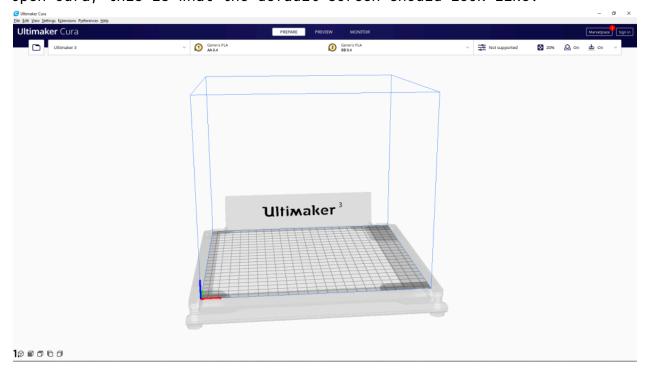
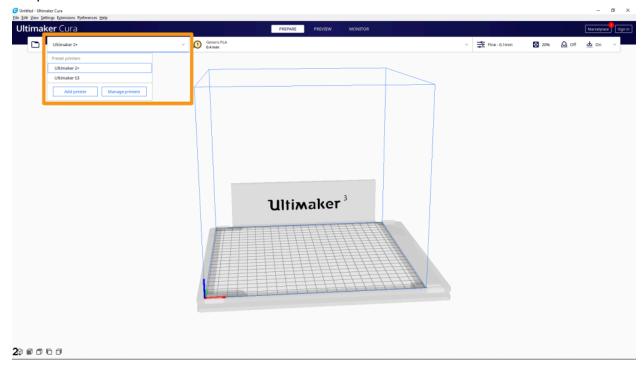
Ultimaker S3 Cura Tutorial (Unsupported)

Note: This tutorial is for supported prints, if your print does not need support, use the <u>tutorial for unsupported prints</u>.

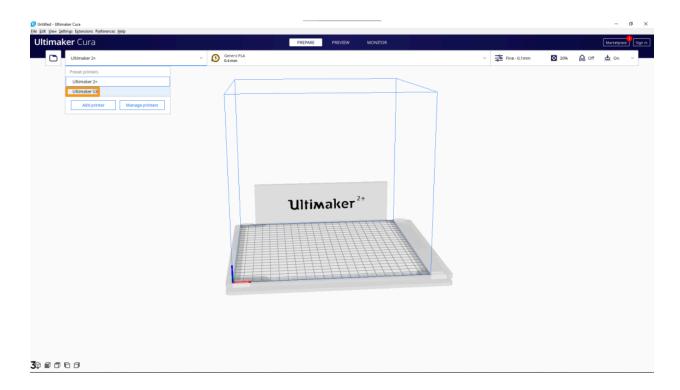
Step 1
Open Cura, this is what the default screen should look like.



Choose the printer you want to create a print file for using the drop-down menu.

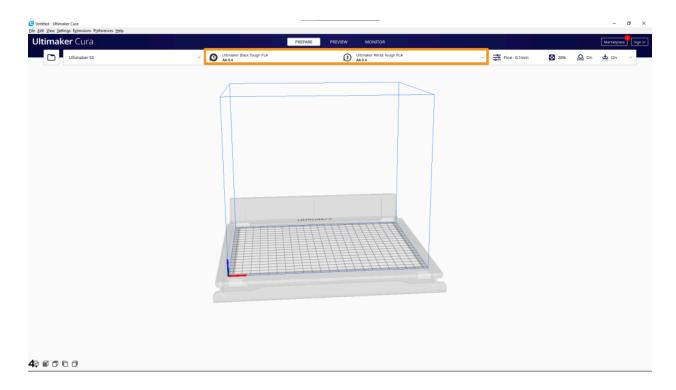


Select Ultimaker S3.



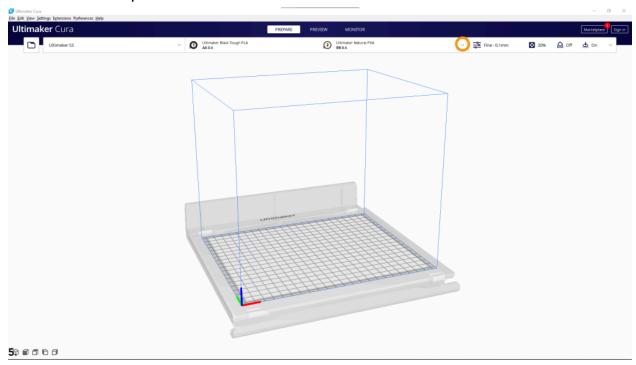
Check to make sure the materials in Cura match the printer you want to use. If you are printing WITH supports and your material settings do not match the printer please proceed to step 5.

If your material settings match please proceed to step 11.

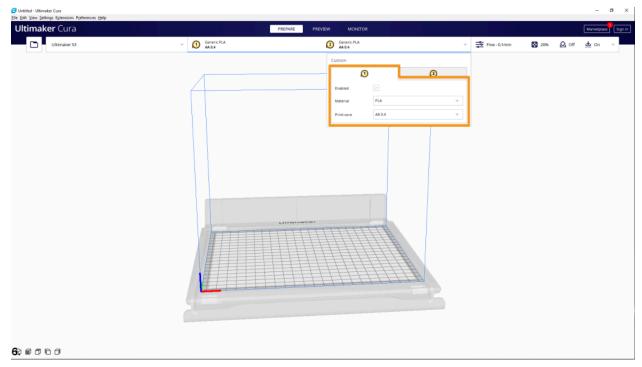


Note: all Ultimaker S3's on the floor has two material extruders, there are two configurations for our machines. Please make sure you are using a machine that matches your needs. If you are printing WITHOUT support make sure the machine you are using has PLA in both extruder positions. See the example in the photo above. If you are printing WITH support position 1 should be PLA and position 2 should be PVA.

Step 5
Click the drop down menu arrow in the material selection window.

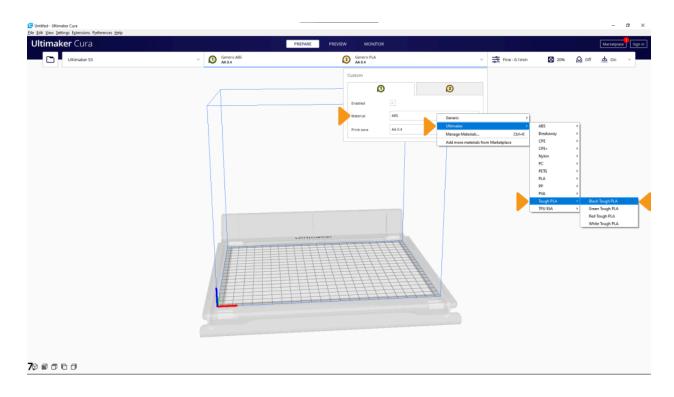


Select material spool 1 by clicking the tab with the circled "1" icon on it.

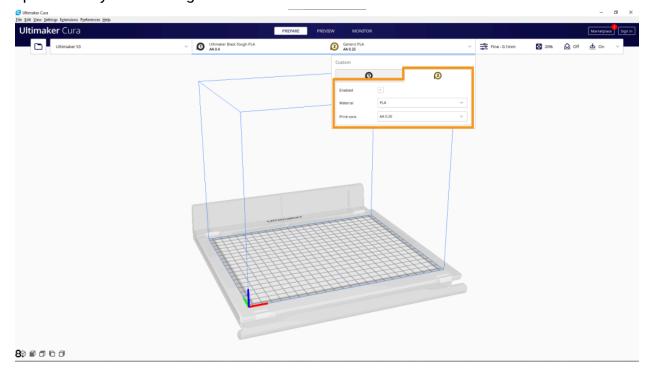


To the right of "material" use the drop-down menus to navigate to "Black Tough PLA".

Material > Ultimaker > Tough PLA > Black Tough PLA

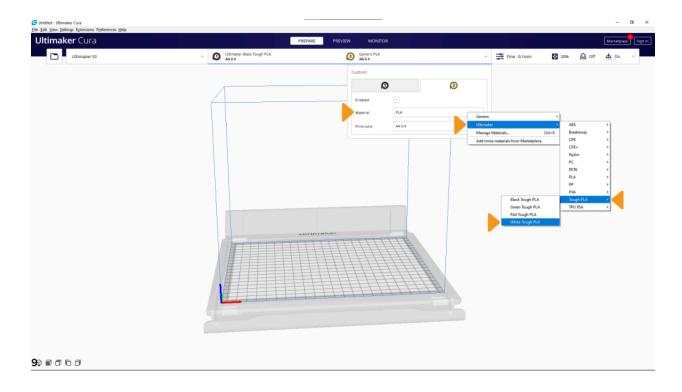


Repeat this same process for material slot 2. Select material spool 2 by clicking the tab with the circled "2" icon on it.



To the right of "material" use the drop-down menus to navigate to "Natural PVA".

Material > Ultimaker > PVA > Natural PVA

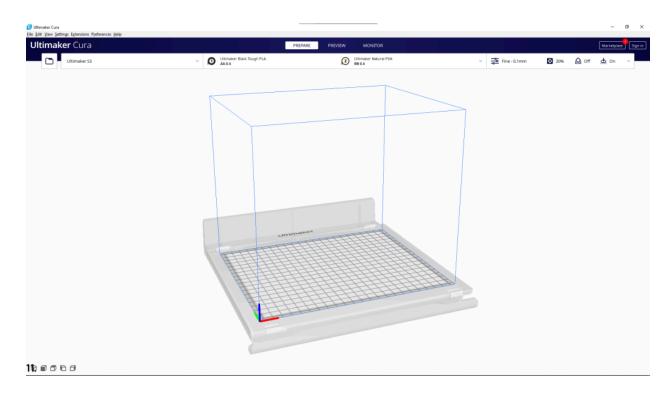


Once your Cura looks like the example at right you are ready to import your file.

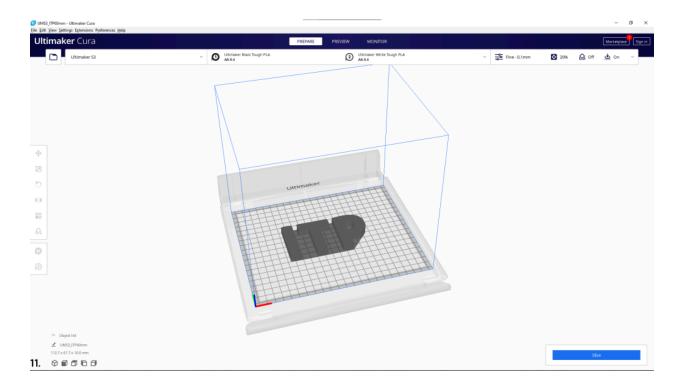
Files MUST be saved as an .STL

Drag and drop the file into cura or use the file menu option to select your file.

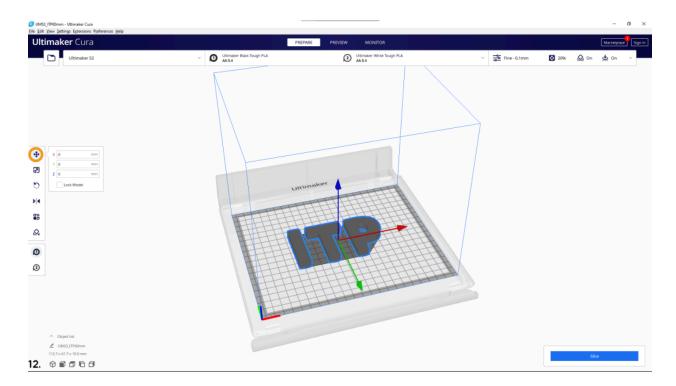
Multiple files can be printed at the same time.



Choose the printer you want to create a print file for using the drop-down menu.

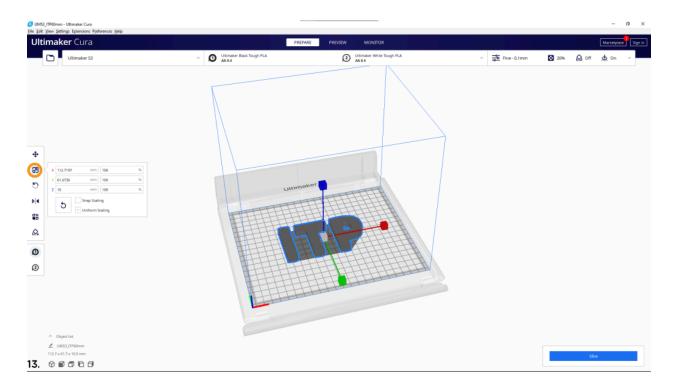


Adjust the position of the object if needed.



Note: Taller objects should be placed at the rear of the build plate, this will reduce the time the print takes.

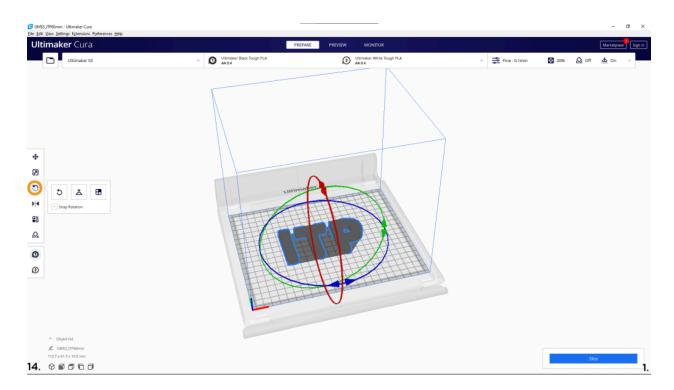
Optional. Adjust scale if needed.



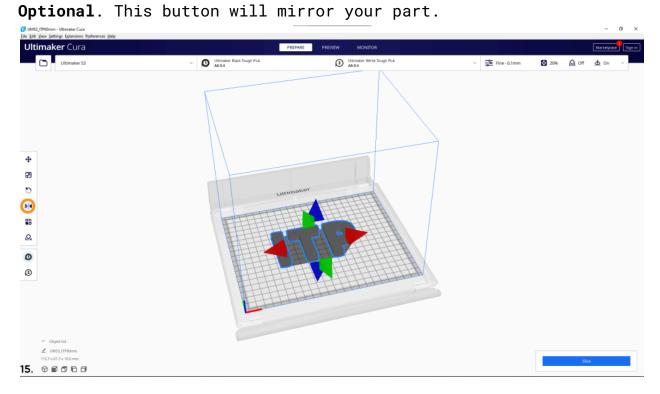
Note: Dimensions of the object should be set before the .STL is exported from the CAD/Modeling software. This ensures that the part is the right size and multiple parts will fit together.

Rotate part to the desired orientation, since this print will have supports choose the orientation that makes the most sense for the object.

- Use the first icon in the menu to reset the rotation
- Use the second icon in the menu to "Lay Part Flat"
- Use the third icon in the menu to chose a face to position on the build plate.

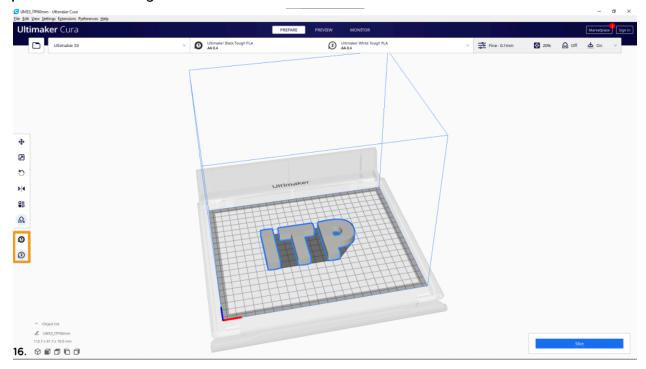


Step 15
Ontional This button will misses your next



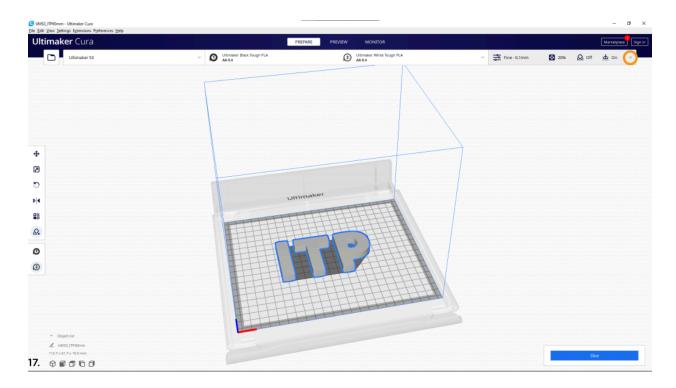
Note: It is better to mirror you part in the CAD/Modeling software.

Choose a material spool (Circled "1" Icon), so the part will be printed in Tough PLA.



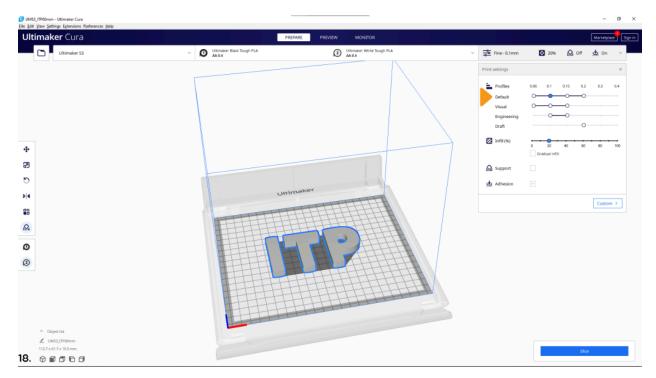
The print settings are located on the right-hand side of Cura.

Click the drop-down arrow to adjust the settings as needed.



Note: Most files will print well with the default settings of Fine - 0.01 mm 20% fill.

Set the slice height using the radio buttons to the right of "Default".

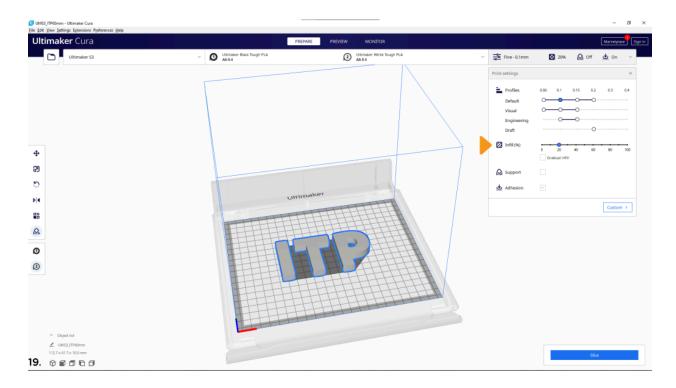


Note: Slice height will have major effects on your print.

- For a prototype choose 0.2
- For a final with small details choose 0.06
- For a final with no details choose 0.1 or 0.15

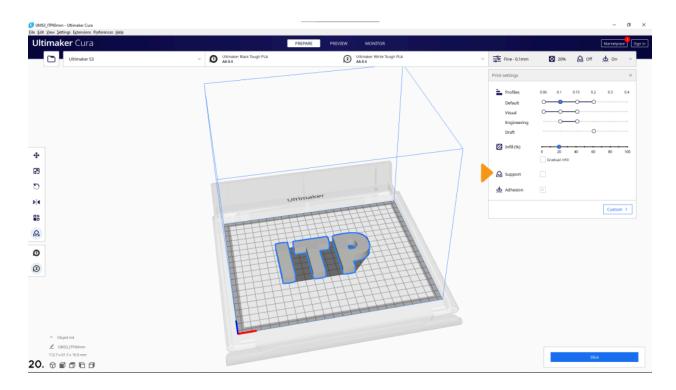
Slice height, also referred to as Layer Height, makes a big difference in how long your print will take. For example, 0.1 will take TWICE as long to print as 0.2 For information regarding the other profiles please see our guide to "Advanced Printing".

Set infill to 20% for most prints.



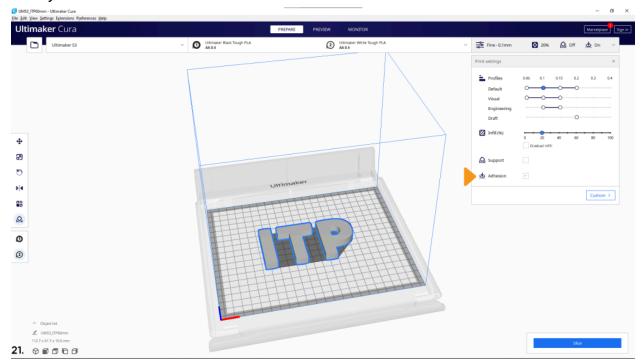
Note: If your print needs to be a functioning structural part up to a 90% infill can be used, HOWEVER, this will dramatically increase the time your print will take, up to 15x depending on the size of the part. For information regarding Gradual Infill please see our guide to "Advanced Printing".

Check the box to the right of "Support". Choose "Extruder 2", this should match the material window at the top of the screen.

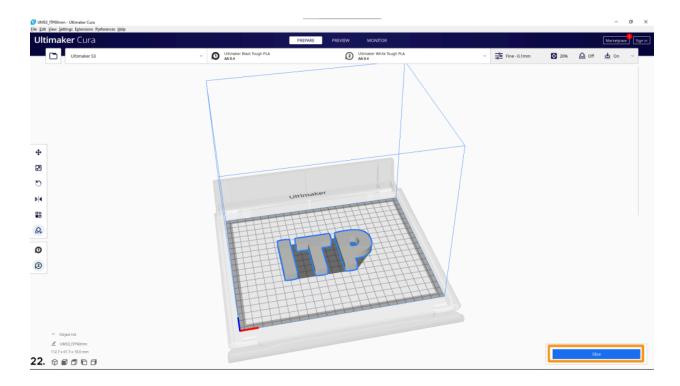


Step 21

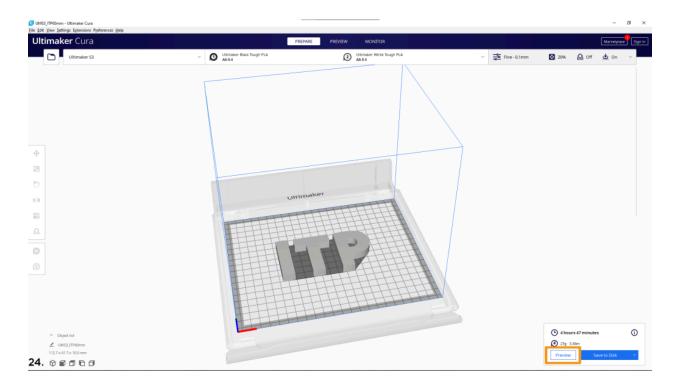
Always leave the Adhesion box checked.



To slice your file click the blue button "Slice".

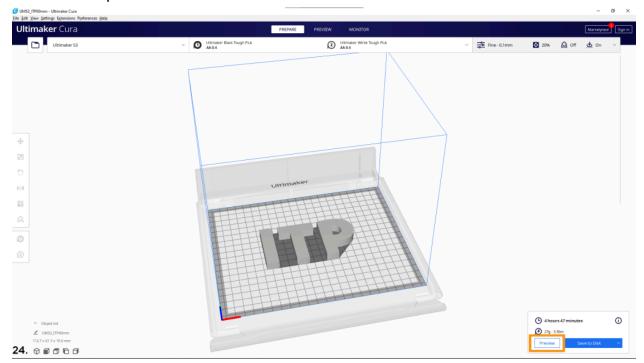


Once the file is sliced the estimated time and amount of material will be displayed.

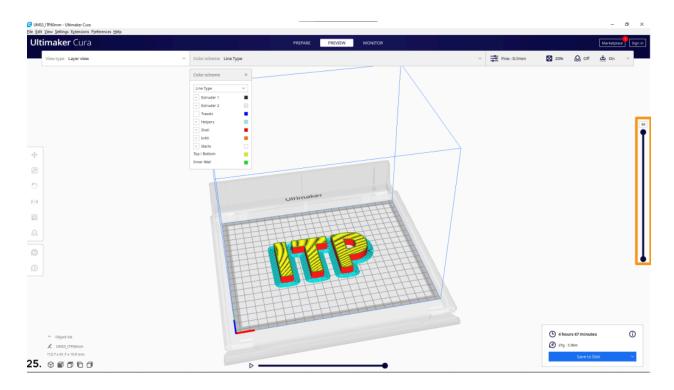


Note: Please record the time your print is estimated to take this will be needed when making reservations for printing.

Click the preview button in the estimation box.

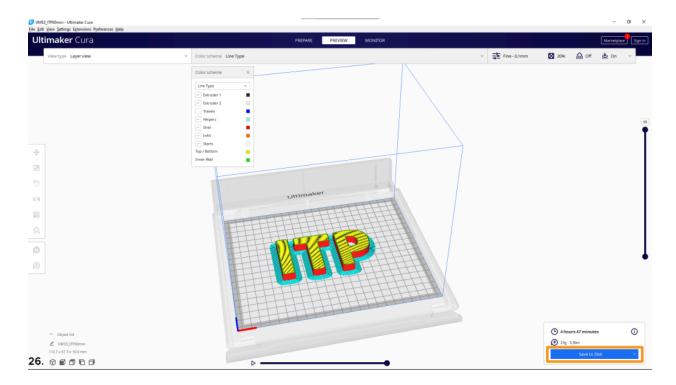


Using the slider on the right-hand side of the screen, scroll through the layers of the print checking to make sure that all parts of the print touch the build plate or are supported. Supports are shown in CYAN.



Save your Ultimaker Print File to a flash drive.

The next steps will be on the printer.



Insert your flash drive and wait for the system to load the file structure.

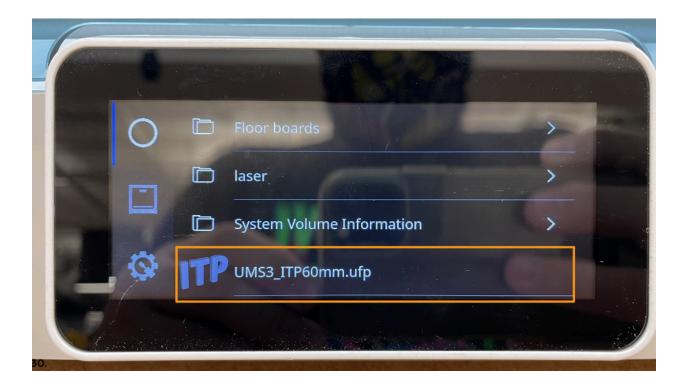


Tap "Select from USB".

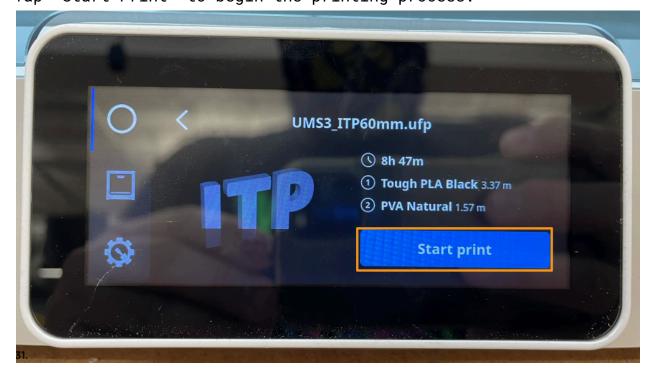


Step 29

Navigate to your file and tap it to select.



Step 30
Tap "Start Print" to begin the printing process.



Note: If there are any "conflicts" visible on this screen, the settings of the file do not match the settings of the printer. Please compare the settings on the printer with the settings in Cura and re-export your file.