



Photoshop III

Restoring and Perfecting Images

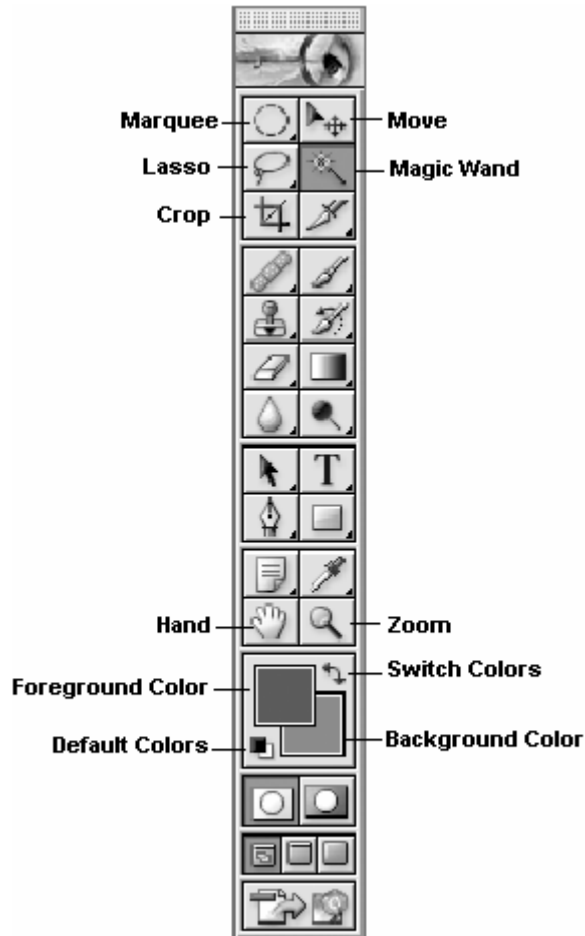
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Objectives

- Cover various restoration options and tools that Photoshop CS has to offer.
- Learn how to lighten and darken images
- Cropping, healing, and rotating images

Toolbar



Basic Tools

Zoom Tool



Magnify or reduce the view

1. Select the **Zoom** tool
 - a. Click anywhere in the document window to zoom in
 - b. Hold down the ALT/Option key and click anywhere in the document window to zoom out
 - c. Click and drag over the part of the image you want to magnify

NOTE: Double-click the Zoom Tool to view the image at actual pixel measurement.

Hand Tool



If the entire image is not visible in the document window, you can navigate to bring another area of the image into view.

1. Select the **Hand** tool
2. Click and drag in the document window to pan over the image

NOTE: Double-click the Hand Tool to have the image fit on screen.

Move Tool



The move tool lets you drag a selection to a new location in the image.

1. Select an image, a portion of an image or a layer using one of the selection tools
2. Select the **Move** tool
3. Click and drag the selected item to the appropriate place

Foreground/Background Colors



Photoshop uses the *foreground* color to paint, fill, and stroke selections and the *background* color to make gradient fills and fill in the erased areas of an image.

1. Click the foreground or background tool
2. Drag the slider to select a shade
3. Click the color picker field to select a color
4. Click OK

Switch Colors



To reverse the foreground and background colors click the Switch Colors icon in the toolbox.

Default Colors



To restore the default foreground and background colors click the Default Colors icon in the toolbox.

Summary

This section reviewed basic tools learned in Photoshop I, the next section covers tools that help to select an image and different parts of the image.

Selection Techniques

Marquee Tool



The marquee tools let you select rectangles, ellipses, rounded rectangles and 1-pixel rows and columns. By default, a selection border is dragged from its corner.

1. Click and hold the Marquee tool
2. Select the appropriate marquee from the pop-up menu
3. Click and drag the mouse pointer over the item to select it
4. Click outside of the selected area to deselect the object

Lasso Tool



The lasso and polygonal lasso tools let you draw both straight-edged and freehand segments of a selection border. With the magnetic lasso tool (Photoshop), the border snaps to the edges of defined areas in the image.

1. Click and hold the Lasso tool
2. Select the appropriate lasso from the pop-up menu
 - a. Lasso - Click and drag the mouse pointer around the item to select it
 - b. Polygonal Lasso – Click the starting point at the edge of the item. Move the mouse pointer along the edge of the item and continue to click. To finish the selection, click the starting point. Hit the ESCAPE key to cancel.
 - c. Magnetic Lasso - Click the starting point at the edge of the item. Move the mouse pointer along the edge of the item. To finish the selection, click the starting point. Hit the ESCAPE key to cancel.

Magic Wand



The magic wand tool lets you select a consistently colored area (for example, a red flower) without having to trace its outline. You specify the color range, or *tolerance*, for the magic wand tool's selection.

1. Select the **Magic Wand** tool
2. In the Option bar, choose a color pixel tolerance range from 0 – 255
3. Click the color range in the image that you want selected

Summary

This lesson covered basic tools found on the toolbar within Photoshop CS. Next section will cover these tools along with new ones that will be useful in restoring images within Photoshop CS.


Restoration Techniques

Cropping Tool



Cropping is the process of removing portions of an image.

1. Select the **Crop** tool
2. Click and drag an area around the item you want to keep
3. Adjust the selected area by placing the mouse pointer over the corner or middle place holders
4. In the image window, move the pointer outside the crop marquee, so that

it appears as a curved double arrow . Drag clockwise to rotate the marquee until it is parallel with the edges of the window frame in the picture.

5. Press Enter (Window) or Return (Mac OS). The image is now cropped, and the cropped image window, straitened, sized, and cropped according to your specifications.

Note: In Photoshop and ImageReady, you can use the Image>Trim command to discard a border area around the edge of the image, based on the transparency or edge color.

Healing brush



Effortlessly remove dust, scratches, blemishes, and other flaws with a single tool. The healing brush automatically preserves the shading, lighting, and texture of the original photo.

1. Select the **Healing Brush** tool
2. In the tool options bar, click the Brush option arrow to open the pop-up palette of controls, click and drag the slider to enter a Diameter value of your preferred choice. Check the other options on the tool options bar and set them to a designated setting or leave them at the default location.
3. Hold down the ALT/Option key and click and drag the mouse over the pixels of the image that you want to use as the source
4. Release the ALT/Option key and click and drag the mouse pointer over the pixels of the image you want to repair.

Rotation

The Rotate Canvas commands let you rotate or flip an entire image. The commands do not work on individual layers or parts of layers, paths, or selection borders.

1. Choose **Image > Rotate Canvas** from the Menu Bar
2. Choose one of the following commands from the submenu:
 - **180°** to rotate the image by a half-turn.
 - **90° CW** to rotate the image clockwise by a quarter-turn.
 - **90° CCW** to rotate the image counterclockwise by a quarter-turn.

- **Arbitrary** to rotate the image by the angle you specify. If you choose this option, enter an angle between -359.99 and 359.99 in the angle text box, and then select CW or CCW to rotate clockwise or counterclockwise. Click OK.
- **Flip Canvas Horizontal** to flip the image horizontally, along the vertical axis.
- **Flip Canvas Vertical** to flip the image vertically, along the horizontal axis.

Auto Levels

Auto Levels gives good results when an image with an average distribution of pixel values needs a simple contrast adjustment or when an image has an overall color cast.

- Choose **Image > Adjustments > Auto Levels**.

Auto Contrast

Auto Contrast can improve the appearance of many photographic images. Auto Contrast does not introduce or remove color casts. It maps the lightest and darkest pixels in the image to white and black, which makes highlights appear lighter and shadows appear darker.

- Choose **Image > Adjustments > Auto Contrast**.

Auto Color

The Auto Color command adjusts the contrast and color of an image by searching the actual image rather than the channels' histograms for shadows, midtones, and highlights. It neutralizes the midtones and clips the white and black pixels based on the values set in the Auto Correction Options dialog box.

- Choose **Image > Adjustments > Auto Color**.


Sharpen

The Sharpen filters focus blurry images by increasing the contrast of adjacent pixels.

- Choose **Filter > Sharpen > Sharpen**

Dodge Tool


The Dodge tool is used to lighten or darken areas of the image, the Dodge tool and the Burn tools are based on a traditional photographer's technique for regulating exposure on specific areas of a print. It is based on a traditional photographer's method of holding back light during an exposure to lighten an area of the image.

- In the toolbox, select the Dodge tool .
- Choose a brush tip and set brush options in the options bar.
- In the options bar, select one of the following:
 - Midtones to change the middle range of grays

- Shadows to change the dark areas
- Highlights to change the light areas
- Specify the exposure for the Dodge tool.
- Drag over the part of the image you want to lighten or darken.

Sponge Tool

The Sponge tool changes the color saturation of an area subtly. In Grayscale mode, the tool increases or decreases contrast by moving gray levels away from or toward the middle gray.

- Select the Sponge tool .
- Choose a brush tip and set brush options in the options bar.
- In the options bar, select the way you want to change the color.
 - Saturate to intensify the color's saturation
 - Desaturate to dilute the color's saturation
- Specify the flow for the Sponge tool.
- Drag over the part of the image you want to modify.

Summary

This lesson covered various restoration options and tools that Photoshop CS has to offer the user. We learned how to lighten and darken images just like photographers do when exposing film. Cropping, healing, and rotating images also proved to be very useful for those that cut and paste or find images to be very pixilated.

Getting Help

Help Desk

Help Desk Contact Information

Moody Hall 309
448-8443
helpline@acad.stedwards.edu
http://www.stedwards.edu/it_dept/computer/

Help Desk Hours of Operation

Monday – Thursday
8:00 AM – 10:00 PM

Friday
8:00 AM – 6:00 PM

Saturday
9:00 AM – 6:00 PM

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