Histogram Equalize Layers

This XTension adjusts the contrast layer by layer by using the image's histogram. Histograms are created for each layer separately and for the whole image. The XTension enhances the contrast by transforming the intensity values in each of the layer’s histograms, so that the resulting histogram approximately matches the whole image histogram.

For more information, please refer to:

http://www.mathworks.ch/help/toolbox/images/ref/histeq.html

The resulting image features the highest possible contrast, uniformly distributed over all the layers.

This method increases the contrast by adjusting the distribution of the intensities on the histogram by spreading out the most frequent values. This allows for areas of lower local contrast to gain a higher contrast without affecting the global contrast.

Define the value of the lower limits of intensities. Voxels with anintensity below the entered value are excluded from this calculation - they are interpreted as background.