



Collapsible Basket (optimized)



3D Printing World

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Summary

Collapsible Basket Optimized for 3D printing This basket prints in place as one part and doesn't require any supports.

[Household](#) > [Kitchen](#)

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Collapsible Basket Optimized for 3D printing

This basket prints in place as one part and doesn't require any supports. It prints flat but folds it into a basket!

This is a remix of the first collapsing basket I designed, that version uses a wood cutting trick where you make a spiral cut on an angle and the flexibility of the material allows it to form the basket. The angle of the spiral cut interlocks the walls of the basket in one direction.

It was cool how this can be accomplished with a saw and some wood but I have a 3D printer and some plastic so I thought I would use some of the advantages a 3D printer has to offer. I like the new version better because of the features I was able to add since I'm using a 3D printer, but they both use a different method of forming the basket which is pretty cool.

The original version used an angled spiral cut to form the basket but this version instead uses interlocking individual cups. This is a big

improvement as when you tip the original version upside down the basket would go all slinky and fall out, this version will stay flat. I incorporated a cam into the kick stand so that it tightens as it rotates making the basket more stable when standing. I added a catch to the basket and a detent to the kickstand to better keep them in place when the basket is folded flat.

I also tried to remove as much extra material as possible. This version is the same width and height as the original but uses a quarter of the plastic.

Here is my Amazon Affiliate Link to the Hatchbox Gold PLA Filament I used to make the basket :

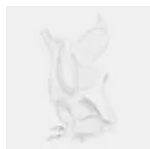
<https://amzn.to/2DikMq3>

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My assistant demonstrates how easy it is to take a freshly printed basket off the printer and unfold it.

This remix is based on



None

Model files



collapsible-basket.stl

[Find source .stl files on Thingiverse.com](#)

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