# **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

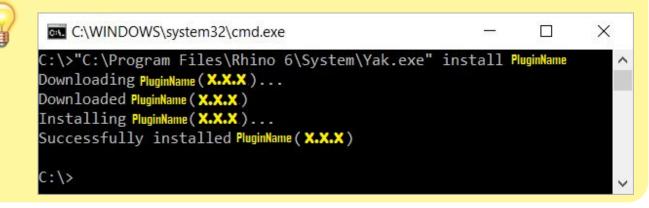
Our plugins are also compatible with <u>Yak</u>, Rhino's new package manager<sup>3)</sup>, which is basically an application store for Rhino. You just need to call Rhino's command **PackageManager**:

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.	
•	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**.

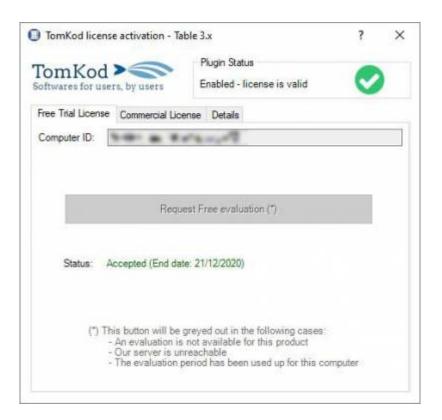
Activation status is always visible on the upper right corner of the form, if the icon is green your plugin will be enabled:



#### 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.

TomKod license	activation - Table	3.x	?
FomKod		Plugin Status Enabled - license is valid	
Free Trial License	Commercial License	Details	
Email		i .com	
Product key			
Activa	ate (Check-Out)	Desactivate (C	heck-in)
Status: Disa	abled		
Enable float	ting licenses ( Affec	ts every TomKod plugins )	
Use a license cer	tificate		
Altern This can av	ative method for offi oid network activati	ine activation, using a certifica on issues, but the license won	ate file. 't be floating.
	Undefined		

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 an el	arly release candid	late. Latest stable v	ersion: 1.0.3
Editor: TomKod			
Copyright: Copyright ©Ship-ST 2020			
License status:			
Selection Tools 1.x is a ReleaseCandidate. Activation is not required unti	il the status is cha	nged to commercia	al
Computer ID: TomKodDevComputerUniqueID			
CHANGELOG:			
>			
v1.0.5 (Ongoing)			
¢			
7 available commands:			
SelectByType			
SelectByVolume			
SelectDuplicatedSolids			
SelectionTools_About			
SelectionTools_License			
SelectOneObjByName SelectByBorderDetection			
SelectoyborberDetection			~
	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.

## SelectByName

Almost the same command as \_SelName, except that instead of choosing the name in a list you pick

an object in the model. Every object with the same name will be selected.

## Walkthrough

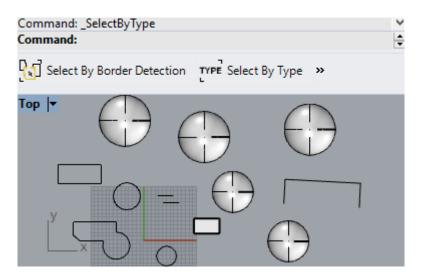


## SelectByType

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

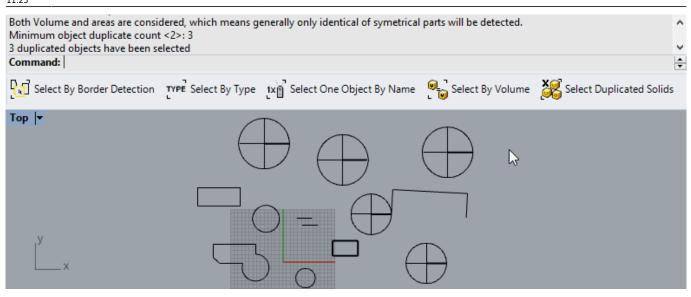


## SelectByVolume

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 solids with the same volume in the model will be selected



#### Preselection

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

#### Options

#### Tolerance

Optional tolerance

## SelectDuplicatedSolids

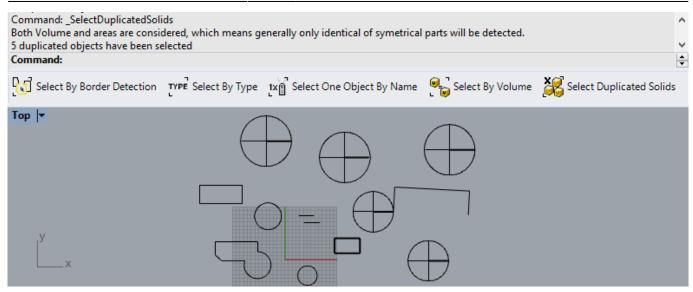
Select every duplicated solid<sup>6)</sup>. Every solid having at least X other solids with the same volume & area in the model will be selected.



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 exemple if set to 3, the selection will ignore duplicated items when there are only two of them.

#### Tolerance

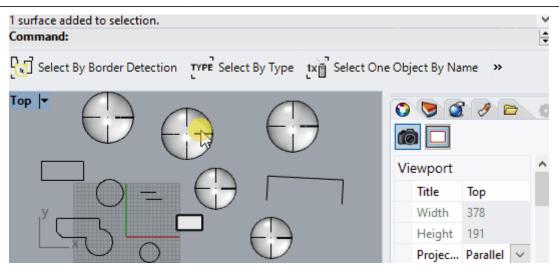
**Optional tolerance** 

## SelectOneObjByName

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

## Walkthrough

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

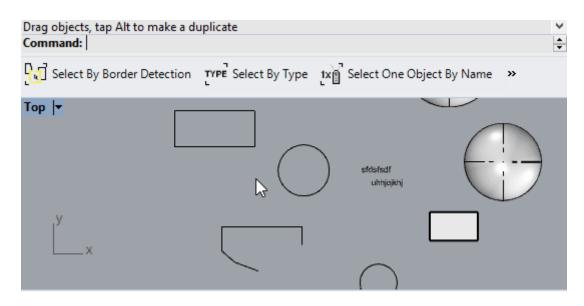


## SelectByBorderDetection

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

#### 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

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• *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

Model Units

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Permanent link:

https://wiki.tomkod.com/doku.php?id=start:plugins:selectiontools:selectiontools-usermanual&rev=1610360733

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