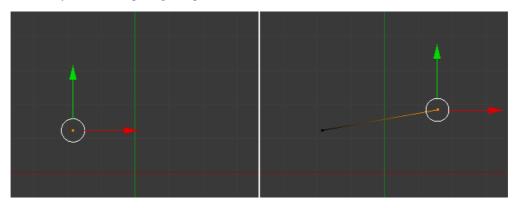
Extrude to Cursor

Refere	eference		
Mode:			
Edi	Edit Mode		
Shortcut:			
Ct	Ctrl - RMB		

Interactively places new vertices with Ctrl - RMB at the mouse cursor position.

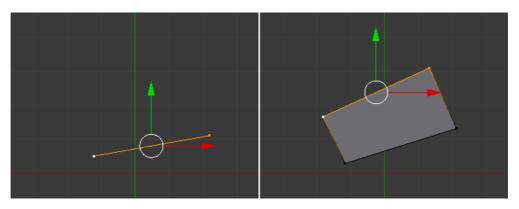
The most basic element, a vertex, can be added with a <code>Ctrl - RMB</code> click when no other vertices are selected. Because the camera space (compute screen) is two-dimensional, Blender cannot determine all three vertex coordinates from a single mouse click, so the new vertex is placed at the depth of t 3D cursor.

To create interconnected vertices, you can add a vertex and continuously make subsequent Ctrl - RMB operations with the last vertex selected. The will link the last selected vertex with the vertex created at the mouse position with an edge (see Fig. "Adding vertices one by one."), and will continuously create and connect new vertices if you continue repeating this operation.



Adding vertices one by one.

Creating Faces



Quad from an Edge with source automatically rotated.

If you have two vertices selected and already connected with an edge, Ctrl - RMB click will create a planar face, also known as a quad. Blender w follow your mouse cursor and will use the planar view from your viewport to create those quads.

For Ctrl-RMB, Blender will automatically rotate the last selected Edge (the source) for the subsequent operations if you have at least one face created, dividing the angles created between the newly created edge and the last two edges, creating a smooth angle between them. Blender will calculat this angle using the last positive and negative position of the last X and Y coordinates and the last connected unselected edge. If this angle exceeds a negative limit (following a quadrant rule) between the recently created edge and the last two, Blender will wrap the faces. But if you do not want Blender rotate and smooth edges automatically when extruding from Ctrl-RMB, you can also inhibit Blender from rotating sources using the shortcut Shift-Ctrl-RMB. In this case, Blender will not rotate the source dividing the angle between those edges when creating a face.

If you have three or more vertices selected, and Ctrl - RMB click, you will also create planar faces, but along the vertices selected, following the direction of the cursor. This operation is similar to an extrude operation.

Tip

When adding objects with Ctrl - RMB, the extrusions of the selected elements, being vertices, edges and faces with the Ctrl - RMB, are viewport dependent. This means, once you change your viewport, for example, from top to left, bottom or right, the extrusion direction will also follow your viewport and align the extrusions with your planar view.

Previous Extrude Manifold Copyright ©: This page is licensed under a CC-BY-SA 4.0 Int. License Made with Furo Last updated on 2025-05-10

No Loop (

View Source View Translation Report issue on this page