

SHOOTING AND CREATING A 2 LAYER STEREO FILE

1. Shoot a stereo pair of images by taking one picture of a scene, then a second by moving slightly to the right or left by just two inches or so. Be careful to keep the bottom of the frame consistent between shots, and whatever is in the center in the distance should remain in the center.
2. In Photoshop, open both images. Activate the Left image. Using the Move Tool, click and drag the Left image onto the Right image, and hold the shift key down when unclicking.
3. The Left image is now in a layer above the Right image.
4. Double click the name of the Left image layer, and name it "Left". Then double-click the name of the Right image layer. Since it is a locked background layer you must convert it into a regular layer, and change the name to "Right".
5. Align the images by making the top layer ("Left") 50% opacity and moving it so that the closest foreground element of each image is aligned. Other elements in the image may be separated horizontally, but should be on the same vertical level. (Make sure that Snap is OFF) Additional rotation may be needed for good alignment.
6. Turn the opacity of the Left image layer back up to 100%. Then turn off the visibility of the the Right image layer. Now use the Crop Tool to crop down to the remaining visible image. Once cropped, turn the visibility of the Right layer back on.
7. Save the file as a .PSD or .TIF file with layers, for easy conversion to other stereo formats like Anaglyph. If you've already created such a file, you could open it and start from this point.

ANAGLYPHS

First, open your layered stereo image file (.PSD or .TIF) with the Left image layer above the Right image layer.

1. Select the Left layer by clicking on it once, then click the tab for the Channels palette.
2. Click once on the Red channel to select it.
3. Use Select All (Cmd-A) and Copy (Cmd-C) to make a copy of the Red channel. Then click the RGB channel back on.
4. Activate the Layers palette and turn off the visibility of the Left layer.
5. Select the Right layer by clicking on it once.
6. Activate the Channels palette and click on the Red channel to select it.
7. Paste (Cmd-V) the Red channel of the Left image into the Red channel of the Right image layer.
8. Click on the RGB channel at the top of the Channels palette to activate all channels.
9. Put on a pair of Red/Cyan 3D glasses, Red lens over Left eye, and VOILA!
10. Delete the Left image layer when satisfied.

STEREO CARD

First, open your layered stereo image file (.PSD or .TIF) with the Left image layer above the Right image layer.

1. Go to the Image menu and choose Image Size. Check resample, Bicubic Sharper. Set the width to 3 inches, and the resolution to 300 pixels per inch. Click Okay.
2. Go to the Image menu and choose Canvas Size. Check the box for Relative. Set the width to the same number of pixels as your current width (should be 900). Select the righthand middle anchor point. Click Okay.
3. Select the Left image layer, and drag that image to the left to fill the empty area. It helps to have Snap turned on.
4. You should have no empty areas at the edges or middle of your image pair.
5. Flatten the image.

FOR PHONE

You can now take this side-by-side image pair and resize it for your phone.

1. In Image > Image Size, set the pixel width as the pixel length of your phone's screen, and the resolution to 72.
2. Save this as a .JPG, with a medium to high quality (I recommend 70-80).
3. Load this on your phone and view with proper device.

2XGA

First, open your layered stereo image file (.PSD or .TIF) with the Left image layer above the Right image layer. There are two methods you can follow, one which may likely crop your image slightly, but is simpler, and one which will maintain your entire composition.

Method 1 (simpler, but will crop your image slightly)

1. Select the Crop tool and set the fields in the options bar this way: Width "1024 px", Height "768 px", Resolution "72".
2. Now crop your image. You'll notice that the aspect ratio is constrained and likely doesn't exactly fit your image. Do your best to get as much of your image as you can. Finish the crop by double-clicking inside the crop area or hitting Return/Enter. Now jump to step Five of Method 2.

Method 2 (less simple, but will maintain your entire composition)

1. Go to Image > Image Size. Set the resolution to 72 ppi, check the box that says "Resample Image" and pick either Bicubic or Bicubic Sharper from the pull down menu.
2. In the pixel dimension fields, enter 1024 for the width. If the height is now less than 768, click OK and skip to step three. If the height is more than 768, change it to 768 and click OK.
3. Go to Image > Canvas Size. Change the denomination from Inches to Pixels, and set the dimensions to Width 1024 Pixels and Height 768 Pixels. Click OK.
4. Grab the Paint Can tool, and pick Black as your foreground color, make sure the Opacity is 100% and Tolerance is 0, no Anti-Alias, no Contiguous. Fill the blank areas of each layer by clicking on them with the Paint Can.
5. Go to Image > Canvas Size. Turn on Relative, and select the right middle square of the Anchor grid. Now set the Width to 1024 Pixels (not Inches!). Click OK.
6. Go to Window menu and make sure that Snap is ON. Now with the Left image layer selected, click and drag the left image to the left so that it snaps exactly into the empty space.
7. Go to the Layer menu and pick Flatten Image.
8. Save as "FileName2XGA.jpg" and make sure the color space is sRGB.