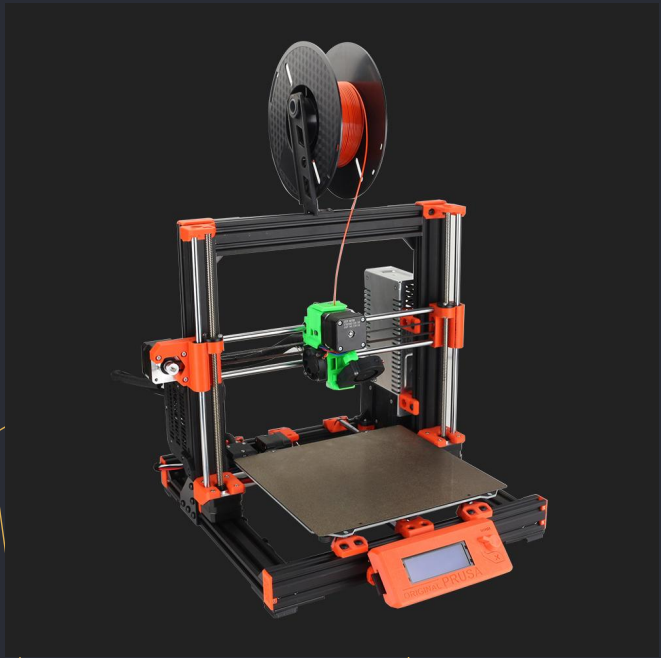
3D-Printing Made Easy

Using Ultimaker Cura

1

Introduction

ABOUT



- 3D printing technology has changed the way we create and manufacture physical objects.
- The Prusa printer is a popular choice for 3D printing, known for its ease of use and high-quality prints.
- Applications: Healthcare, Manufacturing, Architecture, Education, Art and Design, Aerospace.

Fun Fact: This Prusa Printer can be 3d-printed using another 3d printer

2

Materials and Preparation

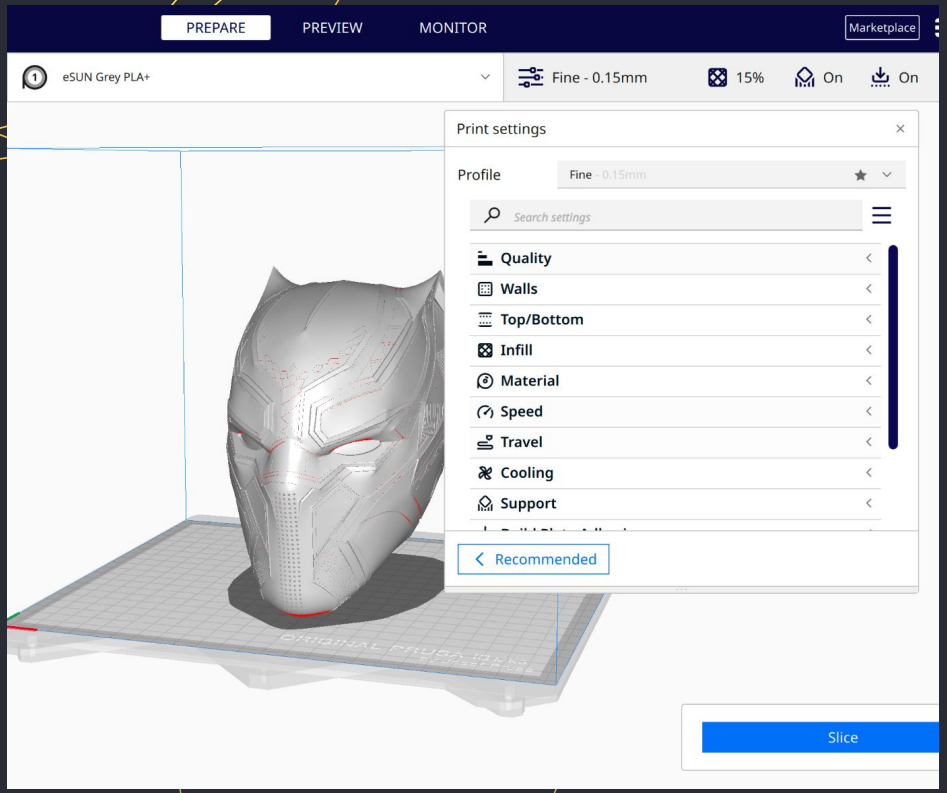
- To make 3D prints, you will need a 3D design file. For example - STL File or .obj
- You can download these files via websites like Thingiverse
- You can use programs like Autodesk Fusion 360 or Tinkercad to design and prepare your 3D models for printing

Type of printing materials - PLA, ABS, TPU

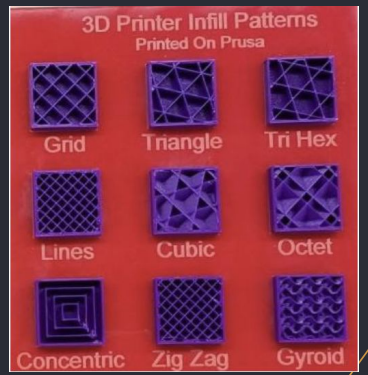
3

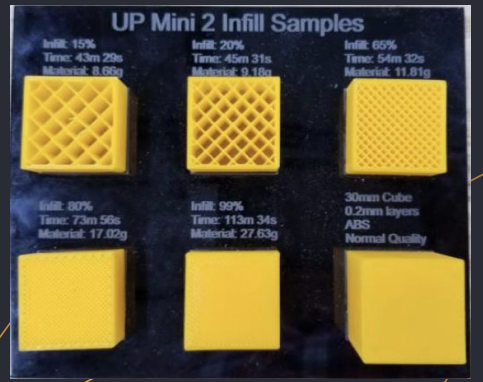
Using the Cura Software

Design

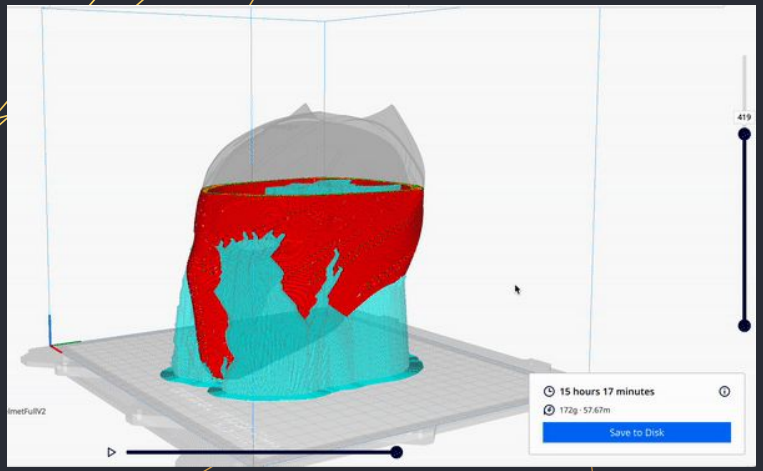


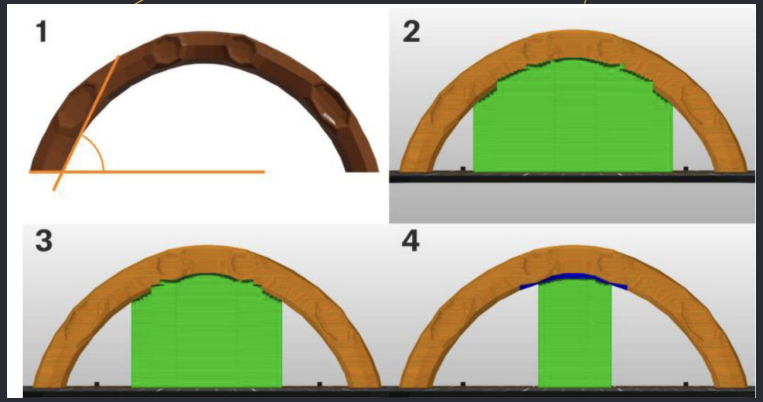
- Load the design file into Ultimaker Cura: The design will then be displayed on the platform, where you can configure your print settings
- Supports are used in 3D printing to stabilize overhanging or suspended parts of a model during the printing process, preventing drooping, deforming, or collapsing.





Slicing & Printing





- Slice the Design:

  Slicing allows you to apply your setting and show a preview of how your structure will be printed layer by layer.

- Prepare the printer:

  Load the material that you will be using into the printer's extruder and make any necessary adjustments to the printer's settings, such as the nozzle temperature and build plate temperature.

- Final touch-up

4

My Project