
























Adobe Photoshop CS6

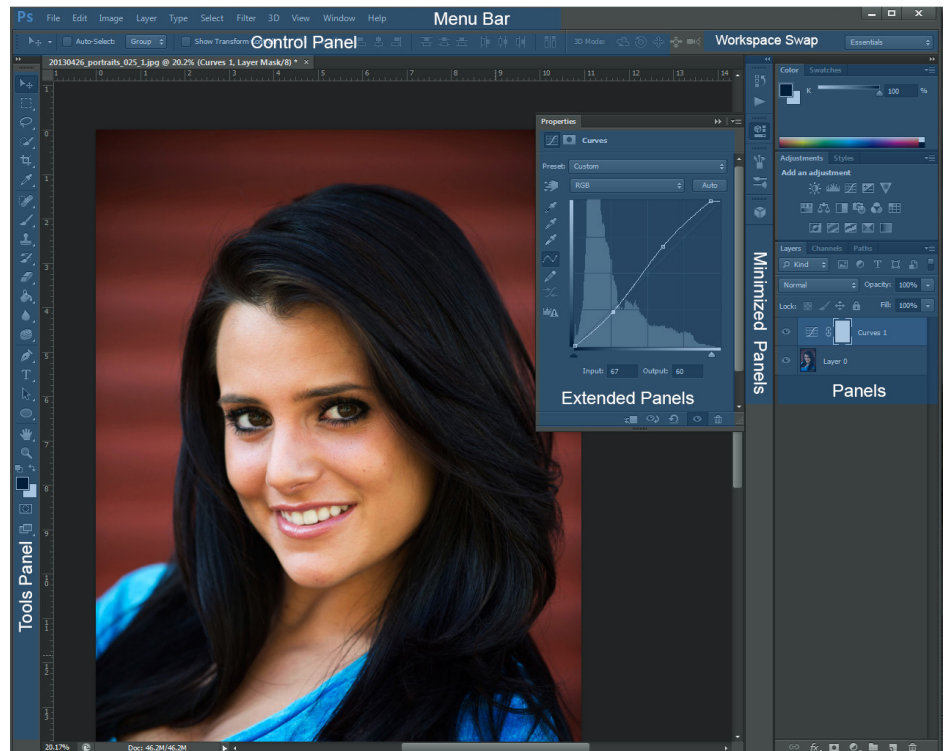
Quick Reference

The Tools Panel

Use the Tools Panel to select, draw, edit, and view images. A small triangle on an icon indicates additional tools accessed by clicking and holding the mouse button. The Options Bar (located above right of the Tools Panel) shows selected tool options.

Common Tools

- Marquee**  - Select an area as a rectangle or oval.
- Lasso**  - Select irregular areas.
- Crop**  - Cut away part of an image and/or decrease the canvas size.
- Move**  - Move selected pixels.
- Magic Wand**  - Select like content.
- Eraser**  - Erase selected layer to transparent. Replaces Background layer pixels with the background color.
- Brush**  - Apply foreground color to the image with a hard or soft edge.
- Pencil**  - Apply foreground color with a hard (pixel exact) edge.
- Patch**  - Blend texture, lighting, and sampled pixel shading.
- Clone Stamp**  - Sample a selection and duplicate it in another location.
- Healing Brush**  - A combined Clone Stamp and Patch tool. Matches sampled pixels to a nearby area's texture.
- Red Eye tool**  - Remove red eye from photos.
- Paint Bucket**  - Fill a selection with the foreground color.
- Dodge**  - Lighten areas of the image.
- Burn**  - Darken areas of the image.
- Gradient**  - Fade colors together.
- Horizontal Type**  - Add a text (vector) layer.
- Hand**  - Move an image.
- Eyedropper tool**  - Sample an image color.
- Ruler tool**  - Straighten an image
- Zoom**  - Magnify an image.
- Switch Fore/Background Color**  - Switch the current background color to the foreground color or vice versa.
- Fore/Background Color Boxes**  - Double-click these boxes to set foreground/background colors.



Fundamentals

Raster Images Vector Graphics

Photoshop works primarily with *raster* images, which are stored as a pixel grid. Enlarging a raster graphic makes pixels become more obvious.

Photoshop also supports *vector* graphics, which are defined mathematically to generate geometric shapes. Resized vector images do not become pixelated or distorted.

File Formats

GIF - 256 colors. Supports transparency.

Best for logos, clip art, or basic pictures.

JPG - Unlimited colors. No transparency.

Great for photographs.

PNG - Unlimited colors. Useful for web graphics. Transparencies are not supported in all web browsers.

TIFF - Uncompressed. Best for professional printing. Large file size.


Color Modes

To change color mode select **Image, Mode.**


CMYK - Defines image pixels as cyan, magenta, yellow, and black on a scale of 0-100. Each corresponds to an ink color. Great for high-end printers.


RGB - Defines image pixels as a combination of red, green, and blue. Each component is measured on a scale of 0-255. Best for monitor/projector displays or printing from a home workstation.

Types of Selection Tools

Marquee  - Select an area as a rectangle or oval.

Lasso  - Select irregular areas.

Polygonal Lasso  - Select irregularly shaped areas with a series of straight lines.

Magnetic Lasso  - Easily select areas whose edges contrast with an adjacent area.

Magic Wand  - Select areas of similar color content.

Quick Selection  - Select image objects or areas based on automatic edge detection.

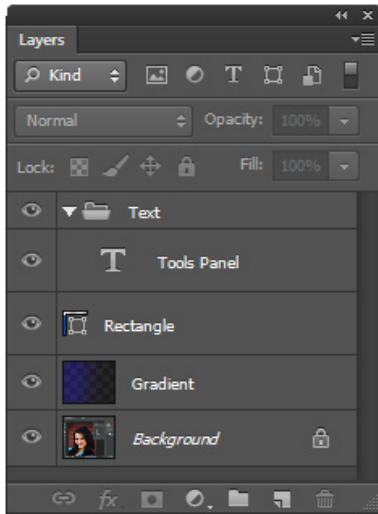
Task-based Workspaces

The Workspace Switcher is located right of the Menu Bar. Click this menu to change your Photoshop workspace to correspond to your project. Or, customize your workspace by choosing your panel options in the *Window* menu. The panels and tools can be moved around or resized to best suit your needs.

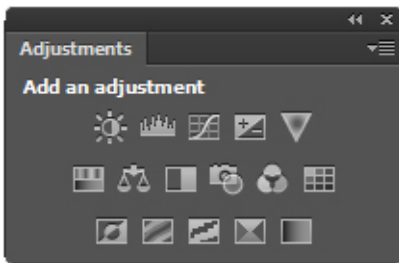
Panels

Common Panels

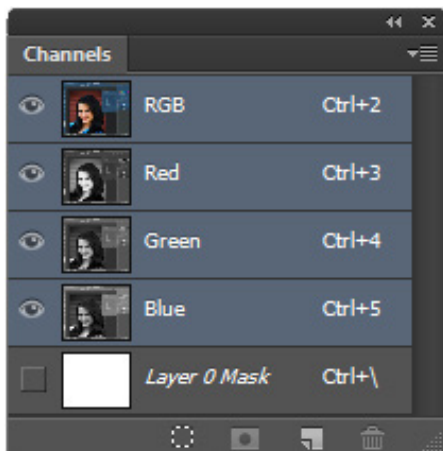
Layers - Manage and adjust layers.



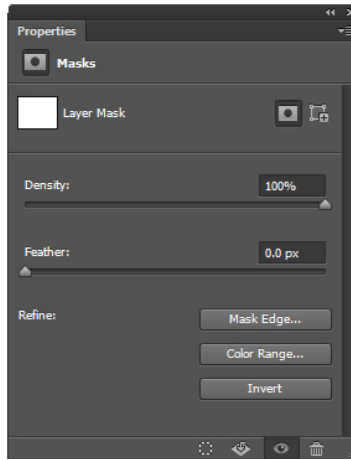
Adjustments - Manage adjustment layers such as color balance, photo filters, threshold levels, etc.



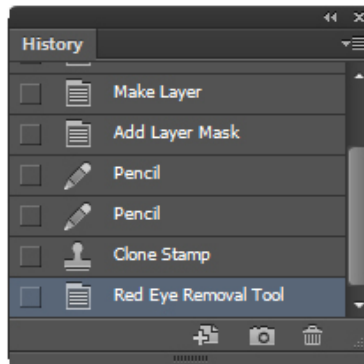
Channels - Control and edit separate color layers (RGB or CMYK).



Mask - Quickly create non-destructive pixel- or vector-based masks and adjust mask density and feathering.



History - Revert to a previous state of an image or review previous edits/changes.



Tasks

Zoom **Ctrl +** or **Ctrl -**

Click with the Zoom tool to zoom in or click and drag to create a zoom box. Hold down **Alt** and click to zoom out. Press **Ctrl+0** to return to the full canvas view.

Add to Selection

1. Choose a selection tool.
2. From the Options bar, click the **Add to Selection** icon (or if using the Quick Selection tool).
3. Click and drag to add to the selection.

Subtract from Selection

1. Select an area using a selection tool.
2. From the Options bar, click **Subtract from Selection** (or if using the Quick Selection tool).
3. Click or drag to deselect part of the existing selection.

Create a New Layer **Shift+Ctrl+N**

At the bottom of the Layers Panel, click **Create a New Layer** .

Create a Layer from a Selection

1. Using a selection tool, select an area to convert into a new layer.
2. Select **Layer**, then **New**, then **Layer via Copy** to create a new layer with a copy

of the selected pixels. Original pixels will remain in the original layer.
or Select **Layer**, then **New**, then **Layer via Cut** to create a new layer from selected pixels, removing them from the original layer.

Rename a Layer

In the Layers panel, double-click the layer name, type a new name, and press **Enter**.

Modify Layer Styles

1. Double-click the layer thumbnail to open the Layer Style window.
2. From the Styles list, select the layer attributes to adjust.
3. Adjust settings using the appropriate controls.

Delete a Layer

Click and drag the layer to the trash can button at the bottom of the Layers panel, or right click the layer and choose **Delete Layer**.

Hide Layer Contents

Click the eye icon to the left of the layer name in the Layers panel. The eye disappears, hiding the layer. Click the same box to make the layer visible.

Fill a Selection or Layer **Shift+F5**

1. Use the Marquee tool, make a selection.
2. Select **Edit**, **Fill** or press **Shift+F5** to open the **Fill** dialog box. Specify a fill color and click **OK**.
or Press **Ctrl+Delete** to fill the selection with the background color.
or Press **Alt+Delete** to fill the selection with the foreground color.

Add Adjustment Layer

1. Select a layer from the Layers panel.
2. Click the **Adjustment Layer** button at the bottom of the Layers panel.
3. Select an adjustment layer from the submenu.

Group Layers


Collapse, turn off, or organize multiple layers in groups.

1. Select the **New Group** button at the bottom of the Layers panel.
2. To rename the group, double-click the group name and enter a new name.
3. Drag layers to the new group.
4. In the Layers panel, click the arrow icon or to expand/hide group content.

Apply Layer Effect

1. Select a layer from the Layers panel.
2. Click the Layer Effects icon . Select an effect from the submenu.

Mask Layers

1. Select a layer in the Layers panel.
2. Click **Add Layer Mask**  at the bottom of the Layers panel. *Working with layer masks reverts foreground and background colors to default (black and white).*
3. Using a selection tool, select areas of the layer to mask.
4. Fill the selections with foreground color (black) using the **Paint Bucket** tool.
5. Adjust mask feather and density (transparency) in the **Masks** panel.
6. *To create a mask layer using the Paint Brush tool, paint on the layer with the foreground color.*


Pixel Mask

The default pixel mask is created from resolution-based selections.

1. Select image areas to mask using either the Paint Brush or a Selection tool.
2. Use the sliders to adjust the mask density (opacity) and feather mask edges.
3. To invert the mask, click the **Invert** button within the Mask panel.
4. Select **Mask Edge** to further modify the mask edge radius, contrast, feather, etc.

Add Vector Mask

Create masks from vector-based shapes, objects, or selections.


1. Select a layer from the Layers panel.
2. Select the  Vector Mask from the Masks panel.
3. Select image areas to mask using the **Pen** or **Shape Tool**.
4. Use the sliders to adjust the mask opacity and to feather mask edges.
5. To invert the mask, click the **Invert** button within the Mask panel.
6. Select **Mask Edge** to further adjust the mask edge radius, contrast, feather, etc.

Link/Unlink Layers

1. Press **Shift** and select all layers to link.
2. Click the **Link** icon  at the bottom of the Layers panel.



3. To unlink, select layers and click the **Link** icon .

Add Text


1. In the Tools Panel, click the **Horizontal Type**  icon.
2. Using the cursor, click and insert text.
3. To resize or transform the text box, hold **Ctrl** and drag the box boundaries.

Change Text Formatting

Use the **Workspace Switcher** to select the **Typography** option for a text-specific workspace.


1. Double click the text layer to format.
1. Using the cursor, select text and use the Options bar to specify formatting.
2. In the Options bar, click **Commit Any Current Edits**  or **Cancel Any Current Edits** .
3. Select additional formatting options in the Character and Paragraph panels.

Change Text Color

1. Select text and click the color box  in the Options bar.
 2. The **Color Picker** window opens. Move the sliders or enter values to select a color. Click **OK**.
- or Select a swatch from the Swatches panel.

Use Content-Aware Scale

Alt+Shift+Ctrl+C

1. Select the layer to scale (choose **Select**, then **All** when scaling a Background layer).
2. Choose **Edit**, then **Content-Aware Scale**.
3. Select the image layer to scale.
4. Click and drag the image edge to adjust background size without distorting important visual features.
5. *Click the **Protect Skin Tones** button  in the Options Bar to preserve regions that contain skin tones (i.e. when editing photos with human subjects).*

Use Content-Aware Fill

Shift+F5

1. Select the object or area needing cov-

ered.

2. Choose **Edit**, then **Fill**.
3. make sure that **Content-Aware** is selected and choose **ok**.

Add Layer Adjustment


1. Select the **Adjustment Panel**.
2. Choose an adjustment type.
3. Use the panel controls to adjust the layer properties.

Add Selection Adjustment

1. To apply an adjustment to a specific color area choose **Select**, then **Color Range**.
2. Use the eyedropper tool to select the color range to adjust.
3. Use the adjustment controls to adjust the selection properties.

Use Free Transform

Ctrl+T

1. Select the layer to transform from the layers panel or use a selection tool to select the area to transform.
 2. Choose **Edit**, then **Free Transform**. *Note the appearing transform handles and registration (rotation) points.*
- or Choose **Edit**, then **Transform** and select a transformation type from the list.
3. Drag handles and boundary lines to transform the object.
 4. Click the **Warp**  icon in the Option Bar and drag lines to warp selection.
 5. Press **Enter** to accept changes.
- or Press **Esc** to remove the transform handles without accepting changes.

Other Transformations

Scale - Adjust image height and width.

Scale Proportionately - Scale image while maintaining original proportions.

Rotate - Rotate image about a point.

Warp - Manipulate or distort selection.

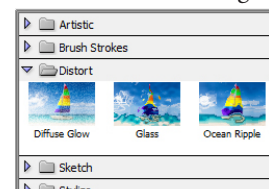
Skew - Apply a slant to an image.

Perspective - Modify the layer angle and perspective.

Distort - Distort image by stretching image boundaries and edges.

Apply Filter

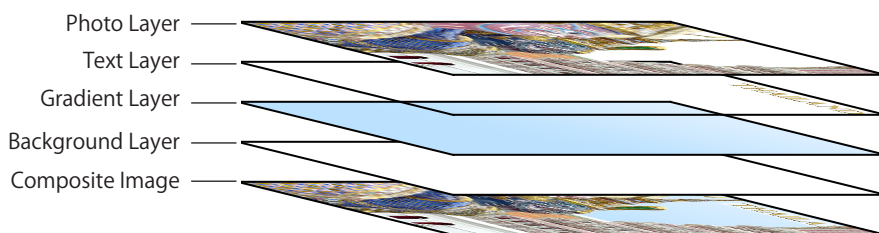
1. Select a layer from the Layers panel.
2. Select **Filter**, then **Filter Gallery**.
3. Choose filters from the category view.



4. The preview box on the left allows you to see the filtered effect.
5. Click **OK** to apply the filter.

What's a layer?

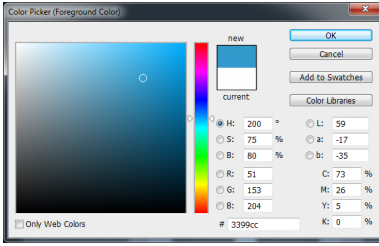
A layer can be an image, text, an effect, or a background. Layers are used in Photoshop to keep graphic data separate.



Change Fore/Background Color


From the Tools Panel:

1. Click the Tools Panel foreground or background color box .



2. In the Color Picker window, move the manual sliders, enter values, or click in the color window itself to select colors.
3. Click **OK**.

From the Color Panel:

1. Click the foreground or background color box  in the Color panel.
2. Move the sliders, enter values, or click in the color picker spectrum at the bottom of the panel to select colors.

Refine Edge

Taking you selection to the next level:

1. Make a selection
2. Choose the refine edge button in control pannel.
3. Move sliders or use the edge detection to refine edge.

Auto Color Shift+Ctrl+B

Select **Image, Auto Color** to automatically adjust color and contrast levels.

Auto Tones Shift+Ctrl+L

Choose **Image, Auto Tone** to automatically adjust overall image tones.

Auto Contrast Alt-Shift-Ctrl+L

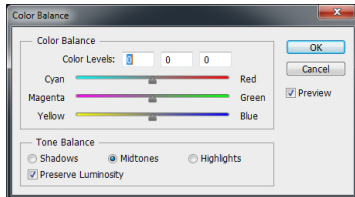
Choose **Image, Auto Contrast** to automatically adjust the levels of contrast.

Adjust Levels Ctrl+L

1. Select **Image, Adjustments, Levels**.
2. Move the sliders, or enter input/output values.
3. Click **OK** to apply changes.

Adjust Color Balance Ctrl+B

1. Select **Image**, then **Adjustments**, then **Color Balance**.



2. Adjust Cyan, Magenta, and Yellow values manually by entering values or manipulating sliders. Click **OK**.

Adjust Brightness/Contrast

1. Select **Image, Adjustments, Brightness/Contrast**.
2. Move the sliders or enter input/output values.
3. Click **OK** to apply changes.

Hue/Saturation Ctrl+U

1. Choose **Image, Adjustments, Hue/Saturation**.
2. Move sliders or enter input/output values.
3. Click **OK** to apply changes.

Shadow/Highlight

1. Choose **Image, Adjustments, Shadow/Highlight**.
2. Move the manual sliders or enter input/output values.
3. Click **OK** to apply changes.

Keyboard Shortcuts Alt+Shift+Ctrl+K

Photoshop Help F1

File

New Ctrl+N
 Open Ctrl+O
 Save Ctrl+S
 Save As Shift+Ctrl+S
 Print Ctrl+P
 Close Ctrl+W

Edit

Undo/Redo Ctrl+Z
 Step Forward Shift+Ctrl+Z
 Step Backward Alt+Ctrl+Z
 Cut Ctrl+X
 Copy Ctrl+C
 Paste Ctrl+V
 Paste Into Shift+Ctrl+V

Image

Levels Ctrl+L
 Auto Tone Shift+Ctrl+L
 Auto Contrast Alt+Shift+Ctrl+L
 Auto Color Shift+Ctrl+B
 Curves Ctrl+M
 Black & White Alt+Shift+Ctrl+B
 Image Size Alt+Ctrl+I
 Canvas Size Alt+Ctrl+C

Layer

New Layer Shift+Ctrl+N
 Group Layers Ctrl+G
 Ungroup Layers Shift+Ctrl+G
 Merge Layers Ctrl+E
 Select all layers Ctrl + Alt + A
 Merge visible layers Ctrl+ Shift + E
 Select top layer Alt + . (period)
 Select bottom layer Alt + , (comma)
 Select next layer down/up Alt + [or]
 Move layer to bottom/top Ctrl + Shift + [or]

Select

Select All Ctrl+A
 Deselect Ctrl+D
 Reselect Shift+Ctrl+D

View

Zoom In Ctrl +
 Zoom Out Ctrl -
 Show/Hide Guides Ctrl+;

Show/Hide Rulers Ctrl+R
 Show full view Ctrl+0

Text

Bold Ctrl+Shift+B
 Italic Ctrl+Shift+I
 Underline Ctrl+Shift+U

Tools

Move Tool V
 Toggle Marquee Tool M
 Toggle Lasso Tool L
 Quick Selection/Magic Wand Tool W
 Crop/Slice Selection tools C
 Healing Brush Tool J
 Brush/Pencil/Color Replacement Tool B

More Tools

Path Selection Tool A
 Clone Stamp/Pattern Stamp Tool S
 Toggle Eraser Tool E
 Gradient/Paint Bucket Tool G
 Rotate View Tool R
 Dodge/Burn/Sponge Tool O
 Pen/Freeform Pen Tool P
 Horizontal/Vertical Type Tool T
 Rectangle/Other Shape Tool U
 Eyedropper/Color Sampler Tool I
 Hand Tool H
 History Brush Tool Y
 Zoom Tool Z
 Toggle fore/background color X
 Toggle Screen Modes F
 Toggle 3D Rotate Tool K
 Toggle 3D Orbit Tool N
 Increase/Decrease Brush Size [or]
 Adjust Brush harness Shift+[or]
 Content-Aware Scale Ctrl+Alt+Shift+C
 Fill Shift+f5

Questions?

Visit train.byu.edu to find more resources for Adobe Photoshop or to schedule your next Photoshop class.