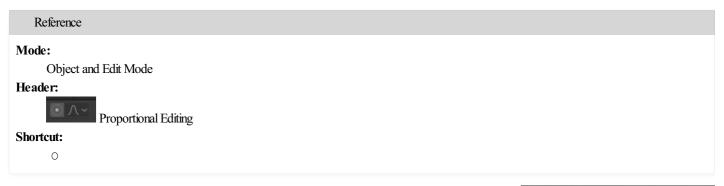
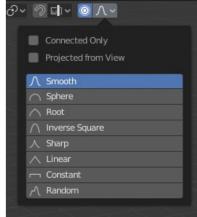
Proportional Editing



Proportional Editing is a way of transforming selected elements while also affecting the nearby unselected elements. The farther away an unselected element is, the less it will be affected (hence the "proportional"). This feature is very useful for smoothly deforming dense meshes.



Proportional Editing popover.

Note

Blender also has a Sculpting workflow that contains brushes and tools for proportionally editing a mesh without seeing the individual vertices.

Controls

Disable O

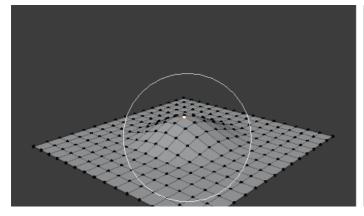
Proportional Editing is off, only selected vertices will be affected.

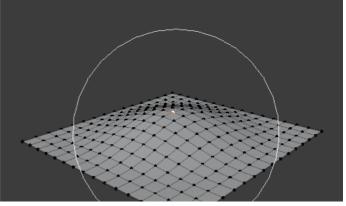
Enable O

Vertices other than the selected vertex are affected, within a defined radius.

Proportional Size

You can increase or decrease the radius of the tool's influence during a transform operation from the Proportional Editing popover or with Wheelup WheelDown, or PageUp / PageDown respectively. As you change the radius, the points surrounding your selection will adjust their positions accordingly.

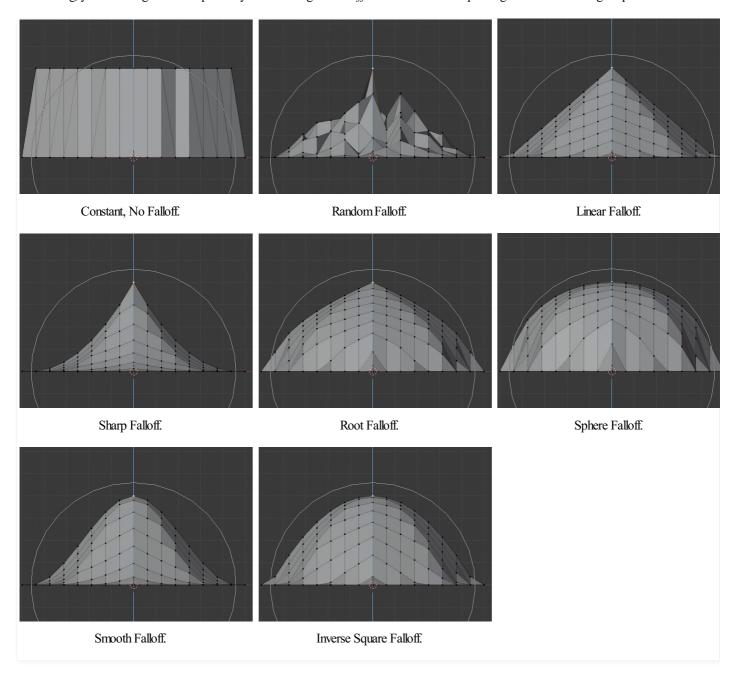




Influence circle.

Falloff

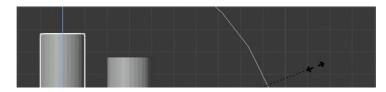
While editing, you can change the curve profile by either clicking the Falloff icon in the header or pressing Shift - O to get a pie menu.

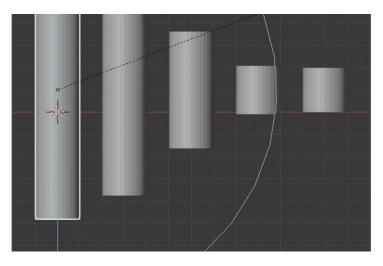


Object Mode

Proportional Editing is typically used in *Edit Mode*, but it can also be used in *Object Mode*. The tool then works on entire objects rather than individual mesh components.

In the image below, the leftmost cylinder is being scaled up vertically, which also affects the cylinders near it.

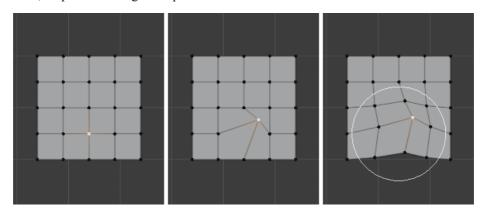




Proportional Editing in Object Mode.

Edit Mode

When working with dense geometry, it can become difficult to make subtle adjustments without causing visible lumps and creases in the model's surface. When you face situations like this, Proportional Editing can help.



Proportional Editing in Edit Mode.

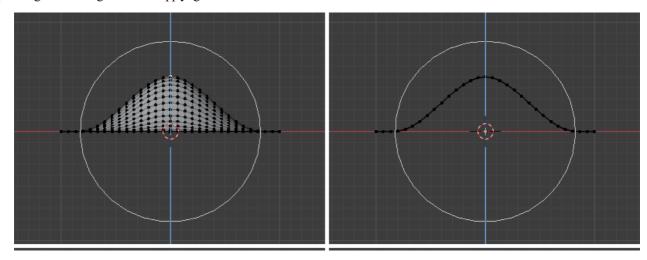
Options

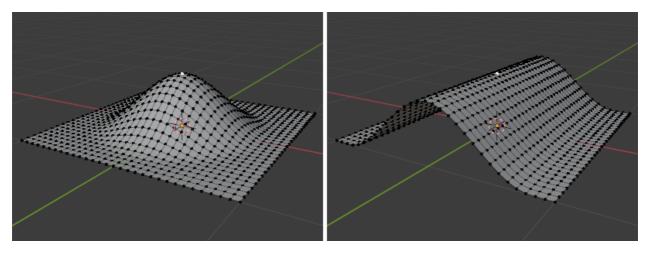
Connected Only Alt - 0

Rather than using a radius only, the proportional falloff spreads via connected geometry. This means that you can proportionally edit the vertices ir finger of a hand without affecting the other fingers. While the other vertices are physically close (in 3D space), they are far away following the topological edge connections of the mesh. The icon will have a blue center when *Connected* is active. This mode is only available in *Edit Mode*.

Projected from View

Depth along the view is ignored when applying the radius.

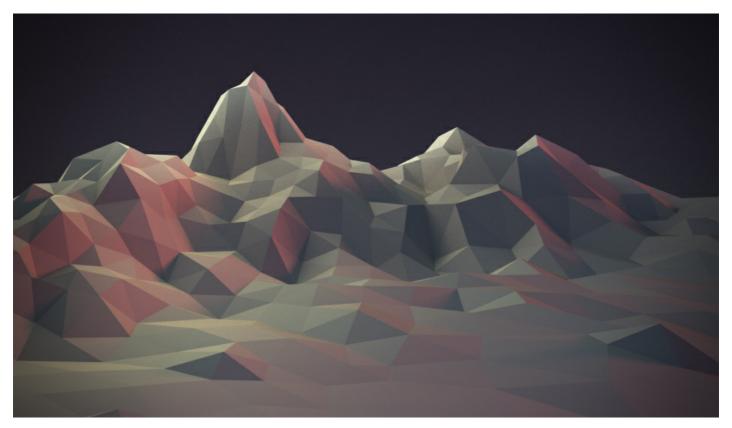




The difference between having "Projected from View" disabled (left) and enabled (right).

Example

The image below shows the final render of a low-poly landscape obtained by moving up the vertices of a triangulated grid with *Proportional Editing* enabled.



A landscape obtained via Proportional Editing.

Previous Snapping

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