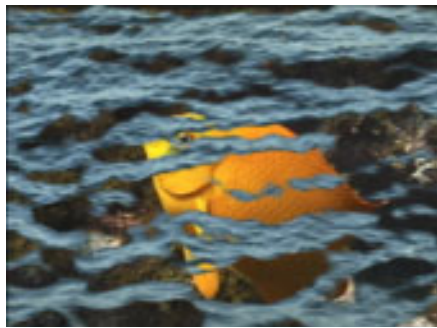


BCC Textured Wipe

The BCC Textured Wipe creates is a non-geometric wipe using the Influence layer and the Texture settings. By default, the Influence is generated from the luminance of the outgoing clip when you apply the wipe as a transition and by the Filtered clip when you apply the wipe as a filter. For more information on using the Influence controls, see “Working with the Influence and Influence Map Parameters” below.

The following example shows a Textured Wipe using Influence on the both the incoming (water) and outgoing (fish) media.



Textured Wipe (influence on incoming water)



Textured Wipe (Influence on Outgoing)

The **Animation** menu controls whether the filter auto-animates or is animated manually. Choose from the following options.

- **Manual** is the most flexible setting. Use Manual if you are applying the filter as a composite instead of a transition, or do not have enough control with the other settings. When Manual is chosen, you create the wipe by manually animating parameters such as Wipe Amount, Radius and Direction, depending on the wipe. When Manual is chosen, Percent Done has no affect.
- **Auto** animates the incoming clip from offscreen at the start of the transition, to fully onscreen at the end of the transition. Choosing Auto has the same affect as choosing Pct. Done with a 0 value keyframe at the start of the effect and a 100 value keyframe at the end. When Auto is chosen, Percent Done has no affect.



In some instances Auto may result in the incoming clip reaching fully onscreen before the effect finishes. In this instance, choose Pct. Done and animate the Percent Done parameter instead of using Auto.

- **Pct. Done** animates the incoming clip from transparent (at a value of 0) to opaque (at a value of 100). When Pct. Done is chosen, the **Percent Done** parameter allows you to adjust the animation.



If an option other than Manual is chosen, the filter automatically adjusts the animation parameters. If this does not produce the desired look at the ends of the effect, set Animation to Manual and manually adjust the effect instead.

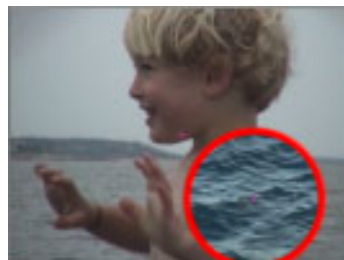
When the **Invert Wipe Checkbox** is selected, the alpha channel created by the wipe inverts.

When the Animation menu is set to Manual, **Wipe Amount** lets you create the wipe manually. When the Animation is set to Pct. Done or Auto, this parameter has no affect.

Softness softens the edges of the wipe by increasing transparency in pixels that are close to the edges. You can use Softness to create artistic blended wipes in which the image gradually becomes transparent.

The **Output menu** controls the output of the wipe. You can also use this menu to preview the matte, or preview the source channel used by the filter to create the effect. Not all of its options are relevant in all situations. Choose from the following options. The following examples show the BCC Radial Wipe.

- **Mult. Alpha** multiplies the alpha channel created by the filter with the source alpha channel. Only areas that are opaque in both alpha channels are opaque in the output. This results in an image whose opacity at each point is at most its input opacity. For an opaque input image, this is the same as *Replace Alpha*.
- **View Matte** displays a grayscale preview of the alpha channel created by the filter, as shown at right. Opaque regions are white, and transparent regions are black.
- **Replace Alpha** replaces the source alpha with the matte created by the filter. For an opaque input image, this is the same as *Multiply Alpha*
- **Screen Alpha** screens the alpha channel created by the filter with the source alpha channel. Areas that are opaque in either alpha channel are opaque in the output.
- **Diff. Alpha** subtracts the alpha channel created by the filter from the source alpha as shown at right.
- **Zoom** scales the input image to the size of the alpha channel created by the wipe. The image is positioned at the center of this alpha channel at its correct aspect. Zoom's scaling is based on the computed alpha channel and is not sub-pixel animated. In some instances, adjusting parameters such as Influence and Texture can cause Zoom settings to appear jumpy.
- When **Zoom Independent** is chosen, the effect is the same as Zoom, but each axis of the source scales independently.





Zoom Effect

- When **Borders Only** is chosen, the wipe renders only the borders.
- **Borders w Source** renders the borders over the source image. As shown in the example at right, the wipe's alpha channel is ignored.



Working with the Border Parameter Group

The parameters in the Border group adjust the first border you create. To create only a single border, use the parameters in this group. You can create up to three independent borders.

The **Border On checkbox** enables the first border. If this checkbox is disabled, no border is created and the remaining parameters have no affect.

Border Thickness sets the thickness of the first border, in pixels.

Border Opacity controls the opacity of the border, expressed as a percentage.

The **Border Color** controls set the color of the border.

The **Border Layer menu** generates the border from another timeline layer instead of the chosen Color. If you do not assign a layer to this menu, the specified Color is used.

Radial Wipe



Border Layer menu set to Outgoing



You can create interesting composites by using moving video as your border.

Border Softness adjusts the softness of the border and is scaled to the width of the border. When Softness is 100, the border is fully opaque at its center.

Border Balance controls the balance of softness between the inside and outside edge of the border. Positive values increase the softness at the outside edge, and decrease softness at the inside edge.

Radial Wipe



Border Balance=-99

Border Balance=0

Border Balance=100

Border Offset moves the border relative to the edge of the wipe. Negative values move the border to the left; positive values move the border to the right. You can use the Border Offset parameter to make a border appear as a drop shadow.

Radial Wipe



Border Offset=-5

Border Offset=0

Border Offset=10

Working with the Additional Borders Parameter Group

Each Transition Wipe effect can include up to three independent borders. The Additional Borders parameter group contains controls for two additional borders. To create only two borders, you can use only the controls in this group. To make three borders, create the first border using the parameters in the Border Parameter Group and use this group for the additional and master border controls. Borders are composited in order; if all three borders are used, Border 3 is composited over Border 2, which is composited over Border 1.

Radial Wipe



Stretched and Rotated Radial Wipe with Three Borders

The **Borders On checkbox** is an easy way to enable all the borders contained in this and the Border parameter group. If this checkbox is deselected, no borders are rendered, even if the Borders On checkbox from the previous Borders parameter group is enabled.

Master Thickness scales the thickness of all borders.

Master Opacity sets the opacity for all the borders, expressed as a percentage.

Master Offset offsets the position of all borders relative to the wipe progress.

The **Border 2 On** and **Border 3 On checkboxes** enable the second and third borders. These are ignored if the Master Borders On checkbox is deselected.

The remaining Border 2 and Border 3 individual border controls are identical to the corresponding Border 1 parameters (Border parameter group).

Working with the Influence and Influence Map Parameters

The Influence and Influence Map parameters allow a channel in the incoming or outgoing clip to influence the wipe. The influence layer pushes the wipe border in or out based on the value of each pixel.



Using a moving video texture such as water as both an Influence layer and a border can produce a pleasing stylized effect. A custom gradient still image is also a useful source for the Influence.



Using the Influence controls slows the filter.

The following examples show a Linear Wipe with Influence used on different images.

Linear Wipe



The **Influence menu** allows you to turn the Influence *On* or *Off*. When *Off* is chosen, the other parameters have no affect. Choosing *View* lets you see the influence map after it is processed by controls in the Influence Map group.

Influence Intensity adjusts the intensity of the influence. Increasing values create more intensity.

The **Inf. Layer menu** lets you choose the layer that is used for the influence. If you do not assign a layer to this menu, the other parameters have no affect.

The **Channel menu** allows you to choose the channel that is used for the influence.

- *Alpha, Luma Red, Green, and Blue* create influence based on the value of the corresponding channel. Higher values create more influence.
- Choose *Luma Inverted* or *Alpha Inverted* to create influence based on the inverse of the value of the corresponding channel. In this case, lower values create more influence.
- If *Luma Difference, Luma Lightest, or Luma Darkest* is chosen, the filtered layer (the outgoing clip when the effect is a transition) is combined with the chosen Influence Layer to create the channel.

Inf. Threshold works in conjunction with the Inf. Softness parameter to set the value in the Influence Layer above which pixels are considered fully on. Pixels whose channel values are above the Influence Threshold level are fully on; those with channel values below the level are off. For example, if the Channel menu is set to Red and Inf. Threshold is set to 100, then all pixels whose red channel value is higher than 100 create influence.

Inf. Softness softens the edges of the influence by softening pixels whose values are near the Inf. Threshold value. Set Inf. Softness to 0 for a harsh, high-contrast influence, or increase it to soften the edges of the filtered region.

Blur applies a blur to the edges of the Influence channel before creating the wipe.

Choke applies a choke to the wipe. Positive Choke values tighten the matte, while negative values expand the matte.

If the **Bidirectional Influences checkbox** is deselected, a positive influence value always reveals more image, and a negative value hides more. If this checkbox is selected, the influence can go in both directions.

Working with the Texture Parameters

The Texture controls are similar to the Influence controls. They allow the wipe to be influenced by a Fractal Noise Map, a White Noise map, or both. The Texture controls differ from the pattern controls in that they operate on a pixel-by-pixel basis. The Texture controls can create holes in the wipe, while the Pattern controls do not create holes.



Using the Texture controls slows the filter.

The **Texture menu** controls which type(s) of texture map influences the wipe.

- When *Off* is chosen, no texture is used.
- *Fractal Noise* uses a simplified version of the algorithm used by the Noise Map filter to generate the texture.
- *White Noise* uses the algorithm used by the Pixel Noise filters combined with a high quality blur. The blur amount is set by the **Noise Softness** parameter.
- *Fractal and White Noise* combines both types of texture.

Multi Stretch Wipe



Texture=Off

Texture=Fractal

Texture=White Noise

Texture Intensity scales the intensity of both the Fractal and White Noise. Negative values reverse the effect, causing pixels that would become more transparent to become more opaque and vice versa.

Fractal Intensity adjusts the intensity of the Fractal Noise texture if *Fractal Noise* or *Fractal and White Noise* are chosen in the Texture menu.

Fractal Scale scales the size of the details in the Fractal Noise texture if *Fractal Noise*, *White Noise* or *Fractal and White Noise* are chosen in the Texture menu.

The choices in the **Fractal Type menu** set the general appearance of the Fractal Noise texture. Choose *Smooth*, *Bubbly* or *Stringy*.

Fractal Flow Rate set the speed of the motion of the Fractal Noise texture pattern.

Fractal Flow Direction sets the direction of the motion of the Fractal Noise texture pattern.

Fractal Morph Start controls the look of the Fractal Noise texture at the first frame of the effect.

Fractal Morph Rate determines the rate at which the Fractal Noise texture surges and rotates inward as the filter auto-animates.

Setting the **Downsample menu** to 2 speeds rendering by creating a smaller (downsampled) Noise map. This can make the filter appear rougher, which is useful for some effects.

Noise Intensity controls the intensity of the noise texture.

Noise Softness controls the softness applied to the noise texture.

Noise Seed determines the value input to the random number used by the filter to create the noise. Adjust this value when you like the overall appearance of the noise but want to change the random configuration.

Noise Morph Rate controls the rate at which the noise texture evolves over time. This allows you to auto-animate the noise texture. You can also animate this parameter between a static and evolving noise texture by animating this parameter

If the **Bidirectional Textures checkbox** is deselected, a positive texture value always reveals more image, and a negative value hides more. If this checkbox is selected, the texture can go in both directions.

Working with the Post Process Parameter Group

Gamma controls the value of the middle tones while leaving the white and black of the image unaltered. The Gamma adjustment is made to the derived alpha. Increasing gamma spreads the alpha so that the matte created by the wipe is more opaque. The affect of Gamma is much more noticeable at high softness values.

Alpha Offset controls an offset that is added to the output alpha. You can create a transition by animating from -255 to 255. At a value of -255, the entire image keys out. At a value of 255, the entire image is opaque.

Post Blur blurs the alpha channel after the matte is created. Use Post Blur to soften the edge in the matte for sources with high contrast edges.

Choke applies a choke to the matte. Positive values tighten the matte around the foreground image, while negative values pull the matte away from the edges of the foreground image.



Post Blur and Choke are particularly useful if you used the texture, pattern, or influence controls to make a wipe with a nice shape but too many sharp details.



Borders are computed before Blur and Choke are applied, so using both borders and blur or choke on the same effect may create unexpected results.

Working with the Composite Parameter Group

The controls in this group let you composite an underlying clip with the source image, and allow brightness, contrast, and apply modes to be used in the blended region.



Composite controls only affect images without an alpha channel if you use some Softness value (for example, make the Wipe Edge soft). If the image has an alpha channel, these settings affect partly transparent pixels even without Softness.



The most common use of the Composite settings is to boost the brightness and contrast of the blended region when creating a soft wipe. You can also achieve unusual composites by using an Apply mode.

The **Background menu** allows you to choose a layer to composite below the source image.

The **Blend menu** lets you choose an apply mode to use in the blended region. The available Apply Modes are described in detail in Appendix A in the User Guide.

Blend Brightness adjusts the brightness used in the blended region.

Blend Contrast sets the amount of contrast used in the blended region.

Mix w 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 effect of the filter by mixing it with the source image.