

# 3D Printer(s) Videos & How-To

## VIDEOS

**Elegoo Resin Printer  
basics of resin printer**

**Prusa Filament Printer  
using Prusa Slicer  
Prusa3D.com**

**Vyper Filament Printer  
Vyper- How to**

### **General sites to find prints**

**tinkercad.com**

**ULTI digital library**

**Thingiverse.com**

**www.printables.com**

**FDM vs. SLA**  
(filament vs. resin)

# Terms

## 3D printing common terms

- **CAD - Computer Aided Design, software that produces a 3D model**
- **GCODE - the file type the 3D printer uses to print a design.**
- **STL - Stands for stereolithography, the file format computer aided design (CAD) programs generate. It's a file of a 3D model.**
- **PLA - Polylactic acid is frequently called PLA. Polylactic Acid is a biodegradable thermoplastic polymer derived from the starch in plants normally corn) that is used for 3D printing. It comes in a variety of colors, is 1.75mm in diameter, and feeds into the printer on a spool.**
- **Slicing - An STL file must be "sliced" before a 3D printer can understand how to print the file. Slicing the STL file converts it to GCODE. We use PrusaSlicer to convert STL files to GCODE for printing at HCL.**
- **Support Additional removable structures that are printed to support overhangs or other parts of a model that do not make contact with the build plate during printing.**
- **Thingiverse.com - A popular site for sharing file designs.**
- **Tinkercad.com - A free computer aided design (CAD) software site that is very good for learning the basics of designing for 3D printing.**