





HOVER SELECT

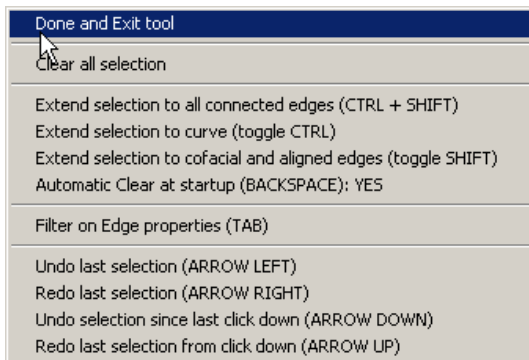
Multi-Selection of Edges by Mouse-over

QUICKCARD – v1.1

1. Overview

This plugin allows performing a selection of multiple edges with an approach similar to the native Eraser tool (i.e. you click down and then mouse over to select). Basically,

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 - **you click down on a non-selected edge**, keep the mouse button down and move the cursor to select other edges until you release the mouse button. Then, you can continue with this method for building progressively the selection. This also means that you will add to the selection by just clicking on edge too.
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 - **If you click down on a selected edge**, then the mode is Un-selection when you mouse-over. Edges will be individually unselected.
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 - **If you click on a face (down and up in the same position)**, the tool selects all valid edges of the face. If you clicked down and then move the mouse cursor, then you are in the edge selection mode.
- **If you click anywhere but an edge and then drag the mouse**, you enter the rectangle select mode.
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 - **You exit the tool by clicking in the Empty space** (cursor appears as a check mark).
- The plugin offers several options and working modes:



- Edge property filter: Plain, Smooth, Soft, Hidden
- Selection mode: individual edge, extend to curve, extend to all connected, co-facial and follow-it edges (via toggle keys Ctrl and Shift), selection by faces.
- Undo / redo (using Arrow keys)

All options are available via short cuts, from the contextual menu (the best is to have a look at it!) and from a button palette which appears at the top or bottom of the viewport.



2. Installation

- The plugin requires **LibFredo6 v3.1f or higher**, if you do not have it installed already.
- **Unzip 'HoverSelect_11.zip'**, by doing a *Select All* and then *Extract in Plugins directory of Sketchup*, in order to make sure you reconstruct the folder hierarchy. The footprint should be (Windows environment):

| Name | Type |
|----------------------------------------------------|---------|
| c:\program files\google\google sketchup 7\plugins\ | Folder |
| HOVERSELECT_Dir_11 | Folder |
| LIBFREDO6_Dir_31 | Folder |
| LibFredo6.rb | RB File |
| ZLoader__HoverSelect.rb | RB File |

On Mac, the right directory is:

Macintosh HD/Library/Application Support/Google SketchUp 7/SketchUp/plugins



- **Language:** Initially *English* and *French*
- **Menus:** by default, it is installed in **Tools > Fredo6 Collection**
- **Icon toolbar:** by Default **Fredo6 Utilities**. There is only one icon
- **Default Parameters:** Plugin configuration and specific parameters.

3. Modifiers

By default, the plugin selects individual edges. This mode can be



CTRL alone: extend to **Curve** edges (if applicable)



SHIFT alone (Follow mode): extend to collinear and co-facial edges, as well as edges which are roughly in prolongation of the selected edge (angle < 30 degrees by default, but you can modify it **via the VCB**). This mode also selects a curve by one of its edge.



CTRL + SHIFT alone: extend to **all connected edges** of the selected edge. This mode indeed includes the 2 others.

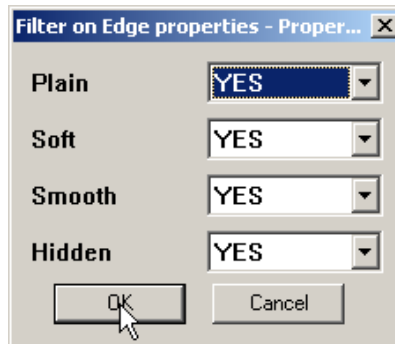


The initial modifier value can also be set in the Default parameters across Sketchup sessions.

- **Un-Selection always works in individual edge mode**, as it is supposed to help you correct the selection.
- Ctrl and Shift keys works
 - in **Toggle mode** (quick down and up) which sets *permanently* the mode
 - in **Modifier mode** (maintain down for more than 1 second while selecting), which only apply the modified mode while the keys are down.

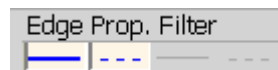
4. Filter for Edge properties

By default, the plugin all types of edges. You can however filter the properties via a Dialog Box (short cut TAB) within the Sketchup session:



The default filter can also be set in the Default parameters across Sketchup sessions.

You can also use the button palette to set the filter:

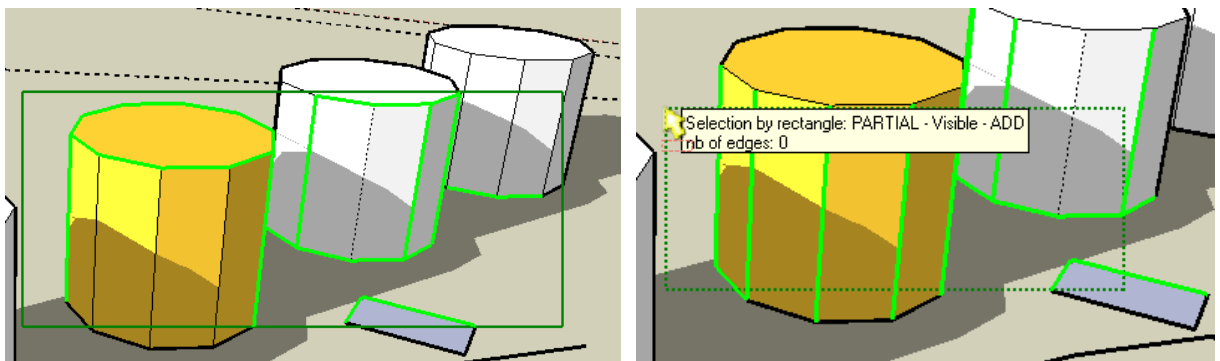


5. Rectangle Selection

If you click anywhere except on an edge, and then drag the mouse, you will start the rectangle selection mode. As in Sketchup:

- Dragging **Left to Right** will select any edge fully enclosed within the rectangle (plain).
- Dragging **Right to Left** will select any edge partially enclosed within rectangle (dashed).

HoverSelect will **only select edges that are visible from the camera viewpoint** (which is not a functionality available in Sketchup).



By hitting **SHIFT** or keeping it down while dragging, you can however shift to the Sketchup mode where **all edges, visible or not, are selected**. The Rectangle gets thicker.

By hitting **CTRL** or keeping it down while dragging, you can switch to the **Un-Select mode**. The rectangle will become Red.

When there are not too many edges displayed in the current view, the tool provides a interactive visual feedback of which edges are selected or unselected. This is deactivated when there are too many edges, for performance reasons. You can adjust the limit in the Default Parameters dialog box.

NOTE: the selection of visible-only edges is actually quite consuming in CPU and may take some time when your model contains a significant number of entities at model level. A message 'PROCESSING...' is shown while the tool computes the selection.

6. Precision for Picking Edges

You can adjust the precision for picking edges. The default is the same as in Sketchup (5 pixels normally), but you can set it to a higher value via the Default Parameters dialog box. The plugin also tries to manage fast move of the mouse and catch all selected edges by mouse-over.

7. History Navigation

The plugin maintains a full history of the selection / un-selection operations, which can be manipulated via the Arrow keys (or contextual menu):

- **Arrow Left:** undo last operation (select or unselect)
- **Arrow Right:** redo last operation
- **Arrow Down:** undo all operations since last click down
- **Arrow Up:** redo all operations since last click down
- **Escape:** Clear all Selection (you can undo it by Arrow Right)



8. Default Parameters

You can set persistently some parameters across Sketchup sessions via the Default Parameters dialog box.

Here are the parameters specific to HoverSelect:

| Active Options at start up | |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clear Selection when tool activated | <input type="checkbox"/> |
| Aperture for picking in pixel (0 means Sketchup default) | 10 |
| Feedback for Rectangle selection when nb of elements is lower than | 800 |
| Selection modifiers | <input type="checkbox"/> All Connected <input type="checkbox"/> Curve <input type="checkbox"/> Follow |
| Filter for Edge properties | <input checked="" type="checkbox"/> Plain <input checked="" type="checkbox"/> Soft <input type="checkbox"/> Smooth <input type="checkbox"/> Hidden |
| Maximum Edge Angle for Follow mode (degree) | 30.0 |

You can also configure the integration of the plugin in Sketchup (toolbar in particular):

| Plugin Configuration | |
|----------------------------------------------------------|------------------------------------------------------------------|
| Dossiers alternatifs pour les icones, curseurs et images | <input type="text"/> |
| Toolbar name | Fredo6 Utilities |
| Icons visible in the toolbar | <input checked="" type="checkbox"/> Sélection d'arêtes en survol |
| Top Menu | Fredo6 Collection (Sketchup - Tools) |