

Creating A Hyper Color Infrared Image from a regular image.

By: TeaMouse with GIMP 3.2.6

Another Photoshop to GIMP!



Hyper Color Infrared (470nm) is a specialized infrared camera conversion filter that captures a broader range of infrared wavelengths than standard IR, producing natural-looking, color-rich images without the need for channel swapping. But because we're trying to get something close to it in terms of infrared appearance from a regular image. Creating an exact copy of what that light might look like from a regular photo is only a guess.

Also note, this process does not work with certain colors and images. Just like any photo editing technique, there are limitations of what can be done with the process, you can only go so far. Colors to avoid using are red and orange tones. The best colors to use are any green tones, from yellowish green to bluish greens will give you the best results.

Open the "Ir Work File.png" that's included with this walk through.

Step 1

Once open, you want to duplicate it two more times for a total of 3 layers by pressing: "Ctrl + Shift + D".

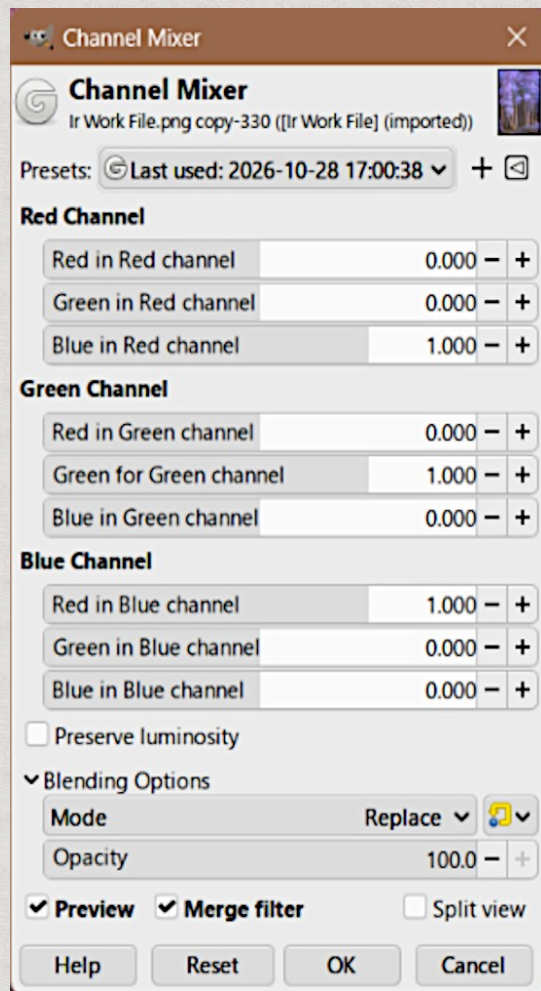
Step 2

From the main menu bar select Colors > "Invert".

Step 3

Now change the blending mode of the top layer to "Lch Color" with the Opacity set to %100, then right click the top layer and merge down. At this point your tree colors should have changed to purples and blue tones.





First select “Red” as your primary color to adjust and then change the “Hue” to minus 30. Next click the master option in the middle of the six color and adjust the saturation to plus 24 and click OK. Now your image should look like this now. In the next step, we’ll clear up the unwanted red in the background.

Step 6

Now, go to main menu, Colors > “Hue-Saturation” again adjust the following colors, with the following settings.

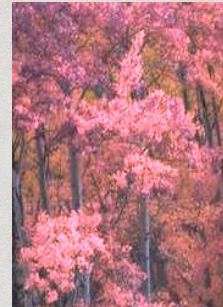
Red: Hue -15.7, Sat -5.4, Lightness -2.7
 Yellow: Hue -12.1
 Magenta: Hue 12.1
 Then click OK.

Step 4

Next go back to the main menu bar again and select the Colors > Components > “Channel Mixer” and use the setting shown on the left.

What you're doing here is swapping the red channel for the blue channel and the blue channel for the red channel and leave the green channel as is.

What this will do is change the colors of the leaves to an orangish pink tone. Your image should look like what shown here on the right. In the next step we want to change these colors to look more pinkish.



Step 5

Now, go to main menu, Colors > “Hue-Saturation” Using defaults, with preview and Merge filter checked.



Step 7 (option)

Next duplicate top layer.

Now, go to main menu, Filters > Artistic > Orton Effects.

Use all defaults and click OK.

Change Opacity to %20 and merge down.

Before:



After: Orton top layer set to %50 Opacity.



Image on the right has Google NikCollection applied to it after it had been changed to an infrared with two more adjustments using Analog Efex Pro 2. A classic camera style and then a simple subtle bokeh.

