

HDR Presentation Resources

http://en.wikipedia.org/wiki/High_dynamic_range_imaging definition

<http://www.luminous-landscape.com/tutorials/hdr.shtml> Luminous-Landscape tutorial

<http://www.luminous-landscape.com/tutorials/digital-blending.shtml> article on blending two images in Photoshop for HDR, easy to do and good results

<http://www.hdrsoft.com/index.html> Photomatix software

<http://www.hdrsoft.com/resources/dri.html> FAQ Photomatix

<http://www.mediachance.com/hdri/index.html> software

<http://www.popphoto.com/popularphotographyfeatures/4472/hdr-how-to-dynamic-photo-hdr.html> article on media chance software

http://www.fdrtools.com/front_e.php software

<http://www.idruna.com/photogenicshdr.html> software

<http://www.techsupportalert.com/best-free-high-dynamic-range-hdr-software.htm> software

http://www2.cs.uh.edu/~somalley/hdri_images.html software

<http://www.debevec.org/Research/HDR/> software

<http://www.vanilladays.com/hdr-guide/> tutorial on Photomatix

<http://www.macupdate.com/info.php/id/26787/hydra> MAC HDR software

<http://runtimelog.blogspot.com/2007/07/high-dynamic-range-hdr-imaging.html> tutorial

<http://www.tabblo.com/studio/stories/view/241610> tutorial

<http://www.supportingcomputers.net/Applications/Artizen/Artizen.htm> software

http://www.photoshopcafe.com/tutorials/HDR_ps/hdr-ps.htm CS3 tutorial

<http://backingwinds.blogspot.com/2006/10/how-to-create-professional-hdr-images.html> how to blog

<http://www.stuckincustoms.com/> Austin photographer website, extensive gallery

http://handbook.outbackphoto.com/section_hdr_and_tonemapping/index.html extensive tutorials and an advocate for HDR and supporter of Photomatix, 15% discount at Photomatix with code from Digital Outback Photo

<http://www.img-galleries.com/blog/2007/08/15/why-i-hate-hdr-photo-technology-porn/> opinion

<http://www.learnelementsnow.com/blog/hdr-imaging-in-photoshop-elements-6/> HDR using Camera Raw in Elements 6 & 7

<http://www.photographybay.com/2008/04/08/how-to-single-image-hdr/> Single image HDR in Photoshop CSX

Photoshop and Elements method to increase dynamic range and remove color cast due to white balance setting

Open photo

Click on Layer>New Adjustment Layer>Levels

When a Levels enhancement is being made using the three individual channels instead of the RGB composite, the Black and White points can be determined which will remove the colorcast.

Select Red in the Channels drop down menu. To find the Black Point hold down the Alt key and click on the Black Input slider and the screen turns red. Drag the black Input slider to the right until a significant, small patch of black appears. This sets the Black Point for the Red Channel. Repeat the procedure using the Alt key and the White Input slider. The screen turns black and the slider will reveal a red patch, this sets the White Point.

Change the Channel to Green and set the Black and White points as above.

Change the Channel to Blue and set the Black and White points as above.

Click on RGB in the Channels menu.

The results are better if the Midtone adjustment is made only in the RGB composite channel and not in each individual color channel. Adjust the Midtone slider to your liking. Move the Output Level from 255 to 250 to reduce any glare.

Click OK, Flatten Layers. Done

Auto Levels will come close to the same results, depending on the individual histograms.

Summary of Matt Kloskowski's Photomatix HDR Tone Mapping Method

This is from his <http://www.photoshopper.com/members/?page=view&id=hdr-feature> NAPP tutorial where he explains the few tools he uses and then finishes in Photoshop

Light Smoothing slider-left side Grungy/right side natural

Strength slider-left side dull contrast/right side punchy toward 100

Saturation and Luminosity-fix in Photoshop

Smoothing-Highlights-used to reduce halos, can lose details if set high

-Shadows- lose details if set high

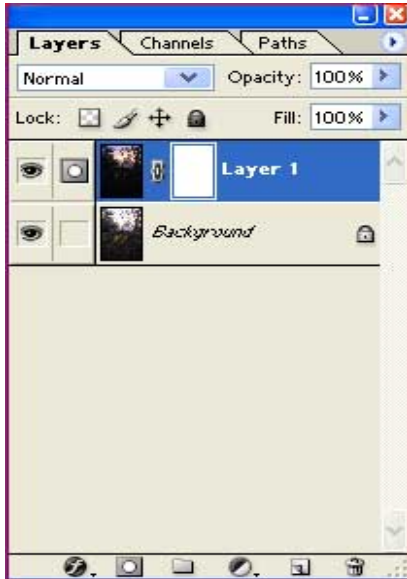
Process and save image as a Tiff file and open if it Camera Raw and adjust white balance and if necessary temperature and tint. Adjust Black slider. If using Photoshop Elements, adjust Vibrance because it is not in the Full Edit in Elements.

Move image to Photoshop and retouch and sharpen and any other enhancements.

Blending Two Image HDR

The Layer Mask-Photoshop Version

This is the easiest manual technique. Starting by pasting of the dark image on the light one, add a Layer Mask. This is done by clicking on the second icon on the lower left of the Layers palette. You will now see a white rectangle next to the image on the *Layer 1* layer.



Click on the background layer on the palette and the press Ctrl-A to select the whole image. Press, copying it to the clipboard. Now hold down the ALT key (*Option* on the Mac) and click on the white mask rectangle on the Layer 1 palette.

The whole image will now turn white. Next, press CTRL-V to paste the contents of the clipboard onto the white mask. You will now see a B&W mask image. With the B&W mask displayed go to Filter>Blur>Gaussian Blur and set the Radius to about 40 pixels. Click on the Background Layer and you're done. Flatten image.

(Thanks to George DeWolfe of CameraArt's magazine for this technique.)

The Layer Mask Two Image HDR with Photoshop Elements

This is the easiest manual technique.

Open the lighter image and then File>Place and select the darker image, and click on Place. The darker image is Layer 1 and above the lighter image.

Click on the Background layer and then create a Levels Adjustment layer, click OK and change the layer blending mode from Normal to Luminosity.

Click on Layer>Group with Previous

Click on the background layer on the palette and the press Ctrl-A to select the whole image. Press Ctrl-C, copying it to the clipboard. Now hold down the ALT key (*Option* on the Mac) and click on the white mask rectangle on the Layer 1 palette.

The whole image will now turn white. Next, press Ctrl-V to paste the contents of the clipboard onto the white mask. You will now see a B&W mask image. With the B&W mask displayed go to Filter>Blur>Gaussian Blur and set the Radius to about 40 pixels. Click on the Background Layer to view the final blending.

Click on Layer>Flatten Image

(Thanks to George DeWolfe of CameraArt's magazine for this technique.)

Jim Bilbro, 7/17/09