# How to blend, feather, and smooth

Quite often, you need to select part of an image to modify it. When you select uniform geometric areas—squares, circles, ovals, rectangles—you don't need to worry too much about getting the selection exactly right. Unfortunately, most of the selections you'll make in Adobe Photoshop are likely to be irregular shapes, such as people, trees, or flags. In the example (**Figure 1**), the selection of the ship has plenty of irregular edges, most notably in the sails.



*Figure 1 A sample of an irregular selection*

Photoshop's smoothing, feathering, and blending features help you manage such irregular selections.

- *Smoothing:* Reduce the jagged edges that often result from making selections with one of the lasso tools.

- *Feathering:* Soften a selection's edges by making a boundary area between the selection and the pixels behind it. Feathering is especially useful when you copy a selection to a new background. A selection's jaggedness may be emphasized because of contrast between the selection and its new background. Feathering helps reduce this jaggedness.

- *Blending:* The way colors appear when overlaid—when one layer overlays another, for example. You can fine-tune the way a selection appears by adjusting how the selection blends with its background. Photoshop provides a wide range of blending options.

Download the assets used in this tutorial here.

## Smoothing and feathering with the Refine Edge command

You can use the Refine Edge command to change your selection and preview these changes over a dark or light background. This makes it easier to edit your selection before you copy and paste it elsewhere.

### To smooth and feather an image:

1. Start Photoshop and open an image.

2. Double-click the **Background** layer.

   The **New Layer** dialog box opens (**Figure 2**).

3. Rename the layer or accept the default name.

4. Click **OK** to close the **New Layer** dialog box.

5. Select the **Lasso Tool** in the Tools panel (**Figure 3**).

   **Note:** Some users find the **Polygonal Lasso Tool** easier to use because you can make a series of short segments instead of one continuous line. To access the Polygonal Lasso tool, click the **Lasso Tool** and hold down the mouse button.

6. Using the **Lasso Tool**, select part of the image.

   Preferably, select some irregular shapes like the sails in the example (**Figure 1**).

7. Complete the selection by closing the selection loop, and release the mouse.

   For more information on making selections, see the *How to use selection tools* Photoshop guide.

8. Click the **Select and Mask** button.

   The **Select and Mask** panel appears (**Figure 4**).

   The selection appears on a dark background by default. You can choose a different background option in the **View Mode** area. White or black will be most useful in adjusting smoothing and feathering.

9. Under **Global Refinements**, drag the **Smooth** slider to the right. Any jagged edges become smoother.

10. When you are satisfied with the selection's appearance, release the mouse button.

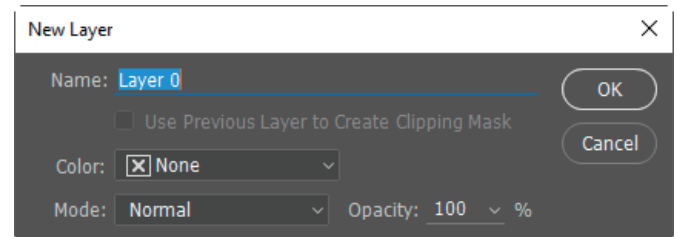11. Also in **Global Refinements**, drag the **Feather** slider to the right.
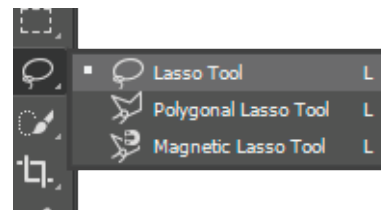


*Figure 2 New Layer dialog box*



*Figure 3 Lasso tool*
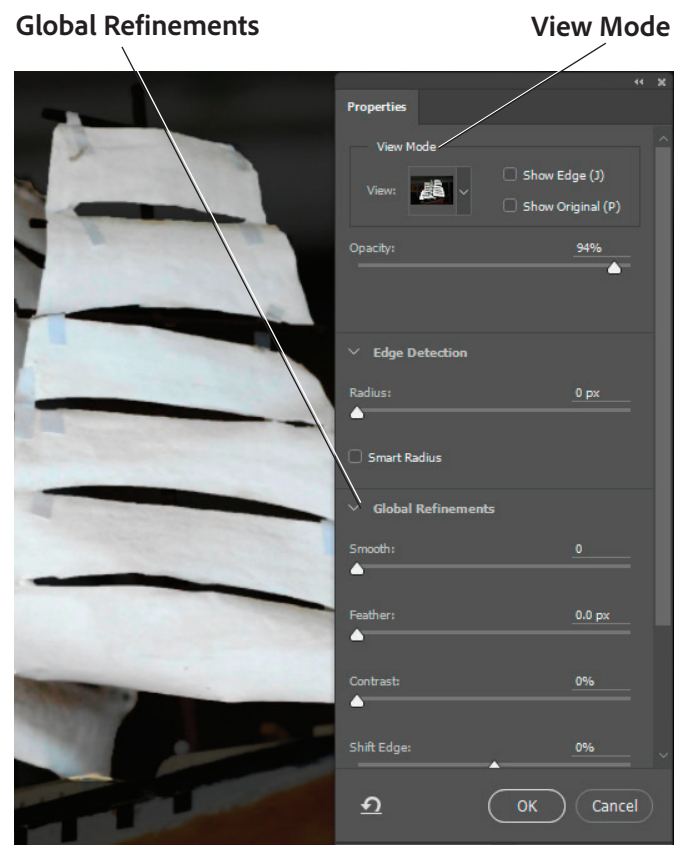
**Global Refinements**          **View Mode**



*Figure 4 Select and Mask panel*

The outline of the selection becomes blurred. This is the effect of the feathering.

It is best to limit feathering to 3–5 pixels. Increasing the feathering beyond 5 pixels can produce interesting effects, but unless these effects are part of your design goals, you will not want to apply them.

12. Under **Output Settings**, click the **Decontaminate Colors** option.

    **Decontaminate Colors** replaces color fringes with the color of the subject. Because this option changes pixel color, it requires output to a new layer or document, preventing unexpected changes to the current layer. You can accept the default **Output To: New Layer With Layer Mask** option (**Figure 5**).

13. When you are satisfied with the selection's appearance, click **OK** to close the Select and Mask panel.

14. Open the **Layers** panel.

    Notice that now the selection is on a new layer with layer mask

15. Click the Create A New Layer button to add a new layer (**Figure 6**).

16. In the **Layers** panel, drag the new layer below the layer mask.

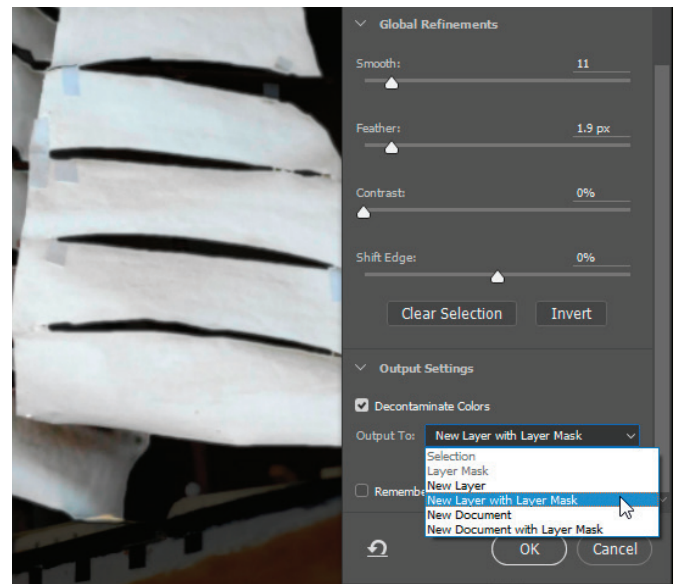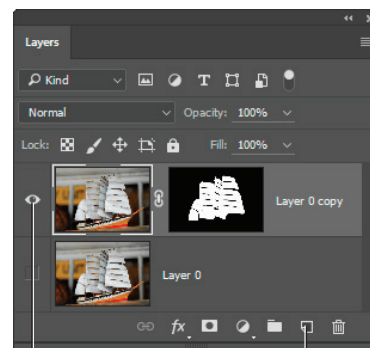17. Select the Paint Bucket tool in the Tools panel (**Figure 7**).



*Figure 5* Select and Mask panel, Output Settings



**Turn visibility on**     **Create A New Layer button**

*Figure 6* Layers panel

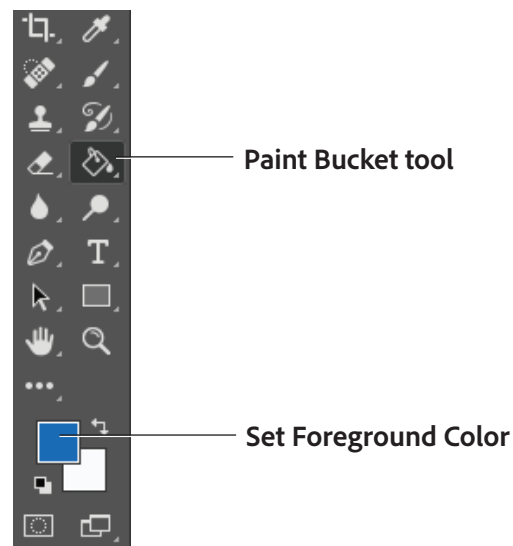

**Paint Bucket tool**

**Set Foreground Color**

*Figure 7* Tools panel

18. Click The Set Foreground Color selection box in the Tools panel.

    The **Color Picker** opens (**Figure 8**).

19. Select a color for the background layer behind the layer mask.

20. Click **OK**.

    Make sure the Paint Bucket tool is still selected.

21. Click in the new layer to add a new background color.

    Observe that the background layer now displays a thumbnail of a solid color (**Figure 9**).

22. (Optional) To change the opacity of the solid color layer, enter a value between 0% and 100% in the set **Opacity** text area (**Figure 9**). For example, **Figure 10** has the opacity set to 70% and the visibility of **Layer 0** is turned on.

    The selection now appears on a new transparent, colored background (**Figure 10**).
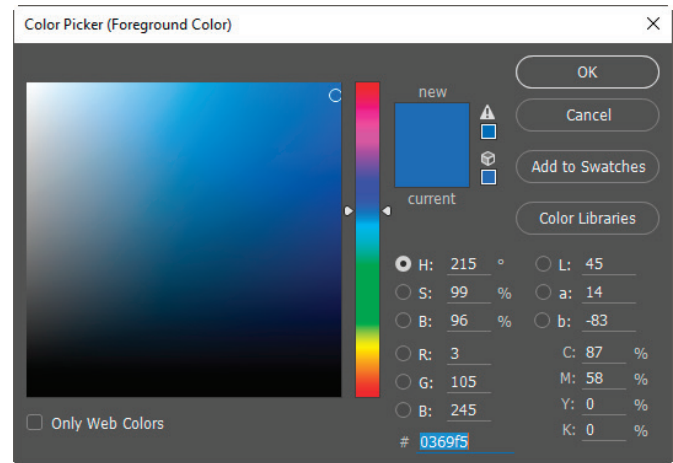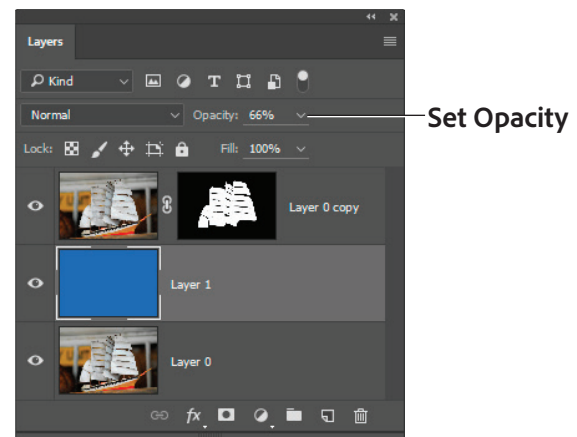


**Figure 8** Color Picker



**Figure 9** Layers panel with solid color layer



**Figure 10** Selection on layered background

## Layer blending options

Blending options let you determine how colors in the upper layer—known as the *blend color*—and the lower layer— known as the *base color*—blend with one another.

Photoshop offers a wide range of blending modes. A few are defined here. For more information on blending modes, see the topic "List of Blending Modes" in Photoshop Help. Blends only apply where the two layers overlap.

- *Lighten:* Photoshop looks at the colors in each layer and selects the lighter of the base or blend color as the result color. Pixels darker than the blend color are replaced, and pixels lighter than the blend color do not change.

- *Darken:* Photoshop looks at the colors in each layer and selects the darker of the base or blend color as the result color. Pixels lighter than the blend color are replaced, and pixels darker than the blend color do not change.

- *Color Dodge:* Photoshop compares the colors in each layer and brightens the base color to reflect the blend color by decreasing the contrast.

- *Hue:* Photoshop creates a new color with the luminance and saturation of the base color and the hue of the blend color.

Because you can preview these changes, the best way to decide which mode works for you is to experiment with different blends.

### *To apply blending options to a layer:*

1. Open an image with at least two layers.

2. Click the top layer to select it.

3. Choose **Layer > Layer Style > Blending Options**. The **Layer Style** dialog box appears (**Figure 11**).
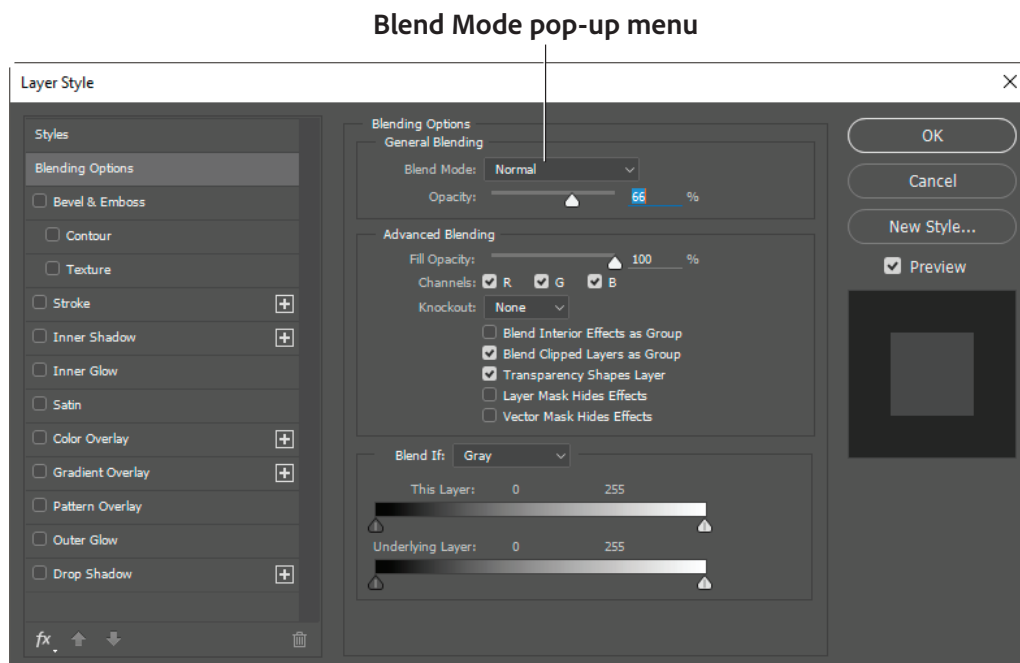
*Figure 11 Layer Style dialog box*

4. Make sure the **Preview** option is selected, so you can observe your changes as you make them.

5. Select **Lighten** from the **Blend Mode** pop-up menu. Observe the results (**Figure 12**).

6. Select **Darken** from the **Blend Mode**e pop-up menu. Observe the results (**Figure 12**).

7. Select **Color Dodge** from the **Blend Mode** pop-up menu. Observe the results (**Figure 12**).

8. Select **Hue** from the **Blend Mode** pop-up menu. Observe the results (**Figure 12**).
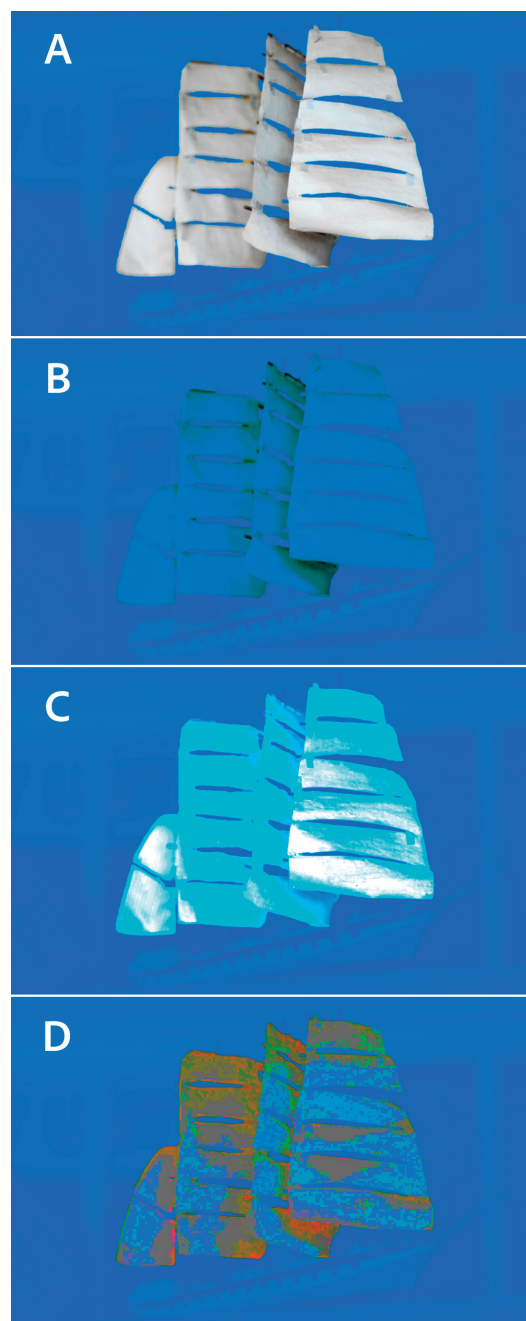


*Figure 12 Blending modes:* **A.** *Lighten upper-left* **B.** *Darken upper-right* **C.** *Color Dodge lower-left* **D.** *Hue lower-right*

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