



YOUNAGINE

Valentine Heart Pendant

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Located at: <http://www.youmagine.com/designs/valentine-heart-pendant>

Short description:

My annual 3D printed Valentine for my wife.

Description:

For my Valentine, Lora... <https://www.youtube.com/watch?v=9fKpfs8qbNA> Valentine Heart Pendant is a dual extrusion print in place hinged container designed to contain fitted photographs (in the base and / or lid), but could also contain a currency bill or a coin or two, or other small objects. The heart "arrowhead" contains a 4mm hole through which a small chain, knitting thread, color twine, etc. may be threaded to wear as a pendant or bracelet. As usual, I probably forgot a file or two or who knows what else, so if you have any questions, please do not hesitate to point them out as I do make mistakes in plenty. Designed using Autodesk Fusion 360, sliced using Cura 3.5.1, and printed in PLA on an Ultimaker 2+ Extended and an Ultimaker 3 Extended. **Files.** I've included all the files necessary for the dual extrusion base and lid. The file "Heart Base Red.stl" is the red portion of the pendant base, and the file "Heart Base White.stl" is the white portion of the pendant base. I loaded these two files into Cura 3.5.1, selected the colors, selected both, then selected "Merge" and saved the result as "Heart Base.3mf". The file "Heart Lid Red.stl" is the red portion of the pendant lid, and the file "Heart Lid White.stl" is the white portion of the pendant lid. I loaded these two files into Cura 3.5.1, selected the colors, selected both, then selected "Merge" and saved the result as "Heart Lid.3mf". The file "Heart Pendant.3mf" is the manually aligned combination of the "Heart Base.3mf" and "Heart Lid.3mf" files (for reasons I cannot explain, Cura 3.5.1 would not properly "Merge" these files). Before printing a dual extrusion pendant, I carefully level the build plate and perform an extruder XY offset calibration. To print the pendant, I load white PLA in extruder 1, red PLA in extruder 2, load "Heart Pendant.3mf" into Cura, set the layer height to .1mm and the infill to 50%, then send it to the printer. For single extrusion printers, I have merged "Heart Base White.stl" with "Heart Base Red.stl", and "Heart Lid White.stl" with "Heart Lid Red.stl" and printed each on a single extrusion Ultimaker 2+ Extended. If needed, I can upload merged base and lid files in .STL form for single extrusion printers, just let me know. And finally, if you print a Valentine Heart Pendant and the hinge "welds" (e.g. won't move no matter what), I have printed the base and lid separately then carefully snapped the lid hinge sockets onto the base ball joints. And that is how I made my Valentine Heart Pendants. Hope you enjoy it!

If you can, please use the online documentation found at <http://www.youmagine.com/designs/valentine-heart-pendant> because those may have been updated. Also, there you can interact and provide praise and/or feedback.