



Fidget: Collapsible Fidget



KingTut

[VIEW IN BROWSER](#)

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Summary

A super satisfying and fully parametric fidget

[Toys & Games](#) > [Other Toys & Games](#)

Want the same results? Click [here](#) to find the filament I use for results like these.

This super satisfying fidget can be customized to be any shape or size with the simple adjustment of a number! **I have added 9 sizes that are ready for printing** but if you want more read down below on how to make your own unique parametric design.

HOW TO ALTER PARAMETERS:

- When you open the file in openscad it should show these parameters right at the top:

```
sections = 30;  
radius = 60;  
height = 10;  
sides = 6;  
tol = 1;
```

```
offset = 2;  
line_thickness = 1;
```

- Simply change the numbers to your preferred amount and then press F6 to preview your progress, once you are happy with the result export the file. **Note: Due to how OpenSCAD works you have to render your model rather than preview, as when you preview it comes out differently.**

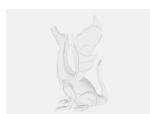
HOW TO EXPORT:

- Once you have altered the parameters accordingly you can export the file as an stl for 3d printing, you do this by pressing **F6** on your keyboard to render and then pressing **file** in the top right, then pressing **export** and then **export as stl**

Parameters:

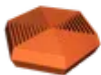
- **sections:** The amount of moving polygons in your model
- **radius:** The outer radius of your model
- **height:** the total height of your model
- **sides:** The number of sides to each polygon
- **tol:** The gap between each polygon
- **offset:** The amount of bulge to your design. (Keep this at least 1 mm smaller than your tol to ensure the pieces don't fall out of each other)
- **line_thickness:** The width of the lines making each polygon.

Model files

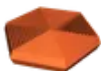


collapsible-fidget.scad

 OpenSCAD File



40mm-diameter.stl



60mm-diameter.stl



80mm-diameter.stl



100mm-diameter.stl



120mm-diameter.stl



140mm-diameter.stl



160mm-diameter.stl



180mm-diameter.stl



200mm-diameter.stl

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