



## The Everygon - Polygonal Vase Collection



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### Summary

A collection of parametric vases shaped as a series of stacked polygons with increasing number of sides.

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### The Everygon Vase Collection - because every polygon is the bestagon!

This is a series of parametric flower vases designed for spiral vase mode printing. They are designed of a series of polygons of decreasing number of sides lofted together to form abstract mesmerizing abstract shapes. There are two basic variations, with lots of variations from there, and parametric Fusion 360 files so you can create even more variations.

### Variants

The two basic variations are aligned edge polygons (filenames starting with "everygon\_") and staggered edge polygons (filenames starting with

“everygon\_staggered\_”) where the edges of the polygons are staggered in 45 degree angles at each step up.

Further variations under aligned and staggered are divided by bottom and ending shapes, for example:

- everygon\_1base\_5top.stl - aligned vase beginning with a circle and ending in a pentagon
- everygon\_staggered\_12base\_4top.stl - staggered angle vase beginning with a dodecagon and ending in a square.

You can also just flip any of the models upside down to double the amount of different variations!

## Customization

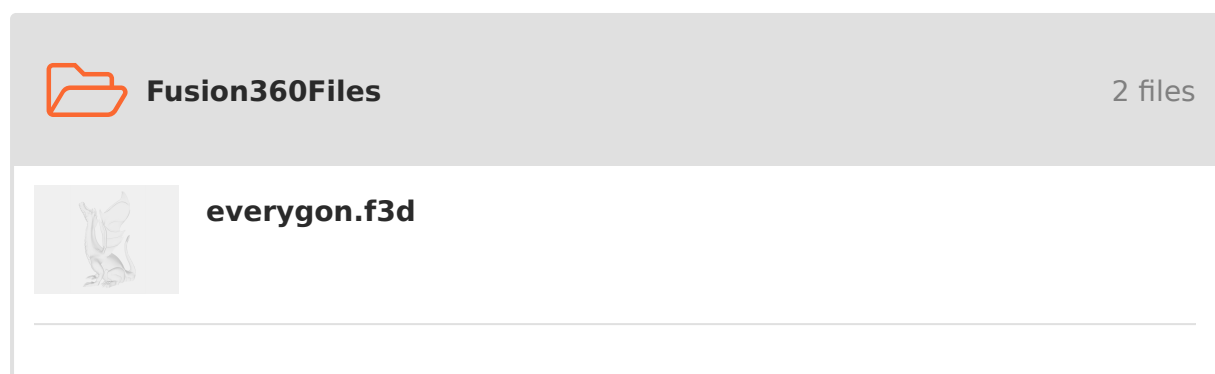
While you can resize these in the slicer, I have included parametric Fusion 360 files with parameters for total diameter and height. The step parameter is used to create the offset planes by dividing total height/12 - so you can also adjust that division based on the number of polygons you actually use - change the bottom and top polygons by adding/removing profiles in the loft operation

## Notes

The STLs were exported fully solid for spiral vase mode printing. To make thick walled pots, do a shell operation in Fusion 360.

**IMPORTANT:** While I added variants ending in triangles, I haven't tried printing those yet and they seem problematic because the sharp change from square to triangle produces some big overhangs! So be careful. If you want to try that, I would recommend making the model narrower and taller.

## Model files





**everygon\_staggered.f3d**



**EverygonStaggered**

6 files



**everygon\_staggered\_1base\_3top.stl**



**everygon\_staggered\_1base\_4top.stl**



**everygon\_staggered\_1base\_5top.stl**



**everygon\_staggered\_12base\_3top.stl**



**everygon\_staggered\_12base\_4top.stl**



**everygon\_staggered\_12base\_5top.stl**



**EverygonAligned**

6 files



**everygon\_1base\_3top.stl**



**everygon\_1base\_4top.stl**



**everygon\_1base\_5top.stl**



**everygon\_12base\_3top.stl**



**everygon\_12base\_4top.stl**



**everygon\_12base\_5top.stl**

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