

# Parametric Orchid Flower Pot

M MH3D

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## Summary

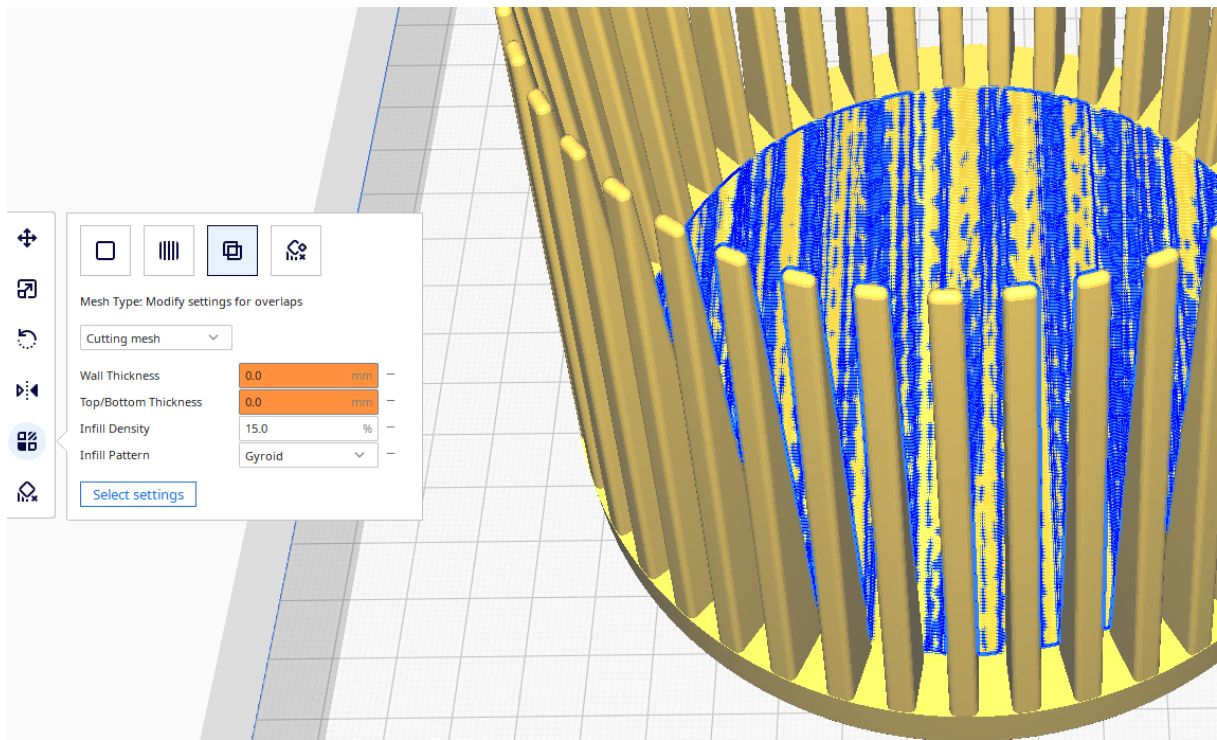
Customizable orchid flower pot with drip tray and space for air to get to the roots. Designed with OpenSCAD.

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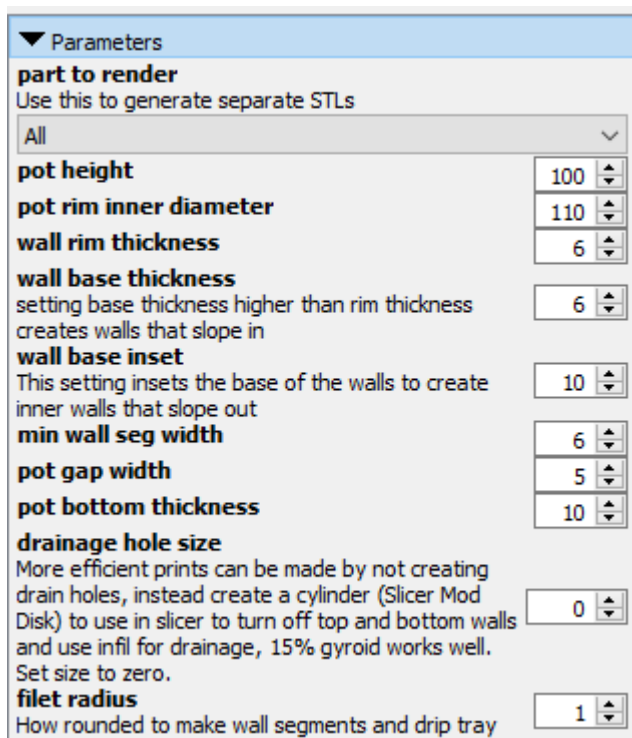
Tags: [flowerpot](#) [orchid](#)

Orchid roots need oxygen and can grow out the top of a solid pot and if a pot only has holes in the sides then the roots can grow through and make re-potting difficult. With this pot air can get to the roots and if they grow through the slats it will be easy to pull them out the top when re-potting.

I recommend starting with the OpenSCAD files and creating your own STLs because I'm not going to recreate and re-upload STL files every time I make small improvements to the design. PLA might break down with UV exposure, PETG is probably the best easily printable choice. For water drainage you can either create the pot with holes in the bottom or create it solid and then use your slicer to make the center bottom gyroid infill with no top and bottom layers. The slicer\_mod.stl should perfectly fit the in the bottom of the pot and can modify the settings. Here's how that looks in Cura but can probably be done in other slicers.



Here are the customizable parameters, use **OpenSCAD** to open the file, update the parameters and then F6 to render the part and F7 to export an STL file.



Version 2 of this design lets you make the walls thicker on the inside and taper out to the top instead of thicker on the outside and taper in. The pot.txt file is saved presets for various designs but will need to be renamed to pot.json for OpenSCAD to read it.

# Model files



## Source Files

1 file



**pot.scad**



## Small 85 high x 80 diameter

4 files



**85x80-pot-no-drainage.stl**



**85x80-drip-tray.stl**



**85x80-slicer\_mod.stl**



**85x80-pot-with-drainage.stl**

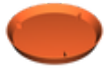


## Large 100 high x 110 diameter

4 files



**100x110-pot-no-drainage.stl**



**100x110-drip-tray.stl**



**100x110-slicer\_mod.stl**



**100x110-pot-with-drainage.stl**



**V1 Large**

4 files



**pot\_no\_drainage.stl**



**drip\_tray.stl**

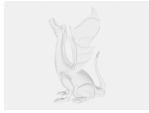


**slicer\_mod.stl**



**pot\_w\_drainage.stl**

## Other files



**pot.txt**

☐ Rename this file to pot.json and put it in the same folder as pot.scad to use my presets.

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