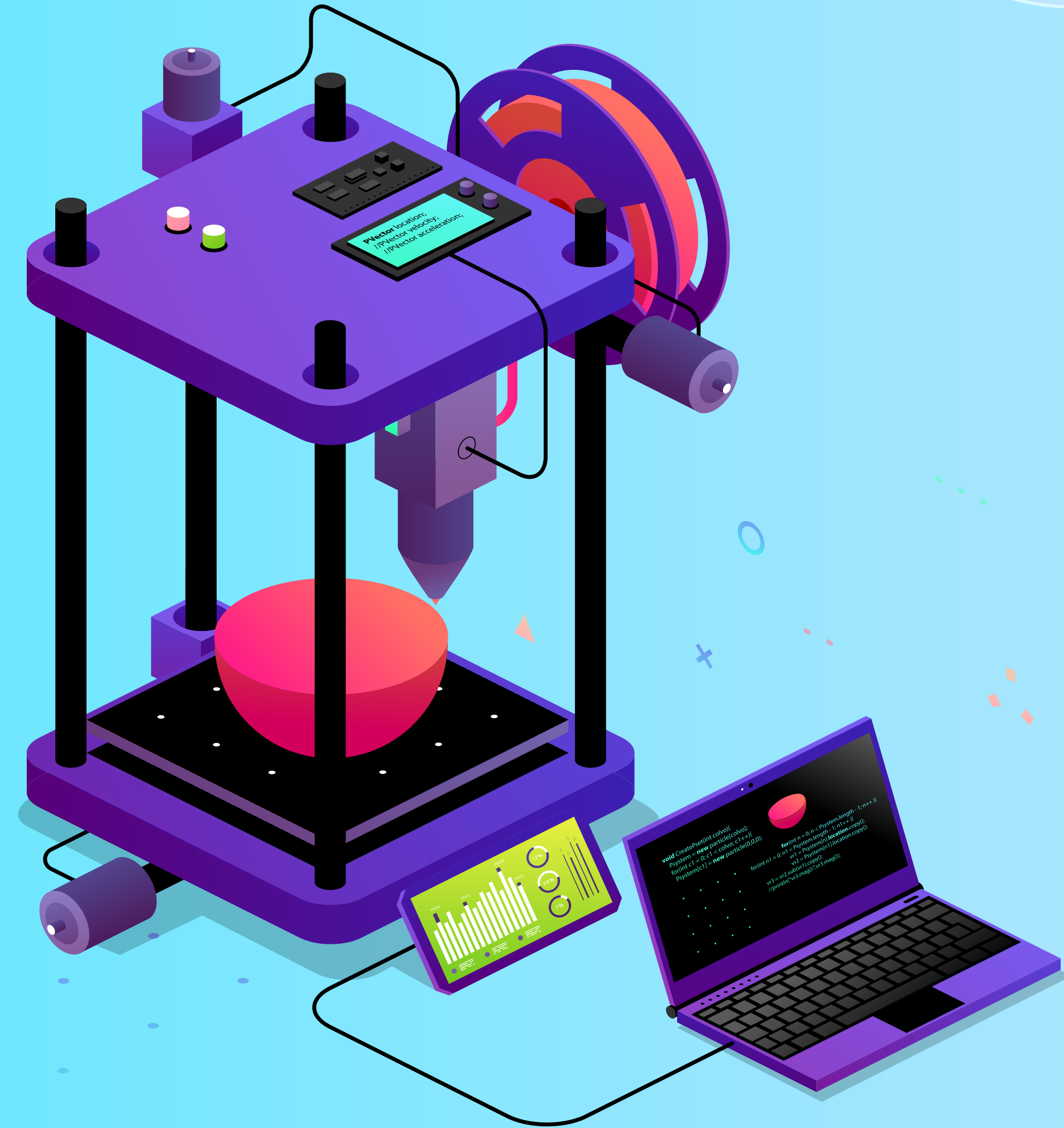


WHAT'S 3D PRINTING

IS1.1.1





I - What's 2D Printing?

Definition

2D Printing is a process for reproducing text and images.

2D Printing = we simply call it "Printing"

Device used

A **2D printer** or simply a **PRINTER**, where ink is deposited as a layer on paper to reproduce a text or image file from the computer

Types of Printers

- ✓ Dotmatrix
- ✓ Ink Jet
- ✓ Laser
- ✓ Lcd





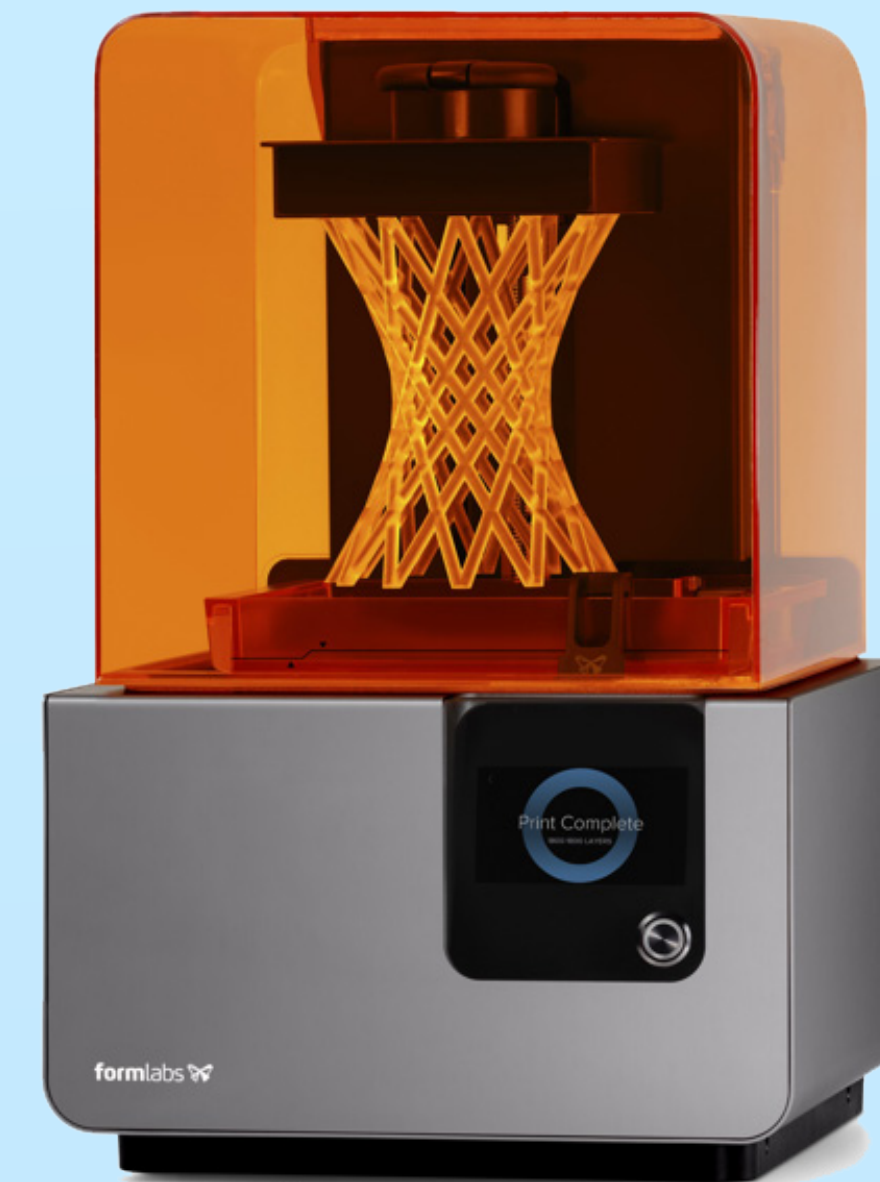
II - 3D Printing

Definition

3D Printing is a process of converting a virtual 3D model into a physical real object. A plastic filament is inserted into an extruder that heats up the plastic and lays it down layer by layer until a part is eventually built up.

Device used

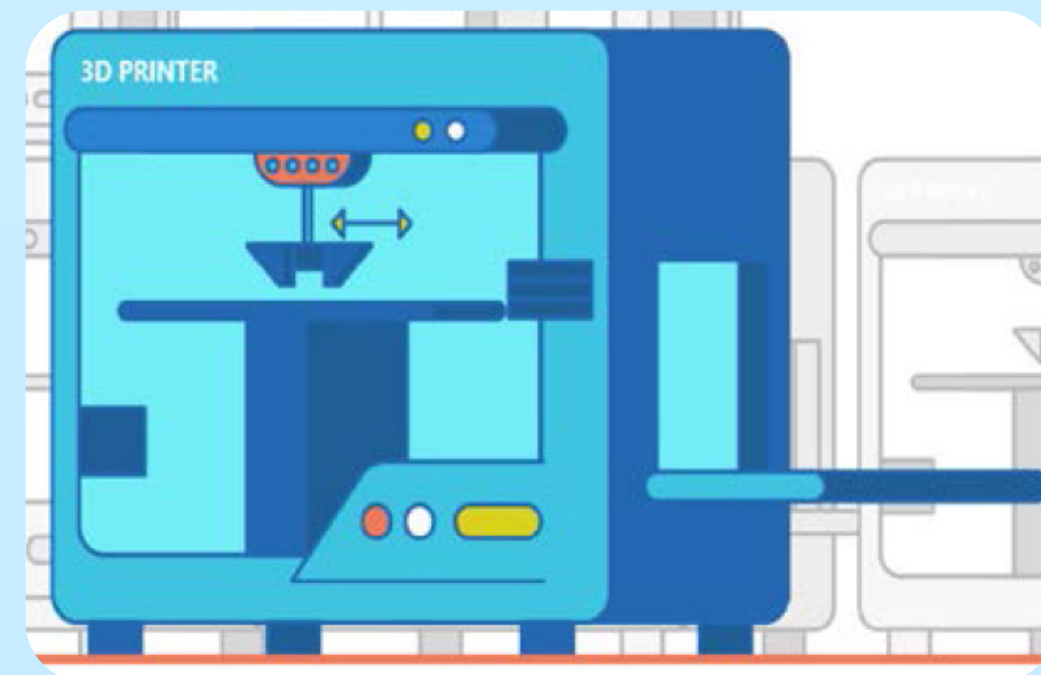
A 3D printer, where a 3D object is created by laying down successive layers of a specific material



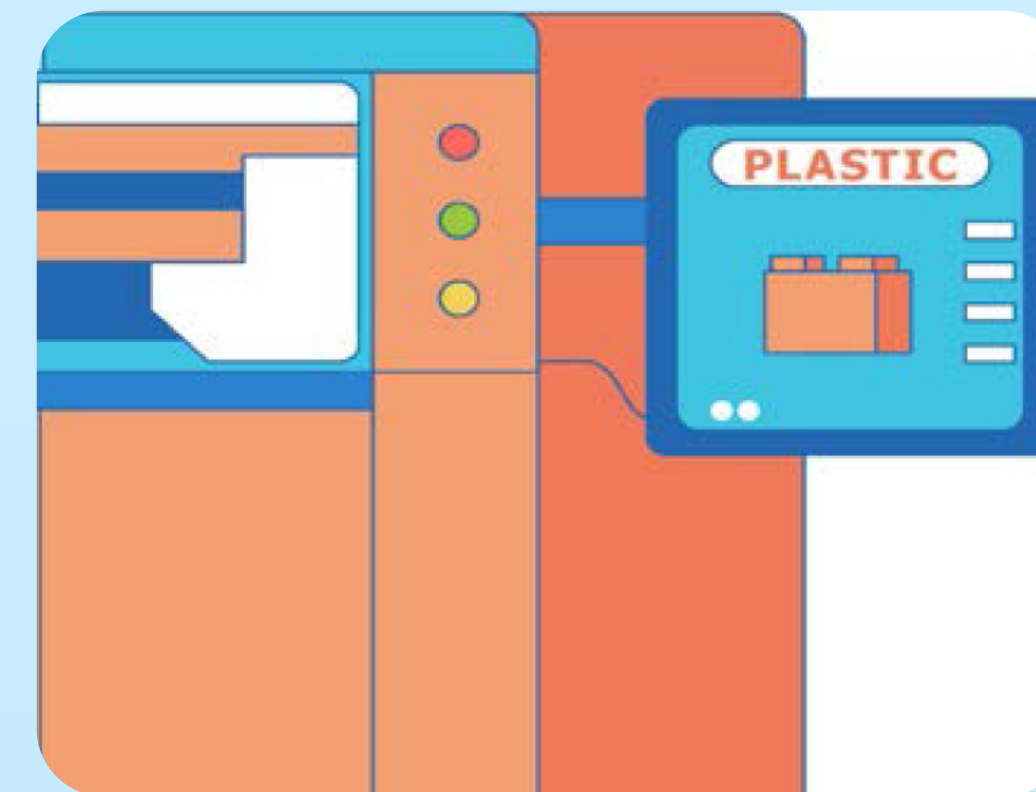


III - What do you need for 3D printing

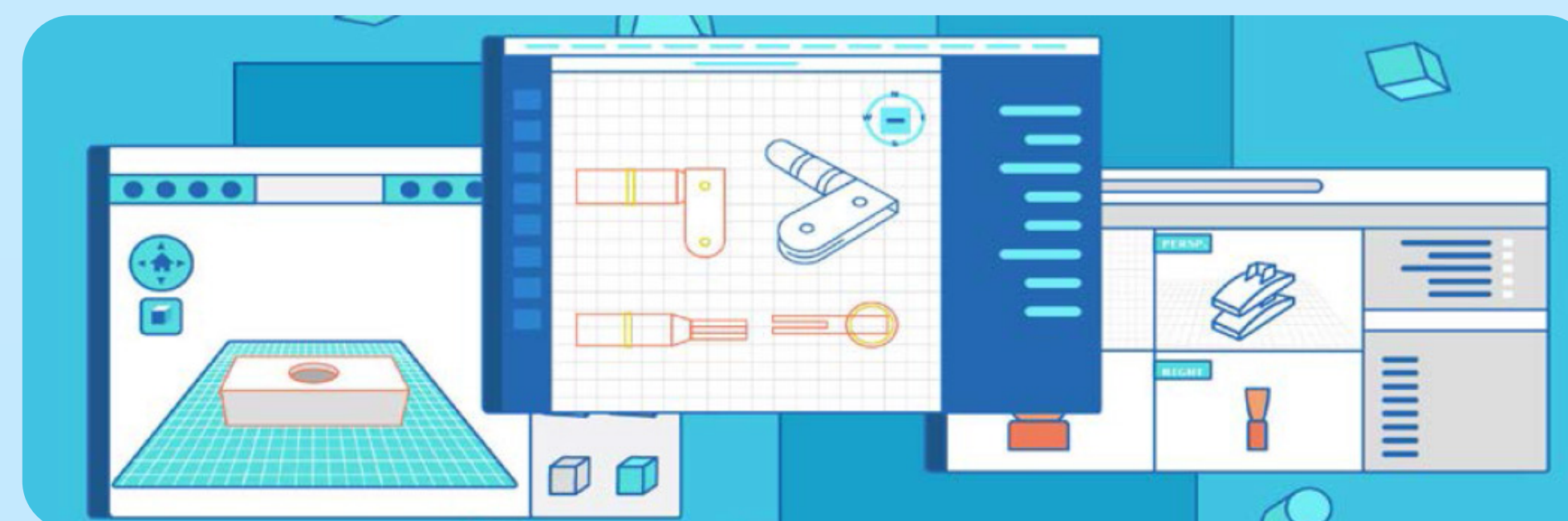
1. 3D Printer



2. Printing Material



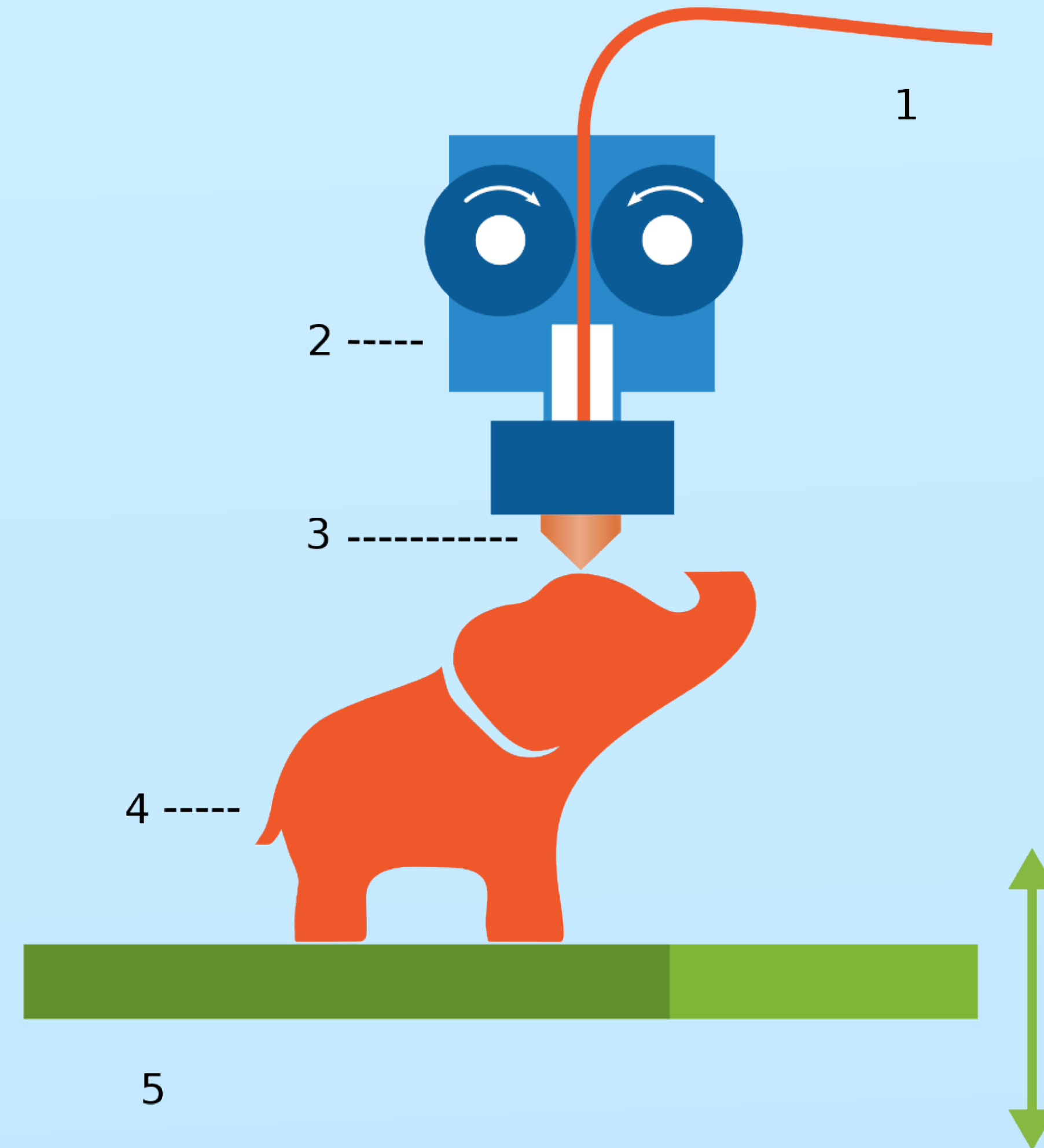
3. 3D Design software





A. Parts of a 3D printer

1. The Filament or printing material
2. The extruder + heater
3. The nozzle Head
4. The printed object
5. The printing bed





B. Examples of Printing Materials

Plastics

PLA



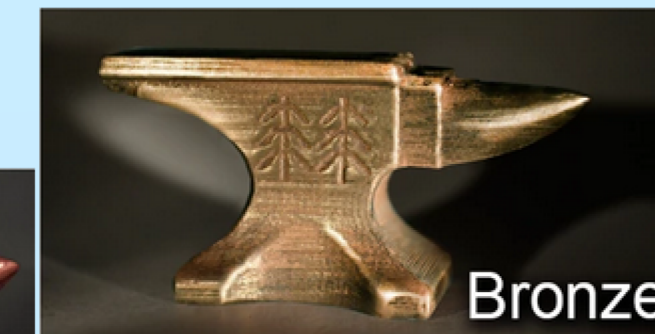
ABS



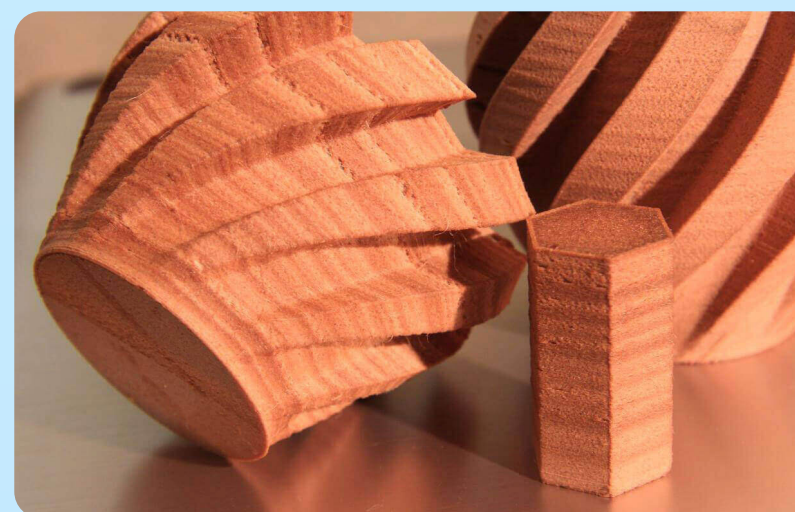
Metal



- METAL FILAMENT ISN'T REALLY METAL.
- IT'S ACTUALLY A MIX OF METAL POWDER AND EITHER PLA OR ABS.

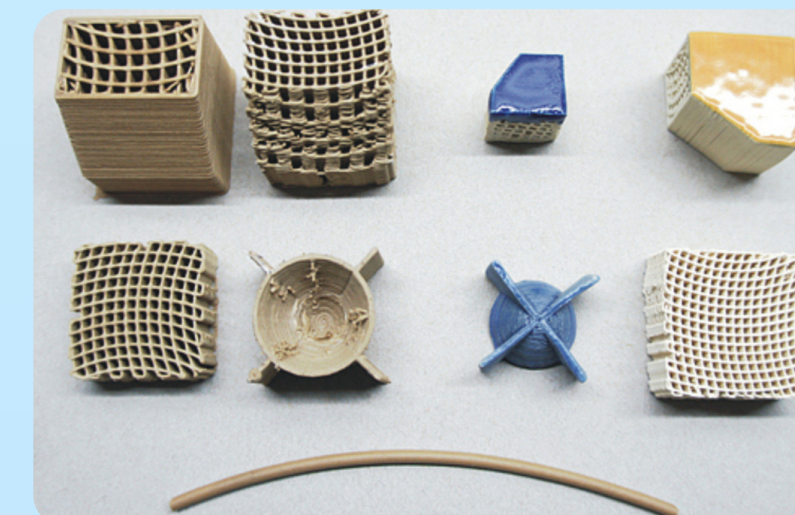


Wood



- LOOK AND FEEL LIKE WOOD BUT IT'S NOT REALLY WOOD OF COURSE
- IT'S PLA INFUSED WITH WOOD FIBER.

Ceramic



- ACHIEVES RESULTS LIKE REAL CERAMIC.
- FIREABLE IN A KLIN AFTER PRINTING, MAKE THE PRINTS READY FOR GLAZING.



C- 3D Design software



You will learn the easiest 3D Design Software

