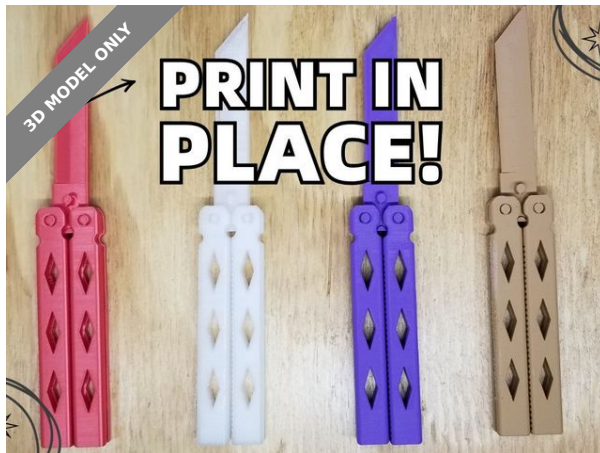




Butterfly Knife - Print in Place - Balisong



Sanford Prime

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Summary

This is a print in place assembly model for a functional butterfly knife, immediately once pulled from the print bed!

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This print was a request from someone, I figured why the heck not?

I honestly learned a lot through the design and print of this one about clearance dimensions required for 3D printing without having the layers stick together between parts I didn't want stuck together.

Another lesson learned was that a model can be designed as an assembly, then exported to a single file for print. (3MF worked without issues, but STL scaled improperly although all the settings were correct. I ended up scaling up the model before exporting to STL so it would be the right size). Oh the Joys...

This thing is wicked fun! It's not going to carve a speartip on a stick but it is great to fidget with and enjoy while impressing everyone you show it to.

Best thing is that you just click print and ~6hrs later (ender 3) a functional assembly (without assembly) comes off the print bed.

Take a look at the video, check it out for yourself!

I made these 4 from PLA materials, and all work flawlessly. Interested in seeing what materials you print with to share!

The YouTube video has a lot of instruction and background to this project as well, it's linked above so just give it a watch if you want to see more about it (such as the print orientation it is designed for).

I hope you enjoy! Thanks for checking it out! If you like things like this be sure to check out the many other models I have here.

If you're looking for a locking handle version of this butterfly knife, I made a recent update. Check out the updated model below:

<https://www.printables.com/model/951492-locking-butterfly-knife-print-in-place-balisong>

Edit 4/23/24 - A trainer version of the model has also been added, please try not to hurt yourself!

Edit 9/5/24 - Added .sldprt file

Model files

knife-butterfly.3mf



knife-butterfly-trainer.3mf



knife-butterfly.sldprt

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