

## 7.0.3 Editors - 3D View - Mesh Object - Edit Mode - Edge Context Menu

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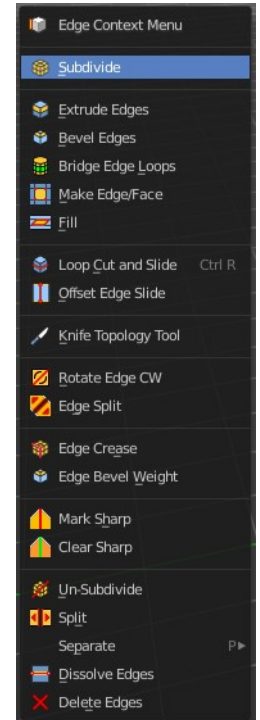
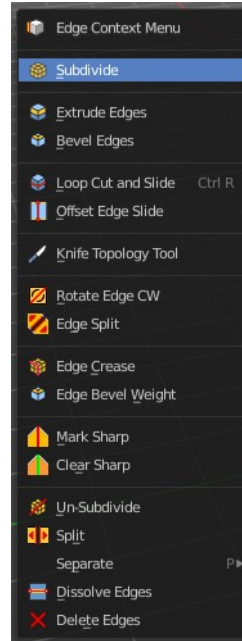
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# Vertex Context Menu

Call this menu with double right click in the 3D viewport. You need to be in Edit mode with a Mesh object. And in selection mode Edge.



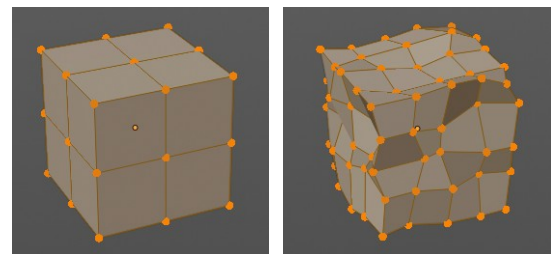
Select geometry to reveal all content.



## Subdivide

Subdivide divides the selected edges. It subdivides the involved faces too, and can create new vertices.

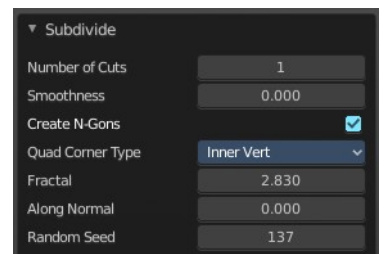
A more unknown functionality is that it can also randomize the result with the Fractal slider in the Last operator panel.



## Last Operator Subdivide

### Number of Cuts

The number of cuts defines the amount of subdivisions.

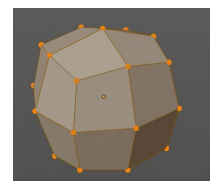


### Smoothness

This value defines how smooth the subdivision result is. From flat to bent.

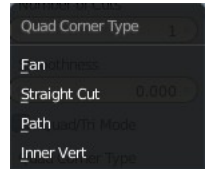
### Create N-Gons

Create N-Gons if required. Else subdividing N-Gons creates Tris.



## ***Quad Corner Type***

Adjust the corner type.



## ***Fractal***

Randomize the selected vertices.

## ***Along Normal***

When randomized, this value defines how strong the subdivision follows the normals of the initial vertices.

## ***Random Seed***

Randomizing value for fractal randomizing.

---

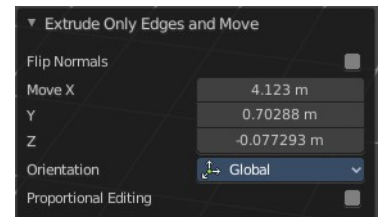
## **Extrude Edges**

Extrudes out the selected edges by moving the mouse.

## ***Last Operator Extrude Only Edges and Move***

### ***Flip Normals***

Flip the normals at the involved faces.

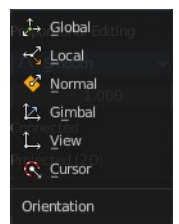


### ***Move X Y Z***

The coordinates for the extruded geometry.

### ***Orientation***

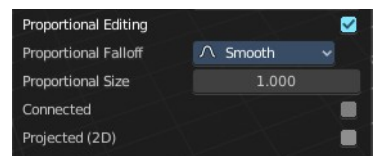
Choose the type of orientation, in which coordinate system the action should happen.



### ***Constraint Axis***

### ***Proportional editing***

Enables proportional editing. Activating proportional editing reveals further settings.



### ***Proportional Falloff***

Adjust the falloff methods.

### ***Proportional Size***

See and adjust the falloff radius.

## Connected

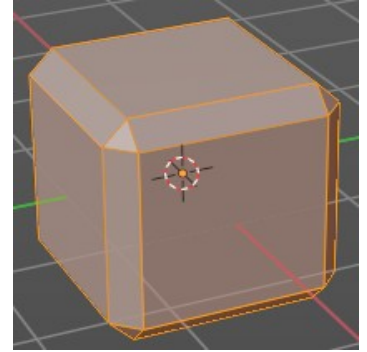
The proportional falloff gets calculated for connected parts only.

## Projected(2D)

The proportional falloff gets calculated in the screen space. Depth doesn't play a role. When it's in the radius, then it gets calculated.

## Bevel Edges

Adds a bevel at the selected edges.



## Last Operator Bevel

### Offset

The Bevel amount. This text changes, dependent of the chosen width type.

### Width type

Which measure type to choose for the bevel action. Offset, Width, Depth or Percent.

### Vertex only

Bevel Vertices only.

### Clamp Overlap

Do not allow beveled geometry to overlap each other.

### Loop Slide

Prefer slide along edge to even widths.

### Mark Seams

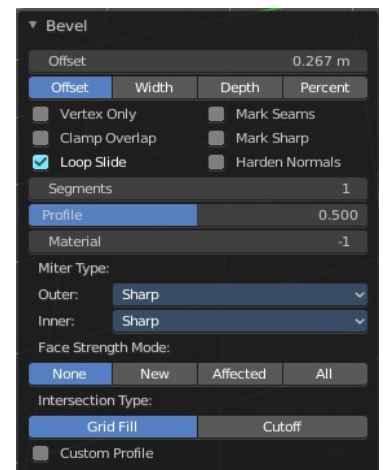
Mark the edges of the new created geometry as seams.

### Mark Sharp

Mark the edges of the new created geometry sharp.

### Harden Normals

When enabled, the per-vertex face normals of the bevel faces are adjusted to match the surrounding faces, and



the normals of the surrounding faces are not affected. This will keep the surrounding faces flat (if they were before), with the bevel faces shading smoothly into them. For this effect to work, custom split normals need to be enabled, which requires Auto Smooth to be enabled (see Normals). As a convenience, that option will be enabled for you if it is not already when you enable Harden Normals here.

## Segments

How many segments gets created.

## Profile

Controls the Profile shape. 0.5 means round.

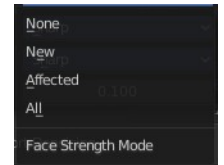
## Material

Material for beveled faces. -1 is the surrounding material.

## Miter Type

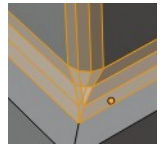
### Outer Miter

How the outer miter is set. Miter is how the bevel rounding at a corner is done.



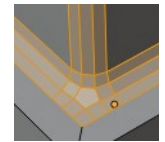
### Sharp

Creates a sharp miter.



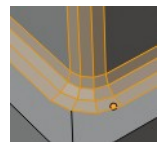
### Patch

This replaces the outside vertex of a miter with 3 vertices. And uses a patch pattern there.



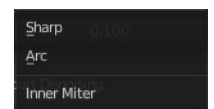
### Arc

This replaces the vertex of a miter with 2 vertices, joined by an arc. A separate Spread parameter says how far to move the vertices away from their original position.



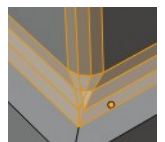
### Inner Miter

How the inner miter is set. Miter is how the bevel rounding at a corner is done.



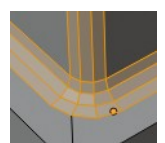
### Sharp

Creates a sharp miter.



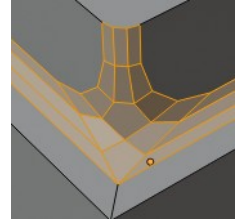
### Arc

This replaces the vertex of a miter with 2 vertices, joined by an arc. A separate Spread parameter says how far to move the vertices away from their original position.



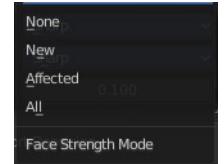
## ***Spread***

Belongs to inner miter method Arc. Adjust how strong the inner radius is bent.



## ***Face Strength Mode***

Set Face Strength on the faces involved in the bevel, according to the specified mode. This can be used in conjunction with a Weight Normals Modifier (with the Face Influence option checked).



### **None**

Do not set face strength.

### **New**

Set the face strength of new faces along edges to Medium, and the face strength of new faces at vertices to Weak.

### **Affected**

In addition to those set for the New case, also set the faces adjacent to new faces to have strength Strong.

### **All**

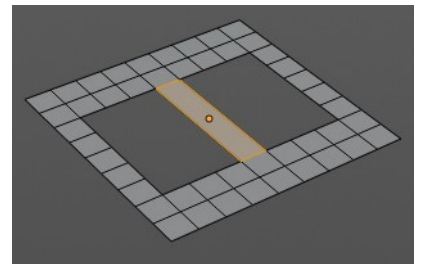
In addition to those set for the Affected option, also set all the rest of the faces of the model to have strength Strong.

## ***Intersection type***

The method to use to create meshes at intersections. Bevel can create self intersecting geometry.

## **Bridge Edge loops**

The Bridge edge loops tool bridges selected edges, and adds a polygon between them. You need to have at least two edges selected.



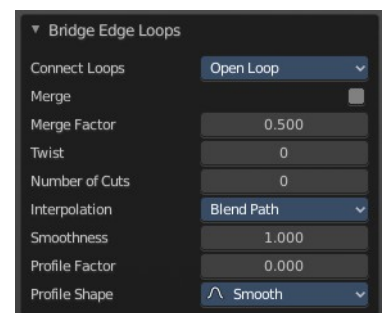
## **Last Operator Bridge Edge loops**

### ***Connect Loops***

Choose the method how to deal with bridging multiple loops.

### ***Merge***

With merge ticked it will not create a bridge face, but merge the selected edges.





### **Merge Factor**

The merge factor determines at which distance between the selected edges the merge happens. 0.5 is the middle of the selected edges.

### **Twist**

The twist offset for closed loops.

### **Number of Cuts**

Adds cuts to the bridge face.

### **Interpolation**

Choose the interpolation mode for the cuts.

### **Smoothness**

Adjust the smoothness for the cuts.

### **Profile Factor**

Adjust the profile factor for the cuts.

### **Profile shape**

Adjust the profile shape for the cuts.

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## **Make Edge/Face**

Adds a face when you have edges selected. And Edges when you have Vertices selected. It's a Bridge tool.

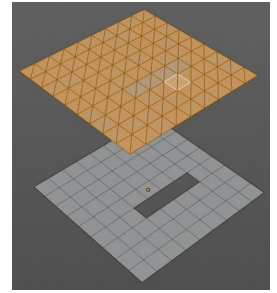
You can have either the one method or the other. When you select two adjacent vertices, then you select the edge too. And the tool works in edge mode then. In this case just the possible faces gets created. Not edges between single vertices.

First select the edges or Vertices that you want to bridge. Then click the New Edge/Face from Vertices Button.



## Fill

Fill closes holes in the selected mesh geometry, and triangulates the faces.



## Last Operator Fill

### Beauty

Uses the best possible triangulation.



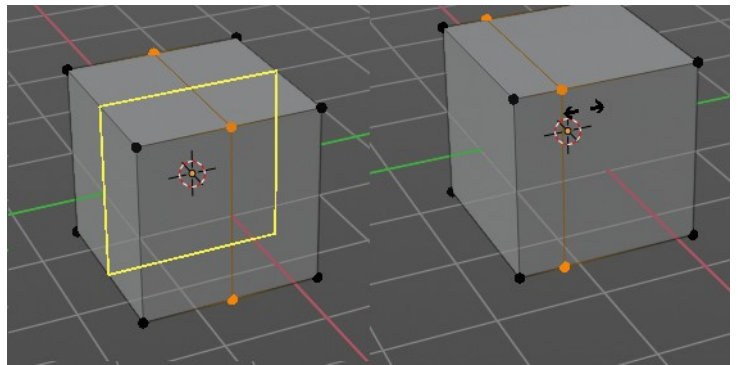
## Loop Cut and Slide

Loop Cut and Slide adds edge loops to divide faces

When you click once, then this edge gets created.

When you click and hold, then you can move this edge to a new location.

Loop cut and Slide ignores selections. It will try to divide the face under the mouse, and continue the loop until it is closed, or until it cannot continue.

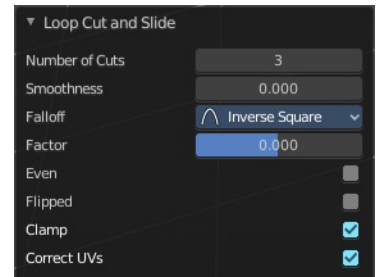


## Last Operator Loop Cut and Slide

Note that all settings here just changes the latest added loop. Not all added loops in the current session.

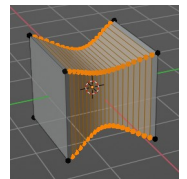
### Number of Cuts

The number of cuts that gets added. It can be more than one loop at once.



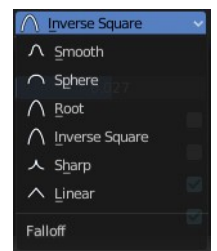
### Smoothness

This value defines how smooth the loop cut gets added. From flat to bent.



### Falloff

Adjust the Falloff type for smoothness.



### Factor

Change the center of the added loop.

### Even

Make the edge loop match the shape of the adjacent edge loop

## ***Flipped***

When Even mode is active, flips between the two adjacent edge loops.

## ***Clamp***

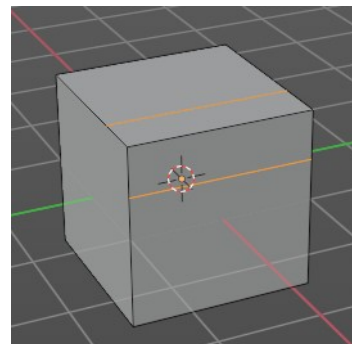
Clamp within the edge extend.

## ***Correct UV's***

Corrects the UV's when modifying the geometry.

## **Offset Edge Slide**

Adds left and right an edge from the selected edge and slides it outwards.



## **Last Operator Offset Edge Slide**

### ***Cap Endpoint***

Connects the endpoints of the slided edges.

### ***Factor***

The amount of sliding.

### ***Even***

Make the edge loop match the shape of the adjacent edge loop

### ***Flipped***

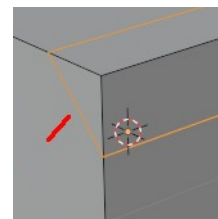
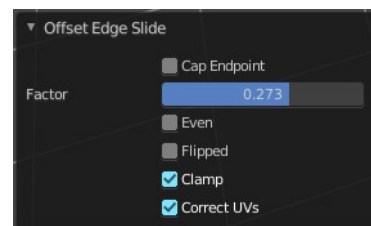
Connected with Even. When even mode is active then flips between the two adjacent edge loops.

### ***Clamp***

Clamp within the edge extends.

### ***Correct UV's***

Correct UV coordinates when transforming.



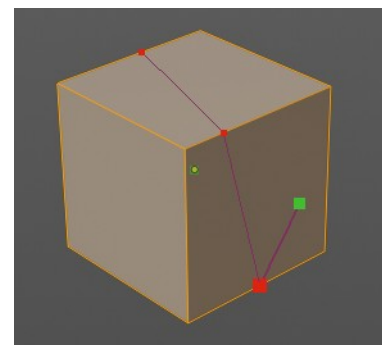
## Knife Topology

The Knife tool cuts the geometry, and adds edges. When it crosses existing geometry then it adds a vertice at the crossing point.

Usage: activate the tool, left click to define the starting point. This can also be a point in the middle of a face. But ideally you choose an existing vertice or an edge as the start and endpoints. The knife tool tries to snap to them when you get close with the mouse cursor.

When done press Enter or Space bar to confirm. Right click abandons the operation.

When you create a vertice in the middle of a face, then the knife tool will try to connect this vertice by an existing vertice of this face when you confirm with space bar.



### **Hotkey functionality in the footer text**

Have a look at the footer when you work with this tool. Here you will find further instructions and hotkeys.



Enter, Pad Enter, Space bar - confirm

Esc key, RMB - cancel the operation

LMB start the cut

Double LMB - close the cut

E - create new cut

Ctrl or Shift while dragging - Snap to the middle of an edge

Z - cut through the whole geometry, also the back faces.

MMB - pan the view.

Alt MMB - rotate the view.

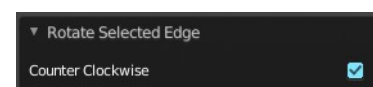
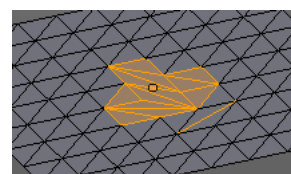
## Rotate Edge CW

Rotate Edge rotates the selected edge clockwise.

## Last Operator Rotate Selected Edge

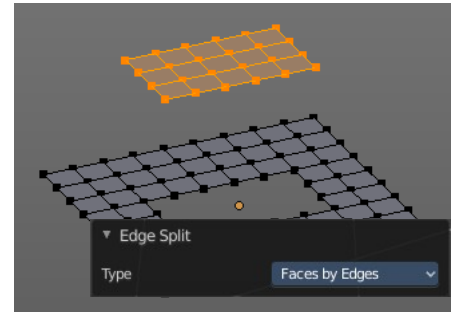
### **Counter Clockwise**

Rotate selected edges counter clockwise.



## Edge Split

Splits selected edges so that each neighbor face gets its own copy. You have two methods here.



## Last Operator Edge Split

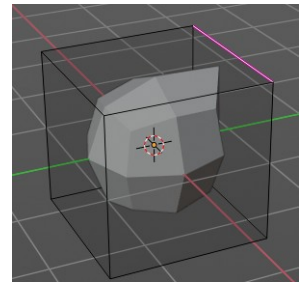
### Type

Choose the method again.

## Edge Crease

When you use a Subdivision Surface Modifier, then you can define the sharpness of selected edges with this tool. Crease edges will be marked colored in edit mode.

You will see a value in the header that indicates the current strength when you activate the tool. Move with the mouse to increase or decrease the value. Or type in a value while you are in this mode. You can also scale into negative range.



A negative crease value will subtract from the current active crease value in case it exists already from a former crease operation. A Crease value of -1 removes the crease from this edge.

Crease: -0.150

## Last Operator Edge Crease

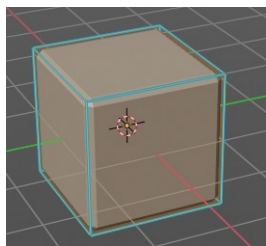
### Factor

Adjust the crease factor.



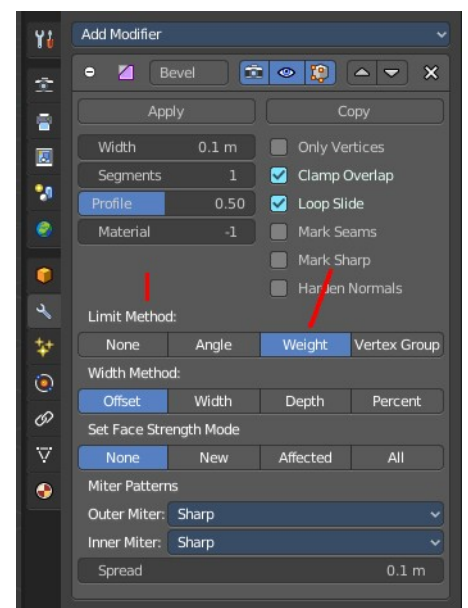
## Edge Bevel Weight

This tool adjusts the edge bevel weight for selected edges when you use the Bevel modifier at the mesh.



You need to have set the limit method to Weight. This way you can achieve a bevel weight for every individual selected edge if you want, and achieve different bevel strengths at the mesh.

You will see a value in the header that indicates the current strength when you activate the tool. Move with the mouse to increase or decrease the value. Or type in a value while you are in this mode. You can also scale into negative range.



A negative Edge Bevel Weight value will subtract from the current active crease value in

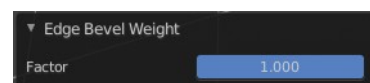
Bevel Weight: -0.329

case it exists already from a former crease operation. An Edge Bevel Weight value of -1 removes the weight from this edge.

## Last Operator Edge Bevel Weight

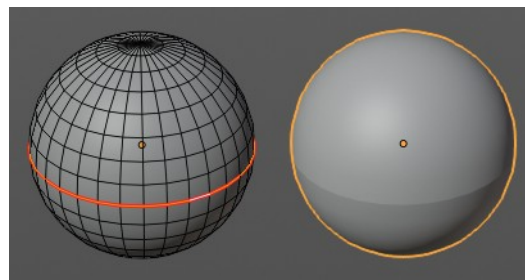
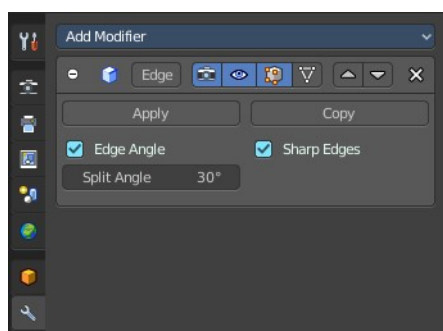
### Factor

Adjust the Edge Bevel Weight factor.



## Mark Sharp

Mark Sharp is a tool that you need for the Edge Split modifier. Marked edges are displayed and rendered as sharp edges.



## Last Operator Mark Sharp

### Vertices

Calculate by the selected vertices instead of edges to mark the edges.



## Clear Sharp

Clears formerly as sharp marked selected edges.

## Last Operator Mark Sharp

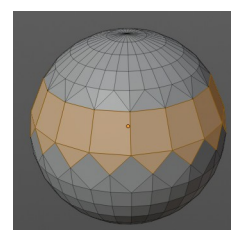
### Vertices

Calculate by the selected vertices instead of edges to mark the edges.



## Un-Subdivide

Decimates the geometry by trying to make one quad out of four quads. But can also end in Tris where this is not possible.



## Last Operator Un-Subdivide

### *Iterations*

Number of iterations. This means how deep the calculation should go. One level of SDS, two levels, three levels, etc. . Down to the point where you cannot decimate any geometry anymore.

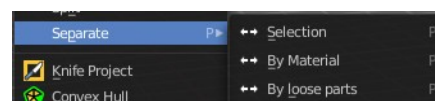


## Split

Splits the edges between the selected vertices. It creates two edges out of one. And splits the edge by that.

## Separate

Separate separates the selected geometry, and creates a new object. The geometry becomes uneditable, since it is now a new object. You will have to leave the Edit mode, select the new object, and re-enter Edit mode when you want to edit it.



### Selection

Selection separates the current selection.

### By Material

By Material separates all geometry that has the same material than the current selection.

### By Loose Parts

By Loose parts separates all geometry that is connected by edges to the current selection.

## Dissolve Vertices

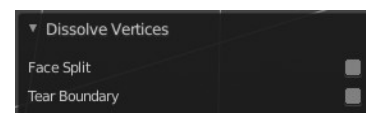
Dissolve Vertices dissolves the selected Vertices.

Note that pressing DEL in Vertice select mode calls Dissolve Vertices already. It's the same operator. But you don't get the Last operator that way.

## Last Operator Dissolve Vertices

### *Face Split*

Split off Face corners to maintain surrounding geometry



### *Tear Boundary*

Split off Face corners instead of merging faces.

## **Dissolve**

Dissolves the selected edges, which unions the involved faces to one.

---

## **Delete Edges**

Deletes the selected Edges.