

## **BCC Smooth Tone**

The primary purpose of this filter is to control the smoothness of an input image or clip while retaining as much of the original image detail as possible. This process is achieved via the use of the image processing algorithms that are at the heart of the filter.

Basic use of the filter is that once it has been applied to a clip, the degree of smoothing is controlled by adjustments to the Radius parameter with higher values generating a smoother result and the degree of image sharpness is controlled by making adjustments to the range parameter, with higher values preserving less image detail.

Herewith are several image examples of the filter result and beneath the images you will find a complete description of each individual parameter.



## Parameter description

Method pop-up - offers three different methods for image smoothing, each utilizing a different algorithm

- fastest - quickest to set up and to render but offers less control than the smoother option
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- smoother - generates the smoothest result and offers the most control over the image sharpness

Lock Radius Checkbox - changes the value of the Y parameter to the value of the X parameter and locks them together so that when the value of the X parameter is change, the value of the Y parameter will also change by the same amount.

Radius X - used to control the amount of smoothness that is applied along the X axis of the image. Higher values generate a smoother result.

Radius Y - used to control the amount of smoothness that is applied along the X axis of the image. Higher values generate a smoother result.

Blur Cutoff - the value in this parameter determines the point at which the smoothness will cease to have any effect on the image.

Max. Deviation - used to control the amount of image detail that is preserved during the smoothing process. A value of 0 does not smooth any pixels, a value of 100 smoothes every pixel in the image.

Iterations - repeats the filter process as if the user had applied multiple versions of the filter with the same settings to the image. A value of 1 applies the filter once, while higher values will increase the number of times that the filter is applied.

Apply Mode - This pop-up contains all of the apply mode compositing options, such as Add, Multiply, Difference etc.

Apply Mix - Used to blend the currently selected Apply Mode with the Normal Apply Mode.

Mix with Original - Used to blend the filtered result with the original image.

Motion Tracker group

PixelChooser - contains the PixelChooser masking / matting parameter controls