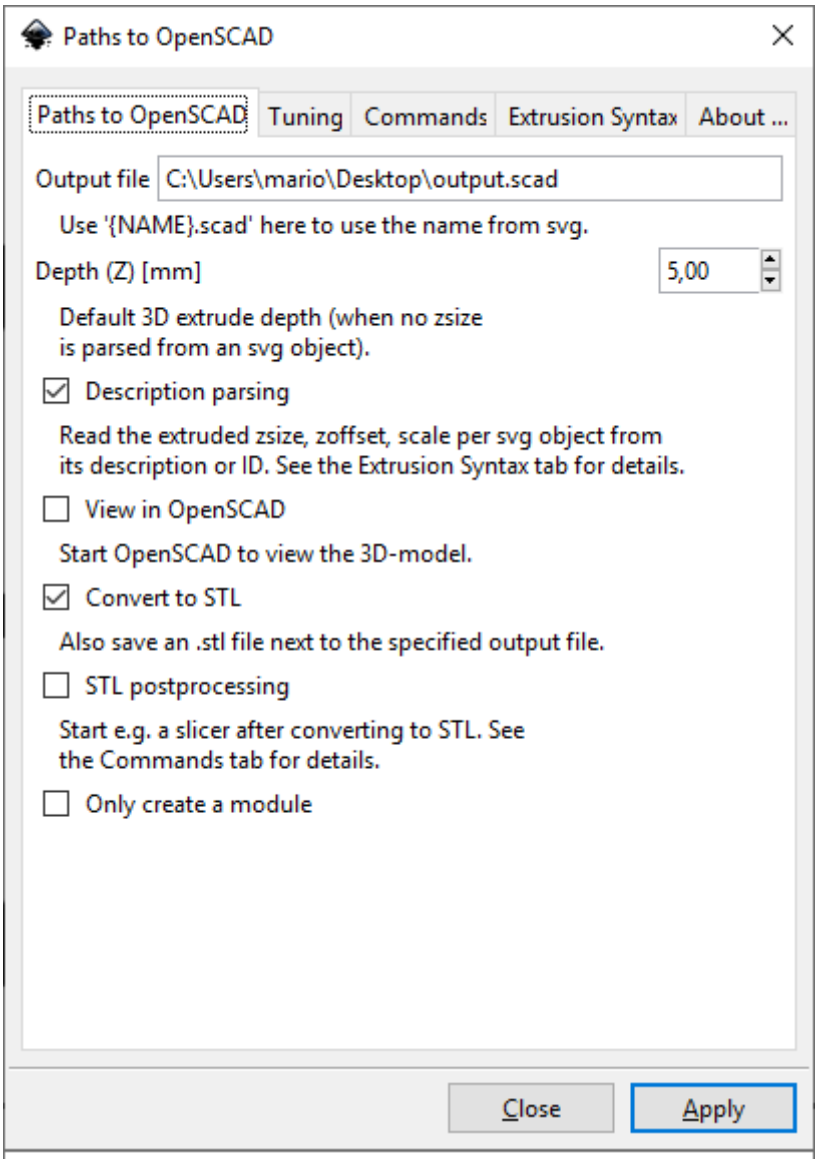
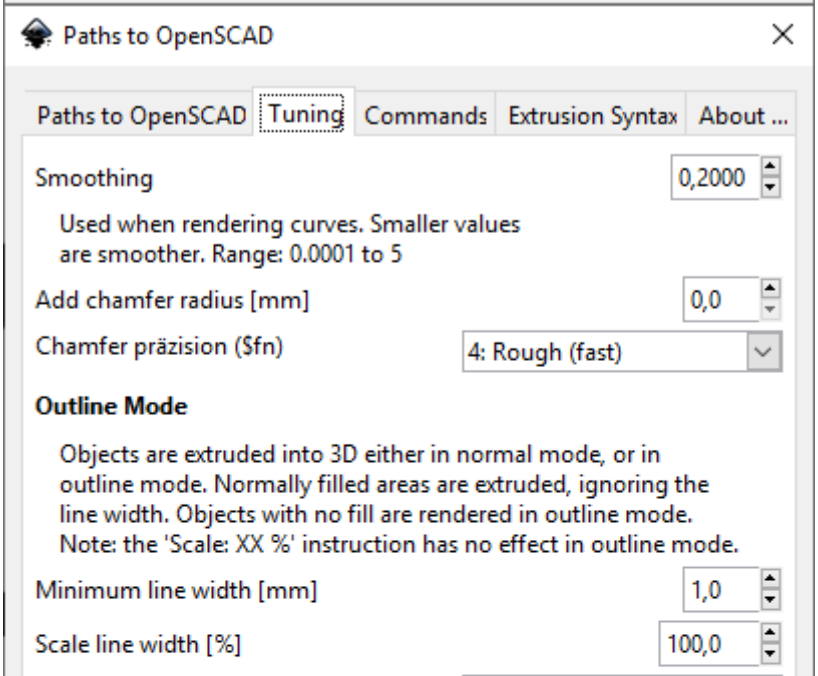
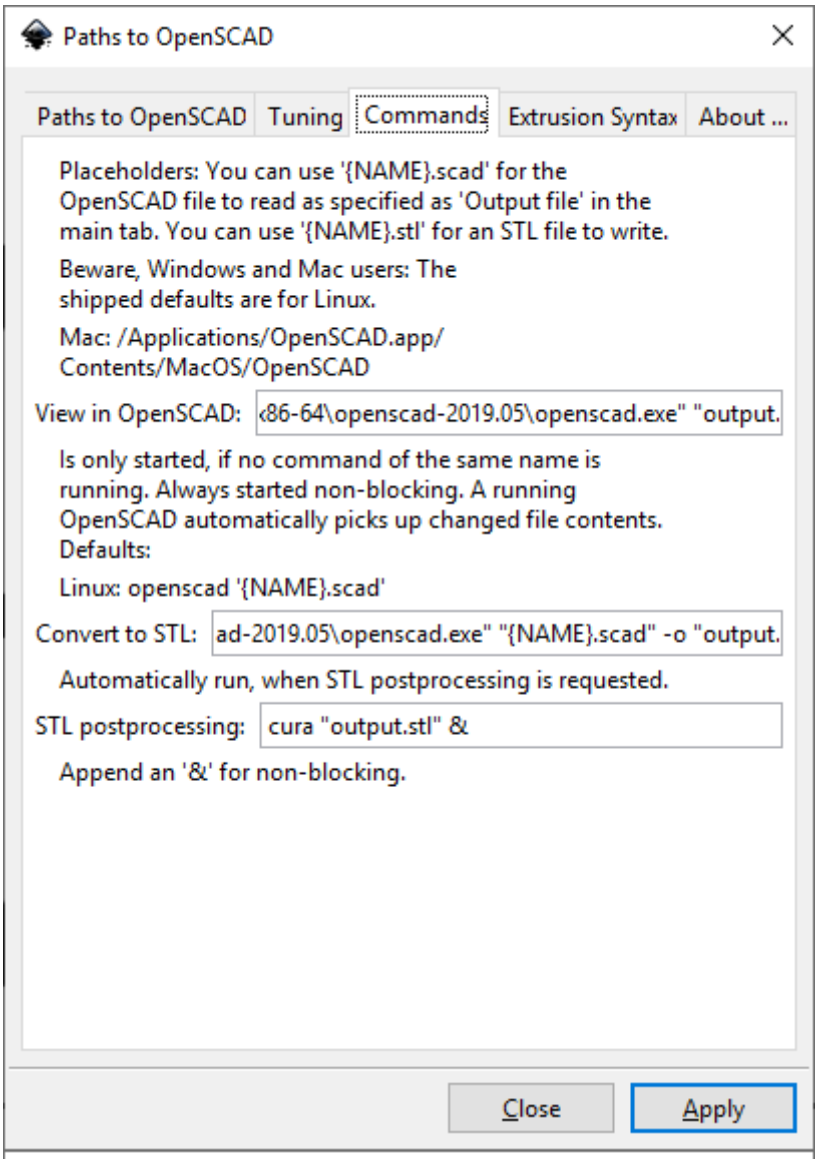
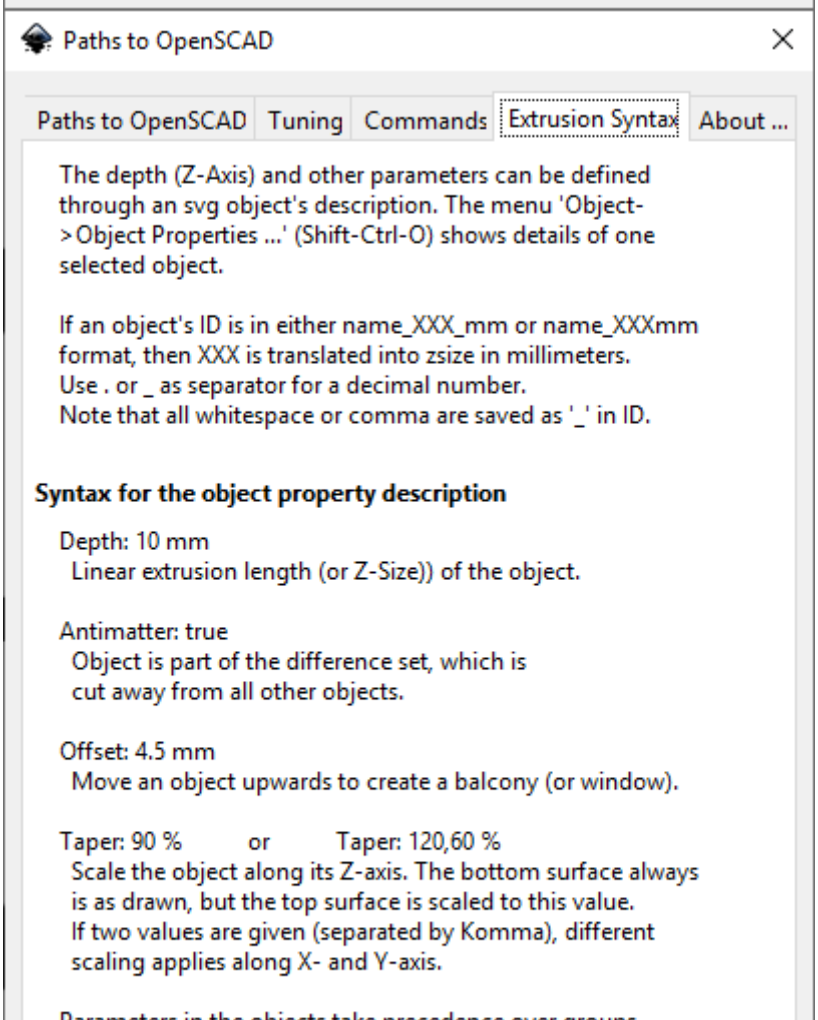
Paths to OpenSCAD

https://wiki.fablab-nuernberg.de/w/Ding:Zahnr%C3%A4der_mit_Inkscape#Werkzeug-Korrektur






Paths to OpenSCAD
Paths to OpenSCAD
Tuning
Commands
Extrusion Syntax
About ...
Placeholders: You can use '{NAME}.scad' for the OpenSCAD file to read as specified as 'Output file' in the main tab. You can use '{NAME}.stl' for an STL file to write.
Beware, Windows and Mac users: The shipped defaults are for Linux.
Mac: /Applications/OpenSCAD.app/Contents/MacOS/OpenSCAD
View in OpenSCAD:
«86-64\openscad-2019.05\openscad.exe" "output.
Is only started, if no command of the same name is running. Always started non-blocking. A running OpenSCAD automatically picks up changed file contents.
Defaults:
Linux: openscad '{NAME}.scad'
Convert to STL:
ad-2019.05\openscad.exe" "{NAME}.scad" -o "output.
Automatically run, when STL postprocessing is requested.
STL postprocessing:
cura "output.stl" &
Append an '&' for non-blocking.
Close
Apply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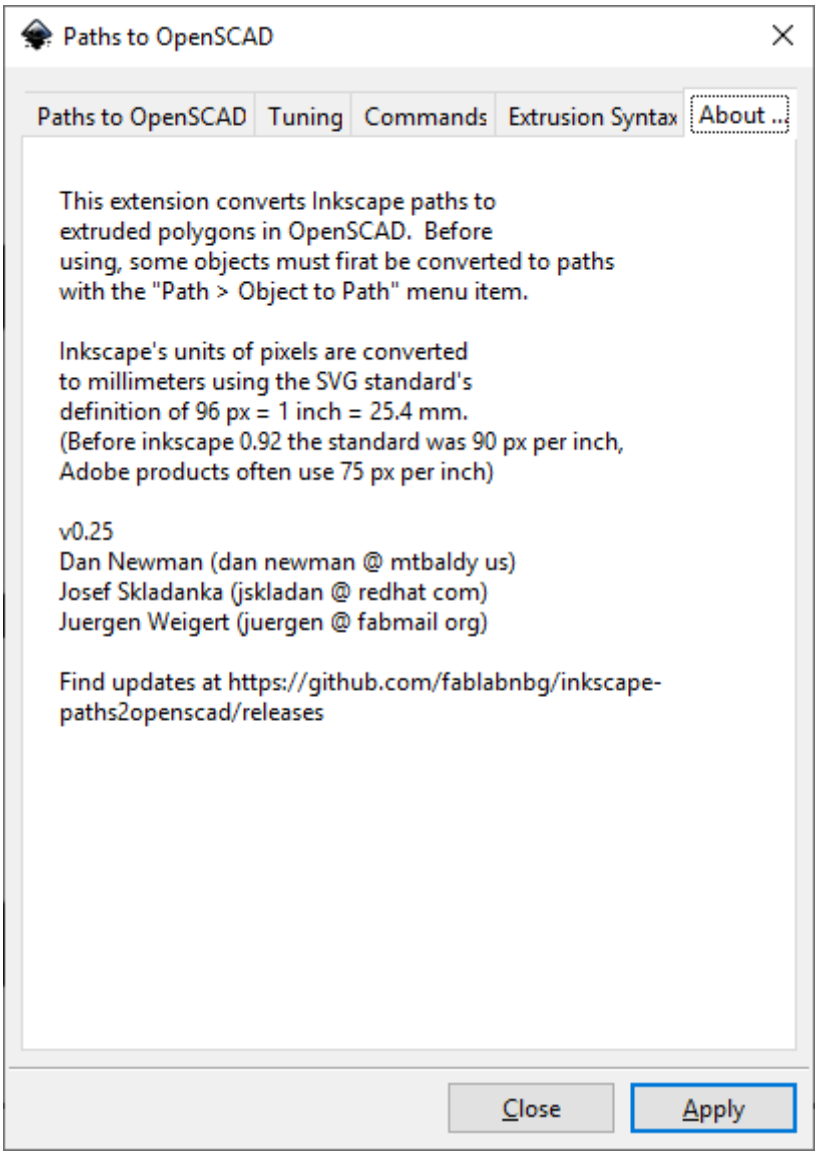
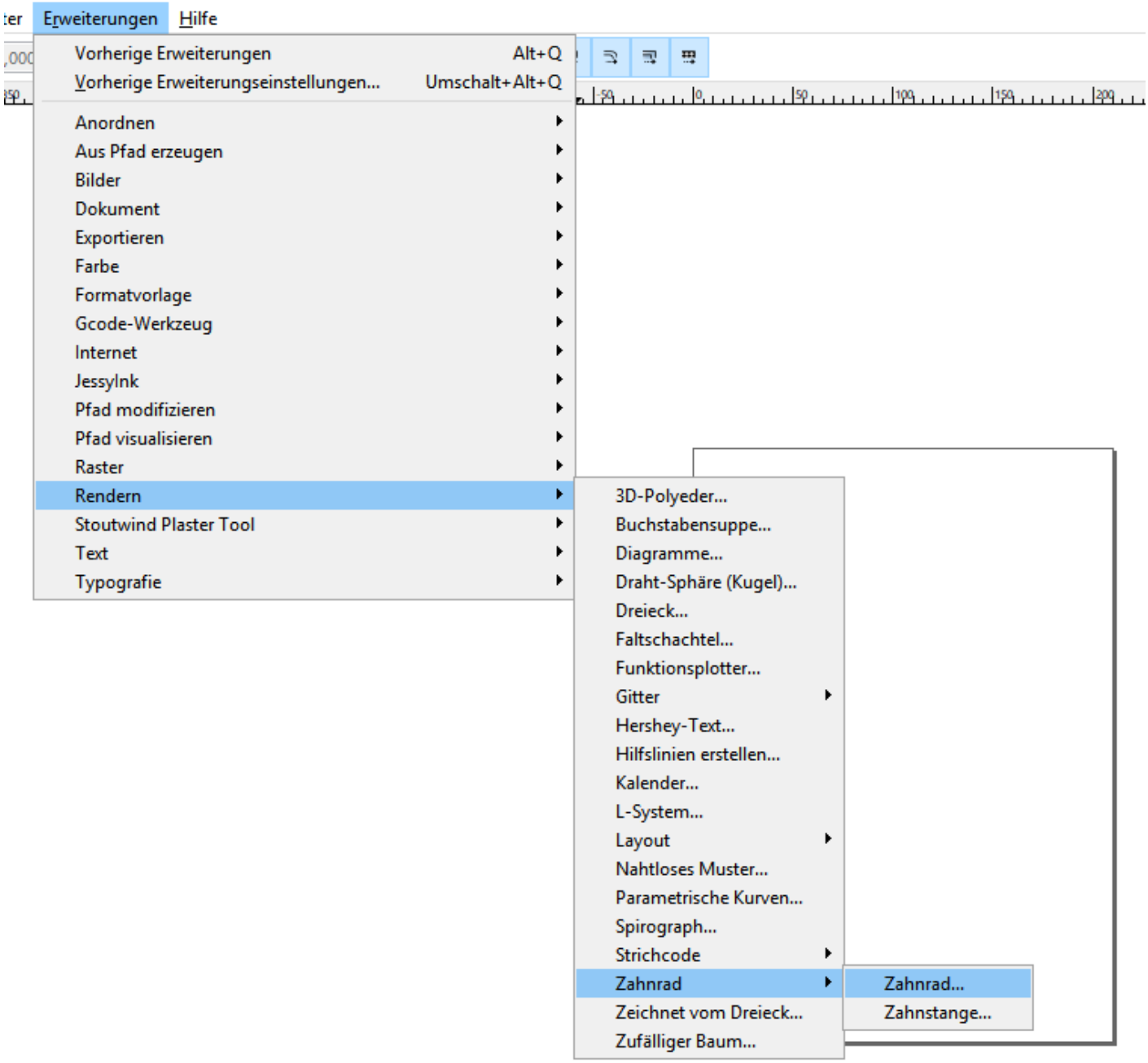
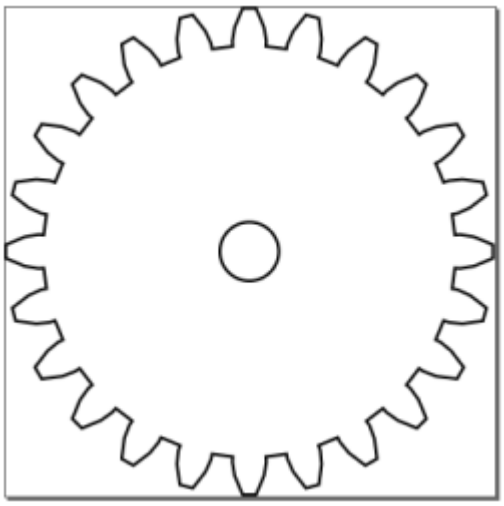
The depth (Z-Axis) and other parameters can be defined through an svg object's description. The menu 'Object->Object Properties ...' (Shift-Ctrl-O) shows details of one selected object.
If an object's ID is in either name_XXX_mm or name_XXXmm format, then XXX is translated into zsize in millimeters.
Use . or _ as separator for a decimal number.
Note that all whitespace or comma are saved as '_' in ID.
Syntax for the object property description
Depth: 10 mm
Linear extrusion length (or Z-Size)) of the object.
Antimatter: true
Object is part of the difference set, which is cut away from all other objects.
Offset: 4.5 mm
Move an object upwards to create a balcony (or window).
Taper: 90 % or Taper: 120,60 %
Scale the object along its Z-axis. The bottom surface always is as drawn, but the top surface is scaled to this value.
If two values are given (separated by Komma), different scaling applies along X- and Y-axis.



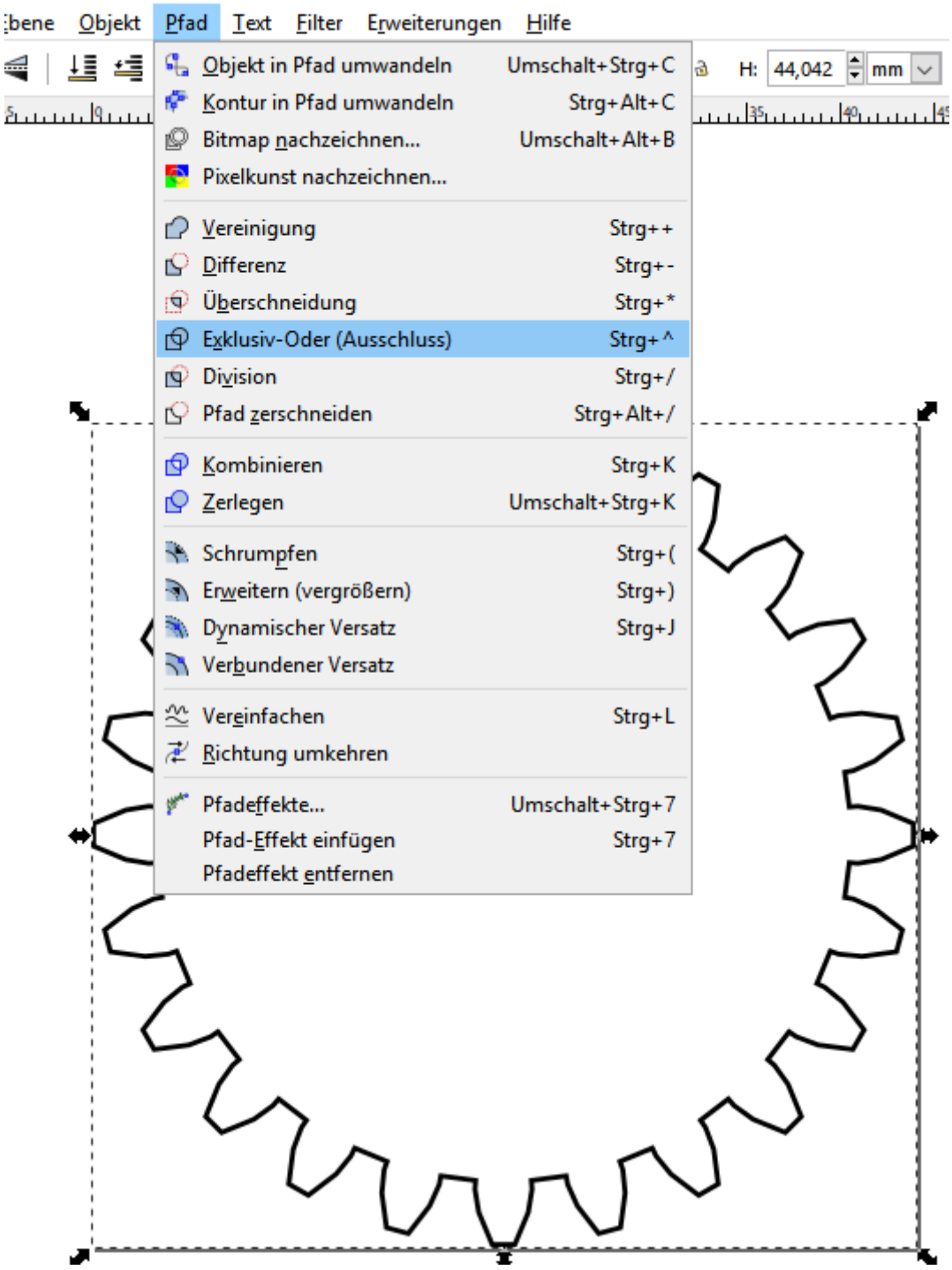
Example

Draw a new gear


Erweiterungen
Hilfe
Vorherige Erweiterungen Alt+Q
Vorherige Erweiterungseinstellungen... Umschalt+Alt+Q
Anordnen
Aus Pfad erzeugen
Bilder
Dokument
Exportieren
Farbe
Formatvorlage
Gcode-Werkzeug
Internet
Jessylnk
Pfad modifizieren
Pfad visualisieren
Raster
Rendern
Stoutwind Plaster Tool
Text
Typografie
3D-Polyeder...
Buchstabensuppe...
Diagramme...
Draht-Sphäre (Kugel)...
Dreieck...
Faltschachtel...
Funktionsplotter...
Gitter
Hershey-Text...
Hilfslinien erstellen...
Kalender...
L-System...
Layout
Nahtloses Muster...
Parametrische Kurven...
Spirograph...
Strichcode
Zahnrad
Zeichnet vom Dreieck...
Zufälliger Baum...
Zahnrad...
Zahnstange...



Union paths and fill the area



Save the file with a name

Run "Paths to OpenSCAD" Plugin

- Download + Installation OpenSCAD: https://www.openscad.org/downloads.html
- Adjust settings if not already happened:

```
Output file: "C:\Users\<YOU>\Desktop\output.scad"
View in OpenSCAD: "<yourpath>\openscad-2019.05\openscad.exe" "output.scad"
Convert to STL: "<yourpath>\openscad-2019.05\openscad.exe" "{NAME}.scad" -o
"output.stl"
```

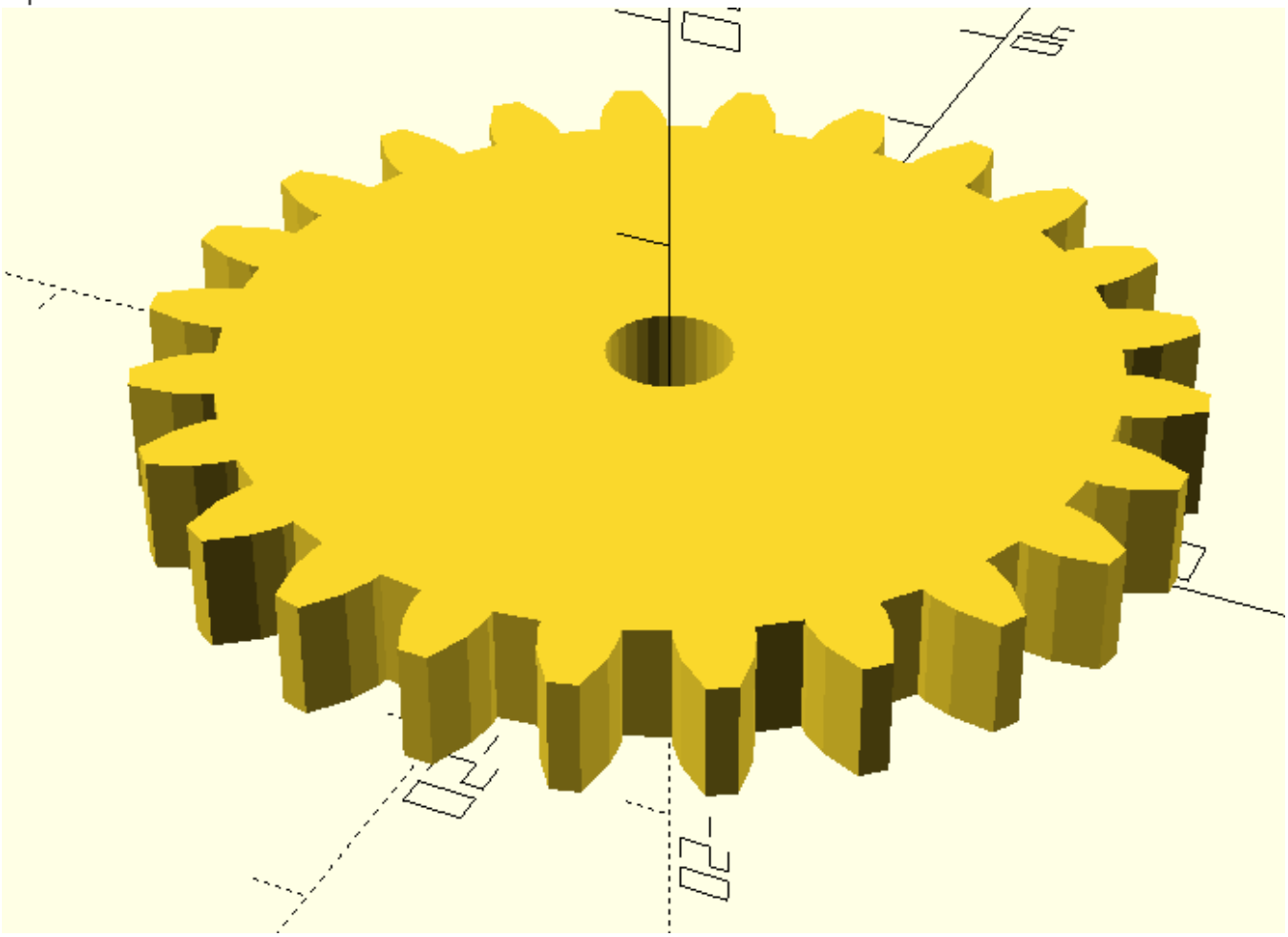
- please use " " instead of ' ' - it won't work in a Windows environment
- please be consistent with the output file name!

- "Output file" has to be named correctly with path and file name. Otherwise it will try to save under InkScape folder (which might only work if running in Administrator mode if installed in Program Files directory)
- "Apply" → export the .svg vector file to a .scad file (and additionally to a .stl file if "Convert to STL" is enabled)

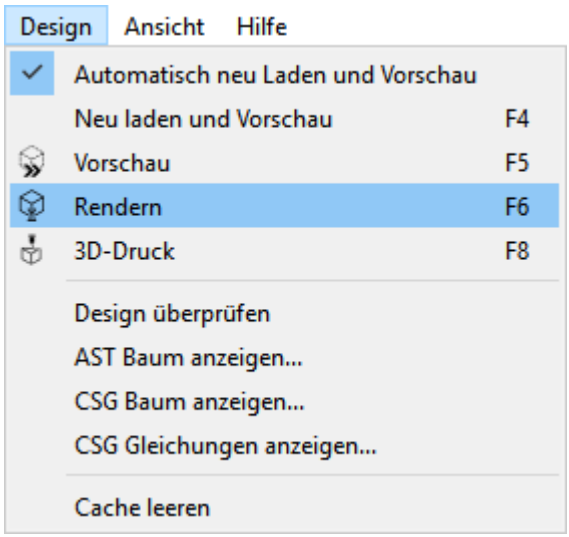
View the .scad (OpenSCAD)

and maybe export to STL manually, or do it automatically by the Inkscape Plugin

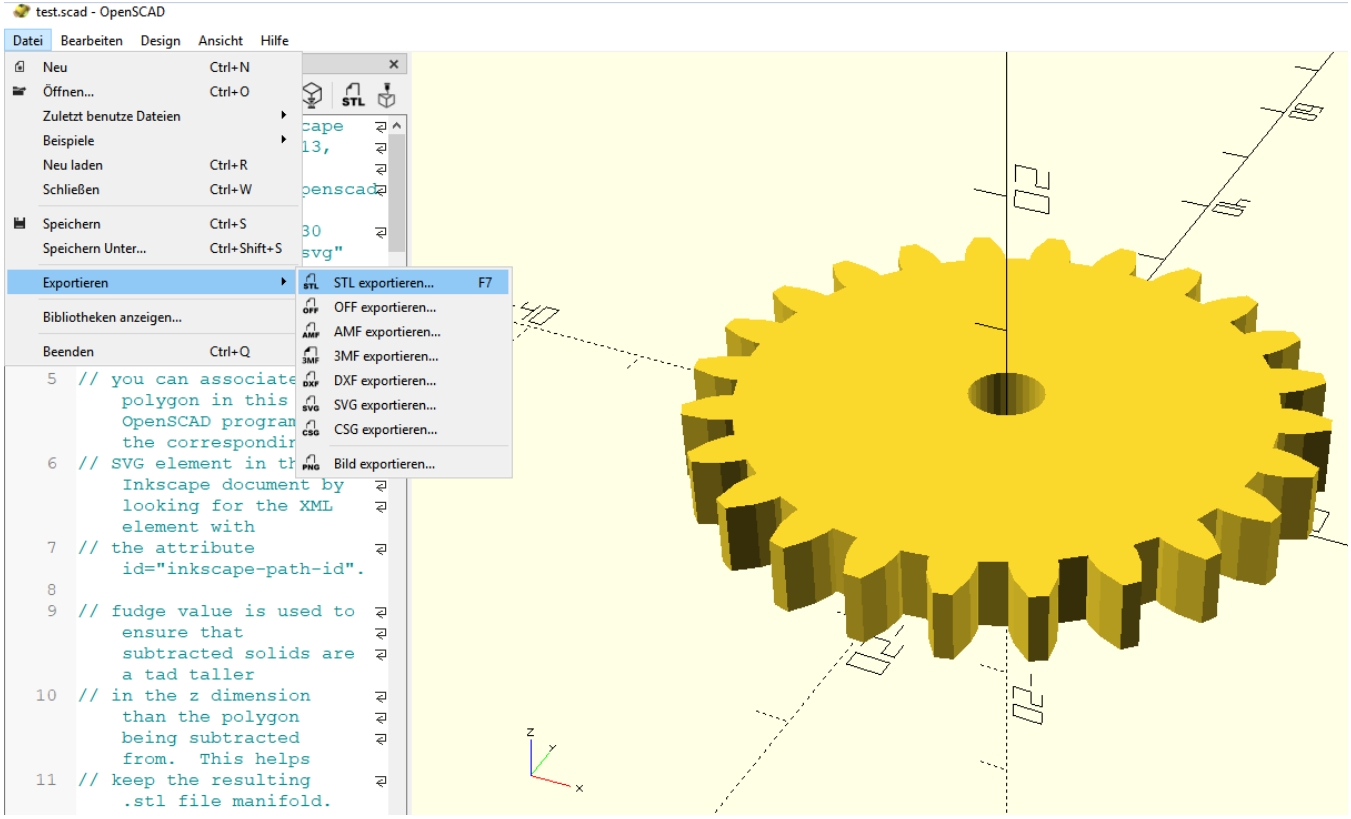
1. Open



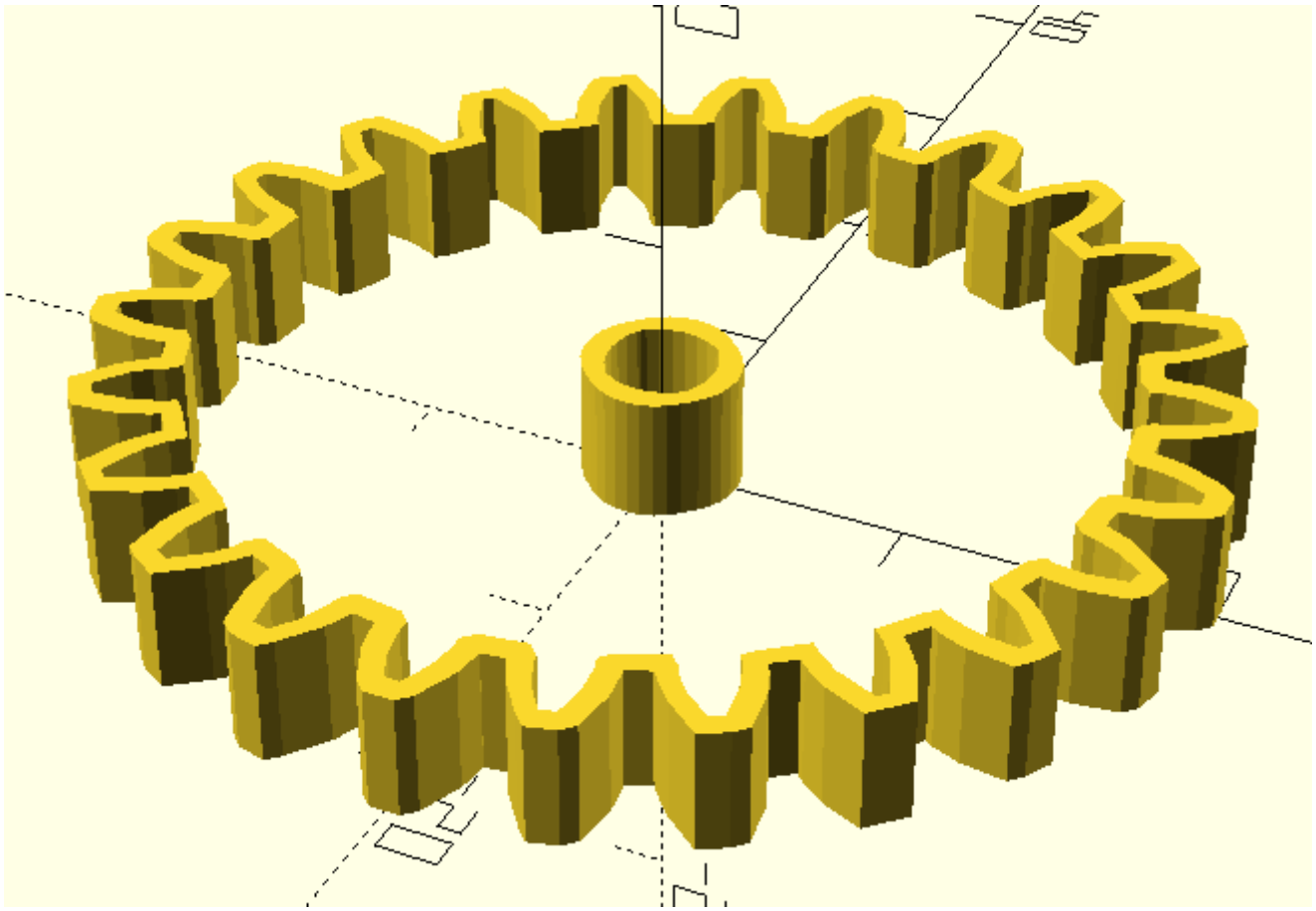
2. Rendering



3. Export

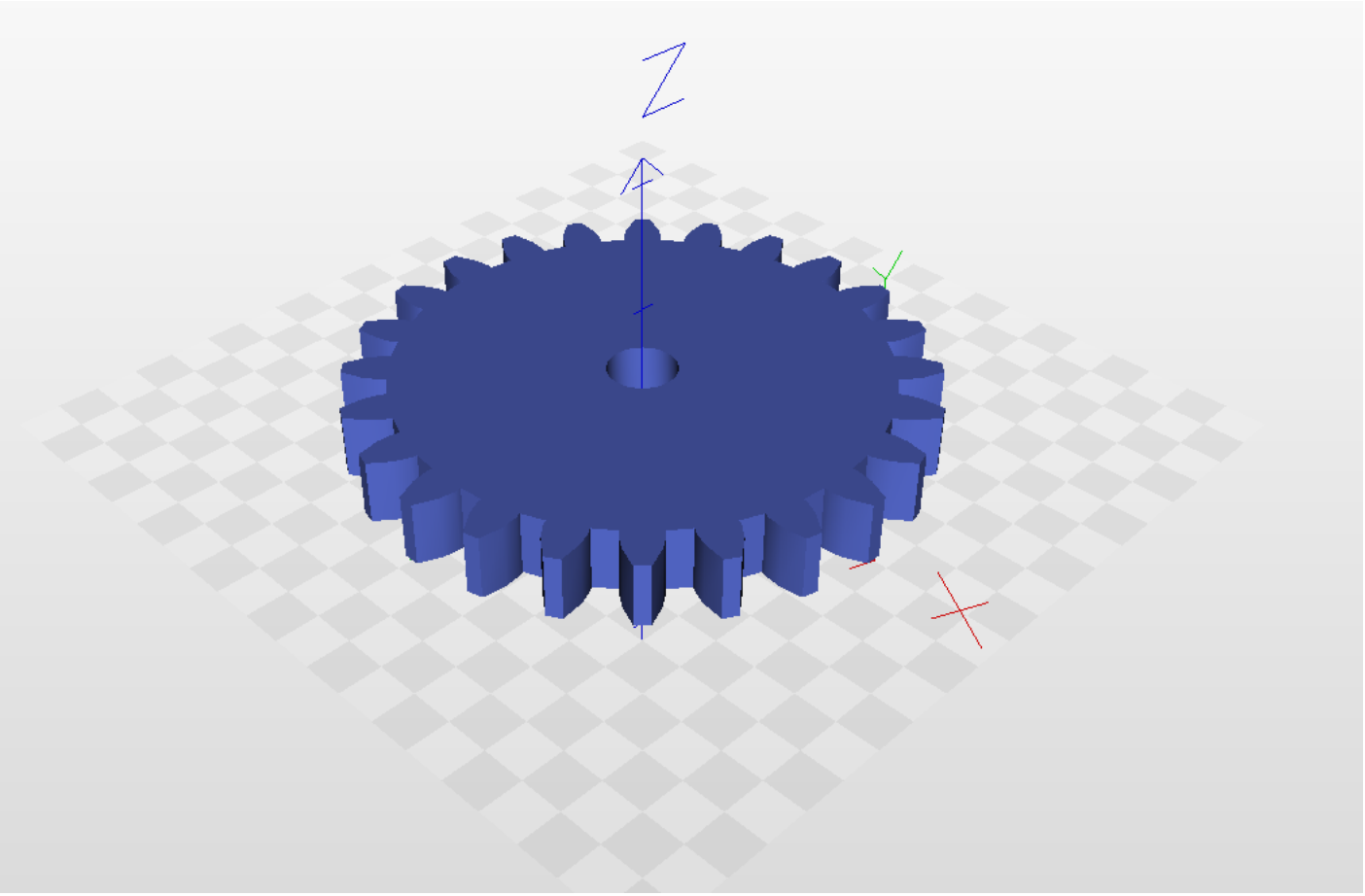


If you forget to fill in the area in InkScape, you will see it as follows:



View the STL STL Export / 3D Print

http://www.freestlview.com



Version #1
Erstellt: 2025-05-24 20:27:00 CEST von Mario Voigt
Zuletzt aktualisiert: 2025-05-24 20:31:08 CEST von Mario Voigt