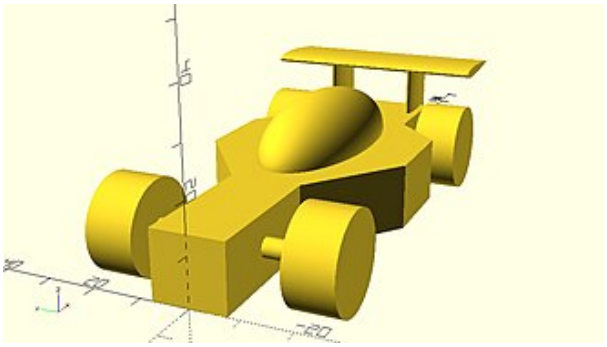
WIKIBOOKS
Open books for an open world

OpenSCAD Tutorial



OpenSCAD Tutorial

Table of Contents

2. Parameterizing modules
3. Defining default values of module's parameters
4. Separating the whole model into modules

- Chapter 5
  1. Creating and utilizing modules as separate scripts
  2. Using a script with multiple modules
  3. Using the MCAD library
  4. Creating even more parameterizable modules
  5. Challenge
- Chapter 6
  1. OpenSCAD variables
  2. Conditional variable assignment
  3. More conditional variable assignments
  4. Conditional creation of objects – If statement
  5. Challenge
- Chapter 7
  1. Creating repeating patterns of parts/models – For loops
  2. Creating more complex patterns
  3. Challenge
  4. Creating patterns of patterns – Nested for loops
- Chapter 8
  1. Rotationally extruding 3D objects from 2D objects
  2. Challenge
  3. Linearly extruding 3D objects from 2D objects
- Chapter 9
  1. Doing math calculations in OpenSCAD
  2. Creating any 2D object with the polygon primitive
  3. Challenge
  4. Creating more complex object using the polygon primitive and math
  5. Another challenge

Useful links

- OpenSCAD's website (https://www.openscad.org/index.html)
- Download OpenSCAD (https://www.openscad.org/downloads.html)
- Syntax cheat sheet (https://www.openscad.org/cheatsheet/index.html)
- The OpenSCAD Language Manual for use later as a reference.