# **Selection Tools - User Manual**

## Introduction

Selection Tools is a plugin for Rhino 3D, designed to provide additional selection tools.

## **Plugin installation**

## **Overview**

The plugin installer can be downloaded at: https://www.tomkod.com/product/selection-tools/ A free trial is included, and yearly licenses can be purchased on the aforementioned page. *Selection Tools* works for Rhino 6<sup>1)</sup> and Rhino7<sup>2)</sup>.

## Yak

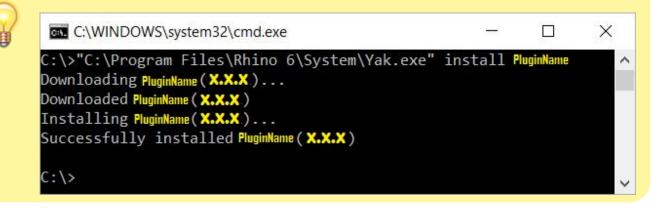
Our plugins are also compatible with <u>Yak</u>, Rhino's new package manager<sup>3)</sup>, which is basically an application store for Rhino. You just need to call Rhino's command **PackageManager**:

tomkod				
0	AttributeAnalysis v2:0.4-beta AttributeAnalysis is a tool designed to give you a fast Analysis of your rh	Name:         AttributeAnalysis           Downloads:         3           Author:         Matthieu Arnold (TomKod)           Installed:		
0	DrawUserTexts v1.0.5-rc This plugin for Rhino6 brings several life changing tools for your 2D drawi	Version:         2.0.4-beta ~           Date published:         lundi 14 décembre 2020           Url:         https://www.tomkod.com/ product/attribute-analysis/		
	LightweightSurvey v1.0.3-beta This plugin for Rhino allows your technicians to conduct a vessel s full su	Description: AttributeAnalysis is a tool designed to give you a fast Analysis of your rhino model attributes. Select an attribute: all your objects will be colorized automatically and a color key table will be		
0	MarineWeightSchedule v1.1.0 The Marine Weight Schedule plugin for Rhino6 can generate a bill of masses	displayed. You will also be able to select objects by attributes.		
0	RhinoBeamTools v1.1.2 Rhino Beam Tools is a rhino plugin built as a bridge between Rhino and spec	Install		

You can also install from the repository with the following command line:

"D:\Program Files\Rhino 6\System\Yak.exe" install 'PluginName'

If you add this in a batch file (\*.bat) at windows startup, it is probably the best way to keep all your plugins up-to-date 😉



## License activation

#### Prerequisites

The free evaluation can be used once per computer, and requires network access to www.license.tomkod.com

The license activation requires network access to www.tomkod.com Please check your firewall in case of failure.

#### Activation form

The activation window automatically shows up when the plugin is loading and a valid license or trial is not registered. If you want to see, change or remove your license while the plugin is already loaded, you can use the Rhino commands **PluginName License**.

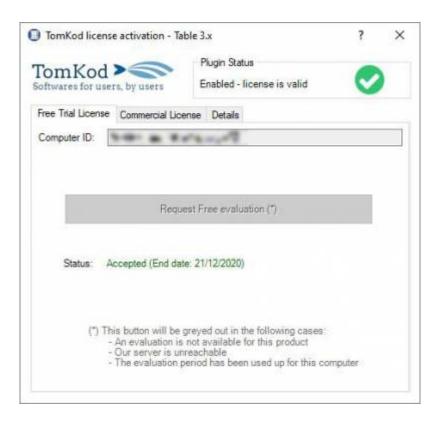
Activation status is always visible on the upper right corner of the form, if the icon is green your plugin will be enabled:



#### Trial Tab

This first tab is dedicated to the trial requests. Your trial status is displayed, and the button is disabled if a trial is not available for your computer (Your trial has already been activated, or the server is

#### unreachable)



#### **Commercial Tab**

This tab's two main buttons let you Check-out (Activate) or Check-in (Desactivate) your license from our license server.

		Plugin Status		
omKod		Enabled - license is valid		
Free Trial License	Commercial License	Details		
Email		.com		
Product key				Ī
2 Enable floa	ling licenses ( Affec	ts every TomKod plugins )		
Use a license cer				
Altern This can av	ative method for off oid network activat	line activation, using a certific ion issues, but the license wor	ate file. It be floating.	
	and the second se			_

When the checkbox "Enable floating licenses" is checked, every TomKod's plugin will try to deactivate the license automatically when closing (Making it available for another of your computers)

Finally, a license certificate (\*.TkLic) can be selected at the bottom of this tab. It allows to activate a

license offline, but the license won't be floating anymore. If you need one, contact us at <a href="https://www.tomkod.com/contact/">https://www.tomkod.com/contact/</a>

## Toolbar

The toolbars for Rhino are always included in your plugins installation directory, or can be downloaded here.

You just have to drag/drop the file "Tomkod.rui" to a rhino window to install them.

## **Features and commands**

## SelectionTools\_About

This command can be used only from the command line prompt. It displays the plugin's current revision and license status.

About			×
SelectionTools - v1.0.5.0			^
Commercial Name: Selection Tools 1.x			
Update Status: Selection Tools 1.x: Your current version (1.0.5.0) is a	in early release candid	late. Latest stable ve	ersion: 1.0.3
Editor: TomKod			
Copyright: Copyright @Ship-ST 2020			
License status:			
Selection Tools 1.x is a ReleaseCandidate. Activation is not required	until the status is cha	noed to commercia	al la l
Computer ID: TomKodDevComputerUniqueID	81.100/00/04/070356/85/85/11		201
CHANGELOG:			
CHANGELOG			
v1.0.5 (Ongoing)			
7 available commands:			
/ available commands:			
SelectByType			
SelectByVolume			
SelectDuplicatedSolids			
SelectionTools_About			
SelectionTools_License			
SelectOneObjByName SelectByBorderDetection			
and a second			~
	Copy All	Save As	Close

## SelectionTools\_License

This command can be used only from the command line prompt. It displays the plugin's activation form.

#### See license\_activation.

### SelectByType

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Pick one or several object types in a list to select every object of those types. The list only contains the object types existing in the model.

#### Walkthrough

- 1. Launch the command
- 2. Select one or several object types
- 3. Click OK to validate

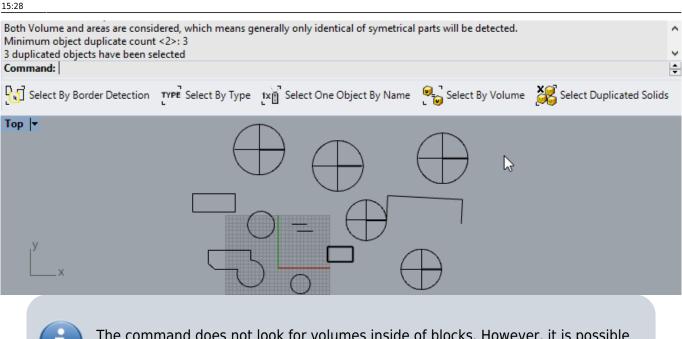
Command: _SelectByType Command:	÷
Select By Border Detection TYPE Select By Type »	

## SelectByVolume

Select extrusions or closed polysurfaces with the same volume, which is useful to find symmetrical parts or duplicates.

### Walkthrough

- 1. Launch the command
- 2. Select a solid<sup>4)</sup>
- 3. Enter the tolerance
- 4. Every solid with the same volume in the model will be selected



The command does not look for volumes inside of blocks. However, it is possible to select a volume belonging to a block when picking the original solid.

#### Preselection

Preselection is allowed if one and only one solid<sup>5)</sup> is preselected.

Options

Tolerance

**Optional tolerance** 

## SelectDuplicatedSolids

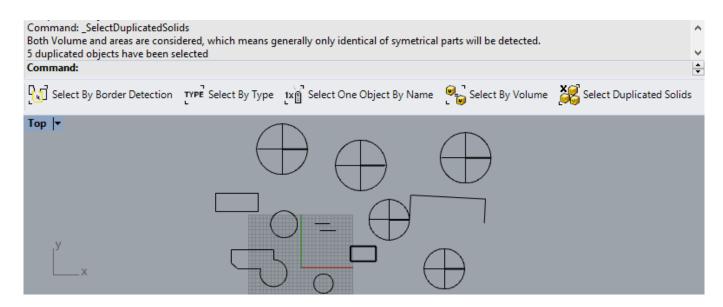
Select every duplicated solid<sup>6</sup>. Every solid having at least X other solids with the same volume & area in the model will be selected.



Symmetrical parts will obviously be considered identical, having both the same areas and volumes.

#### Walkthrough

- 1. Launch the command
- 2. Enter the Minimum object duplicate count
- 3. Enter the tolerance
- 4. Duplicated solids will be selected



#### Options

#### Minimum object duplicate count

A minimum number can be set. For example, if set to 3, the selection will ignore duplicated items when there are only two of them.

#### Tolerance

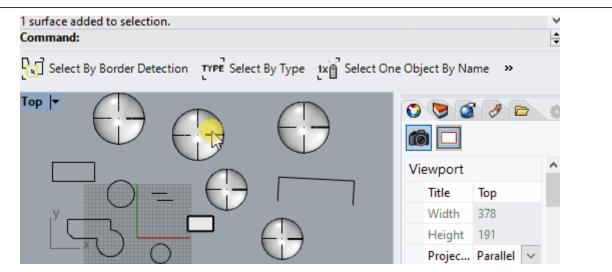
Optional tolerance

## SelectOneObjByName

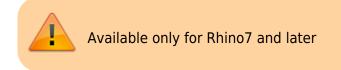
Selects only one object per existing name in the whole model. Useful when readying the model before making detailed drawings.

#### Walkthrough

- 1. Launch the command
- 2. One object is selected for each name



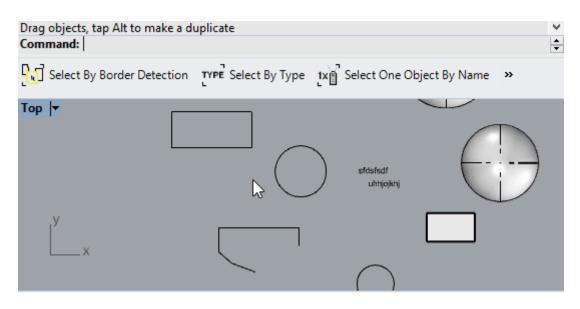
### SelectByBorderDetection



Tries to detect and select a room's walls. Useful for drawings with many short curves delimiting a ship's or building's rooms.

#### Walkthrough

- 1. Start the command
- 2. Hover the model: the result is previewed in real-time



#### Options

TomKod knowledge base - https://wiki.tomkod.com/

#### DetectionRange

Limits the detection range where the command will look for walls. Default value is 1000<sup>7</sup>

Mode

Two modes are available:

- SelectExistingCurves is just a selection of existing objects
- *TryCreateClosedPolycurve* will always returns a closed polyline. If needed line segments may be added.

1) Rhino6.15 or later 2) Tested up to Rhino 7.1 3) Rhino 6 or later only, with graphic user interface for Rhino7 only 4) , 5) , 6) closed polysurface 7) Model Units

From: https://wiki.tomkod.com/ - TomKod knowledge base

Permanent link: https://wiki.tomkod.com/doku.php?id=start:plugins:selectiontools:selectiontools-usermanual&rev=1627306098

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