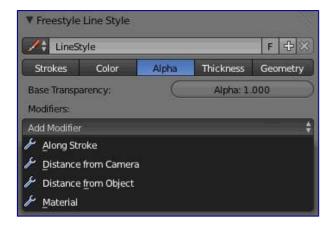
10.7.4.6 Render - Freestyle - Parameter Editor - Alpha

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Alpha



Line Style Alpha UI

In this tab you control the alpha (transparency) of your strokes.

Base Transparency

The base alpha for this line style.

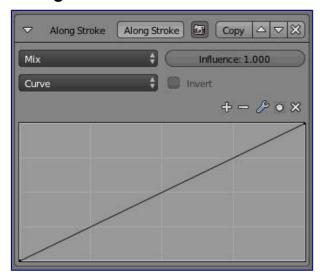
Modifiers

There are four alpha modifiers available, which can be mixed with the base alpha using a subset of the usual methods (see for example the *Mix compositing node* for further discussion of this topic). As with other modifier stacks in Blender, they are applied from top to bottom.

Influence

How much the result of this modifier affects the current transparency.

Along Stroke



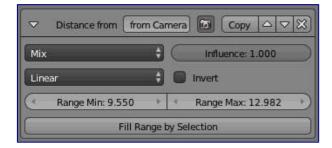
The *Along Stroke* modifier alters the base alpha with a new one from either a linear progression or a custom curve, mapped along each stroke's length. In other words, it applies the selected progression along each stroke.

Mapping

Either a linear progression (from 0.0 to 1.0, which may be inverted with the *Invert* option), or a custom mapping curve.

Distance from Camera

The *Distance from Camera* modifier alters the base alpha with a new one from either a linear progression or a custom curve, using the distance to the active camera as parameter.



Mapping

Either a linear progression (from 0.0 to 1.0, which may be inverted with the *Invert* option), or a custom mapping curve.

Range Min and Range Max

The limits of the mapping from "distance to camera" to "alpha in mapping". If the current point of the stroke is at *Range Min* or less from the active camera, it will take the start alpha of the mapping, and conversely, if it is at *Range Max* or more from the camera, it will take the end alpha of the mapping. These values are in the current scene's units, not in pixels!

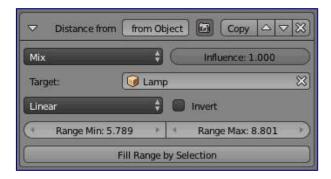
Fill Range by Selection

Set the min/max range values from the distances between the current selected objects and the camera.

Distance from Object

The *Distance from Object* modifier alters the base alpha with a new one from either a linear progression or a custom curve, using the distance to a given object as parameter.

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Target

The object to measure distance from.

Mapping

Either a linear progression (from 0.0 to 1.0, which may be inverted with the *Invert* option), or a custom mapping curve.

Range Min and Range Max

The limits of the mapping from "distance to object" to "alpha in mapping". If the current point of the stroke is at *Range Min* or less from the target, it will take the start alpha of the mapping, and conversely, if it is at *Range Max* or more from the target, it will take the end alpha of the mapping. These values are in the current scene's units, not in pixels!

Fill Range by Selection

Set the min/max range values from the distances between the current selected objects and the target.

Material

The *Material* modifier alters the base alpha with a new one taken from the current material under the stroke.

You can use various properties of the materials, among which some are multi-components (i.e. give RGB results). In that case, the mean value will be used.



Mapping

Either a linear progression (from 0.0 to 1.0, which may be inverted with the *Invert* option), or a custom mapping curve. Note the linear non-inverted option is equivalent to "do nothing", as original values from materials are already in the [0.0, 1.0] range.

If used with the *Split by Material* option in the *Stroke* tab, the result will not be blurred between materials along the strokes.

Noise

The *Noise* modifier uses a pseudo-random number generator to variably distribute transparency along the stroke.

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Amplitude

The maximum value of the noise. A higher amplitude means a less transparent (more solid) stroke.

Period

The period of the noise. This means how quickly the alpha value can change. A higher value means a more smoothly changing transparency along the stroke.

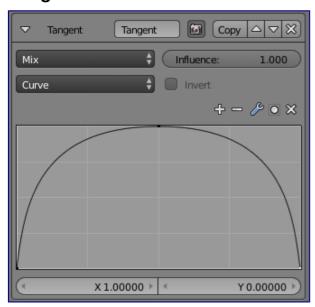
Seed

Seed used by the pseudo-random numer generator.

Mapping

Either a linear progression (from 0.0 to 1.0, which may be inverted with the *Invert* option), or a custom mapping curve. Note the linear non-inverted option is equivalent to "do nothing", as original values from materials are already in the [0.0, 1.0] range.

Tangent



This modifier bases its effect on the traveling direction of the stroke evaluated at the stroke's vertices.

Mapping

Either a linear progression (from 0.0 to 1.0, which may be inverted with the *Invert* option), or a custom mapping curve. Note the linear non-inverted option is equivalent to "do nothing", as original values from materials are already in the [0.0, 1.0] range.

Min Angle and Max Angle

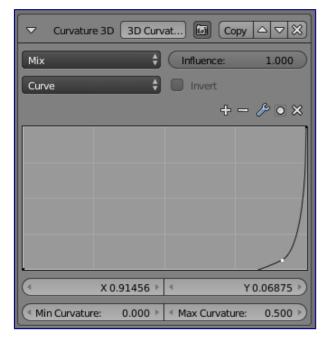
The range of input values to the mapping. Out-of-range input values will be clamped by the Min and Max angles and their corresponding alpha values.

3D Curvature

A modifier based on radial curvatures of the underlying 3D surface. The curvature of a 2D curve at a point is a measure of how quickly the curve turns at the point. The quicker the turn is, the larger the curvature is at the

point. The curvature is zero if the curve is a straight line. Radial curvatures are those computed for a 2D curve that appears at the cross-section between the 3D surface and a plane defined by the view point (camera location) and the normal direction of the surface at the point.

For radial curvatures to be calculated (and therefore for this modifier to have any effect), the *Face Smoothness* option has to be turned on and the object needs to have *Smooth Shading*.



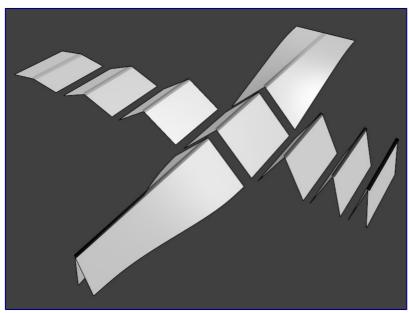
Mapping

Either a linear progression (from 0.0 to 1.0, which may be inverted with the *Invert* option), or a custom mapping curve. Note the linear non-inverted option is equivalent to "do nothing", as original values from materials are already in the [0.0, 1.0] range.

Min Curvature and Max Curvature

The limits of the mapping. If the current point of the stroke is at *Min Curvature* or less from the target, it will take the start alpha of the mapping, and conversely, if it is at *Max Curvature* or more from the target, it will take the end alpha of the mapping.

Crease Angle



Crease Angle modifier demo by T.K. File:Render freestyle modifier crease angle.blend

A modifier based on the Crease Angle (angle between two adjacent faces). If a stroke segment doesn't lie on a crease (i.e., the edge doesn't have the Crease Angle nature), its alpha value is not touched by this modifier.



Mapping

Either a linear progression (from 0.0 to 1.0, which may be inverted with the *Invert* option), or a custom mapping curve. Note the linear non-inverted option is equivalent to "do nothing", as original values from materials are already in the [0.0, 1.0] range.

Min Angle and Max Angle

The range of input values to the mapping. Out-of-range input values will be clamped by the Min and Max angles and their corresponding alpha values.