

BCC Spiral Blur Filter

The BCC Spiral Blur filter creates a blur or smear that appears as though it is spiraling toward the center of the image.



Original Image



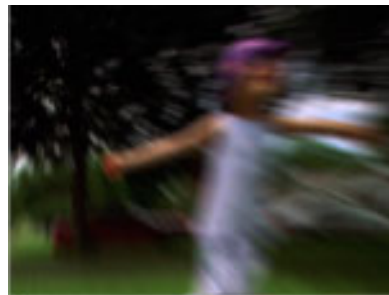
Filtered Image

The **Blur Type** menu sets the type of motion blur that is created. The choices are *Blur* or *Smear*. Smear blurs the pixels in one direction. Blur blurs the pixels symmetrically.

Center sets the coordinates of the center of the spiral effect. The following example shows a Zoom Amount of 25 applied as a Smear, with no Spin Angle.



Center X=440, Center Y=110



Center X=59, Center Y=97

Spin Angle sets the angle of the spiral effect. When Spin Angle is set to 0, no spiral is applied. The following examples show the first image above with Spin Angle applied.



Spin Angle=-5



Spin Angle=10



Spin Angle=20

Zoom Amount sets the direction of the zoom. Negative values zoom the pixels away from the viewer while positive values move the pixels towards the viewer. Animate this control to create a zooming in or out effect.

When Smear is chosen as the Blur Type, **Smear Falloff** sets the degree of falloff for the spin. Falloff is the transition between the smeared and unsmeared areas. A value of 0 creates an effect where the smearing is visible over the entire image; at a value of 100 no spiral is applied. Smear Falloff is dimmed unless Smear is chosen from the Blur Type menu.



Smear Falloff=1



Smear Falloff=100

Blur Threshold reduces the amount of color changes to each pixel by the threshold amount. Increasing Blur Threshold causes the parts of the image with abrupt changes in color to blur, while areas with subtle details remain unchanged.

The **Maximum Deviation** parameter sets the maximum deviation (based on 8-bit color) allowed for any channel. Reducing this value limits the amount any color can change. This control becomes more noticeable at values below 30. Very small amounts of Max. Deviation can be useful (especially combines with the PixelChooser) to reduce noise in video and digital stills that contain noise in their dark areas.

The **Apply Mode menu** controls how the filtered image is composited with the source image.



For descriptions of all the possible Apply Modes, see Appendix A in the User Guide.

Apply Mix controls the mix of the specified Apply Mode with the *Normal* apply mode. If the Apply Mode is Normal, Apply Mix has no affect and the parameter does not appear. If Apply Mix is 0, Apply Mode has no affect. Increase Apply Mix to blend the Apply Mode setting with the Normal apply mode

Mix with Original blends the source and filtered images. Use this parameter to animate the effect from the unfiltered to the filtered image without adjusting other settings, or to reduce the affect of the filter by mixing it with the source image.

Motion Tracker Parameter Group

The Motion Tracker parameter group allows you to track the motion of an object, then use the motion path data to control another aspect of the effect. The parameters that can be affected depend upon the filter. For example, apply the Spiral Blur filter and use the Motion Tracker parameters to track a logo on a t-shirt. Apply the Spiral Blur effect to the logo in an oval area using the PixelChooser's Distance to Point choice. For more information, see "Working with the Motion Tracker Parameter Group" on page 30.

If you are using the controls in the PixelChooser parameter group, the **Apply PixelChooser menu** determines when the PixelChooser controls are applied to the blurred image.

- Choose *Post-Effect* for the PixelChooser to affect the image before the blur is applied.
- Choose *Pre-Effect* for the PixelChooser to affect the image after the blur is applied.
- Choose *Both* for the PixelChooser to affect the image both before and after the blur is applied.

The PixelChooser Parameter Group

The PixelChooser is included in many Boris filters and provides several methods to selectively filter an image.



For more information on the PixelChooser, see Chapter 10, "The PixelChooser" in the User Guide, or open the help file for the standalone PixelChooser filter.