

## Icon.tiff ↪ Sharpen

PixelRule.tiff ↪

Panel.tiff ↪

Some images you get from scanners or video input sources may not be very sharp. You can use the Sharpen module to correct this. Several parameters allow fine adjustment of the process of sharpening.

**Gradient size:** This is a value in pixels which defines how wide an edge has to be so it is still recognized as an edge. The bigger the value, the larger edges will be sharpened (and the longer the calculation will take.)

**Cut-Off %:** The value in this field defines the maximum change of color during the process. It will also prevent the creation of sharp black-white transitions on edges that are already sharp enough.

**Weight %:** Weight defines how many percent of the calculated value will be mixed with the underlying color.

Fig.2.eps ↪ Fig.1.eps ↪

The illustrations above show the brightness transition of a blurred edge and of an edge that has been sharpened. This algorithm is based on an optical delusion: if an edge gets longer it appears sharper.

This algorithm will not sharpen noise. This is an important difference to sharpening with linear filters.