go too far). to help you put Photoshop to The Project work. In this project, you'll use the Content-Aware Scaling feature along with other refining tools to modify and enhance a photograph. Open the file Red_Rock_Canyon_start.psd in Photoshop and then save it as my_Red_Rock_Canyon.psd. Be sure you're not working on a locked layer (like the Background). If necessary, double click on the word "Background" and rename it. Duplicate the layer by dragging it on to the New Layer icon or using Ctrl+J (Win) Command+J (Mac). Duplicating the layer will enable you to

Adobe Certified Expert

This book prepares you fully for the Adobe Certified Expert (ACE) exam for Adobe Photoshop CS4. 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 a Adobe Certified Expert objective to confirm that you can meet the requirements for the exam. Throughout this book, content that pertains to an objective is identified with the Adobe Certified Expert logo and objective number next to it.



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 Photoshop CS4. 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.

More Content

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

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

Keyboard Shortcuts



Adobe Photoshop CS4 is a powerful program with many commands, which sometimes can be time consuming to access. Most menu commands have a keyboard equivalent, know as keyboard shortur, as a quider alternative to using the mouse. For example, if you want to open a new document in Photoshop, you click the File menu, and then click New, or you can abandon the mouse and press Cort-In Wini or Ga-Nt (Mac) to use shortcut keys. Using shortcut keys reduces the use of the mouse and speeds up operations. If a command on a menu includes a keyboard shortcut to the right of the command name, you can perform the action by pressing and holding the first key, and then pressing the second key to perform the command quickly, in some cases, a keyboard shortcut uses one key or three keys. For three keys, simply press and hold the first two keys, and then press the third keys, Keyboard shortcuts provide an alternative to using the mouse and make it easy to perform repetitive commands.

Finding a Keyboard Shortcut -

Photoshop contains keyboard shortcuts for almost every command and task in the program. To help you find the keyboard shortcut you're looking for, the shortcuts are organized in categories and listed with page numbers.

Actions, 21
Adobe Bridge, 23
Image, 13
Animations, 21
Blending Modes, 16
Paths, 19
Brushes, 18
Cloier, 17
Selecting, 10
Color, 17
Selecting, 10
Dialog Boxes, 21
Dialog Boxes, 21
Display, 8
Transform, 21
Edit, 3
Type, 10

If you're searching for new keyboard shortcuts in Adobe Photoshop CS4, just look for the letter: N. The N appears in the Keyboard Shortcuts table so you can quickly and easily identify new shortcuts.

Additional content is available on the Web.

Customizing the Way You Work

Introduction

No description of Adobe Photoshop would be complete without that well-known, but little utilized area called Preferences. Photoshop 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.

By modifying File Handling preferences, such as appending a file extension on the file, or being asked when saving a layered TIFF file, you can streamline the file saving process. In addition, you can change the way your cursors look. For example, do you want your paintbrush to look like a paintbrush when you paint, do you prefer a precision crosshair or the actual brush size shape, or the shape with a crosshair?

As you use Photoshop, 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 a blue-sky image, you know exactly why guide color is important. By working through preferences such as Image Cache, Scratch Disks, and RAM (Random Access Memory), 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 Photoshop run faster (up to 20%), you work more efficiently, and your designs are better. That's a pretty good combination. Photoshop doesn't give you Preferences to confuse you, but to give you choices, and those choices give you control.

What You'll Do

Optimize Photoshop

Set General Preferences

Modify File Handling Preferences

Work with Interface Preferences

Work with Cursors Preferences

Control Transparency & Gamut Preferences

Work with Units & Rulers

Work with Guides, Grid & Slices

Select Plug-Ins

Select Scratch Disks

Allocate Memory & Image Cache

Work with Type

Manage Libraries with the Preset Manager

Customize the Workspace

Define Shortcut Keys

Create a Customized User Interface

Use Drawing Tablets

Optimizing Photoshop

Photoshop is a powerful program, and as such, requires a tremendous amount of computing power. When working on large documents, a poorly optimized Photoshop program will mean longer processing times for your files. That's the bad news if you have a deadline to meet. The good news is that Photoshop can be configured to run more efficiently. To optimize Photoshop, click the Edit (Win) or Photoshop (Mac) menu, point to Preferences, and then click Performance. The Performance preferences dialog box contains options that will help maximize the performance of Photoshop.

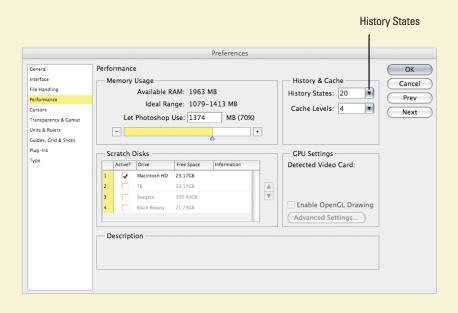
History States

History States control the number of undos available. In fact, you can have up to 1,000 undos (ever wonder who would make so many mistakes that they would need 1,000 undos?). Unfortunately, increasing the number

of History States will ultimately increase the amount of RAM Photoshop uses to manage the History panel. Assigning more RAM to manage History means less memory for Photoshop to perform other operations, and will reduce the performance of the program. If you are experiencing problems with slow performance, lowering the number of History States frees up more RAM, and permits Photoshop to operate more efficiently.

Scratch Disk

When your computer doesn't have enough RAM to perform an operation, Photoshop uses free space on any available drive, known as a **Scratch Disk**. Photoshop requires 5 times the working size of the file in contiguous hard drive space. For example, if the working size of your file is 100 MB, you will need 500 MB of contiguous

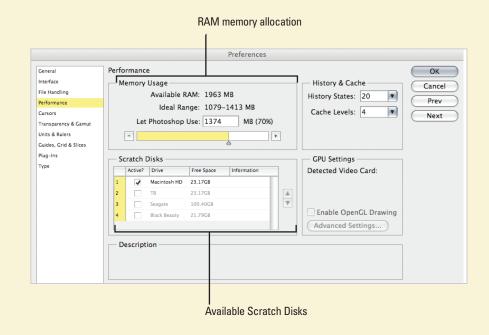


hard drive space, or you will receive an error message: Out of Scratch Disk Space (I hate it when that happens). Using additional hard drives gives Photoshop the ability to divide the processing load and increase performance. Photoshop detects and displays all available internal disks in the Preferences dialog box. Scratch disks must be physically attached to your computer (avoid networks) and removable media, such as zip drives, or rewriteable CDs or DVDs). For maximum speed, avoid USB, and use 4- or 6-pin FireWire drives. Benchmark tests show FireWire drives provide up to a 20% speed improvement when used as Scratch Disks. Think of saving one hour out of every five, or one full day out of every five. That's not too bad. For best results, select a scratch disk on a different drive than the one used for virtual memory or any large files you're editing.

Memory & Image Cache

Photoshop functions in RAM (actually all applications work within RAM). To run efficiently, Photoshop requires 5 times the working size of the open document in available memory (some tests indicate 6 to 8 times). Strictly speaking, the more RAM you can assign to Photoshop, the more efficiently the program operates, especially when opening large documents.

RAM usage is determined by the working size of the document, not its open size. As you work on a document, you will eventually add additional layers to separate and control elements of the image. As you add these new layers, the working size of the file increases.



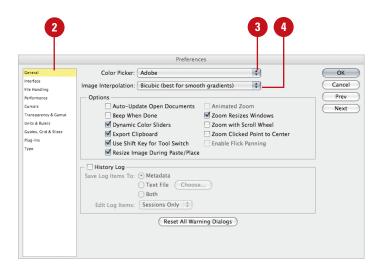
Setting General Preferences



Work with General Options

- 1 Click the Edit (Win) or Photoshop (Mac) menu, and then point to Preferences.
- 2 Click General.
- 3 Click the Color Picker list arrow, and then select Adobe or another operating system (Windows or Macintosh).
- 4 Click the Image Interpolation list arrow, and then select Nearest Neighbor (Faster), Bilinear, or one of the Bicubic options.
- 5 Select the various options you want to use:
 - Auto-Update Open Documents.
 Creates a link between the open image and the image file on disk.
 - Beep When Done. Makes a sound when an operation is complete.

Photoshop's General preferences help you configure some of the more common features of the program. Image interpolation settings, as well as the History log, are set up in General preferences. Other options, such as beeping when an operation is finished, auto-updating open documents, and using the Shift key for tool switching, can all be turned on or off in the Options area. The History Log lets you save all the History States performed on a particular document. For example, when you open an image, all the adjustments and actions performed are saved in a text file. This gives you access to valuable information, and lets you reproduce the steps performed on one image to correct another.

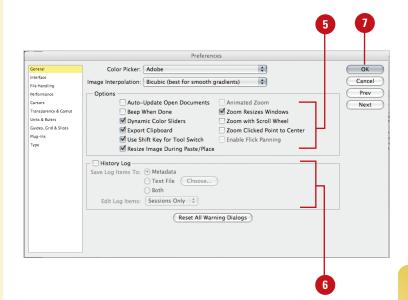


- Dynamic Color Sliders. Previews color effects within the slider hars.
- Export Clipboard. Transfers a copied image to the operating systems clipboard.
- Use Shift Key For Tool Switch.
 Allows you to use the keyboard shortcut when two tools share the same slot in the toolbox.
- Resize Image During Paste/ Place. Allows you to resize an image during a Paste or Place.
- Animated Zoom. (New!)
 Enables continuous-motion, smooth zooming in and out of your document. Must have OpenGL on your computer.
- Zoom Resizes Windows. Forces the image window to resize when zoom is selected.
- Zoom With Scroll Wheel.
 Determines whether zooming or scrolling is the default operation of the scroll wheel.
- Zoom Clicked Point to Center. (New!) Centers the zoom view on the clicked location.
- Enable Flick Panning. (New!)
 Enables quick mouse movement over the image instead of holding down the mouse.
- Select the History Log options you want to use.
- Click OK.

Did You Know?

You can turn a text box into a slider.

You can use any text box which displays a numerical value, such as font size, like a slider. Point to the name of the box (which changes the cursor to a hand with arrows), and then move the mouse left to decrease or right to increase the displayed number.

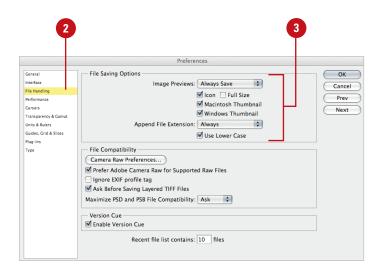


Modifying File Handling Preferences

Work with File Handling Options

- 1 Click the Edit (Win) or Photoshop (Mac) menu, and then point to Preferences.
- Click File Handling.
- 3 Select the File Saving Options you want to use:
 - Image Previews. Select from: Always Save, Never Save, or Ask When Saving.
 - Icon. Saves previews of the images (Mac).
 - Full Size. Saves full-size previews for use as FPO (For Placement Only) objects in Desktop layout programs (Mac).
 - Mac Thumbnail. Saves previews viewable when using the Mac File Open command (Mac).
 - Win Thumbnail. Saves previews viewable when using the Win File Open command (Mac).
 - Append File Extension. Lets you choose whether or not to append the file extension (Mac).
 - Use Lower Case. Choose to have upper or lower case extensions.

Sooner or later, you'll have to save the file (document) you've created in Photoshop. The final output of any document is contained within a specific file format such as TIFF, EPS, JPEG, or BMP. In fact, Photoshop lets you save files using over 15 different formats. The File Handling preferences provide several options that modify what information is saved with a file. Image previews are typically very small, adding very little to the file size of the saved document. Once saved you may want to open, print, and possibly even modify the document using other image-editing applications. The File compatibility options help you save a file that will be transportable to other applications.



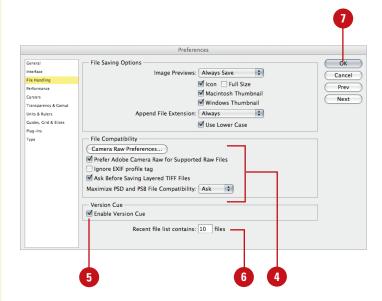
- 4 Select the File Compatibility options you want to use:
 - Camera Raw Preferences Click to choose from options such as default image settings, cache size, DNG file handling, and whether or not to open JPEG and TIFF files with Camera Raw.
 - Prefer Adobe Camera Raw for Supported Raw Files. Open supported raw files in Camera Raw.
 - Ignore EXIF Profile Tag. Ignores color space metadata attached to digital camera images.
 - Ask Before Saving Layered TIFF Files. Lets you create multilayered documents, and then save them using the TIFF format.

This is a distinct advantage when you need to use multi-layered files and you don't want to save them using Photoshop's proprietary format (PSD).

- Maximize PSD and PSB File Compatibility. Lets you save PSD files that can be opened in earlier versions of the program and PSB (Large Document Format) files.
- 5 Select the **Enable Version Cue** check box to enable Adobe Version Cue in your work process.
- 6 Enter the number of files (up to 30) to keep in the Recent File List box.
- Click **OK**.

See Also

See "Understanding File Formats" on page 381 for information on some of the various file formats available in Photoshop.



Working with Interface Preferences

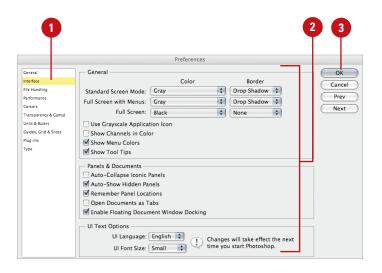


PS 1.1, 1.2

Work with Interface Options

- 1 Click the Edit (Win) or Photoshop (Mac) menu, point to Preferences, and then click Interface.
- 2 Select the Interface options:
 - Screen Modes. Choose background and border colors for the three screen modes.
 - Use Grayscale Application Icon. Shows the application icon in grayscale or color.
 - Show Channels In Color.
 Allows you to view channels in the Channels panel in color.
 - Show Menu Colors. Displays menu items in user-defined colors.
 - Show Tool Tips. Shows labels when your cursor is placed over an option.
 - Auto-Collapse Iconic Panels.
 Automatically collapses icon panels when you click away.
 - Remember Panel Locations.
 Saves the panel locations.
 - Auto-Show Hidden Panels.
 (New!) Hidden panels will temporarily appear when you move your cursor to the edge of the application window.
 - UI Text Options. Click the UI Language list arrow to choose a default language, and then click the Font Size list arrow to select a size for interface fonts.
- 3 Click **OK**.

Working with the Interface preferences gives you control over whether Photoshop displays or hides user interface features. You can display some user interface elements in color. For example, you can show the Application icon in color or grayscale, show channels in color, or show selected menu items in user-defined colors. Interface preferences also allow you to show descriptive labels when your cursor is placed over an option, automatically collapse icon panels when you click away, and remember panel locations for the next use. You can also change the size of the text font on the Options bar, panels, and tool tips.

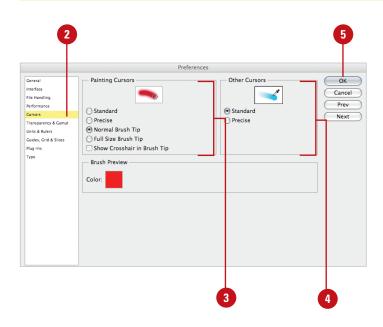


Working with Cursors Preferences

Work with Cursors Options

- 1 Click the Edit (Win) or Photoshop (Mac) menu, and then point to Preferences.
- 2 Click Cursors.
- 3 Select the Painting Cursors options you want to use:
 - Standard. Painting cursors look like their toolbox icons.
 - Precise. Painting cursors appear as crosshairs.
 - Normal Brush Tip. Painting cursors appear with the shape of the active brush tip.
 - Full Size Brush Tip. Shows the full size of the brush tip, including feathered edges.
 - Show Crosshair In Brush Tip.
 Displays a crosshair in the center of the brush tip.
- 4 Select the Other Cursors options you want to use:
 - Standard. Painting cursors look like their toolbox icons.
 - Precise. Painting cursors appear as crosshairs.
 - Brush Preview. Choose a color for brush editing preview.
- Click OK.

We communicate with Photoshop using various devices, such as a drawing tablet, mouse, touch screen, track pad, or keyboard. Photoshop communicates with us using visual cues, the most prominent one being the shape of the cursor. For example, when a cursor looks like an I-beam, this typically means it's time to enter text, or when the cursor looks like a magnifying glass, clicking on the image expands the view size. Working with the Cursors preferences gives you control over how Photoshop communicates with you.



For Your Information

Toggling Between Precise and Standard Tools

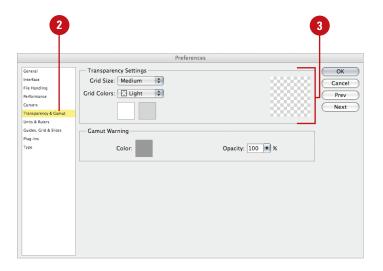
Pressing the Caps Lock key while using a painting cursor toggles the tool between the precise and brush size options, and pressing the Caps Lock key when using any other cursor toggles between standard and precise options.

Controlling Transparency & Gamut Preferences

Control Transparency & Gamut Options

- 1 Click the Edit (Win) or Photoshop (Mac) menu, and then point to Preferences.
- Click Transparency & Gamut.
- 3 Select the Transparency Settings options you want to use:
 - Grid Size. Allows you to select a transparency grid size.
 - Grid Colors. Allows you to choose the color scheme for the transparency grid.

The Transparency & Gamut preferences control how Photoshop displays transparent areas of a document (commonly called the checkerboard), as well as the color and opacity of areas of an image that fall outside of the CMYK (Cyan, Magenta, Yellow, and Black) color mode. It's important to understand that transparency in Photoshop does not always translate into transparency after you save the file. For example, the JPEG format is used primarily for images saved for the Internet, and does not support transparency. When you save the file, Photoshop will fill the transparent areas of the image with a matte color (the default is white). In addition, the Gamut Warning may be activated because a monitor displays color information using RGB, and has more available saturation values than a CMYK document. Using a different ink or spot colors can sometimes fix an out-of-gamut color. For transparency it's important to remember that unless you're printing the document directly in Photoshop, it's the format you choose that determines if the transparent areas will be saved, and the Gamut Warning is there to warn you of any areas that may not print the way you expect.



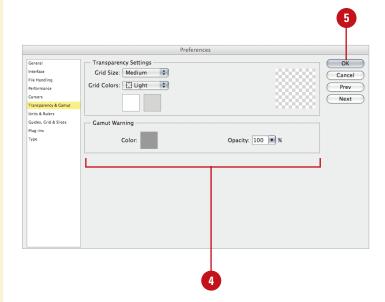
- 4 Select the Gamut Warning options you want to use:
 - Color. Choose a color to mask areas of an image that move out of the CMYK color space.
 - Opacity. Enter a value from 0% to 100%.

Opacity determines how much of the Color Overlay masks the original image pixels.

For example, if you choose the color gray, and an opacity of 100%, areas of an image that fall outside of the CMYK color space will be masked with gray.

5 Click OK.

IMPORTANT To activate the gamut warning option, open a document in Photoshop, click the View menu, and then click Gamut Warning. Out of Gamut areas of the image will display with the color and opacity chosen in the Transparency & Gamut preferences.



Working with Units & Rulers

Work with Units & Rulers Options

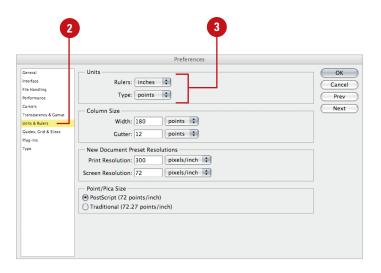
- 1 Click the Edit (Win) or Photoshop (Mac) menu, and then point to Preferences.
- Click Units & Rulers.
- 3 Select the Units options you want to use:
 - Rulers. Sets a default measuring system for the Ruler bar.
 - For example, pixels would be most common for images displayed on a monitor, and picas or inches most common for output to press or printer.
 - Type. Use to measure type with pixels, points, or millimeters.

Did You Know?

You can switch between ruler measurements without going to
Preferences. To change the default

Preferences. To change the default measurement system of the Ruler bar, simply move into the Ruler bar, and then right-click your mouse. A list of available measurement options will be instantly available.

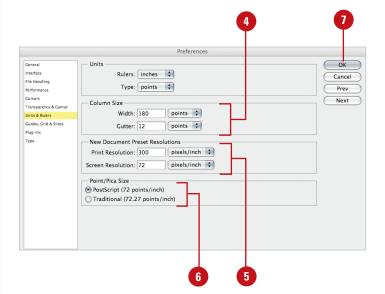
While changing the measurable units and rulers do not affect output quality, they do help to measure information in a document consistent with the specific output device. Ruler Units give you precise information on the width and height of the active document. The Column Size measurements provide information that Photoshop needs to create documents with columns, such as newspapers, magazines, brochures, etc. The New Document Preset Resolutions area lets you select specific resolution values when creating new documents. Insert the values you'll use most often in the creation of a new Photoshop document.



- 4 Select the Column Size settings you want to use:
 - Width. Choose a measurement system and numerical value for column width.
 - Gutter. Choose a measurement system and numerical value for gutter (the space between the columns).

When you choose a measurement system (points, inches, or centimeters), Photoshop changes the value to correspond to the type of measurement system.

- 5 Select the New Document Preset Resolutions settings you want to use:
 - Print Resolution. Select a print resolution and measurement value for default printing.
 - Screen Resolution. Select a print resolution and measurement value for default screen display.
- 6 Click the **PostScript** or **Traditional** option measuring systems for Photoshop's type tool (PostScript is the most widely used).
- 7 Click **OK**.



Working with Guides, Grid & Slices

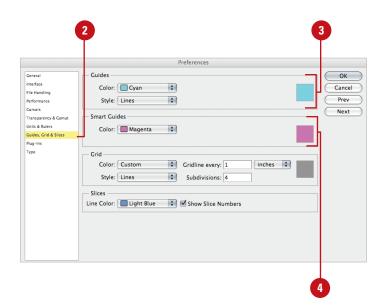
Work with Guides, Grid & Slices Options

- 1 Click the Edit (Win) or Photoshop (Mac) menu, and then point to Preferences.
- Click Guides, Grid & Slices.
- 3 Select the Guides options you want to use:
 - Color. Select a default color for displaying guides.
 - Style. Select a default (Lines or Dashed Lines) for displaying guidelines.
- 4 Select the Smart Guides options you want to use:
 - Color. Select a color for use with Smart Guides.

Did You Know?

You can change a horizontal guide into a vertical guide, and vice versa. Move into the Ruler bar and drag a guide into the document window. Before releasing the mouse, hold down the Alt (Win) or Option (Mac) key. The guide automatically switches directions.

The Guides, Grid & Slices preferences help keep a multi-layered document in proper order. For example, using Guides can help you line up buttons on a web interface, or make sure specific design elements are precisely placed within the document window. The Guides option lets you select the color and style of the guides placed within a Photoshop document. Guides are placed within the image by dragging them from the horizontal or vertical Ruler bars in the active document. The Grid options let you decide on a color, style, and layout for Photoshop's grid system. The Slices option defines the visible color of a slice, and whether Photoshop displays a number value for each slice.



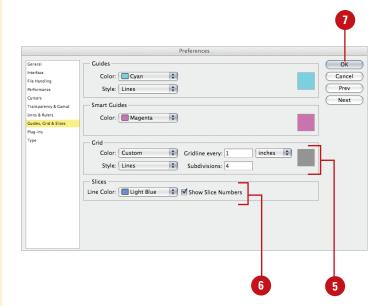
- 5 Select the Grid options you want to use:
 - Color. Select a default color for displaying grids.
 - Style. Select a default style (Lines, Dashed Lines, or Dots) for displaying the grid.
 - Gridline Every. Enter a value for how often the grid lines appear within the active document.
 - Subdivisions. Enter a value for how many subdivisions (lines) appear between each main gridline.
- 6 Select the Slices options you want to use:
 - Line Color. Select a default line color for displaying document slices.
 - Show Slice Numbers. Select the check box to display a number for each slice in the upper left corner of the slice.

IMPORTANT When you select a line color, choose a color that is different than the grid and guide line colors. That way you can easily identify grids and guides for user-created lines.

7 Click OK.

Did You Know?

You can change color choices for Guides, Grid & Slices. Not satisfied with the color choices offered by the color and style menus? Click on the Color boxes located on the right side of the Preferences dialog box, and select any color from the Color Picker.



Selecting Plug-Ins

Work with Plug-Ins Options

- 1 Click the Edit (Win) or Photoshop (Mac) menu, and then point to Preferences.
- 2 Click **Plug-Ins**.
- 3 Select the Additional Plug-Ins Folder check box if you have additional plug-ins stored outside the default Photoshop plug-ins folder.

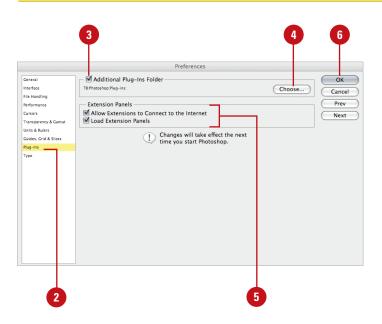
IMPORTANT The first time you select this option, Photoshop asks you where the plug-ins are stored.

- 4 If you change the location of your additional plug-ins folder, you can always click **Choose** and navigate to it.
- 5 Choose options for Extension Panels. (New!)

Check Allow Extensions to
Connect to the Internet and/or
Load Extension Panels if you want
to use new features such as Kuler
or Connections. (New!)

6 Click **OK**.

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 from Photoshop's Filter menu. Organizing your plug-ins into folders helps keep your projects focused and reduces the clutter of plug-ins when you select them from the Filter menu.



Selecting Scratch Disks

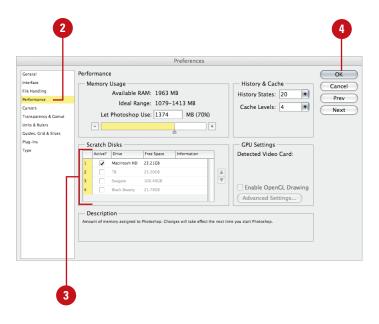
Work with Scratch Disks Options

- 1 Click the Edit (Win) or Photoshop (Mac) menu, and then point to Preferences.
- 2 Click **Performance**.
- 3 Select the check box next to the scratch disk you want to use or clear the check box to remove it.

IMPORTANT Photoshop holds scratch disk space as long as the application is open. To delete scratch disk space you must close Photoshop.

4 Click **OK**.

The Performance 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, Photoshop uses free space on any available drive, known as a Scratch Disk. Photoshop runs faster when you divide the Scratch Disk workload. Scratch operations are performed on your hard drive and take place when Photoshop is using one of its many filters and adjustments. Photoshop detects and displays all available disks in the Performance preferences dialog box, where you can select the disks you want to use. By assigning additional hard drives to the task, you speed up Photoshop's overall performance. Scratch Disk changes take effect the next time you start Photoshop.



Allocating Memory & Image Cache



Allocate Memory & Image Cache Options

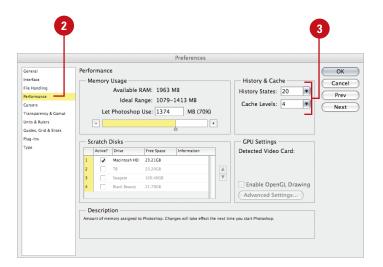
- 1 Click the Edit (Win) or Photoshop (Mac) menu, and then point to Preferences.
- Click Performance.
- 3 Select the History & Cache options you want to use:
 - Cache Levels. Select a number from 1 to 8.
 - History States. Enter the amount of History States steps you want to keep as undos; you can enter up to 1,000.

IMPORTANT History States impact Photoshop's performance by holding the History States using a combination of RAM and Scratch Disk space. The more History States used, the more RAM is required. Using an extensive number of History States can impact Photoshop's performance.

See Also

See "Installing Photoshop," on page 2 for information on RAM and other system needs.

The Memory Usage and History & Cache preferences give you control over how much RAM is assigned to Photoshop, and how much memory is allocated to screen redraws (Image Cache). Photoshop, being a high-performance application, requires a fairly large amount of RAM. Adjusting these options can help increase Photoshop's overall speed performance. Photoshop uses many operations that affect RAM: History States, Undo, Clipboard, and Cache. When you modify the Memory Usage settings, you are increasing or decreasing the amount of RAM Photoshop uses for various tasks. Experimentation is the key here. Try different settings and record Photoshop's performance. By fine-tuning Photoshop's engine, you increase its overall speed, and you'll get more design miles to the gallon.



For Your Information

Setting the Cache Levels

Cache Levels are screen redraws, or how many versions of the current active document Photoshop saves. When you're working on large documents, more Cache Levels help speed up the redraw function, and make image manipulation proceed faster. However, they are held primarily in RAM, so the more Cache Levels you choose, the less RAM is available for other Photoshop functions.

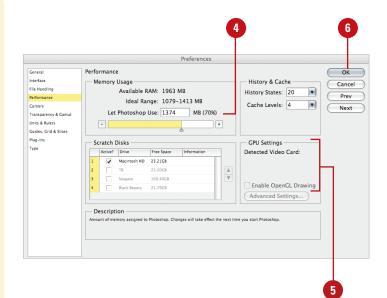
4 Enter the percentage of RAM used in the Let Photoshop Use box.

Photoshop needs about 5 times the size of the open document of unused RAM to operate efficiently.

IMPORTANT Any changes made for allocating memory and image caching will take place the next time you start Photoshop. Please see the message at the bottom of the screen.

- 5 GPU Settings (New!). If you have a video card installed with a GPU (Graphics Processing Unit), the name of your video card will appear under Detected Video Card. Check Enable OpenGL Drawing (GL stands for Graphics Library) to make the enhanced speed and smoothness of CS4 graphic rendering and navigation available to you.
- 6 Click **OK**.

IMPORTANT Never select 100% Memory Usage. Selecting 100% gives Photoshop your entire available RAM, leaving nothing for the operating system or any other open programs. If you are experiencing more than your usual share of Photoshop crashes, experiment with reducing memory usage.



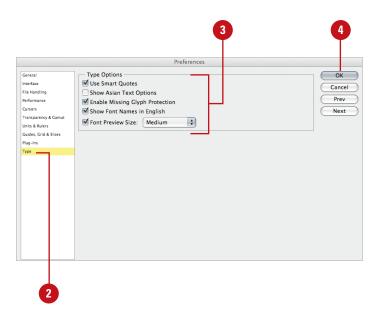
Working with Type

Work with Type Options

- 1 Click the Edit (Win) or Photoshop (Mac) menu, and then point to Preferences.
- 2 Click **Type**.
- 3 Select the Type options you want to use:
 - Use Smart Quotes. Select to use left and right quotation marks.
 - Show Asian Text Options.
 Select to display Japanese,
 Chinese, and Korean type options in the Character and Paragraph panels.
 - Enable Missing Glyph
 Protection. Select to
 automatically select incorrect,
 unreadable characters
 between roman and non-roman
 (Japanese or Cyrillic) fonts.
 - Show Font Names In English.
 Select to display non-roman fonts using their roman names.
 - Font Preview Size. Select to display fonts on the menu in small, medium, or large size.
- 4 Click OK.

IMPORTANT Photoshop uses PostScript measuring systems to size fonts. Therefore a 72-point font will print 1 inch tall. This lets you know how big the fonts will appear when output to print.

Although Photoshop is not by definition a typesetting application, such as Adobe InDesign, it does have some very powerful type features. For example, Adobe Photoshop allows you to output PostScript text to a printer with a PostScript option. This way you will not need to place Photoshop images into type-intensive applications, such as InDesign or Illustrator, just to create a few lines of text. In addition, Photoshop'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.



Managing Libraries with the Preset Manager

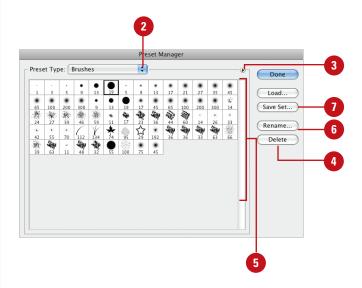
Create a New Preset

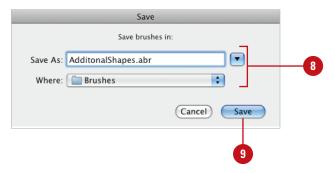
- 1 Click the Edit menu, and then click Preset Manager.
- 2 Click the **Preset Type** list arrow, and then select the options.
- 3 Click the **Options** list arrow, and then select from the available presets to add them to the current item list.
- 4 To remove any items in a new preset, click a thumbnail, and then click **Delete**.
- 5 To reorganize their order, click and drag the thumbnails to new positions within the view window.
- To change a preset name, click a thumbnail, click **Rename**, change the name, and then click **OK**.
- 7 Click a thumbnail, and then click Save Set.
- 8 Enter a new set name, and then select a location to store the set.
- Click Save, and then click Done.

Did You Know?

You can save specific items in the view window as a preset. Press Ctrl+click (Win) or Set +click (Mac) on only those items you want in the new set, and then click Save Set.

The Preset Manager gives you one place to manage brushes, swatches, gradients, styles, patterns, contours, custom shapes, and preset tools. The Preset Manager can be used to change the current set of preset items and create new libraries of customized sets. Once a library is loaded in the Preset Manager, you can access the library's items in all locations where the preset is available. Changes made in the Preset Manager are global and are applied every time you open Photoshop. When you save a new preset, the name appears in the dialog box for the specific option you selected.





Customizing the Workspace



Create a Customized Workspace

- 1 Arrange the panels into a specific working order.
- Click the Window menu, point to Workspace, and then click Save Workspace.
- Type a name for the workspace.
- 4 Select check boxes to save Panel Locations, Keyboard Shortcuts, or Menus.
- Click Save.

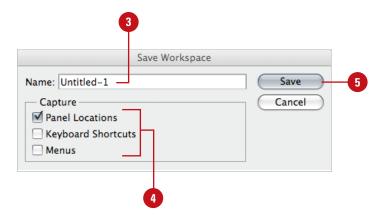
Delete a Customized Workspace

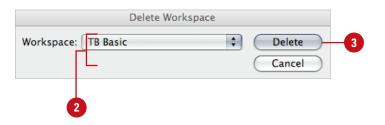
- 1 Click the Window menu, point to Workspace, and then click Delete Workspace.
- 2 Click the **Workspace** list arrow, and then click the workspace you want to delete, or click **All**.
- 3 Click **Delete**, and then click **Yes** to confirm the deletion.

Did You Know?

You cannot delete the Workspace in which you are currently working. You must switch to another workspace first.

The Photoshop workspace consists of a document surrounded by an Application frame (Mac only), Application bar, Options bar, toolbox, and over 20 floating panels, including new 3D, Adjustments, Masks, and Notes panels (New!). Depending on how you work, your workspace may reflect any combination of the above. For example, when you work with text, you would need the Character and Paragraph panels, but you might not need the Styles or Histogram panel. To work efficiently, each job requires a specific organization of the workspace. Rather than making you redesign your workspace every time you begin a new project, Photoshop gives you ways to create and save your own customized workspaces.





For Your Information

Resetting Panels

You can reset all Photoshop panels back to their original configurations. Click the Window menu, point to Workspace, and then click Essentials (Default) Workspace to reset all panel locations and menus.

Defining Shortcut Keys



PS 1.1

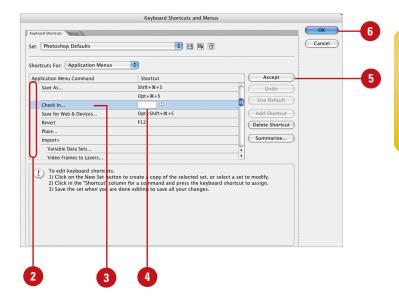
Create a Keyboard Shortcut

- Click the Edit menu, and then click Keyboard Shortcuts.
- Click an arrow (left column) to expand the menu that contains the command for which you want to create a shortcut.
- 3 Select an item from the Commands
- 4 Use the keyboard to create the new shortcut. For example, press Ctrl+N (Win) or [3:8]+N (Mac).
- Click Accept.
- 6 Click OK.

Did You Know?

You can save time using shortcut keys. According to several time and motion studies, using shortcut keys can actually save a computer user 1 hour out of every 8 in a work day.

A wise man once wrote "time is money," and Photoshop is a program that can consume a lot of time. That's why the Photoshop 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 Photoshop, you can click the File menu, and then click New, or you can abandon the mouse and press Ctrl+N (Win) or Well-N (Mac) to use shortcut keys. Using shortcut keys reduces the use of the mouse and speeds up operations. In fact, a recent study in the American Medical Journal suggested that the use of shortcut keys significantly cuts down on repetitive stress, and reduces instances of carpal tunnel syndrome. Photoshop raises the bar by not only giving you hundreds of possible shortcut keys, but also actually allowing you to define your own shortcuts.



For Your Information

Working with Shortcuts

In addition to adding shortcuts, you can delete any of them you don't want and even print out a summary of shortcuts defined in Photoshop. Shortcuts can be used for the Application and Panel menus, as well as for your tools in the toolbox. Click the Edit menu, click Keyboard Shortcuts, and then use the appropriate buttons, such as Add Shortcut, Delete Shortcut, or Summarize, to perform the tasks you want.

Creating a Customized User Interface



Use a Predefined User Interface

1 Click the **Window** menu, and then point to **Workspace**.

TIMESAVER Click the Workspace menu (New!) (which displays the name of the current workspace) on the menu bar.

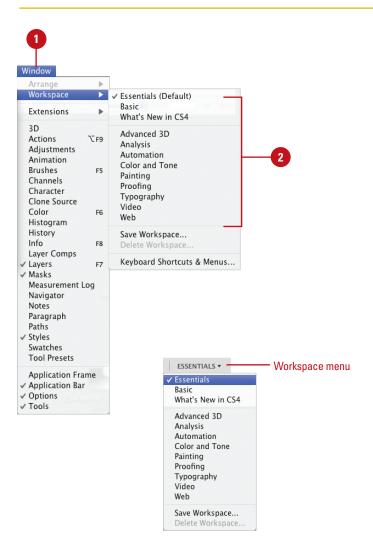
- Click one of the predefined sets, such as: Automation, Web, Painting, or What's New in CS4.
- 3 If prompted, click Yes to apply the changes.

The Photoshop menus will now display with highlighted options based on your selection.

Did You Know?

You can restore menus to the original settings. To restore all of the Photoshop menu settings to the original values, click the Window menu, choose Workspace, then scroll to the bottom and choose Keyboard Shortcuts & Menus. From there, you can choose Photoshop Defaults in the Set drop-down menu to revert to default menus.

Photoshop's pull-down menus actually contain hundreds of options (yes, I did say hundreds). If you find navigating through menus a hassle, then Adobe has the answer to your problem with a customizable user interface. In Photoshop, you have the ability to choose what menu items appear on the pull-down menus and you can even colorize certain menu items for easier visibility. For example, if you're curious about all the new features in Photoshop CS4, you can choose a drop-down menu system with all the new features highlighted. Photoshop includes nine predefined user interface sets, known as workspaces, just to get you started in the right direction. You can access these workspaces—such as Essentials, Basic, and What's New in CS4—by using the Workspace menu (New!) on the Application bar or Workspace submenu on the Window menu.



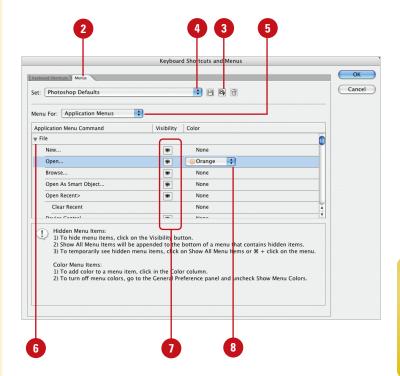
Create a Customized User Interface

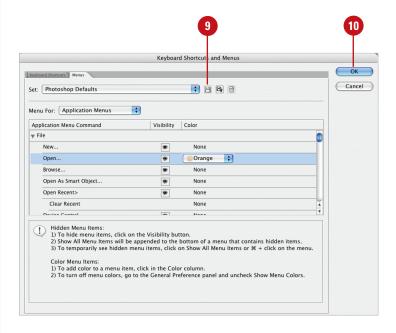
- 1 Click the Window menu, point to Workspace, and then click Keyboard Shortcuts & Menus.
- Click the Menus tab.
- 3 To create a new set based on the current active set, click the **Create**New Set button, enter a name, and then click **Save**.
- 4 Click the **Set** list arrow, and then select a listing of modified User Interfaces.
- 5 Click the Menu For list arrow, and then click Application Menus or Panel Menus with the items you want to modify.
- 6 Click an arrow (left column) to expand the menu that contains the command you want to modify.
- Click the **Visibility** icon associated with a command to show or hide the command.
- 8 Click the Color list arrow, and select a color for the selected command.
- Click the Save All Changes button to save the new customized User Interface.
- 10 Click **OK**.

Did You Know?

You can delete a user interface set.

Click the Windows menu, point to Workspace, click Keyboard Shortcuts & Menus, click the Menus tab, click the Set list arrow, click the set you want, and then click the Delete button.





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 several 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 Photoshop

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 Photoshop 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 Photoshop 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.



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