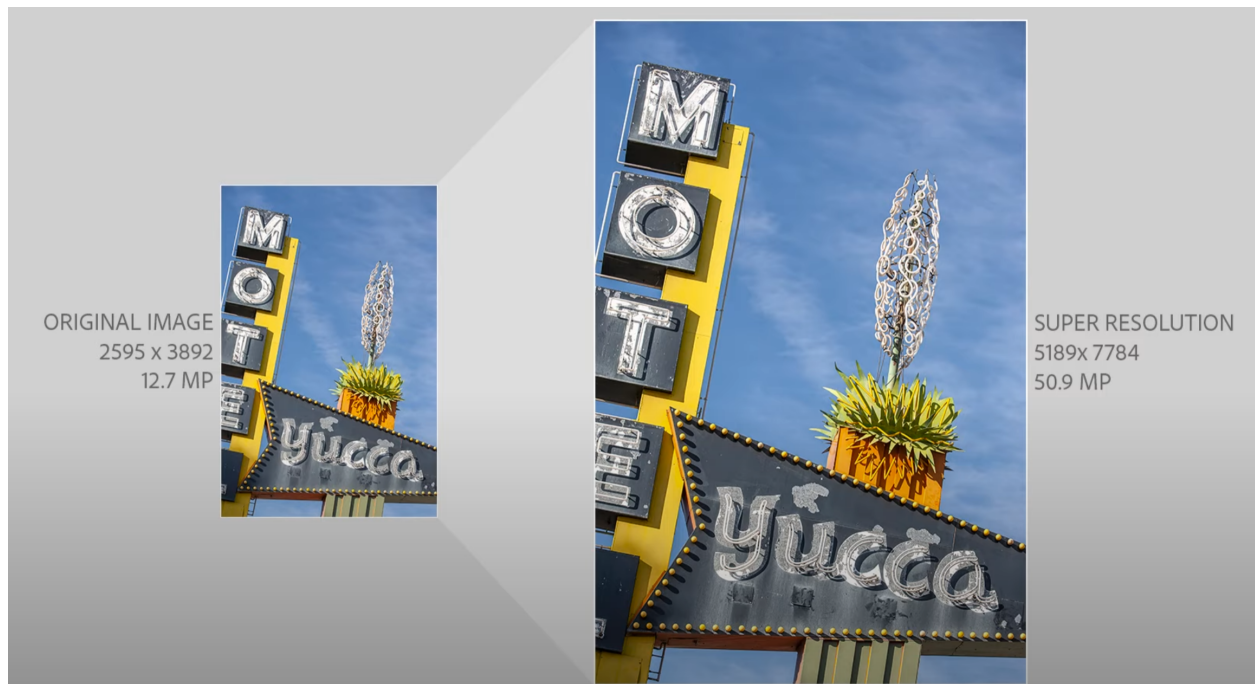


New features in Photoshop – through 2021

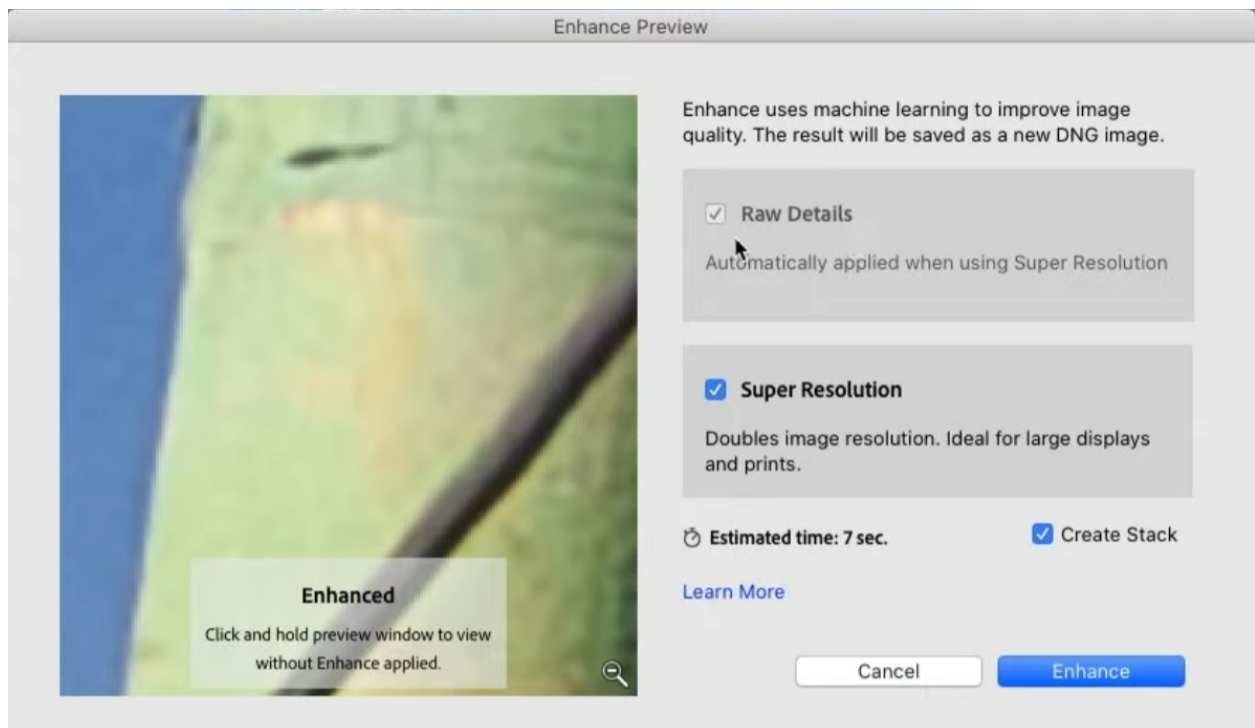
Camera Raw and Lightroom

Super Resolution



Open the image in Adobe Camera Raw or go to the Develop tab in Lightroom.

Right click on the image and select > Enhance



New features in Photoshop – through 2021

- The image becomes twice as large in dimensions and four times larger in total pixel count. e.g. A 3160 x 2420, 24mp image, becomes 5320 x 4850, 96mp.
- Start with the best resolution file – a raw file, if you have it
- Might want to then also try the Sharpening in the Details panel and/or the Texture and Clarity sliders in the basic panel
- It cannot be applied multiple times to the same image
- The original cannot be super large to begin with, like a multi-image panorama.
- A new .dng file (Adobe Digital Negative format) will be created
- You can batch process with this function. Select all the images you want to upscale and then choose Enhance. It will do the same thing to all of them.

Fill uneven edges in panoramas

- Select all images from which you want to make a panorama. Select Photo > Photo Merge > Panorama from the Lightroom menu
- In Adobe Camera Raw, after opening all the images, select them all in the Filmstrip, then hover over any image until you see the three-dot icon. Click on that and select Merge to Panorama. ACR may automatically crop the image so there are no uneven edges
- “Boundry warp” does a good job of filling in gaps around the edges, but so does clicking on the Fill Edges box.
- You can also combine Boundry Warp and Fill Edges

New features in Photoshop – through 2021

Photoshop

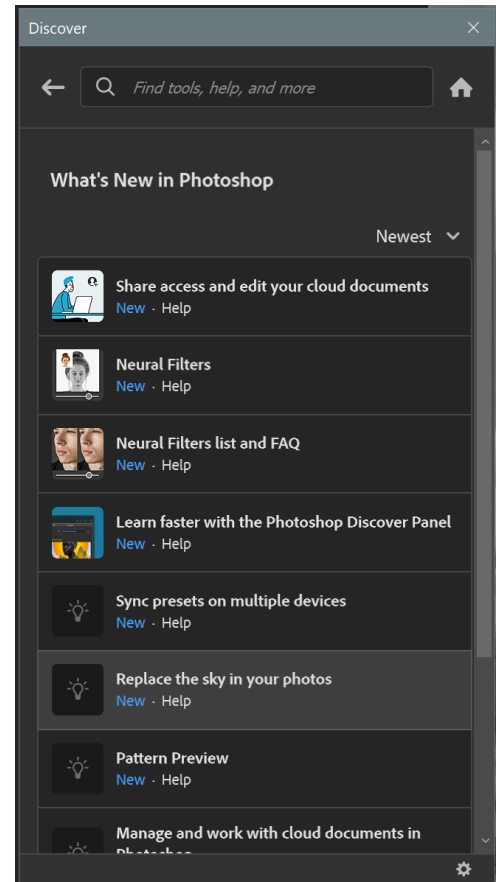
Learn directly in the app – select Help > What's new from the menu or just click on the magnifying glass icon in the upper right of the screen. (See Discover panel to the right)

“Save As” function has changed

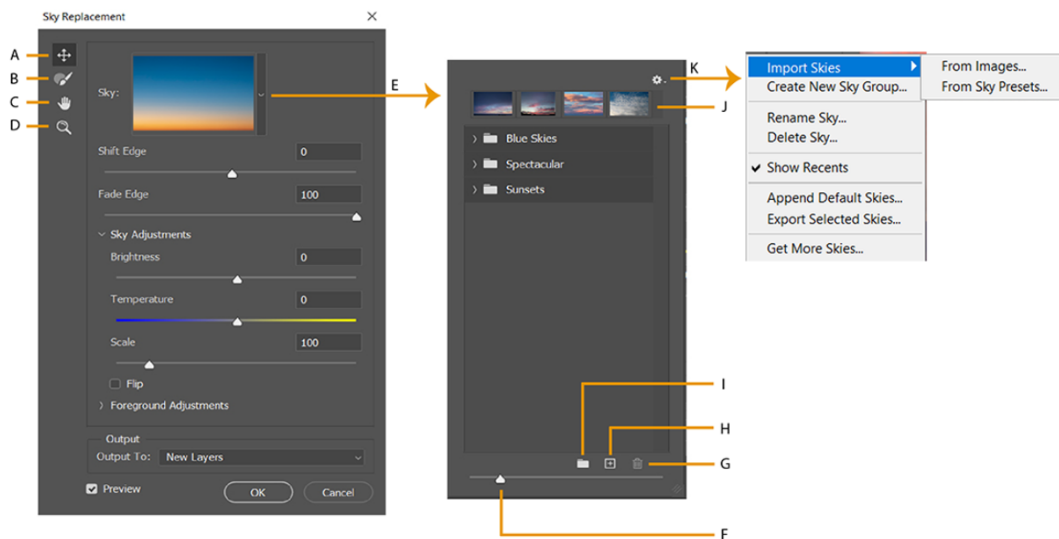
- You will no longer find the jpg format in the Save As function
- To save a jpg or png, select File > Save a Copy (or File > Export > Export As)
- The purpose behind the change – now Save As only saves file types that maintain your layers.

Sky replacement

- Select Edit > Sky Replacement from the menu
- Keep in mind, if you use this for a competition image, **you must use a sky photo that you took, not a stock photo** supplied by this feature in Photoshop.



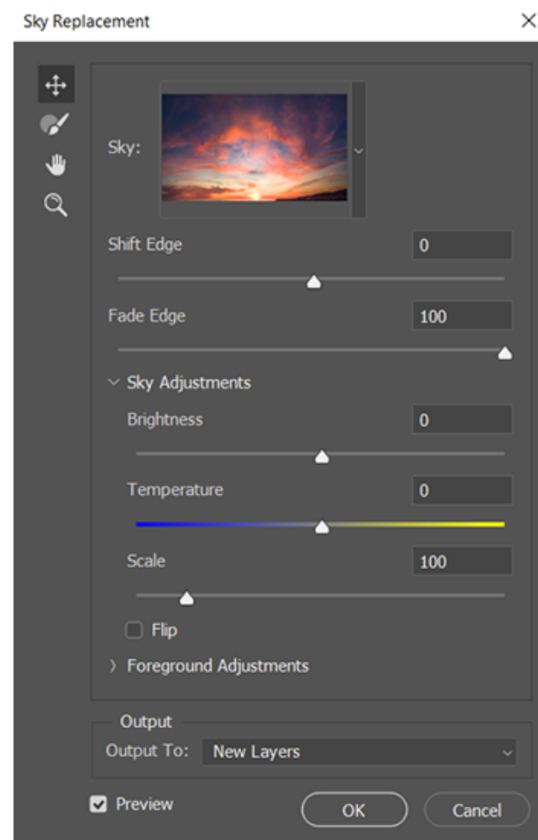
New features in Photoshop – through 2021



A. Sky Move tool B. Sky Brush C. Hand Tool D. Zoom Tool E. Manage sky presets F. Preset Preview Zoom G. Delete Skies H. Import skies from images I. Create a new sky group J. Recently used skies K. Sky Preset Menu

In the **Sky Replacement** dialog, you can set the following options:

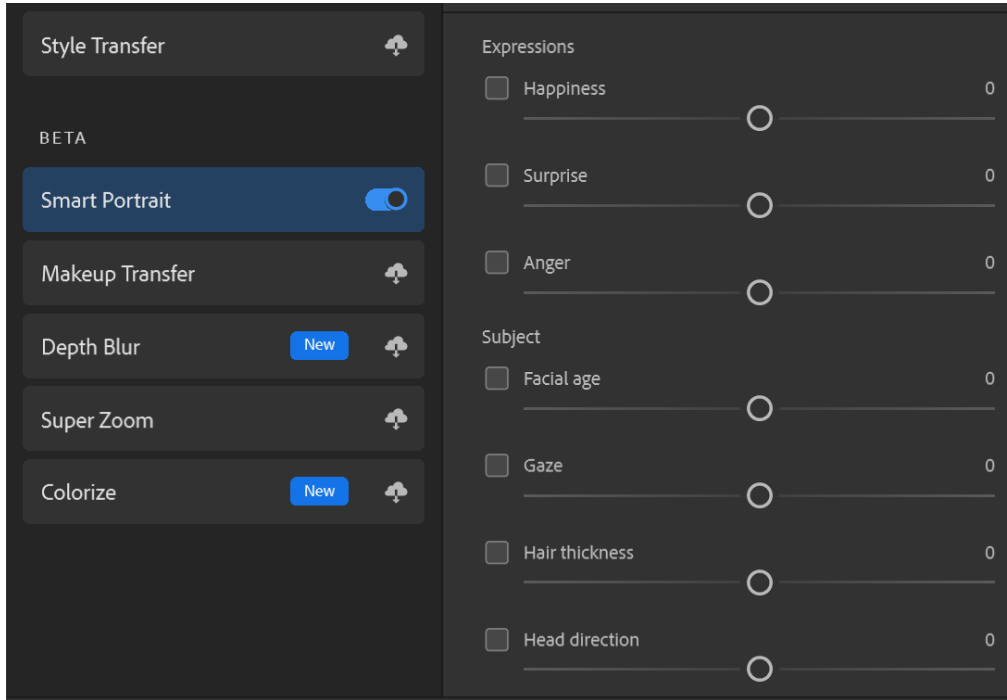
- **Shift Edge:** Determines where the border between the sky and the original image begins.
- **Fade Edge:** Sets the amount of fading or feathering from the sky image to the original photo along the edges
- **Brightness:** Adjusts the brightness of the sky
- **Temperature:** Adjusts the temperature of the sky warmer or cooler
- **Scale:** Resizes the sky image
- **Flip:** Flips the sky image horizontally
- **Lighting mode:** Determines the blending mode used for lighting adjustments
- **Lighting Adjustment:** Opacity slider that lightens or darkens the original image where it blends with the sky - a setting of zero will not make any adjustments
- **Color Adjustment:** Opacity slider that determines how strongly the foreground is harmonized with the sky colors - a setting of zero will not make any adjustments
- **Output:** This allows you to select whether the changes to the image are placed on **New Layers** (named Sky Replacement Group) or a **Duplicate Layer** (single flattened layer)



New features in Photoshop – through 2021

Neural Filter

- Select Filter > Neural Filters – provides changes in facial expressions, etc.

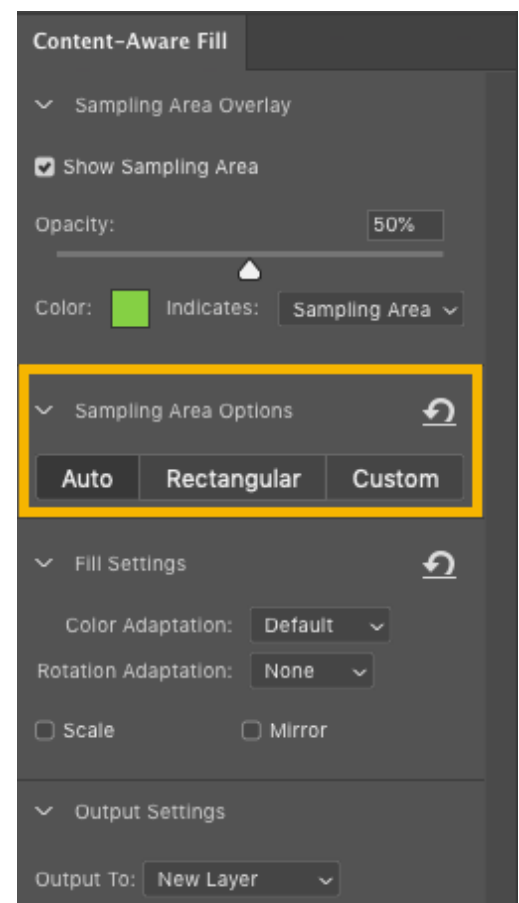


Enhanced Content-Aware Fill - Content-Aware tracing tool

Three new **Sampling Area Options** have been added to the Content-aware Fill workspace. You can use these options to determine the sampling area in your image where you want Photoshop to look for source pixels to fill content.

- **Auto:** Uses content similar to surrounding fill area.
- **Rectangular:** Uses rectangular region around fill area.
- **Custom:** Uses a manually defined sampling area. You identify exactly which pixels to fill from.

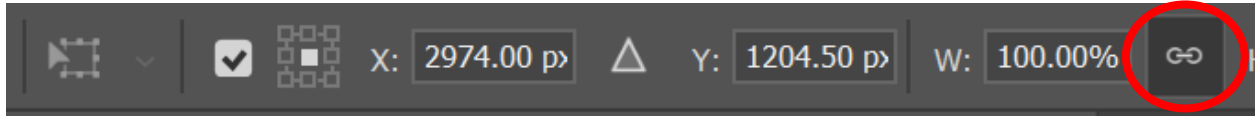
To use these options, open an image and select an area to fill. Then choose **Edit > Content-Aware Fill**. The **Sampling Area Options** appear in the Content-Aware Fill panel on the right side of the workspace.



New features in Photoshop – through 2021

Transform tool changes

- The **default** transform behavior is now **proportional scaling** for all layer types and objects, indicated by the **Maintain Aspect Ratio** button (Link icon) in the ON state in the Options bar.

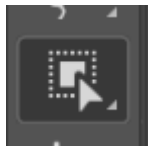


- To change the default transform behavior to **non-proportional scaling**, simply click the **Maintain Aspect Ratio** button to turn it OFF.
- The **Shift** key, while pressed, now acts as a toggle for the **Maintain Aspect Ratio** button. If the **Maintain Aspect Ratio** button is ON, the Shift key toggles it OFF while pressed and vice versa.
- Photoshop now remembers your last transform behavior setting—proportional or non-proportional scaling—it will be your default transform behavior when you start Photoshop the next time.

Switching back to the legacy transform behavior:

From the menu bar, choose **Edit (Win)/Photoshop (Mac) > Preferences > General**, then select **Legacy Free Transform**.

Object Selection tool - define a region and PS will find the object



The Object Selection tool is now the default tool in the toolbar, instead of the Quick Selection Tool.

Draw a rectangular region or lasso around the object and the **Object Selection** tool will automatically select the object inside the defined region, speeding up even the most complex selections.

You can access the **Object Selection** tool the following ways:

- From the main application Tools panel in Photoshop, located in the same group as the **Quick Selection** and **Magic Wand** tool.
- From the Tools panel in the **Select and Mask** workspace.

Select & Mask enhancements

- refine hair
- Color Aware
- Object Aware

New features in Photoshop – through 2021

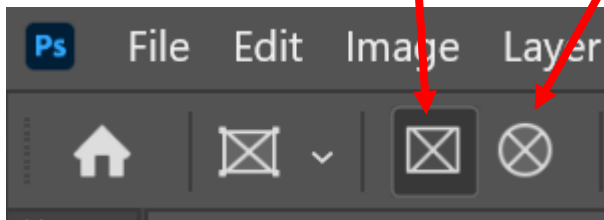
View Actual Size

Select **View > Actual Size** from the menu for viewing your document at **Actual Size**. With **Actual Size**, Photoshop uses hardware information from attached displays to calculate an appropriate zoom factor to display your image at its physical size on screen, for instance a 7-inch-wide image would appear as 7 inches wide on screen.

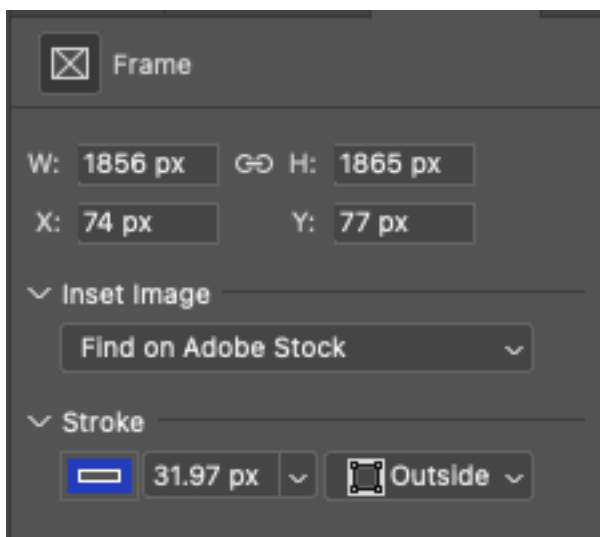
Frame tool



You can make square/rectangular frames or circular frames – click the appropriate icon on the tool bar under the menu



Once a frame has been added, you can adjust the color and dimensions of the frame in the Properties panel:



If you want to place a photo inside the frame, select **File > Place Embedded** from the menu and select a photo. It will be confined within the frame.