



YOUMAGINE

# Four Whistles Version 2

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Located at: <http://www.youmagine.com/designs/four-whistles-version-2>

## Short description:

A "calliope" styled music box.

## Description:

Four Whistles Version 2 is my first attempt at a "calliope" (well, sort of calliope) design utilizing the primitive knowledge I gained from the original Four Whistles model (<https://www.youmagine.com/designs/four-whistles>). Not being a musician and being slightly hard at hearing, while it may not sound like it this model is attempting to play "Mary Had A Little Lamb" using a balloon to power the whistles and a hand crank to power a cylindrical sequencer. In order to play "Mary Had A Little Lamb", I incorporated four whistles in the design of the model, each controlled by one of four air valves. Each of the air valves are controlled by a rotating cylinder containing small "bumps" that activate the valves in the correct order (the "cylinder sequencer"). In order to complete this model, you will need to purchase a "punch balloon", one roll of .7mm thick rubber electrical tape (you will only need 3 inches or so, I used Scotch 2242), a bottle of "thick" cyanoacrylate glue and a small tube of clear silicone or acrylic caulk. I also used scissors, a single bevel razor blade, a modeling knife, a needle file set, a small slip joint plier, a jewelers screwdriver set, a rubber mallet and a vise for assembly. And as usual, I probably forgot a file or two or something, so if you have any questions, please do not hesitate to ask. Designed using Autodesk Fusion 360, sliced using Cura 2.3.1, and printed in PLA on an Ultimaker 2+ Extended and an Ultimaker 3 Extended.

If you can, please use the online documentation found at <http://www.youmagine.com/designs/four-whistles-version-2> because those may have been updated. Also, there you can interact and provide praise and/or feedback.