3skeng - Starting Guide

To use 3skeng tools and libraries for SketchUp on your computer, you may follow the whole guide or just jump to topics of interest by clicking on a title below!

Table of contents

Norsk leverandør:
Infinity Innovations as - www.infinity.no

1) Download 3skeng

Go to www.3skeng.com and browse to the download section.

Download Ruby file for the installation of the 3skeng extension in SketchUp for both MAC OS and Windows OS.

3skeng download
a few steps and your work will become a lot easier...

English ▾

home »
products »
download »
buy 3skeng »
tool comparison »
release notes »
friends of 3skeng »
learn »
info »
faq »
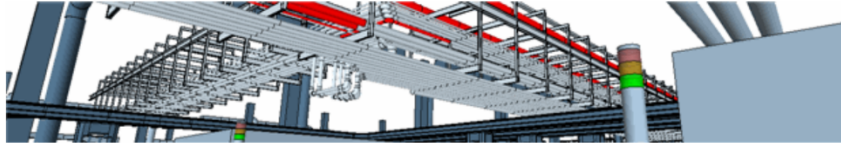
Get a copy of your 3skeng tool(s) in just a few steps!

Learn how to download, install, troubleshoot, activate purchase 3skeng by following the guide 3skeng - Starting Guide.pdf.
Work with the tool(s) for a **free** trial period of 30 days.
You want to use the tool(s) **after** the free trial period? Click here to learn more about the license model, prices and how you can buy 3skeng tool(s) and libraries.
Have fun working with 3skeng tools!

Learn more about the latest and recent 3skeng for SketchUp versions:

3skeng tool comparison
3skeng release notes

Universal Installer in rbz-format for installation in SketchUp (MAC & Win)

"3skeng 2020" Installer for AR/List/Pipe/Mount/Steelwork/Channel for SketchUp PRO/Make 2020/2019/2018/2017 Windows PC (32 & 64 bit) and MAC available as universal installer (ruby-file *.rbz).
Latest version: 2020.3.050.011

DOWNLOAD

Installation of Ruby Plugins

The "**3skeng AR 2020 Tool**" for SketchUp is free. The use together with the Microsoft HoloLens requires an active license of the 3skeng HoloLens AR App for Windows. It is available for purchase as introduction offer with 32% off in the Microsoft App Store for ~~995~~ 650 US-$ (~ ~~879~~ 599 €).
IMPORTANT: 3skeng AR works with SketchUp 2019 and 2020!
Follow the link to the 3skeng AR app in the Microsoft Store: 3skeng AR App

"**3skeng List 2020 Tool**" only 89 US-$ (~ 82 €), upgrades 39 US-$ (~ 36 €).

"**3skeng Pipe 2020 Tool**" only 399 US-$ (~ 366 €), upgrades 179 US-$ (~ 165 €).
Detail libraries can be used for one year and start at 59 US-$ (~ 54 €).

"**3skeng Mount 2020 Tool**" only 299 US-$ (~ 274 €), upgrades 139 US-$ (~ 128 €).
INCLUDING "Threaded Rods and Pipe Clips" detail library
INCLUDING "C-Channel" detail library

"**3skeng Steelwork 2020 Tool**" only 299 US-$ (~ 274 €), upgrades 139 US-$ (~ 128 €).

"**3skeng Channel 2020 Tool**" only 169 US-$ (~ 155 €), upgrades 79 US-$ (~ 72 €).

Downloads of previous Versions

▸ **Download previous version "3skeng 2019" for SketchUp 2019/2018/2017**

▸ **Download previous version "3skeng 2018" for SketchUp 2018/2017/2016**

▸ **Download previous version "3skeng 2017 (ver.2)" for SketchUp 2017/2016/2015**

▸ **Download previous version "3skeng 2017 (ver.1)" for SketchUp 2017/2016/2015/2014**

▸ **Download previous version "3skeng 2016" for SketchUp 2016/2015/2014**

▸ **Download previous version "3skeng 2014" for SketchUp 2015/2014**

2) Installation of 3skeng

Installation of 3skeng by Ruby file for SketchUp 2020/2019/2018/2017
- IMPORTANT:
  Login on your computer as the user (account) who will use SketchUp with 3skeng!
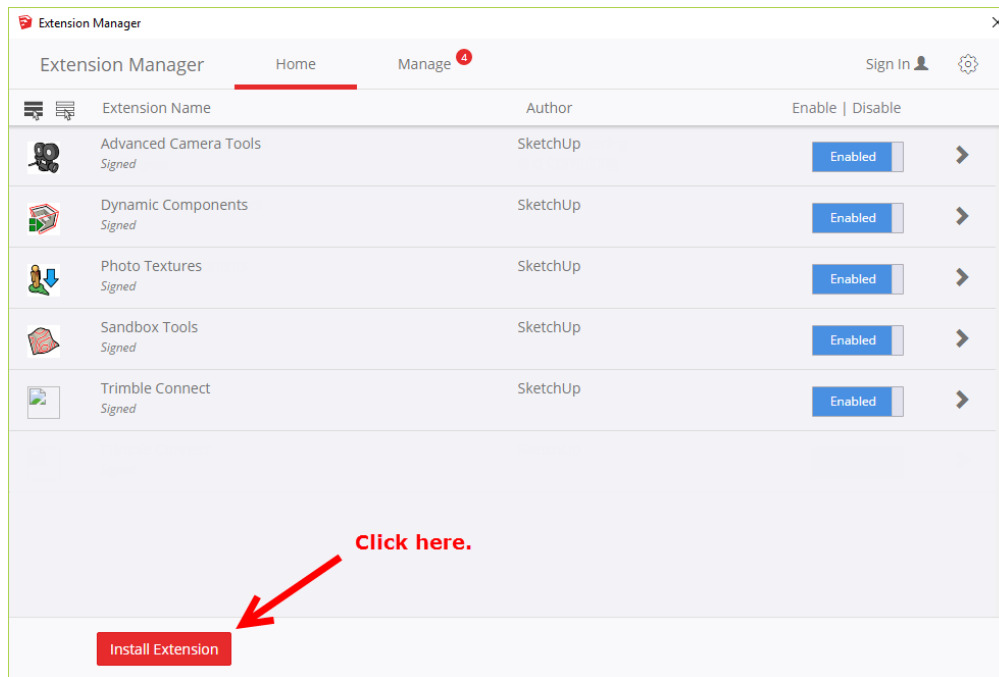- Select **Window > Extension Manager**
   The Extension Manager dialog box is displayed.
- Click on **Install Extensions** (see screenshot). The Open dialog box is displayed.
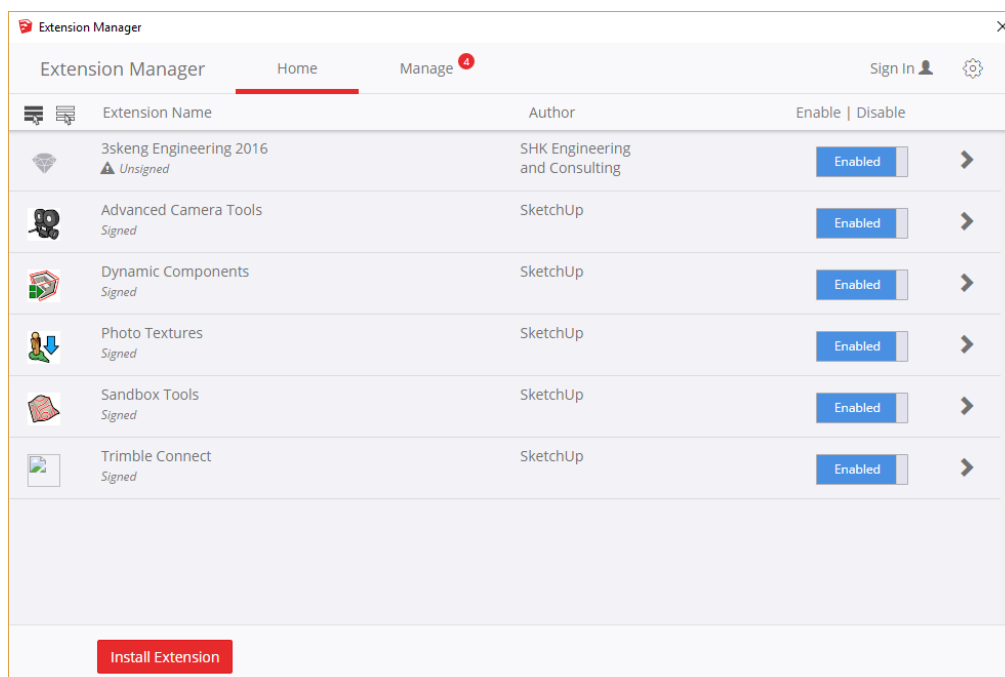- Locate the Ruby zip file to install (3skeng_xxxx.rbz).
- Click on the **Open** button.
- After the installer completes, quit and restart SketchUp.

- Open the "Extension Manager" dialogue box again.
- Make sure that "3skeng Engineering 20xx" can now be found in the list of extensions and the button is set to "Enabled".

3) Request activation key for 3skeng

a) Open SketchUp and click on the 3skeng symbol in the 3skeng toolbar.

b) The 3skeng activation window opens.

c) Please enter your email-address:

Current/Registered users:

Enter the same e-mail that you used previously for 3skeng activations & purchases (already user). *In case you forgot: The address can be found by opening a previous version of SketchUp where an earlier version of 3skeng was installed. Click on the 3skeng symbol in the 3skeng tool palette. The email address that was used to previously register 3skeng will be displayed.*

New users:

Enter an e-mail you have access to and want to use as the future user (new user).

d) Select if you are already a 3skeng user or a new user.

e) Fill out the short survey on the right with your main usage for 3skeng, your country (required) and your industry.

f) Click on "get activation code".

g) Do not close the activation window.

4) Activation of 3skeng

An activation key (one-time use) will be sent to the specified email address.
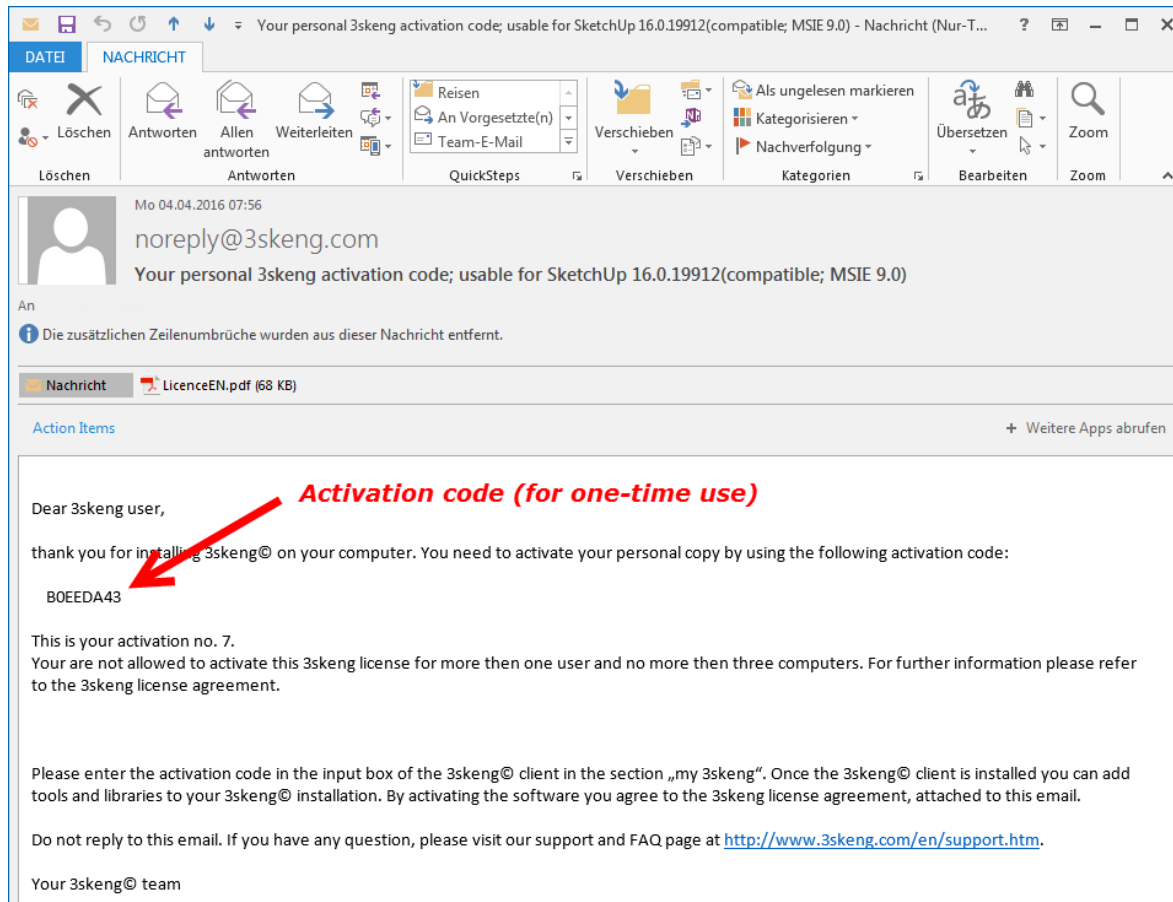
If you do not get an email, make sure the email address is correct and check your junk email folder!
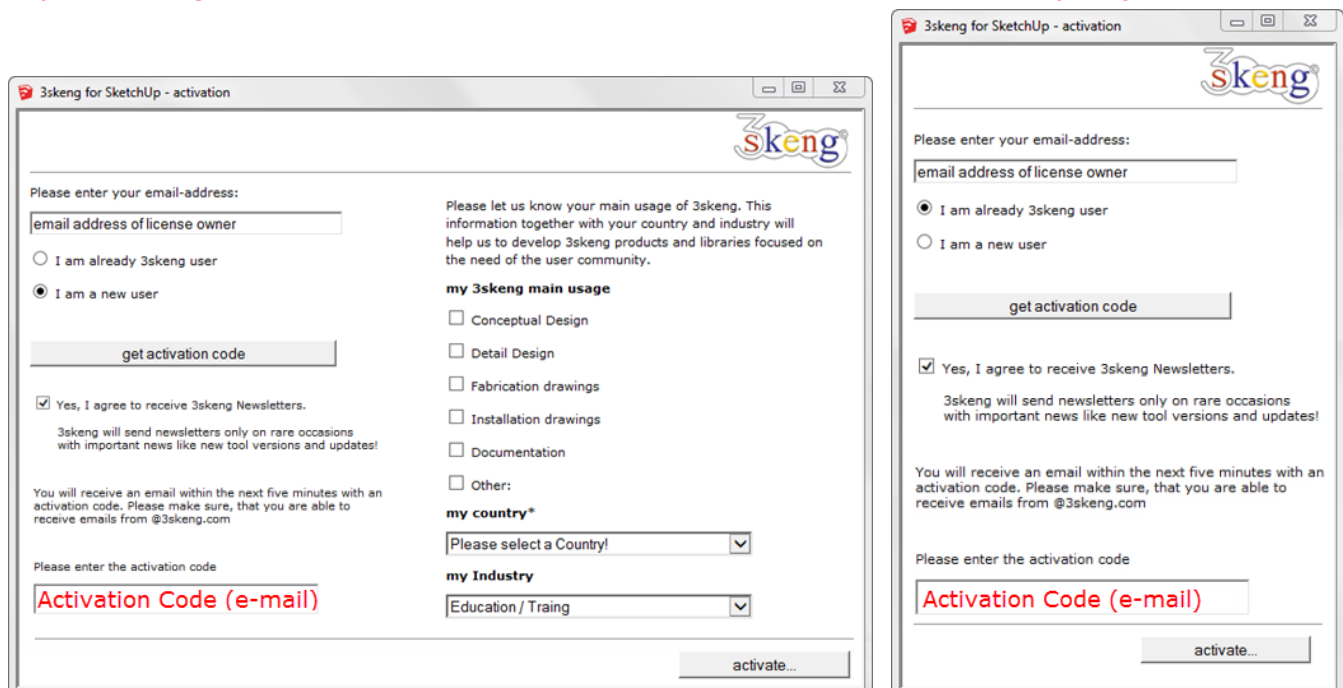
a) Enter the activation code from the email in the appropriate field.
b) Click on "activate…".
c) Allow 3skeng to download required files. Please have a little patience for this process...
d) Restart SketchUp when prompted.
e) Allow 3skeng to generate your local database after the restart of SketchUp.

5) Explanation of the client tab "my 3skeng"

The 3skeng client tab "my 3skeng" (see screenshot) gives you an overview of your account:

my 3skeng account

Account: shows the account holder (e-mail address) that is currently activated.

Version: shows the 3skeng version that is currently installed.

my 3skeng tools

The latest 3skeng version (e.g. 3skeng 2019) requires tool upgrades in case you own tool licenses of any previous 3skeng version (e.g. 3skeng 2017).

The current tool status is indicated by different symbols. The calendar symbol means that the tool is a trial version and requires an upgrade after the expiration of the trial time.
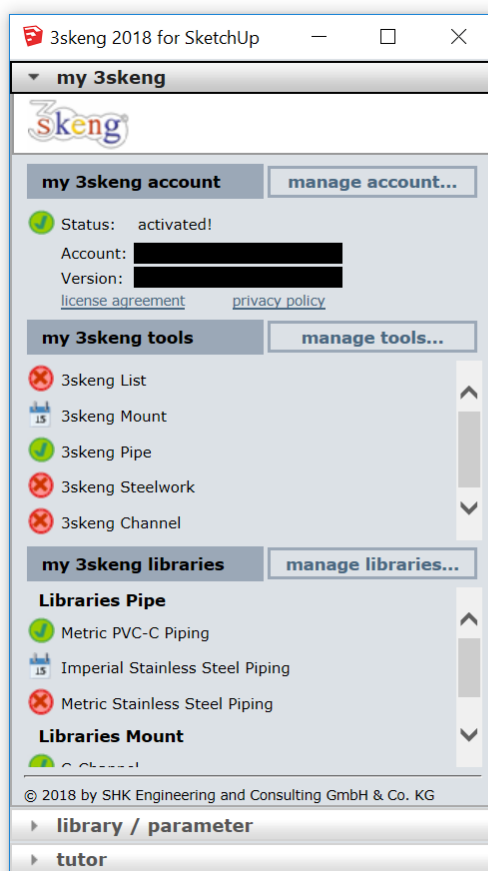
Clicking on "manage tools…" allows you to add (purchase) new or upgrade licenses for the tools.

my 3skeng libraries

Libraries for the "Pipe" and "Mount" tool with remaining use time are available for all tool versions. They only require an extension in case they are expired.

Clicking on "manage libraries …" allows you to add (purchase) libraries.

6) Add tools (purchase)

Go to "manage tools" in the 3skeng client window tab "my 3skeng" (see screenshot) to access the purchase window for tools and tool upgrades. Click on "Buy now…" to start the purchase process of a tool. You can pay by PayPal or credit card (American Express, JCB, MasterCard and VISA).

Depending on your home country and security settings of your credit card, 3skeng purchases by credit card may be declined by your credit card company. You can temporarily unlock international transactions and allow specific countries on request (Germany for 3skeng purchases). Please contact your credit card company or issuing bank in such cases.
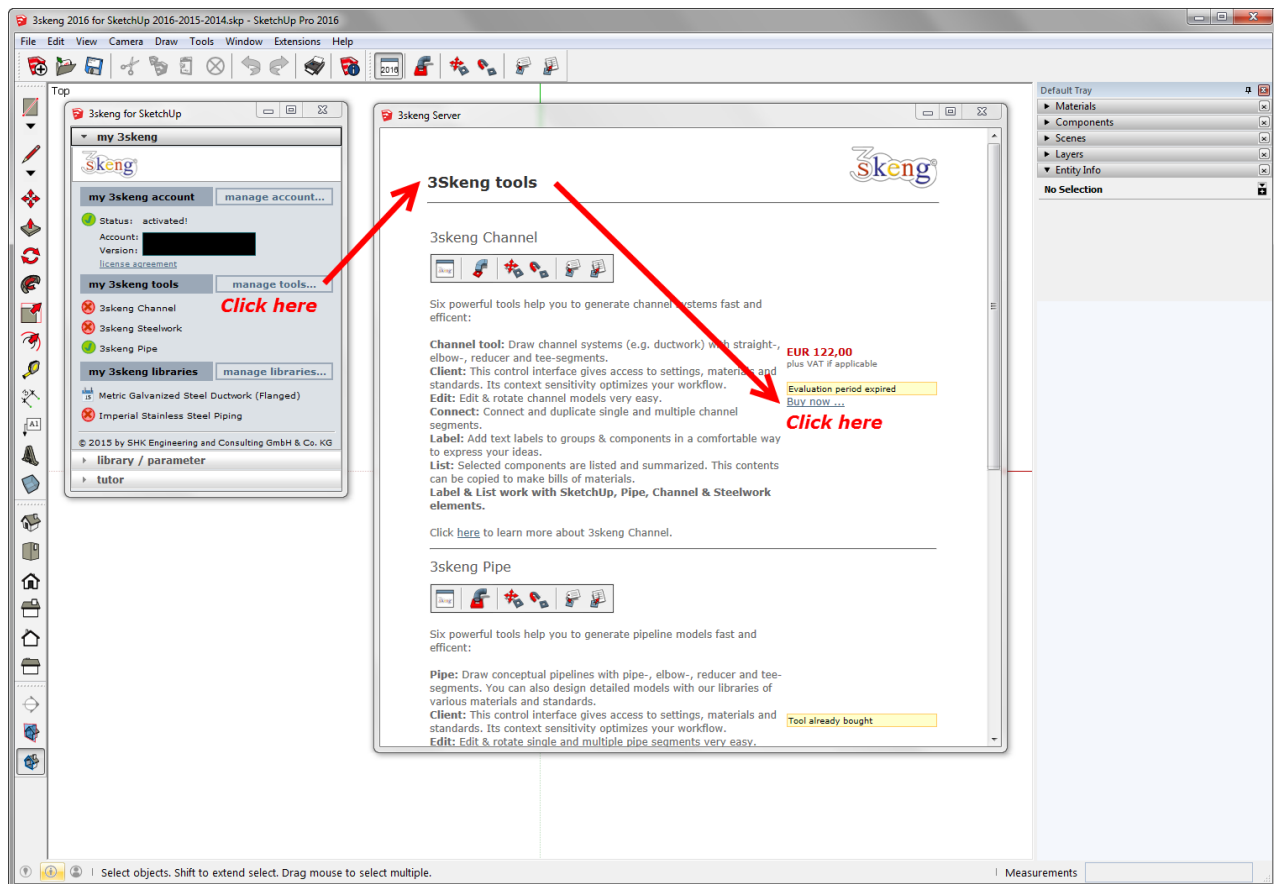
Learn more about the 3skeng license terms for tools and libraries here:
http://www.3skeng.com/3s-products/License3skengEn.htm

7) Add detail libraries (Purchase)

To get an overview of the available libraries, please open the 3skeng client tab "my 3skeng" and click on "manage libraries". Every tab contains the available libraries of the correspondent material. There is a pdf-file with the library elements (content) for every library. First click on "[…more…]" and then on "here" to open the pdf-file of the library.
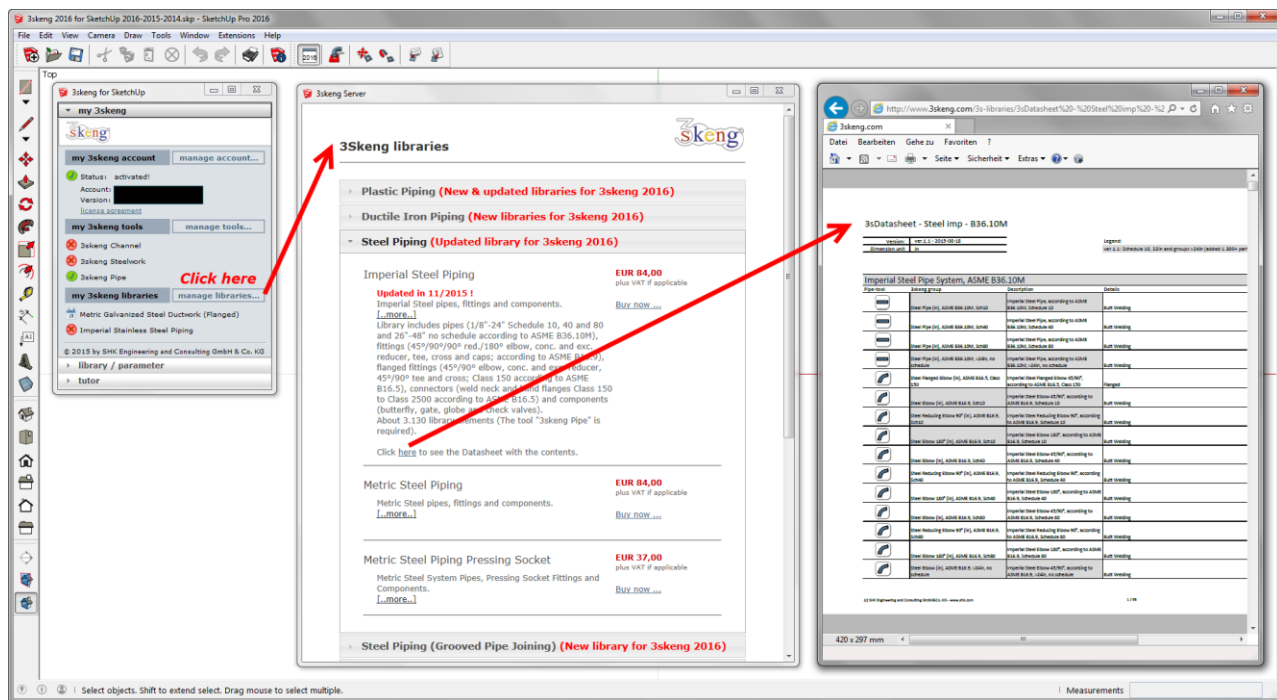
To add a library, open the 3skeng client tab "my 3skeng" click on "manage libraries" and click on "Buy now" to purchase a detail library.
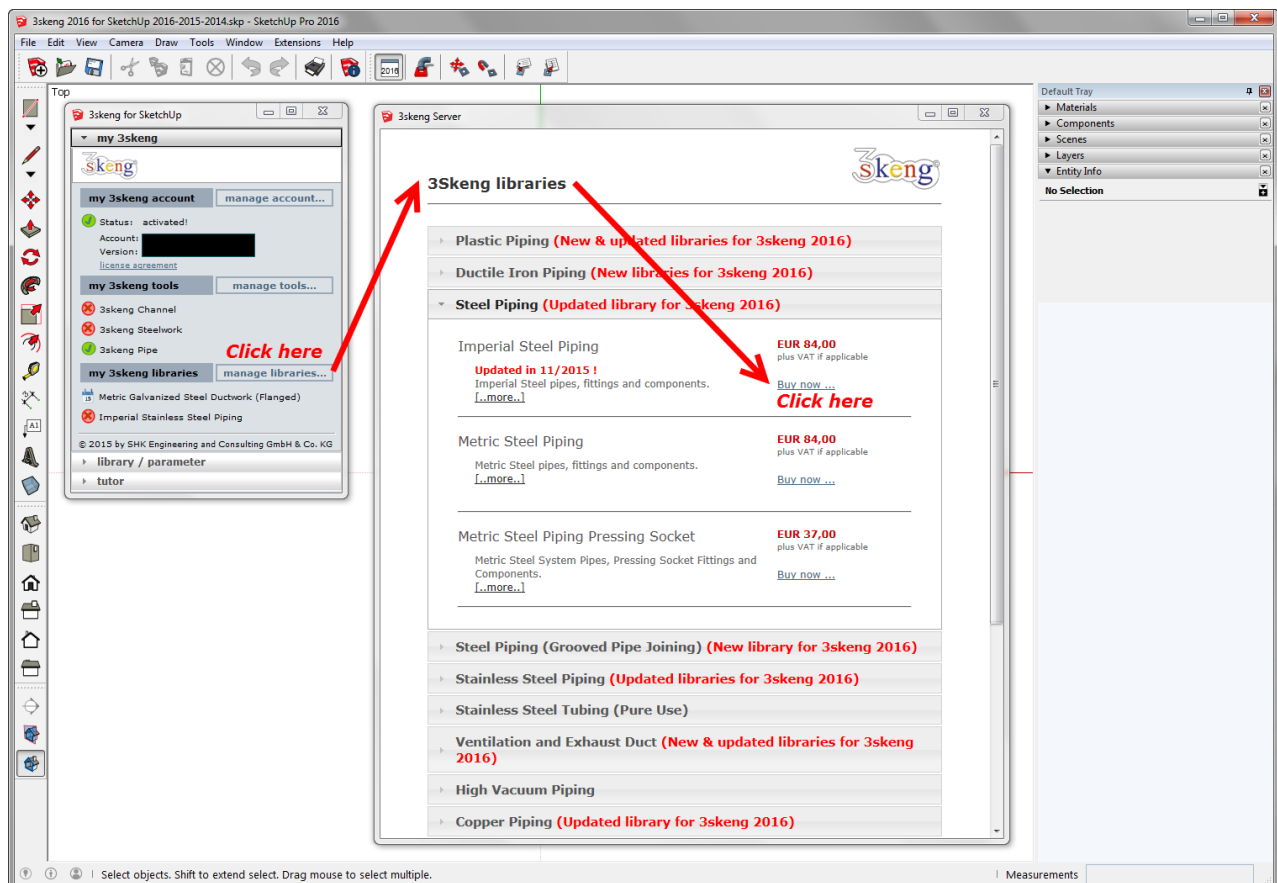
8) How to buy

A) Use the integrated shop of the 3skeng software
You can buy in the integrated shop after installation and activation (please see picture below). We accept the payments methods PayPal, Credit Card (AMEX, JCB, MasterCard and VISA) and prepayment by bank transfer.

Your purchased license is directly added to your account after successful payment and you receive an invoice of the purchase (You will not receive a transaction key). The license can be used after synchronization of 3skeng and restart of SketchUp. With prepayment by bank transfer, you will receive license and invoice only after the money arrived in our account.

Good-to-know: We work with approved third party payment solution providers. During the purchase process, you are rerouted to the provider's encrypted SSL-page resulting in 3skeng/SHK having no contact with your payment data (e.g. credit card data) at any time whatsoever.

What can I do in case of Credit Card transaction errors?
The most common reason is that your Credit Card company declines international transactions by default. In such a case, please contact your credit card company or issuing bank to (temporarily) unlock Germany for your 3skeng purchase(s).
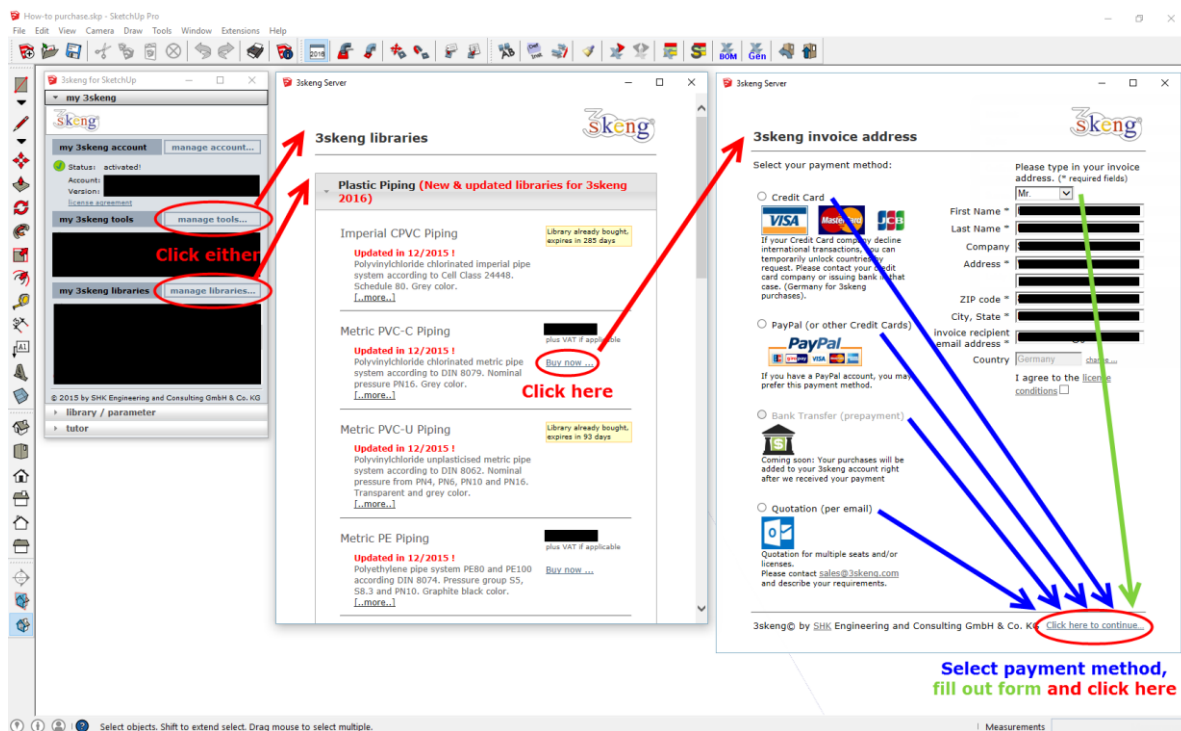
B) Buy 3skeng by invoice
In case you need multiple licenses for your seat and / or seats with multiple licenses for multiple users, we can prepare a custom quotation for you and send an invoice after you decide to buy (Payable by PayPal, Credit Card (AMEX, JCB, MasterCard and VISA) and bank transfer.)
Your purchased license(s) will be delivered by license card with transaction key.
Please contact sales@3skeng.com with your requirements or information request and we will take care of you.

C) Buy 3skeng through resellers
Browse to our website www.3skeng.com and go to "download -> buy 3skeng" where we provide a map with our resellers. Your purchased license(s) will be delivered by license card with transaction key.

9) How to use a transaction key

Purchases through 3skeng by invoice and resellers are handed over by a personal transaction key (for one time use only).

a) Go to "manage account" in the 3skeng client window tab "my 3skeng".

b) Type in your transaction key.

c) Click on button "Activate transaction key and synchronize the database".

d) Your purchased 3skeng license(s) are added to your account (registered e-mail address) in the process.

e) The transaction key is for one time use only and turns invalid after its activation in step d).
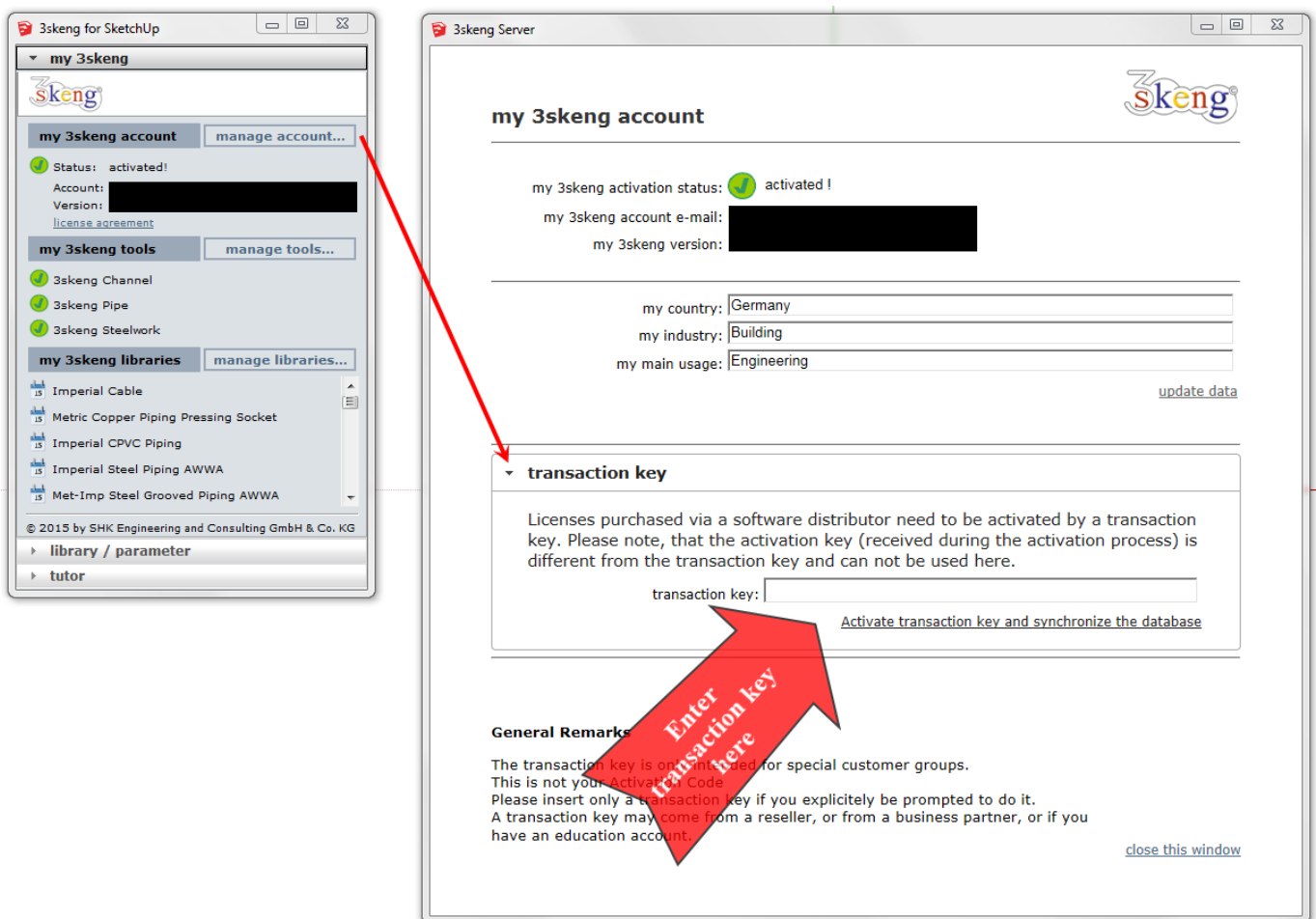
10) How to learn to use 3skeng

3skeng was designed to follow the easy and intuitive use of SketchUp and at the same time provide powerful and useful functionality.

To bring you up to speed with what you can do with 3skeng tools, we provide learning files in SketchUp format.

The files guide you through the available functions of the tools scene by scene.
You are asked to use specific values and angles to allow you to compare your result with the specified result at the end.

Pdf-files that contain the scene descriptions in case you have trouble to read the texts on your screen are also available for download.

We recommend to use the given file order and just skip tools (files) you are not interested in.

Click the following links to download the individual files or an archive that contains all files:

Learn to use (1.1) 3skeng Pipe conceptual (skp)
Learn to use (1.1) 3skeng Pipe conceptual (pdf with scene text)
Learn to use (1.2) 3skeng Pipe detail basics (skp)
Learn to use (1.2) 3skeng Pipe detail basics (pdf with scene text)
Learn to use (1.3) 3skeng Pipe detail advanced (skp)
Learn to use (1.3) 3skeng Pipe detail advanced (pdf with scene text)

Learn to use (2.1) 3skeng Mount basics (skp)
Learn to use (2.1) 3skeng Mount basics (pdf with scene text)
Learn to use (2.2) 3skeng Mount advanced (skp)
Learn to use (2.2) 3skeng Mount advanced (pdf with scene text)

Learn to use (3.1) 3skeng Steelwork basics (skp)
Learn to use (3.1) 3skeng Steelwork basics (pdf with scene text)
Learn to use (3.2) 3skeng Steelwork advanced (skp)
Learn to use (3.2) 3skeng Steelwork advanced (pdf with scene text)

Learn to use (4) 3skeng Channel (skp)
Learn to use (4) 3skeng Channel (pdf with scene text)

Learn to use (5) 3skeng compatible Components (skp)
Learn to use (5) 3skeng compatible Components (pdf with scene text)

Learn to use 3skeng (1)-(5).zip (skp's & pdf's with scene text)

Learning files for previous 3skeng 2018/2017/2016/2014 versions:
Learn to use 3skeng (1)-(7).zip (skp's & pdf's with scene text)

11) 3skeng compatible elements / equipment / facilities / components

The available libraries includes selected standard parts for piping, tubing and ductwork.
There are many manufacturers for many different applications (e.g. pumps, fans, air handling units, valves, dampers, etc.) available on the market. So we are well aware that we cannot fulfill our users' expectations concerning library content (e.g. valve types and sizes) and nature of available libraries (e.g. no air handling unit library).

So we decided to provide a solution / workflow to make your own parts, equipment, facilities and components (e.g. drawn by yourself, 3D warehouse, etc.) compatible to 3skeng functions.
We recommend that you set up your own SketchUp library file(s) that includes all the customized elements you need in your daily workflow.

The parts, equipment, facilities and components you create won't become a part of a 3skeng library directly but 3skeng recognizes integrated reference points and will select the appropriate pipe or connectors (e.g. Flange, VCR-f, etc.) for line attachment and can also work with the functions edit/rotate and connect (e.g. facility / utility connections of an air handling unit).

You just have to consider that the right-click function "select line/all connected" doesn't select these 3skeng-compatible parts as part of the line (if you don't right-click after selecting on all them). This is because this "3skeng compatible component" function can also be used for machines with connections of different utilities and we don't want to select all lines with different pipe materials and different utilities.

The fastest way to make a component compatible to the 3skeng tools is simply to add appropriate 3skeng elements (e.g. flange) or pieces of pipe in that component.

Learn more in chapter 10 where you can get a learning file that guides you through the process of making 3skeng compatible components.

12) Answers for the most frequent questions

3skeng freezes for a longer period of time during some situation / operations?
Please minimize the trays "Components" and "Outliner" as they requires lots of computing power and may lead 3skeng (and other extensions) to freeze!
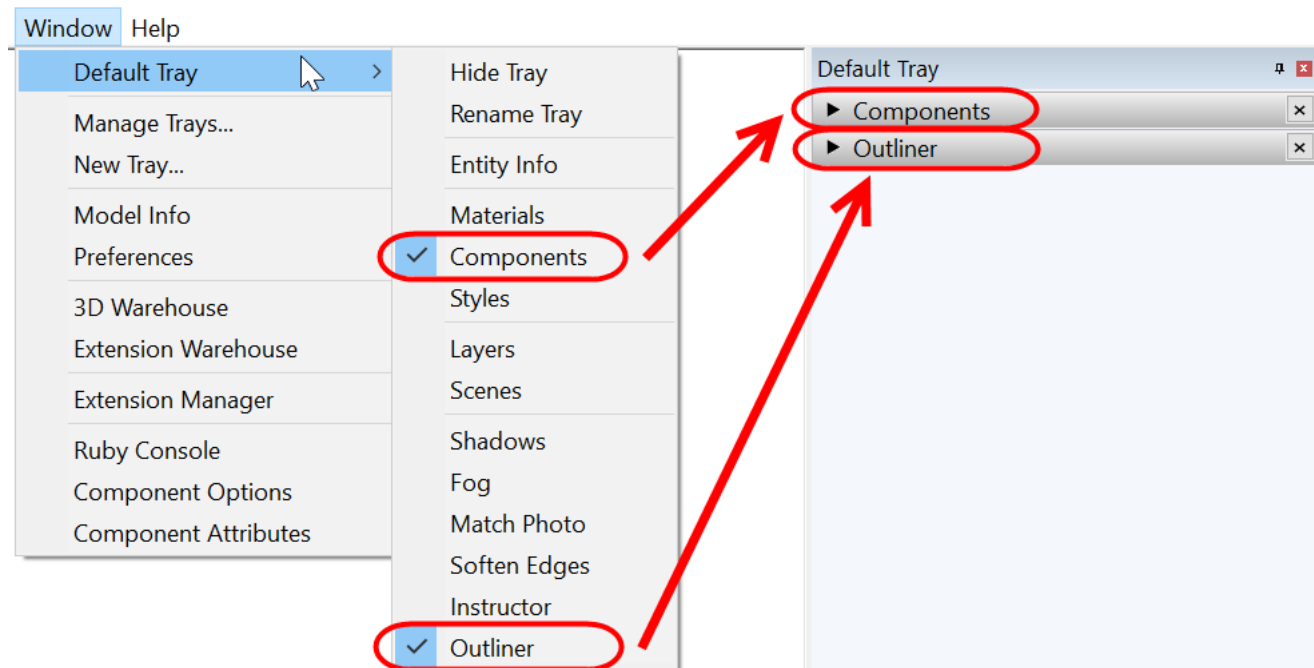
How can I get my 3skeng licenses up and running again in case I have a new computer *or* new SketchUp version *or* new 3skeng version?
Please follow the guide starting from chapter 1 and following.
Please consider: It is very important that you use the same email address that you used for initial activation and purchases to continue using your licenses!

I have problems with my libraries for some reason (e.g. interrupted or defective download). How can I force 3skeng to synchronize the content?
Please click on the menu:
"Extensions \ 3skeng Engineering 20xx \ maintenance \ Check for update… …".
That will trigger 3skeng to synchronize your installation. When prompted, please restart SketchUp and allow it to rebuild the local database.

How can I use another e-mail address (account) for my 3skeng installation?
Please click on the menu:
"Extensions \ 3skeng Engineering 20xx \ maintenance \ Reset local Database…".
That will reset 3skeng and require a new 3skeng activation (please see chapter 4 of that guide). You can enter another e-mail address at that step.
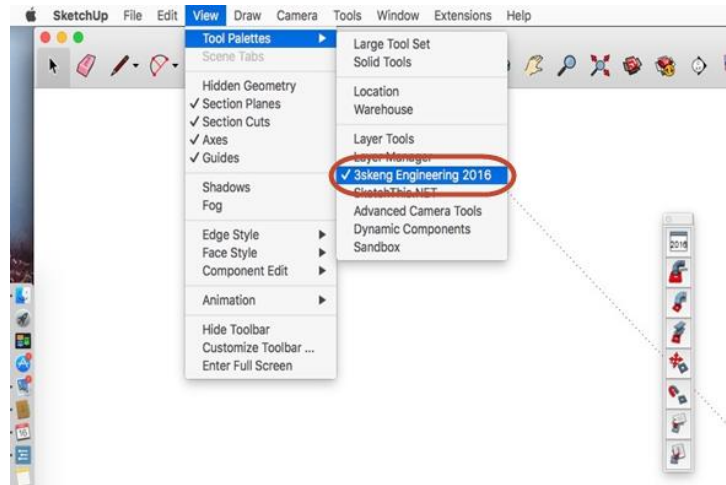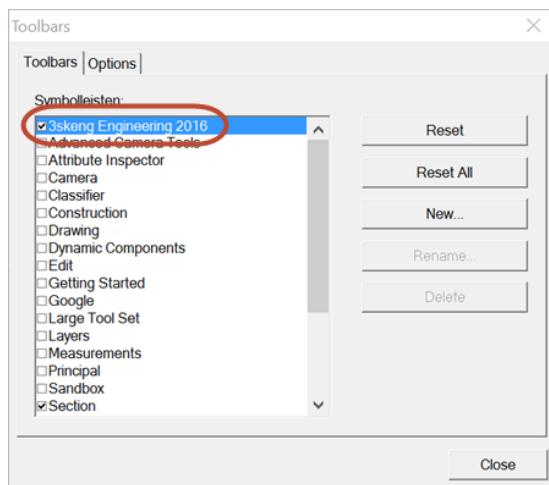
13) How to deactivate and / or uninstall 3skeng

Deactivate 3skeng

To deactivate 3skeng, untag it in:

MAC OS: "View -> Tool Palettes" (dropdown menu).

Windows OS: "View -> Toolbars…"

Uninstall 3skeng

Please deactivate 3skeng (see above), close SketchUp and manually delete the following:

Delete "3skeng 2020" database folder:

C:\Users\%username%\AppData\Roaming\3skeng_V2020\Sketchup 201x

Delete "3skeng 2019" database folder:

C:\Users\%username%\AppData\Roaming\3skeng_V2019\Sketchup 201x

Delete "3skeng 2018" database folder:

C:\Users\%username%\AppData\Roaming\3skeng_V2018\Sketchup 201x

Delete "3skeng 2017" database folder:

C:\Users\%username%\AppData\Roaming\3skeng_V2017\Sketchup 201x

Delete "3skeng 2016" database folder:

C:\Users\%username%\AppData\Roaming\3skeng_V2016\Sketchup 201x

Delete 3skeng Plugin program folder:

In Path C:\Users\%username%\AppData\Roaming\SketchUp\SketchUp 2020\SketchUp\Plugins
   Delete folder "\shk_3skeng\" and file "shk_3skeng.rb"

In Path C:\Users\%username%\AppData\Roaming\SketchUp\SketchUp 2019\SketchUp\Plugins
   Delete folder "\shk_3skeng\" and file "shk_3skeng.rb"

In Path C:\Users\%username%\AppData\Roaming\SketchUp\SketchUp 2018\SketchUp\Plugins
   Delete folder "\shk_3skeng\" and file "shk_3skeng.rb"

In Path C:\Users\%username%\AppData\Roaming\SketchUp\SketchUp 2017\SketchUp\Plugins
   Delete folder "\shk_3skeng\" and file "shk_3skeng_extension.rb"

In Path C:\Users\%username%\AppData\Roaming\SketchUp\SketchUp 2016\SketchUp\Plugins
   Delete folder "\shk_3skeng\" and file "shk_3skeng_extension.rb"