

## HELLO, I'M TOYSINBOX TIMES!

I am an Austin-originated newspaper sold at Toysinbox 3D Printing Store, Toysinbox.com, Toysinbox3DPrinting.com and Toysinbox events at zero dollars. I absolutely adore toys, crafts, books, fun activities, and ENTREPRENEURSHIP!

### ANNOUNCEMENT

By TOYSINBOX PEOPLE

### 3D Printing Meets Embroidery

We just finished our one-plant-one-pot project which we started in late January this year. The result is absolutely wonderful (see picture 1). There's plenty of room to be creative, and we'll suggest some ideas at the end. We are also going to share the 3D model for free with our social media followers and Toysinbox members. If you're interested, please email [info@toysinbox.com](mailto:info@toysinbox.com) for the .stl file and an example picture file before May 5th, 2021.



picture 1

This is the second project in our line of 3D Printing Meets Embroidery. Our first project was a simple rainbow. We embroidered two and showcased them in our 2019 Holiday Season 3D Printing Show.

Once you get the .stl file, you can start to 3D print it. The material we used was

PLA, as we only intended to use them for interior decoration. Also, using earth-friendly materials is always a plus! Picture 2 shows some 3D printed embroidery discs that are still blank. With PLA, the finish is shiny and looks great.



picture 2

The size of each disc is 105mm x 105mm x 3.5mm, roughly about 4" x 4" x 1/8". See picture 3 to get an idea of the size. We don't recommend down-scaling the 3D model as this will reduce the hole size. If your print bed is small and you have to down-scale, you'll need to try using thinner needles and less strands. For the normal size, we used 6-strand embroidery thread. Also, try not to scale down the height. The inner circle height is only 2.5mm tall - any thinner and it'll be too fragile.



picture 3

On the other hand, we don't see any problems with upscaling the design. Of course, the holes will be larger, so it's an opportunity to try tapestry yarn. We haven't gotten a chance to try it. If you do, shoot us a picture. Also, when you upscale, it's probably not a good idea to upscale the height too much. You want something lighter when hanging it on the wall.

We are still beginners with embroidery, and we don't have too much experience. We can only say keeping the backside as neat as possible (like with hoop-cloth embroidery) is not a critical thing here. The disc is thick, so the loose thread and hanging knots are not able to show through to the front side. We also used super glue to help tie the knots. Of course, if you have enough embroidery skill, a nice backside would still be perfect.

Another thing to note, pattern matching is a bit hard for the leaves as you cannot see the picture from the dots alone. We also chose not to draw on the discs as we may not be able to wipe the ink off when we finish. So we referenced a pattern picture, starting with the corner leaves and then expanding to the rest. See picture 4.



picture 4

There are a few ways to add another layer of complexity to your embroidery. You can exaggerate details by adding the leaf vein in a different color, weaving the pot in different patterns, adding sun rays by using the wall-hang hole as the sun, etc.



picture 5

They will look amazing on your wall. Time to fire up!

Thanks for Reading and See You Next Month!