Vertex Weight Proximity Modifier

This modifier sets the weights of the given vertex group, based on the distance between the object (or its vertices), and another target object (or its geometry).

Warning

This modifier does implicit clamping of weight values in the standard (0.0 to 1.0) range. All values below 0.0 will be set to 0.0, and all values above 1.0 will be set to 1.0.

Note

You can view the modified weights in Weight Paint Mode. This also implies that you will have to disable the *Vertex Weight Proximity* modifier if you want to see the original weights of the vertex group you are editing.

Options

Vertex Group

The vertex group to affect.

Target Object

The object from which to compute distances.

Proximity Mode

Object Distance

Use the distance between the modified mesh object and the target object as weight for all vertices in the affected vertex group.

Geometry Distance

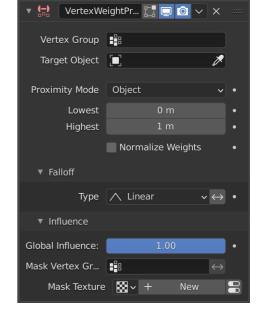
Use the distance between each vertex and the target object, or its geometry.

Vertex

This will set each vertex's weight from its distance to the nearest vertex of the target object.

Edge

This will set each vertex's weight from its distance to the nearest edge of the target object.



The Vertex Weight Proximity modifier panel.

Face

This will set each vertex's weight from its distance to the nearest face of the target object.

Note

If you enable more than one of them, the shortest distance will be used. If the target object has no geometry (e.g. an empty or camera), it will use the location of the object itself.

Lowest

Distance mapping to 0.0 weight.

Highest

Distance mapping to 1.0 weight.

Tip

Lowest can be set above Highest to reverse the mapping.

Normalize Weights

Scale the weights in the vertex group to keen the relative weight but the lowest and highest values follow the full 0 - 1 range

Type of mapping.		
Linear		
No mapping.		
Custom Curve		
Allows you to manually defin	ne the mapping using a curve.	
Sharp, Smooth, Root and Spher	e	
These are classical mapping	functions, from spikiest to roundest.	
Random		
Uses a random value for each	ch vertex.	
Median Step		
Creates binary weights (0.0	or 1.0), with 0.5 as cutting value.	
Invert <>		
Inverts the falloff.		
Influence Those settings are the same for the three	Vertex Weight modifiers, see the Vertex Weight Edit modifier page.	
Example		
This example shows the usage of distance	e from a target object to dynamically control a Wave modifier with a modified vertex group:	
The blend-file, TEST_1 scene.		
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Falloff

Type