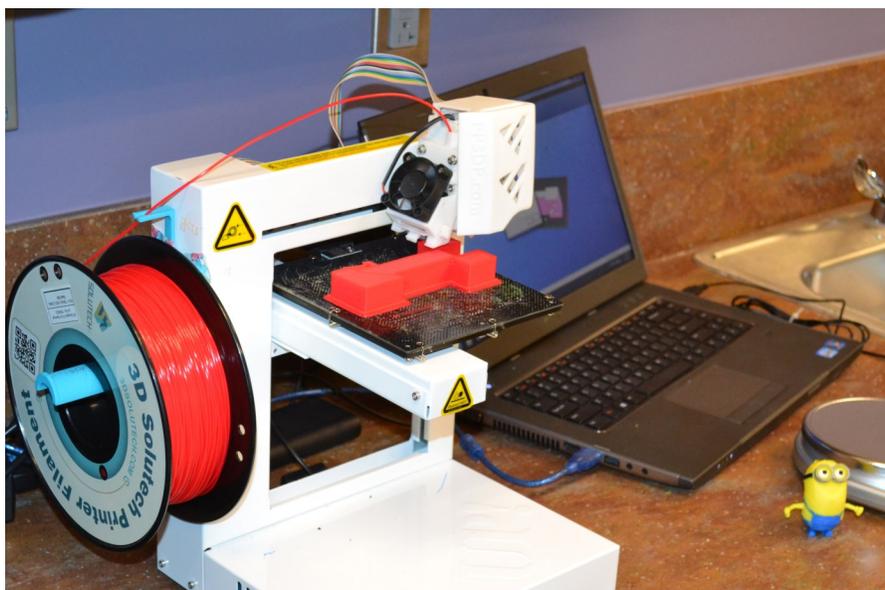


3D PRINTING AT PFLUGERVILLE PUBLIC LIBRARY



WHAT IS 3D PRINTING?

3D printing is the process of creating a physical object from a three-dimensional digital model. This is usually done by laying down thin layers of melted plastic, metal, or other material, although some printers use lasers or electron beams to join materials. The library's printer uses spools of plastic filament to create objects.

HOW IS 3D PRINTING USED?

3D printing is used in a variety of fields with all types of materials. Movie studios use printers to create costumes, while the health care field produces prosthetics, casts, and implants. NASA has used 3D printing technology to print rocket engine parts, and the Smithsonian Museum is sharing scans of objects in their collection via their website. Other uses are found in the auto, fashion design, and candy industries.

HOW DO I PRINT AT THE LIBRARY?

Please see the Library's 3D printing webpage at www.pflugervilletx.gov/Library to review our 3D printing policy and submit requests to 3Dprint@pflugervilletx.gov. See the reverse side for printing resources.



1008 W. Pfluger St. (512) 990-6375

library.pflugervilletx.gov

3D PRINTING RESOURCES

Bring your ideas to life at the Library! We have two 3D printer models: the Up Plus 2 and the Flashforge Creator Pro. We are able to print single- or dual-color models, and we have a variety of colors and types of plastic available, from plain to glow-in-the-dark!

WHERE CAN I GET READY-TO-PRINT FILES?

Thingiverse—www.thingiverse.com

The Thingiverse community has uploaded over 100,000 3D models, many of which are customizable. View their curated collections or search for a specific item.

Sketchup 3D Warehouse—<https://3dwarehouse.sketchup.com/>

The makers of Sketchup modeling software (details on that below) also offer free, downloadable models.

Yeggi—www.yeggi.com

Yeggi is a search engine that looks for models on various websites, including thingiverse, shapeking, and more.

WHERE CAN I DESIGN A 3D OBJECT?

Tinkercad—www.tinkercad.com

This easy to use, free software does not require any downloads. They offer many tutorials to help get you started and allow you to export your designs to Minecraft.

Sketchup Make—<http://www.sketchup.com/download>

Sketchup is a downloadable program that offers 3-D drawing tools.

Blender—www.blender.org

Blender offers functions for more advanced users. This open source software supports modeling, rigging, animation, simulation, rendering, compositing and motion tracking, even video editing and game creation.

HOW CAN I EDIT & REPAIR FILES?

Meshmixer—<http://www.meshmixer.com/>

Meshmixer makes it easy to edit STL files and also has a built-in slicer tool. This means you can send the edited model directly to your 3D printer to print it.

Note: The Library provides these links for informational purposes only. The Library does not promote or endorse any products or services.