

Working With Perspective

Photos are 2-dimensional images usually of 3-dimensional objects or scenes. When a photo is taken with a camera there is often some perspective errors due to horizontal or vertical camera tilt. Photoshop provides a range of tools that try to repair these errors whilst retaining the perspective of the image.

Straightening an Image

When you simply want to straighten an image, the RULER TOOL can be used. The RULER TOOL measures the angle of tilt in a photo.

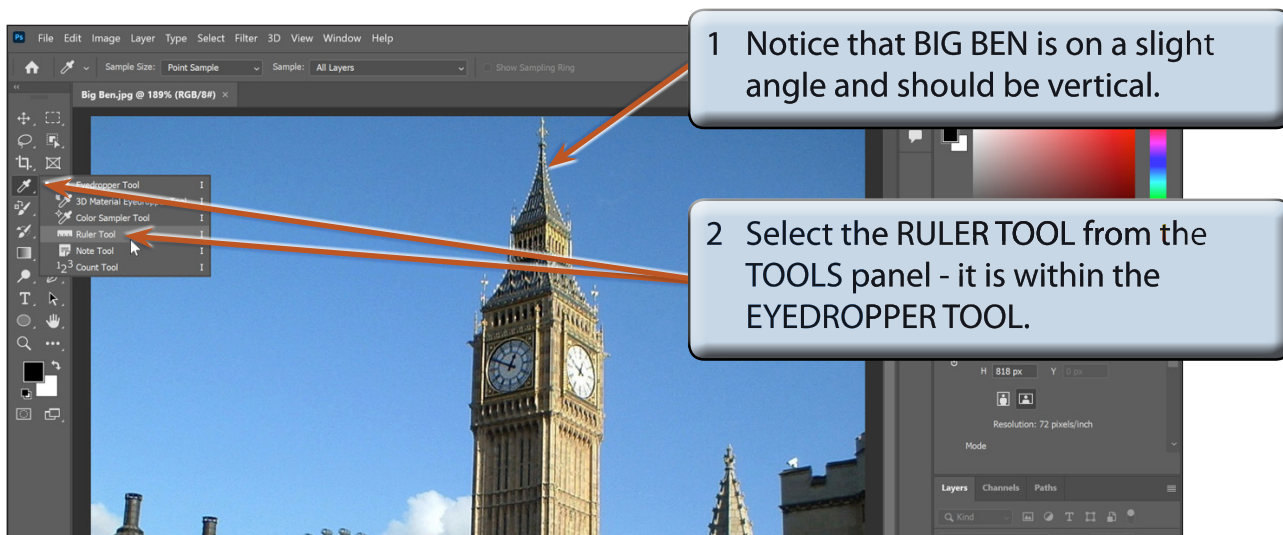
A Loading the Sample Photo

- 1 Load Photoshop or close the current file and select OPEN from the WELCOME screen or FILE menu.
- 2 Access the PS SUPPORT FILES, open the CHAPTER 25 folder and open the file:

Big Ben

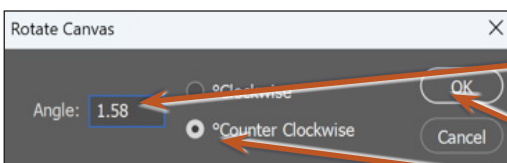
- 3 Press **CTRL+0** or **COMMAND+0** to set the view to FIT ON SCREEN.

B Applying the Ruler Tool



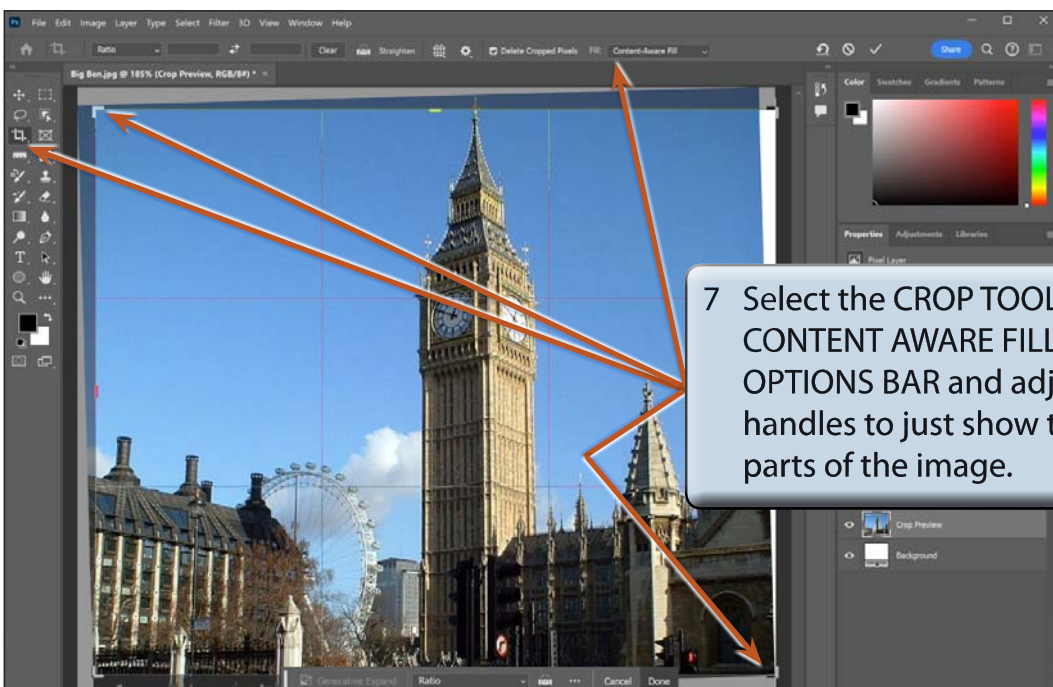


4 Display the IMAGE menu, highlight IMAGE ROTATION and select ARBITRARY.



5 The angle of tilt is measured and displayed in the ANGLE box.

6 Leave °COUNTER CLOCKWISE selected, which is the direction to straighten the image and select OK.



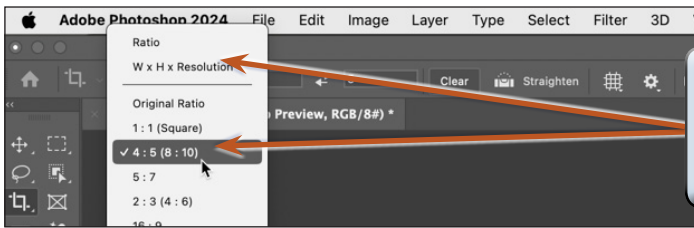
7 Select the CROP TOOL, select CONTENT AWARE FILL in the OPTIONS BAR and adjust the frame handles to just show the visible parts of the image.

NOTE: You can use the handles to adjust the crop frame so that just specific parts of the image are selected.

- 8 Double click inside the crop frame to complete the crop, then select the MOVE TOOL to turn the crop 'handles' off.

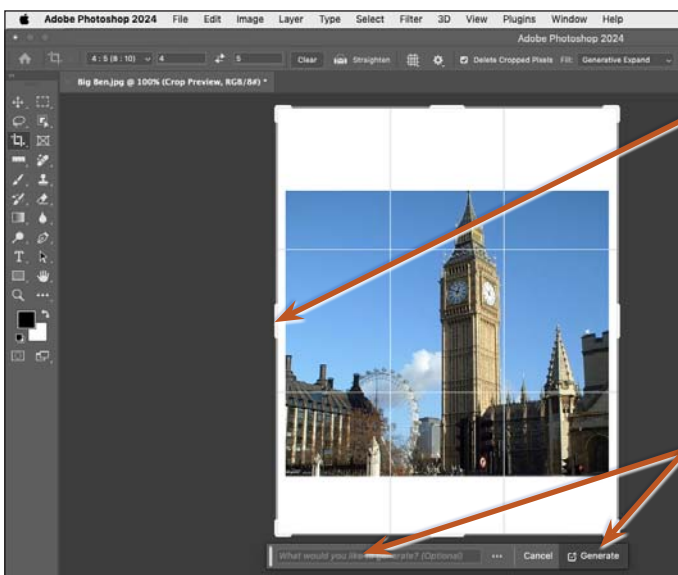
C Generative Expand

Sometimes when you crop an image, a significant part of that image may be removed. The GENERATIVE EXPAND option fills areas around an image with content. It works in a similar way to GENERATIVE FILL.



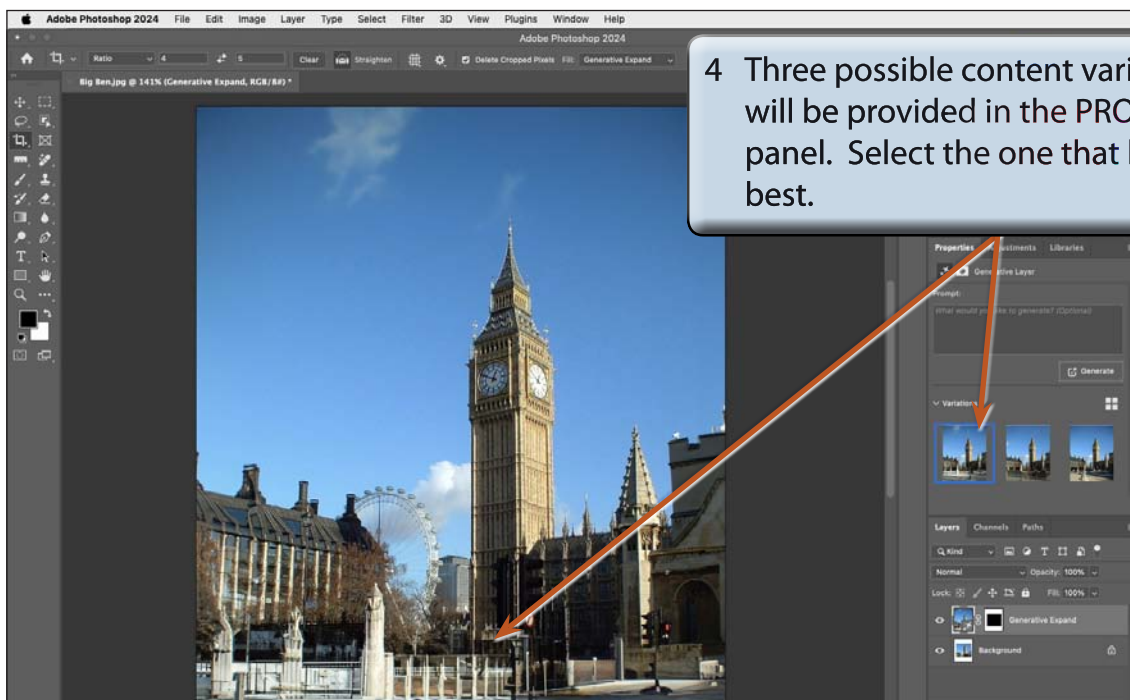
- 1 Select the CROP TOOL and, in the OPTIONS BAR, select the 4:5 from the RATIO box.

NOTE: This will set the crop frame so that when it is expanded it will be restricted to a ratio of 4 units across for every 5 units down.

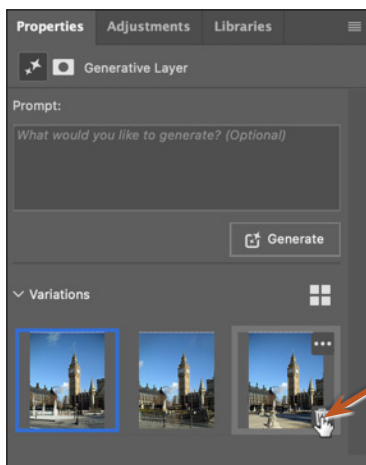


- 2 Reduce the view so that you can see the whole image and some of the canvas area then drag a crop handle to set the frame to be outside the image.

- 3 In the CONTEXTUAL TASK BAR click in the GENERATIVE EXPAND box, leave it blank and click on GENERATE.



4 Three possible content variations will be provided in the PROPERTIES panel. Select the one that looks the best.



5 It is good practice to remove any variations you don't want, so move the pointer over each unwanted variation and click on its TRASH CAN icon to remove it.

NOTE: As with GENERATIVE FILL, you can click in the GENERATIVE EXPAND box and suggest fill content if the program does not provide suitable content with the GENERATIVE EXPAND box left blank.

6 Select the MOVE TOOL to turn off the crop 'handles' and save the image in your STORAGE folder if you wish to.