Ultimaker Digital Factory Slicing Software
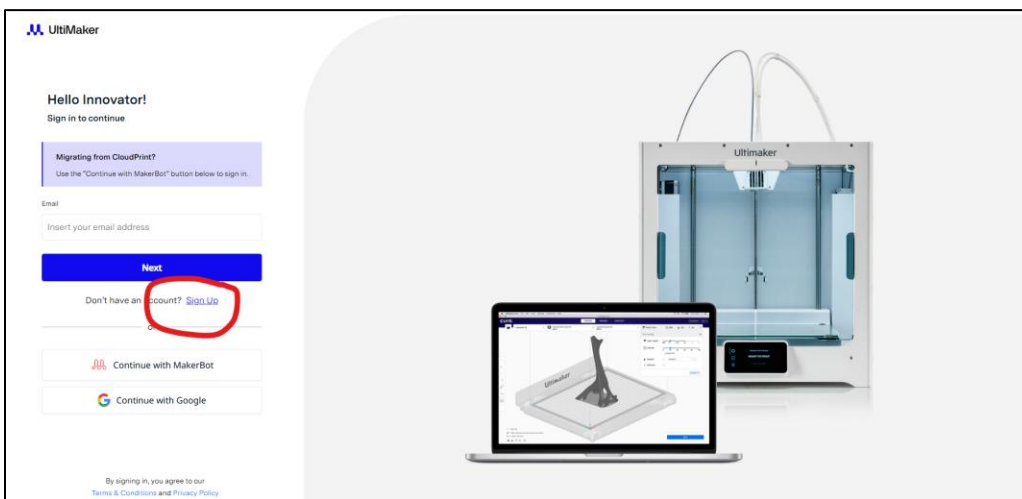
Instructions for preparing files for Belleville Public Library's MakerBot Replicator+ 3D Printer

One: Download or create your object file

Download an .stl or .obj file to your computer. Files can be found at Thingiverse and Printables. Or, you can design and export a file from sites including Tinkercad and Blender.

Two: Create a free UltiMaker Factory account
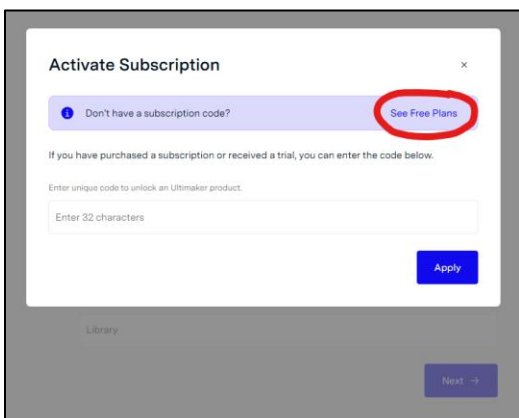
Go to https://account.ultimaker.com/app/signin and select Sign Up.

Follow the prompts: enter your email address and create a password. The next page will ask you to create a username, enter your name, country and birth year. Once filled in, select Create Account. You will then need to go to your email inbox to click the email confirmation.
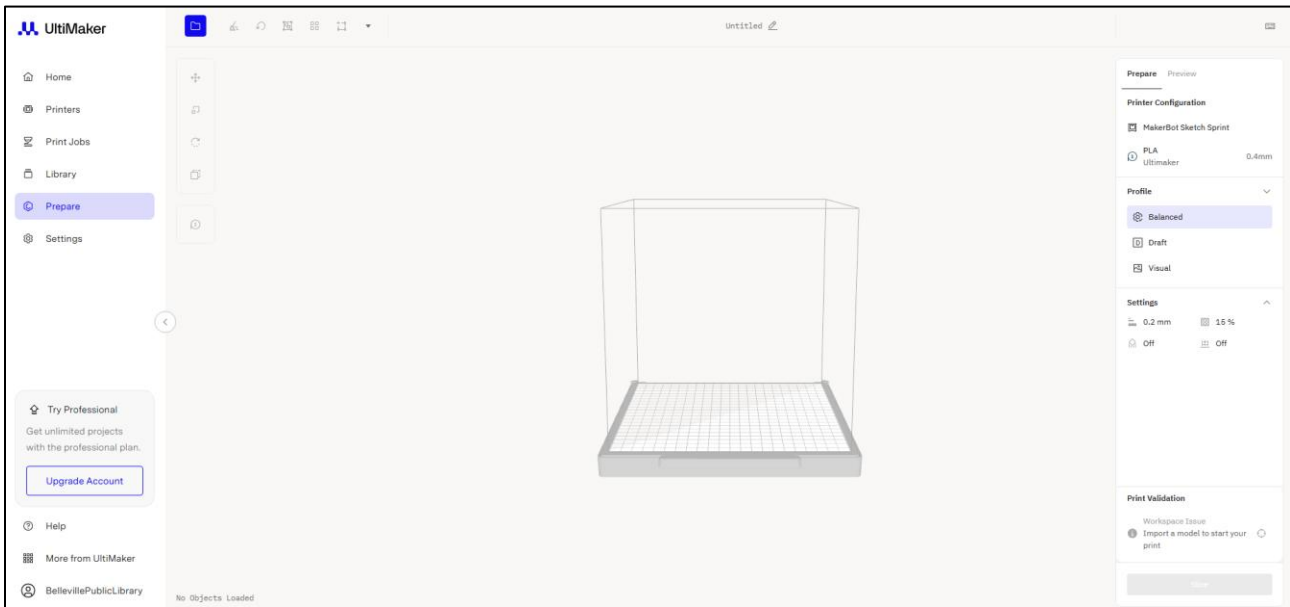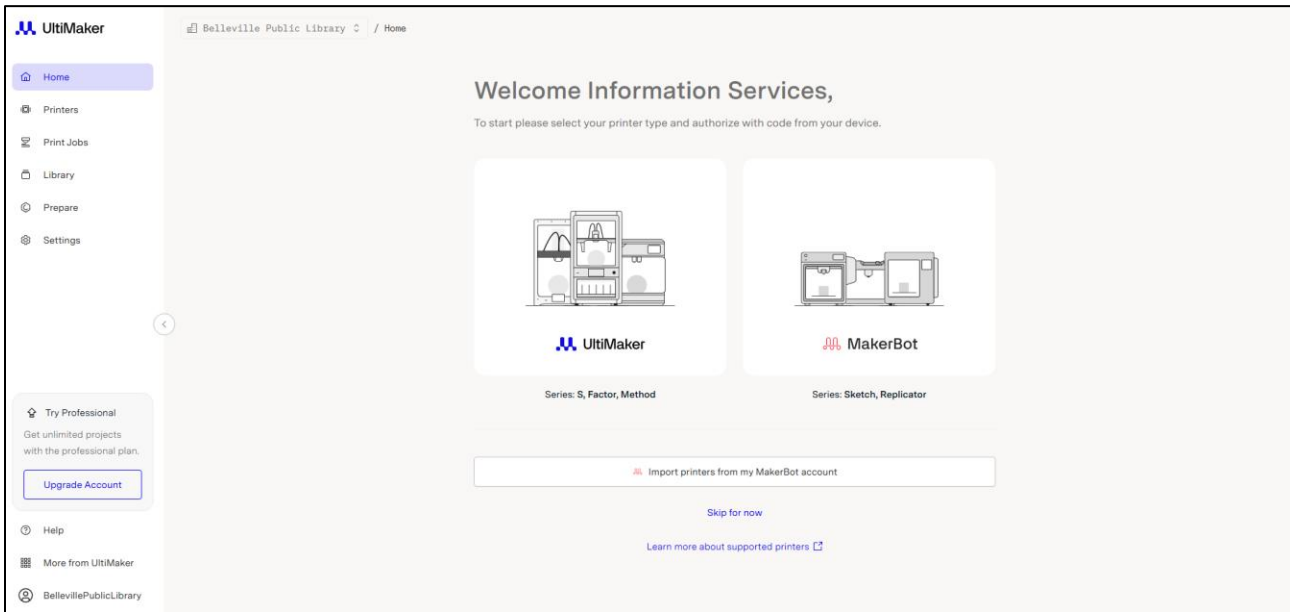
When you sign in after the confirming your email you will be asked to Set up a Workspace. Enter a workspace name (anything will do!) then click Next.

If you are asked to enter an activation code, click See Free Plans, then select Free PRO, then Complete.
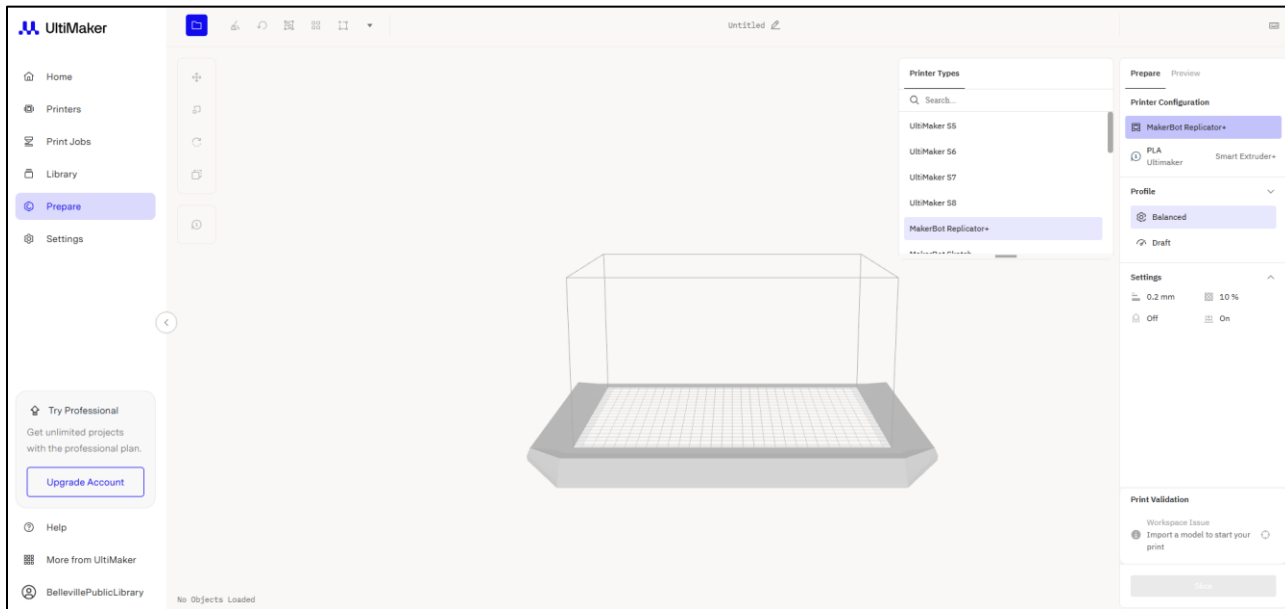
Three: Open Prepare and Set Printer Type

Once logged into your Ultimaker Factory account, from the Home screen, select Prepare from the left side menu.
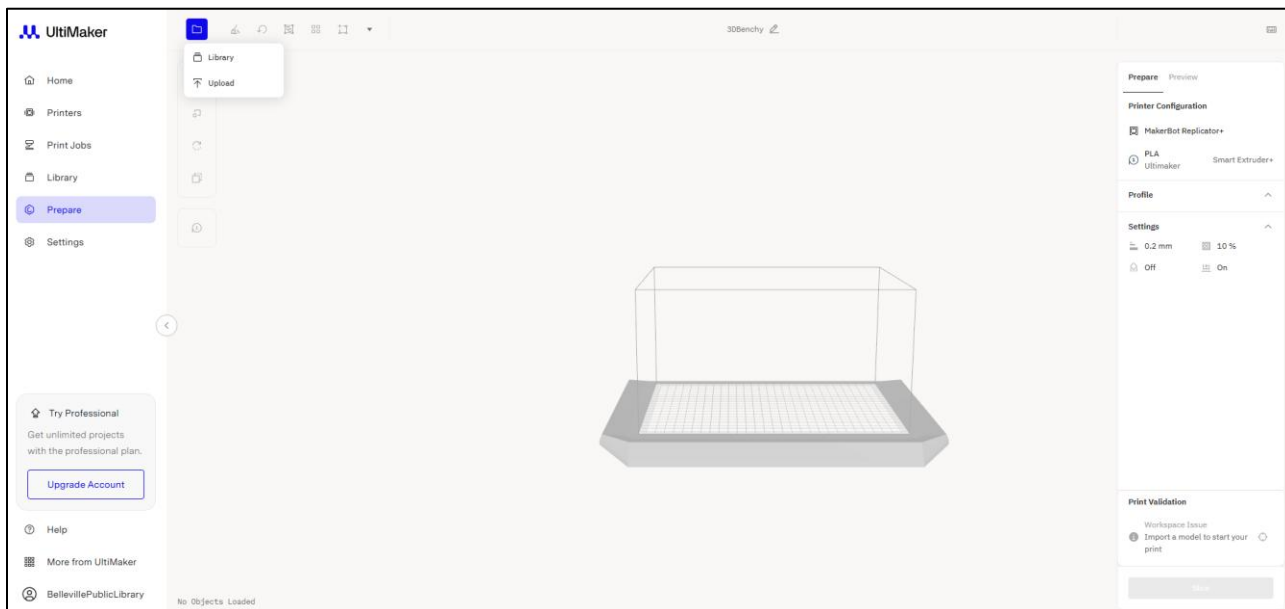
Once in Prepare, select the printer model under "Printer Configuration" and scroll down to select "MakerBot Replicator+"
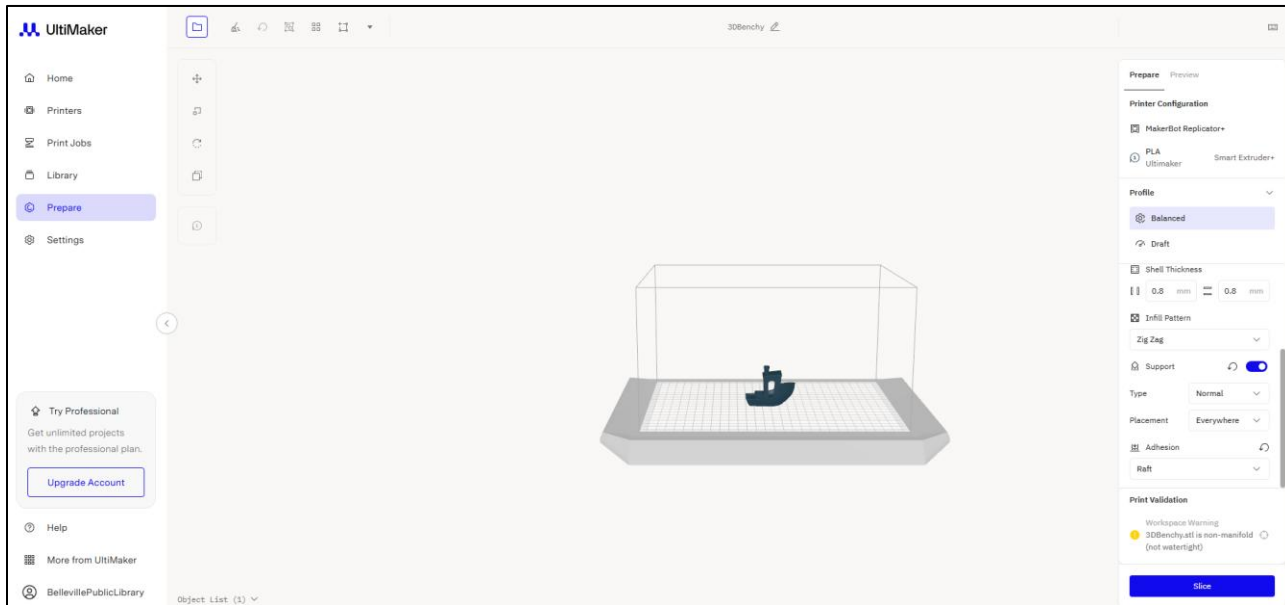

Four: Import your file

Select the folder icon from the top menu bar and select Import. This should open a file finder window where you can locate your .stl or o.obj file form your computer downloads.

Five: Modify Settings

Click on the Settings option on the right side to open the settings options. Scroll down to the Support and ensure this option is toggles on (as seen in screen shot below). Belleville Public Library will not print objects without supports if the object requires supports.

In the Settings options under Adhesion, ensure either raft or brim are selected. Belleville Public Library will not print any object without a raft or brim.

Six: Slice

Select slice in the bottom right. The software will slice the object and give an estimate of print time and required filament.

Note: Belleville Public Library will only print objects with print times of 4 hours or less. If your print time is more than 4 hours, consider breaking the object into multiple objects or going back to Prepare and decreasing infill density.

Seven: Export

When you are ready to export, select the three small dots to the right of the Queue button in the bottom right, then select Download. A .Makerbot file will be downloaded to your computer. Upload this file on our 3D Printing webpage to submit your print.