

3D Printer (Cura) Quick Walkthrough Booklet

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THE UNIVERSITY OF BRITISH COLUMBIA

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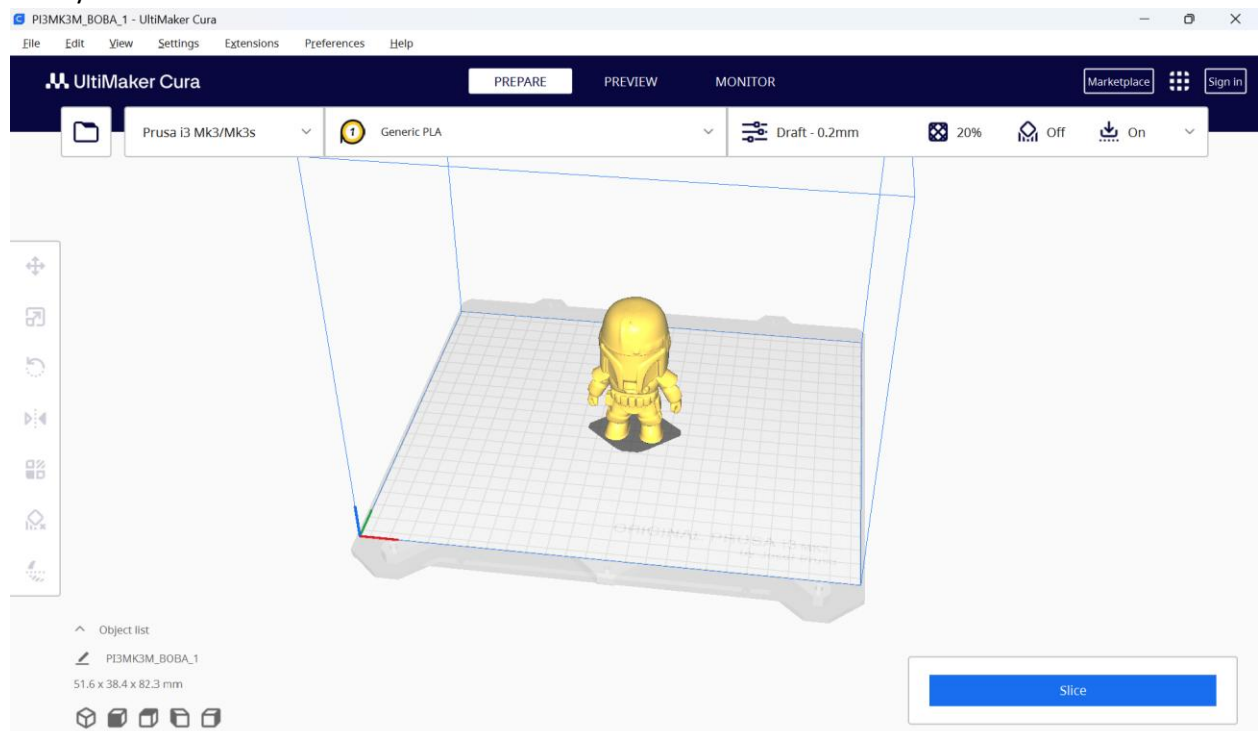


Ultimaker Cura:

Ultimaker Cura is a slicing software used for many different printers across various brands. It can be used for almost all the FDM printers in the makerspace aside from the Tinkerine. Some printers may require a custom profile to be made. These can be searched online, if they cannot be found, speak to the makerspace technician.

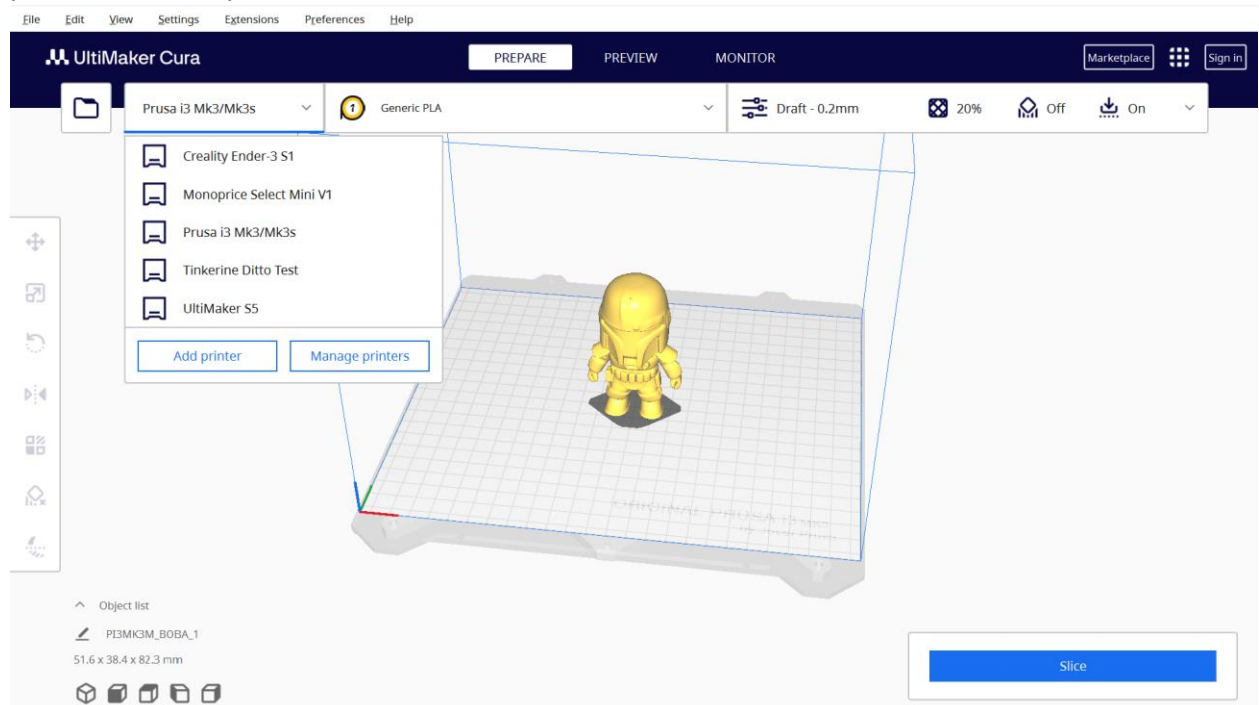
To prepare a FDM (Fused Deposition Modeling) print, follow the below steps:

1. Prepare your .STL file. These can be made through:
 - a. SolidWorks
 - b. Other CAD programs
 - c. Found Online
2. Load your model into Cura.

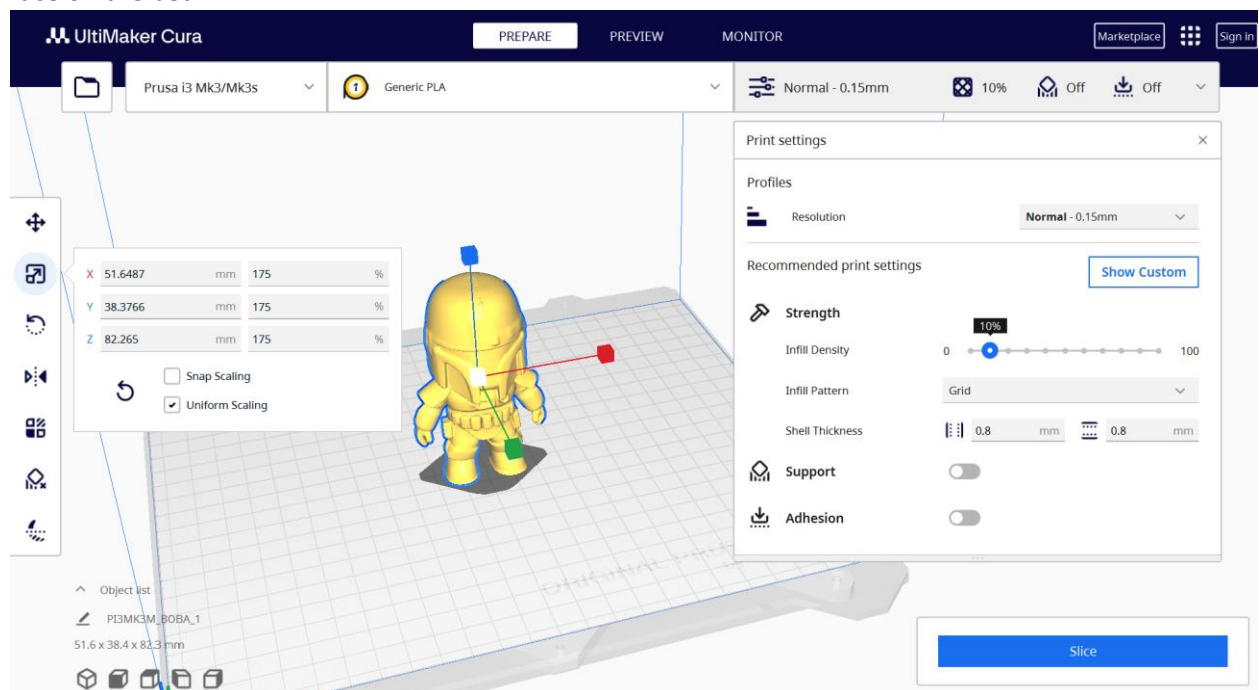


3. Choose your printer model on the top left. Select the printer model from the list or choose "Add printer -> Ultimaker or Non Ultimaker printer depending on the model → Add Non-networked

printer → choose printer from list”.

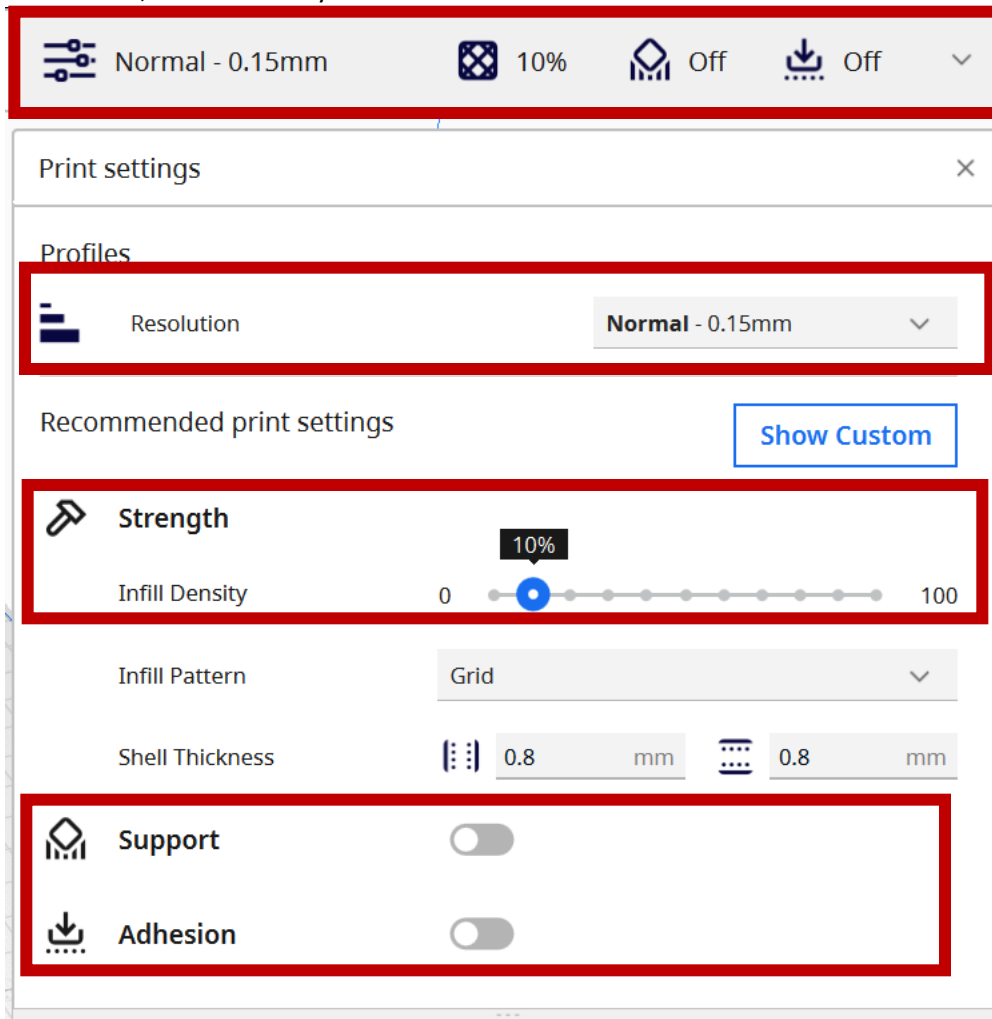


4. Adjust your object orientation, scale, and location if needed. Generally, place the flattest, widest face on the bed.

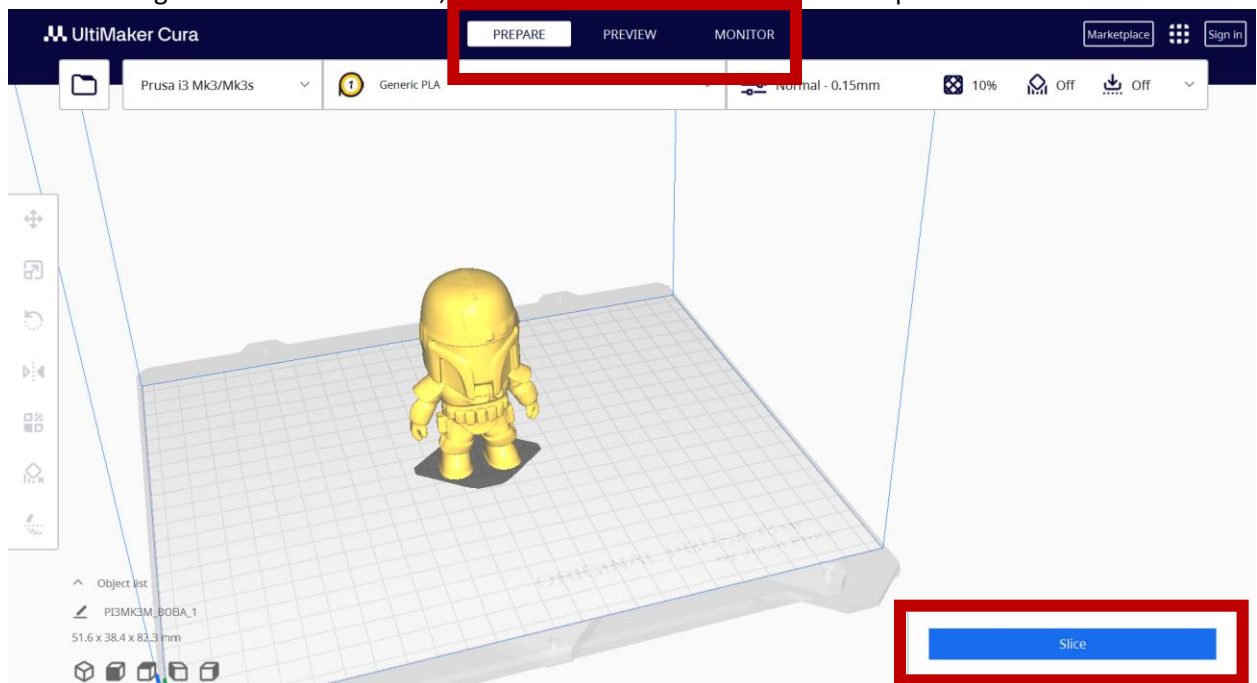


5. Adjust your print settings, such as resolution, infill, support and adhesion. More customized settings can be reached by selecting “Show Custom”. Resolution and infill should be based on the need for accuracy and strength respectively. Supports should be used if any large overhangs are present, and adhesion is generally good to keep on, but is not needed if the part has a large,

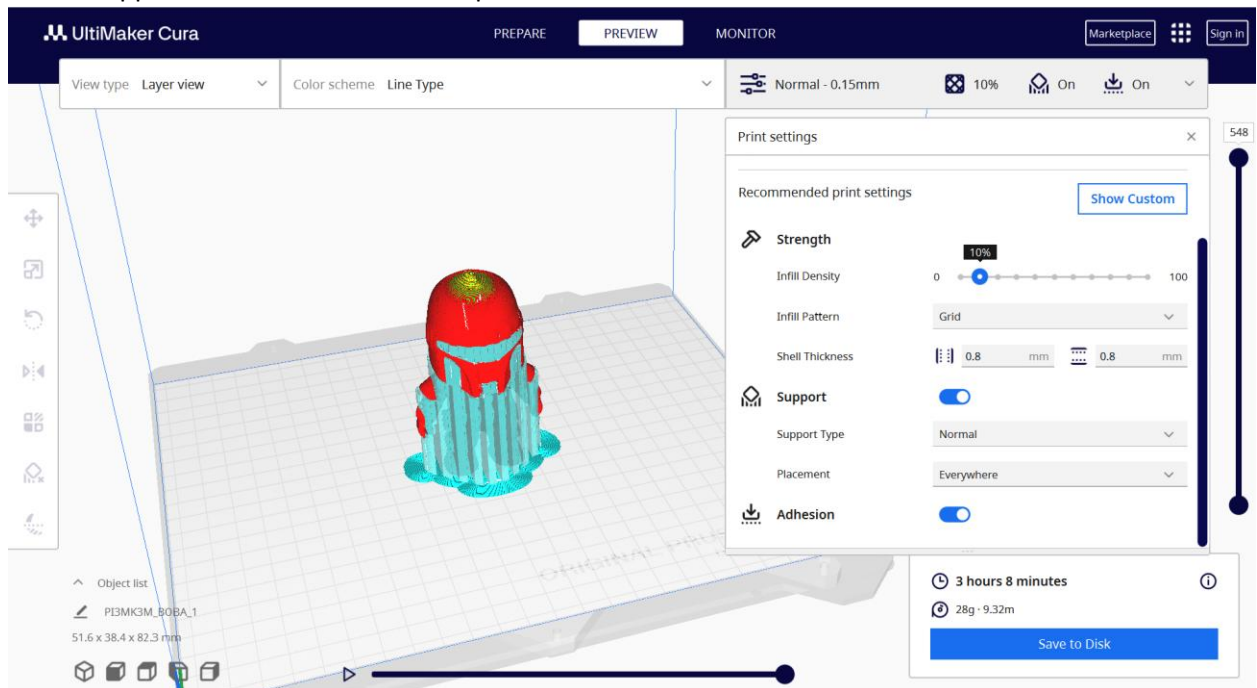
flat bottom, and is not very tall.



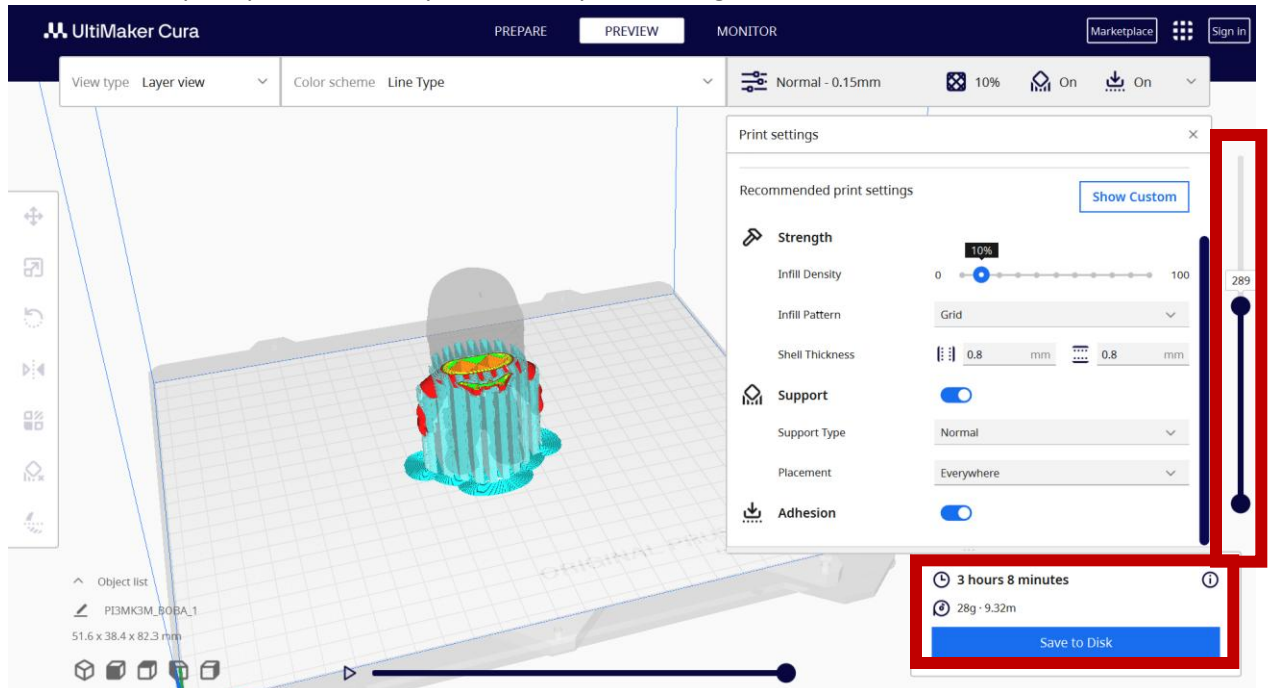
6. When settings have been confirmed, select “Slice” and “Preview” at the top of the screen.



7. A color coded preview of the print should appear. Examine the preview for any obvious errors or lack of support. Confirm the estimated print time.



8. To further the print preview, the layers can be cycled through.



9. If needed, edit the file name, insert a SD card, and save the GCode to the disk. Insert into the printer, and begin.
10. Monitor the print. At the very minimum, monitor the first 5 layers of the print to ensure proper bed adhesion, layer height, and resolution.