

1. Create a 3D design with OpenSCAD.

- Strive for modular design
- Use loops, calculations, and if statements to make OpenSCAD do the tedious work for you



2. Export your 3D design in .stl format.

- Render
- File -> Export as .STL



OpenSCAD

3. Size and position your 3D design for fused filament printing.

- Scale
- Rotate
- Minimize supports
- Maximize structural strength



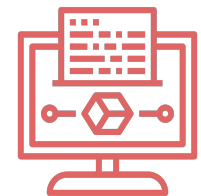
4. Select printer and filament settings.

- Printer Type
- Layer Height
- Filament Type: PLA
- Infill %
- Supports/brim



5. Slice and save a .gcode version of your 3D model.

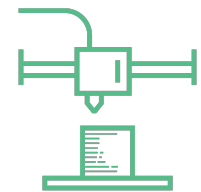
- Save to USB (min) or SD Card (MK3)
- Make a note of time estimates
- Pick an easy-to-remember file name



3D printing preparation software: PrusaSlicer

6. Change filament, start printing, and monitor progress.

- Unload/Load filament
- First few layers are important
- Monitor while printing
- Ensure adequate ventilation



Prusa MK3S/Mini