

# **VTK Export for SketchUp Help**

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# VTK Export for SketchUp Help

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Welcome to *VTK Export for SketchUp* Help!

This help file provides all the information you need to understand and use *VTK Export for SketchUp*. Click the links below or use the Contents tab on the left to browse help topics. You can also scroll the topics on the above right hand pane.

The *VTK Export for SketchUp* help file is divided into the following sections:

- [Introduction](#) - Introduction to *VTK Export for SketchUp*.
- [Command Reference](#) - Quick reference of all the commands added by *VTK Export for SketchUp*.
- [Tutorial](#) - Tutorial to get you started in the shortest possible time.

If you need any additional information please [contact](#) SYCODE.

**Note:**

- Please refer to the "Loading Instructions" section in the [ReadMe](#) file to load *VTK Export for SketchUp* plug-in file into the SketchUp environment.
- Please read the [License Agreement](#) before using the software.

# Introduction

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*VTK Export for SketchUp* is a Visualization Toolkit VTK file export plug-in for Google SketchUp®. This plug-in gives SketchUp the ability to export objects from SketchUp to ASCII and Binary VTK files.

*VTK Export for SketchUp* tessellates objects in a SketchUp document into a set of triangular meshes. These meshes are then exported to a VTK file as mesh objects. The VTK file can then be imported into a variety of CAD applications.

*VTK Export for SketchUp* is very easy to use. Once installed, it automatically loads itself into SketchUp and adds a new submenu called "VTK Export for SketchUp" to the SketchUp Plugins menu containing these newly added commands.

*VTK Export for SketchUp* comes with detailed documentation as well as a [tutorial](#) to get you started in the shortest possible time.

If you need any additional information please [contact](#) SYCODE.

## **The VTK File Format**

The Visualization ToolKit (VTK) is an open source, freely available software system for 3D computer graphics, image processing, and visualization used by thousands of researchers and developers around the world. VTK consists of a C++ class library, and several interpreted interface layers including Tcl/Tk, Java, and Python. The Toolkit stores geometric data in a file format known as VTK. Very few CAD applications have the ability to read and write VTK files.

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## ReadMe

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This is the *VTK Export for SketchUp* ReadMe file.

VTK Export for SketchUp is a plug-in for Google SketchUp

Installation:

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The plug-in installation involves copying the plug-in file "VTKEExport.dll" into SketchUp's plug-ins folder typically called "Plugins". The installer automatically does that for you so that the VTK Export for SketchUp is loaded automatically the next time you run SketchUp. For some reason, if the installer was unable to locate the SketchUp installation folder, it will prompt you to specify the folder during the installation process.

Usage:

=====

VTK Export for SketchUp adds new commands to SketchUp. It also adds a new menu to SketchUp called "VTKEExport" under SketchUp's "Plugins" menu containing these new commands. Simply click on the menu items in the "VTKEExport" menu to run these new commands.

The new commands are:

- 1) Export - Export a Visualization Toolkit VTK file
- 2) Help - Display the VTK Export for SketchUp help file
- 3) Register - Register your copy of VTK Export for SketchUp
- 4) About - Display the VTK Export for SketchUp about box

Sample files are copied into the Samples folder (typically "C:\Program Files\SYCODE\VTK Export for SketchUp\Samples"). You can use these sample files to try VTK Export for SketchUp.

Support:

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For support, please E-Mail [support@sycode.com](mailto:support@sycode.com)

## Contact

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Mailing address	S1/116, Nova Cidade Complex, NH 17, Alto Porvorim, Goa - 403521 India
Phone	+91 9822689298
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Web Site	<a href="http://www.sycode.com">http://www.sycode.com</a>

# Command Reference

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*VTK Export for SketchUp* adds new commands to SketchUp. It also adds a submenu to the SketchUp menu called "VTK Export for SketchUp" containing these new commands. Simply click on the menu items in this submenu to run these new commands.

<a href="#">Export</a>	Export a Visualization Toolkit VTK file
<a href="#">Help</a>	Displays the <i>VTK Export for SketchUp</i> help file
<a href="#">Register</a>	Registers your copy of <i>VTK Export for SketchUp</i>
<a href="#">About</a>	Displays the <i>VTK Export for SketchUp</i> about box

## Export

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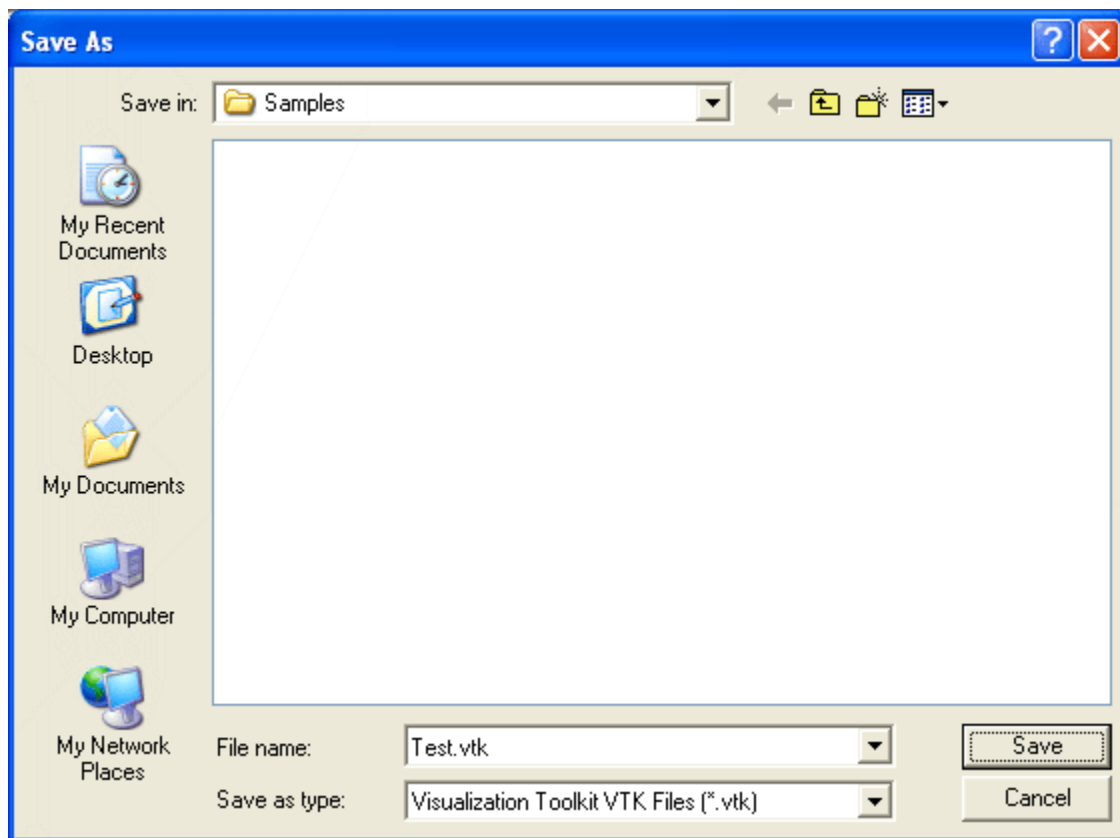
**Menu Button**                    Plug ins > VTK Export for SketchUp > Export

---

This command exports to a VTK files.

### To export to a VTK file

1. Select *Export* from the "VTK Export for SketchUp" submenu.
2. The SketchUp "Save As" dialog box is displayed. Enter an output VTK file name and click *Save*.



3. The "VTK Export for SketchUp Options" dialog box is displayed. Select the options as required and click *OK*.

## Help

---

**Menu Button**

Plugins > VTK Export for SketchUp > Help

---

This command displays the help file. The [Welcome](#) page is a good place to start.

## Register

---

**Menu Button**Plugins > VTK Export for SketchUp > Register

---

This command is used to register your copy of *VTK Export for SketchUp*

The dialog box contains the product name (including version) and lock number. During the trial period this dialog box will be displayed every time you run the command. You can click the "Continue Trial" button to close the dialog box and continue evaluating the software. After the trial period ends, you will have to enter the key to continue working.

The Product Registration dialog box is shown below.



The image shows a Windows-style dialog box titled "SYCODE Product Registration". It contains five text input fields: "Product" (VTK Export for SketchUp 7 version 1.0), "Lock" (1018983868), "Key" (123456789), "Name" (John Smith), and "Company" (ABC Company). Below the fields is a message: "You have 10 days or 10 runs left in the trial period. To place your order please click the 'Order' button." At the bottom are four buttons: "Register" (highlighted with a dotted border), "Continue Trial", "Order", and "Request Key".

**Note:**

- To avoid disruption in your work-flow we urge you to place your order before the trial period ends.

## About

---

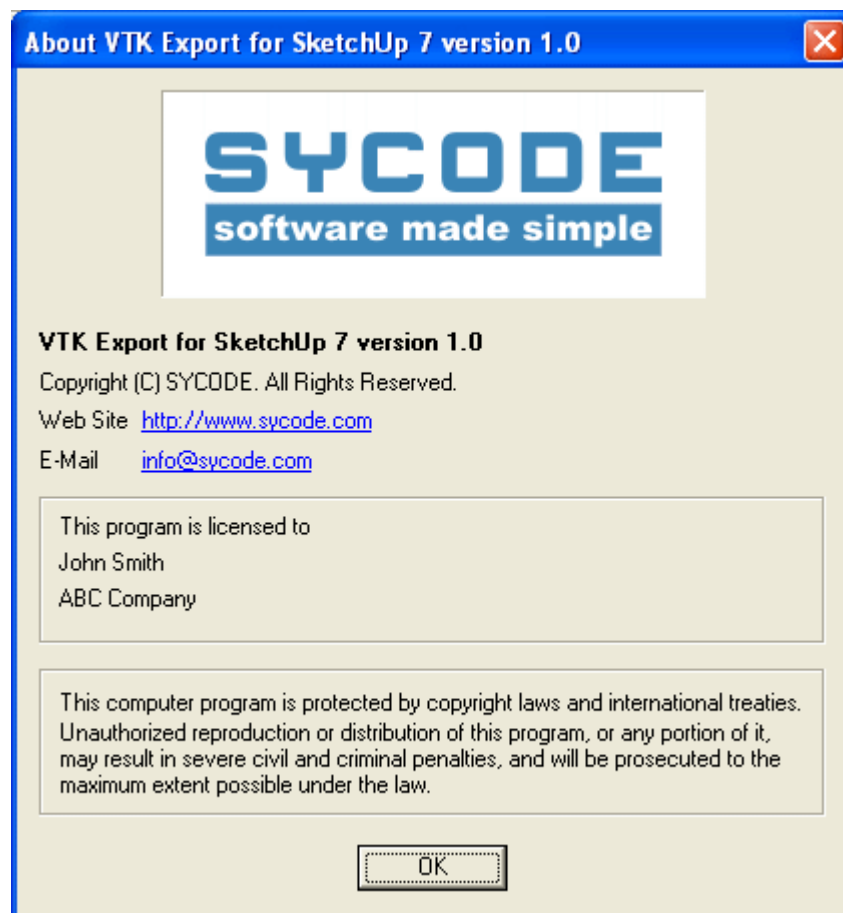
**Menu Button**

Plugins > VTK Export for SketchUp > About

---

This command displays the *VTK Export for SketchUp* About box. The About box lists the software version and name of the person and company the software is licensed to.

The software version has three parts: major version, minor version and build number (in the form #.#.#). In the About box shown below the version is 1.0, which translates as major version = 1, minor version = 0. There is no build number.



# Tutorial

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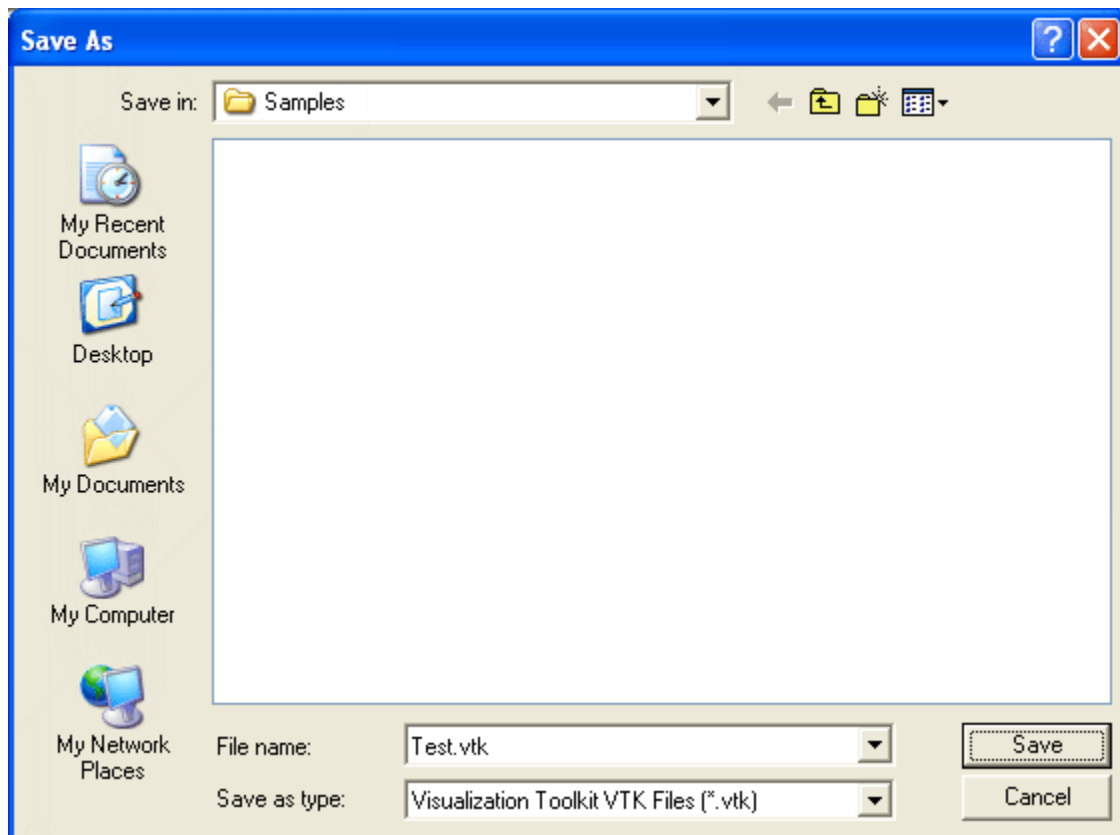
This tutorial provides the necessary information and hands-on experience to help you get started with *VTK Export for SketchUp*.

**Step 1:** Start SketchUp.

**Step 2:** Select *Open* from the "File" menu. The SketchUp "Open File" dialog box is displayed. Browse for the file typically located at "C:\Program Files\SYCODE\VTK Export for SketchUp\Samples\Sample 1.skp") and click *OK* to open.

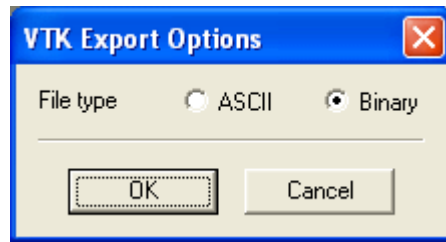
**Step 3:** Run the *Export* command (Plugins > VTK Export for SketchUp > Export).

**Step 4:** The SketchUp "Save As" dialog box is displayed. Enter an output VTK file name and click *Save*.



**Step 6:** The "VTK Export for SketchUp Options" dialog box is displayed. Select the options as required and click *Ok*.

## VTK Export for SketchUp Help



The model will be exported to the VTK file you specified.