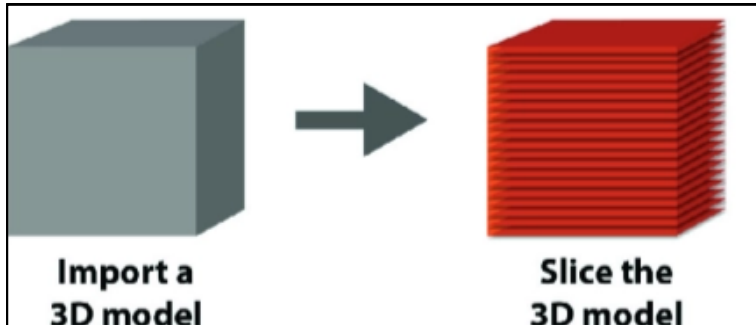


# Printing with 3D Printer OS

## What is 3D Printer OS?

- 3D Printer OS is the slicing software we use to print to all of our 3d printers
  - **What's a slicing software?**
    - 3D printers cannot read 3d model files on their own. They need a software to translate the file into “slices,” so that the printer knows the right steps to follow in order to successfully print your file.

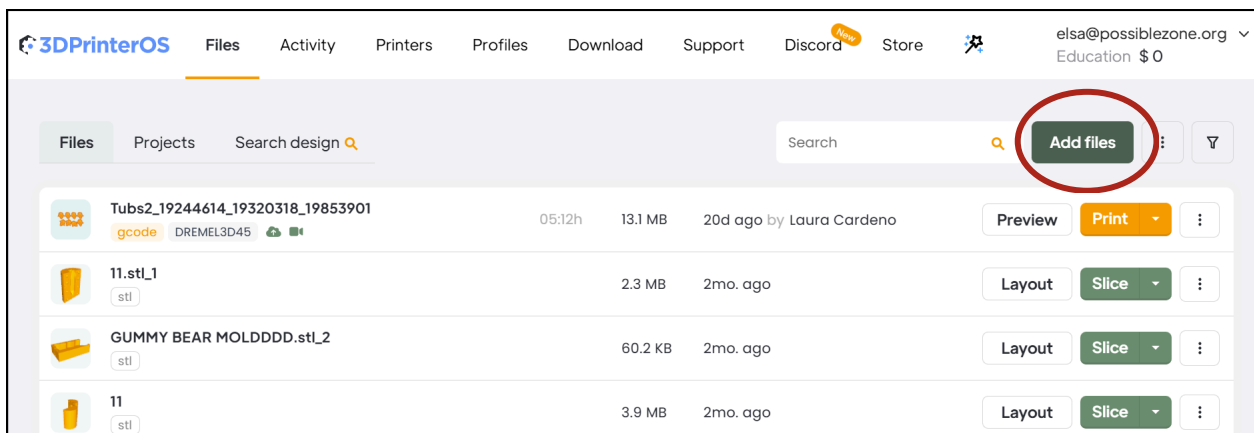


←  
*from medium.com*

- This kind of software is called “slicing software.”
- In order to change your viewing angle in the software, right-click and drag the screen.

## Prepare your file

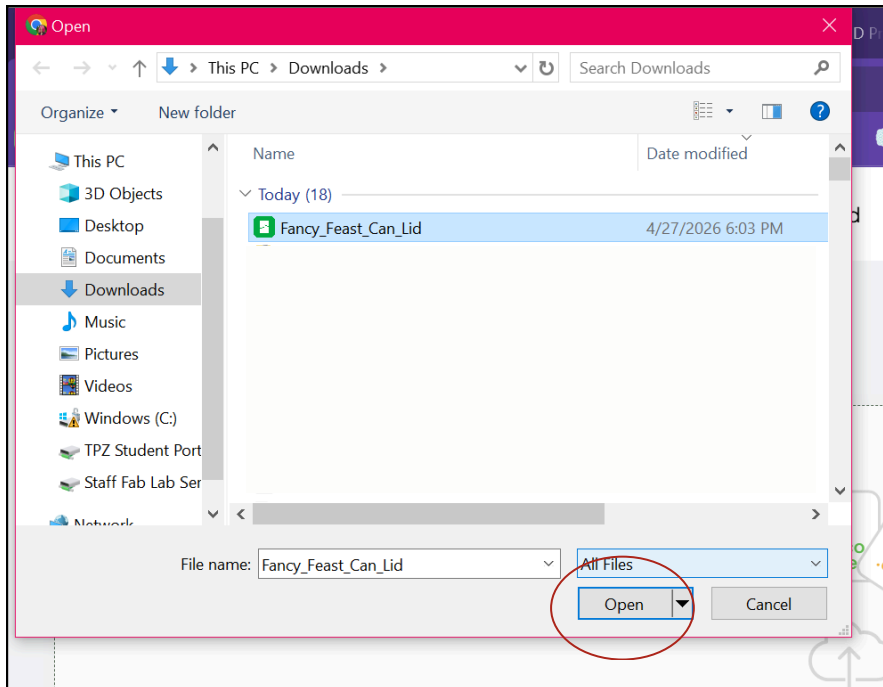
1. Download your file. Preferred file types are .stl or .obj.
2. Log into 3D Printer OS.
  - a. If you're a student, use your TPZ username and password.
  - b. If you are a staff member, you can log in through JumpCloud.
3. Your screen will look like this. Start by clicking “Add files” in the top left.



*continued... ->*

# Prepare your file (continued)

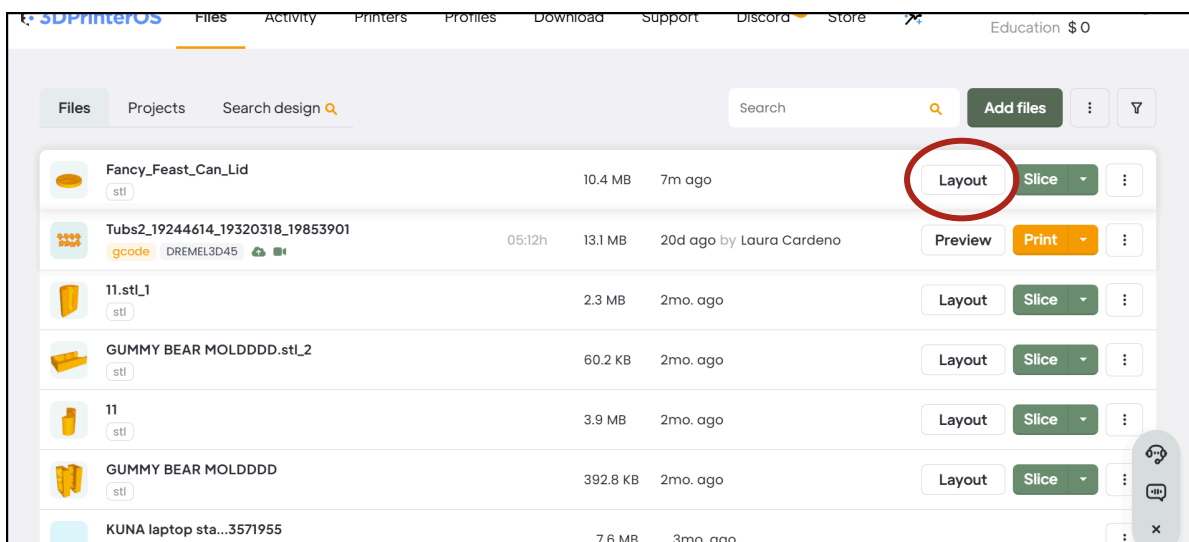
This will open a dialog box. Select your file, then choose “open” in the bottom right of this window.



# Lay out your file

*These steps are how you tell the slicing software to make the 3d printer print the file in the right place on the print bed.*

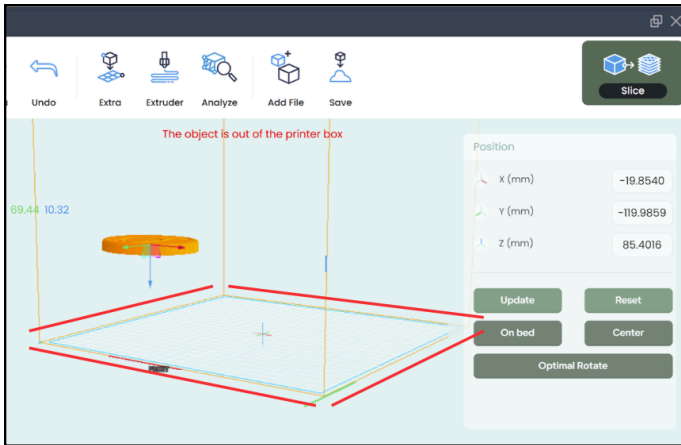
1. Your screen will look like this. Select “Layout” next to your file name.



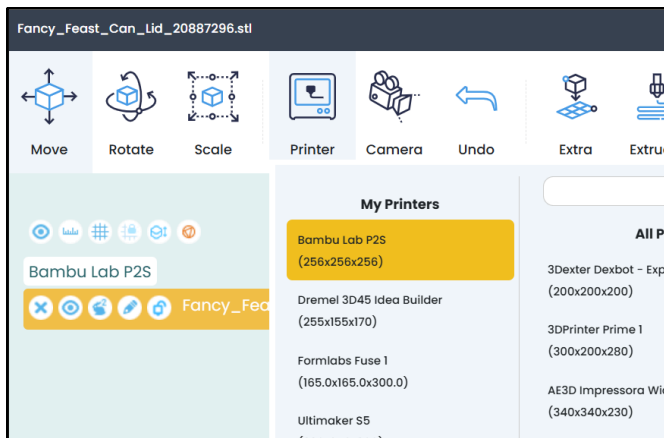
continued... ->

# Lay out your file (continued)

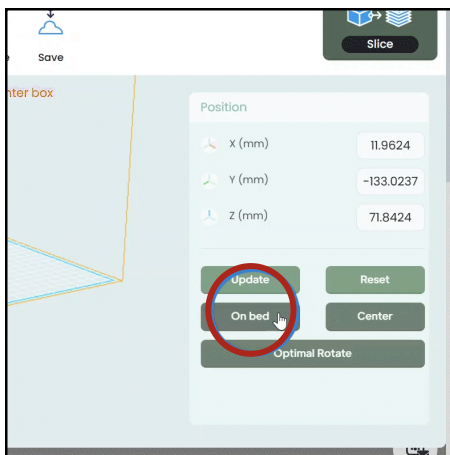
When you click “layout”, this is what your screen will look like (more or less):  
The blue square (outlined in red) represents the print plate.



2. Tell the software what printer you’re planning to use by going to “printers” on the top and select “Bambu P2S.”



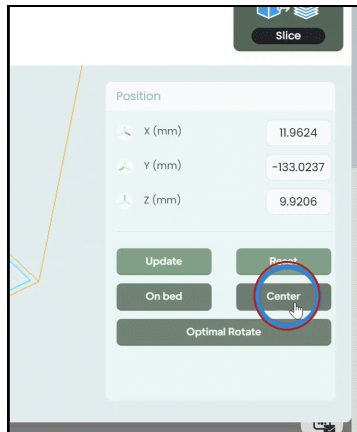
3. Next, tell the software that the file should be printed on the print plate, not hovering above it by clicking “on plate.”



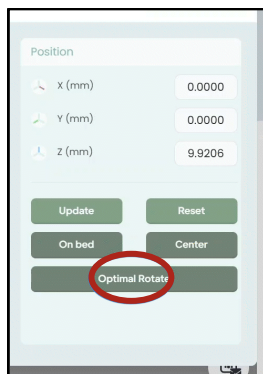
continued... ->

## Lay out your file (continued)

4. Now we have to ask the software to print in the middle of the plate. Press “Center.”



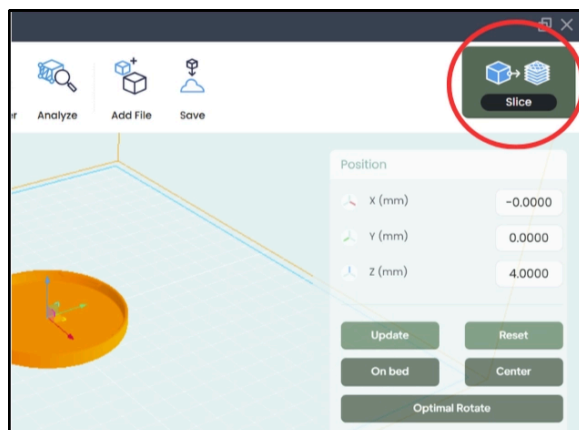
5. Finally, ask the software to rotate the file in the most efficient way. Click “Optimal Rotate.”



## Slice your file

*Now that we've told the software where on the print plate to make the model, it's time to help it figure out more specifics about the printing process.*

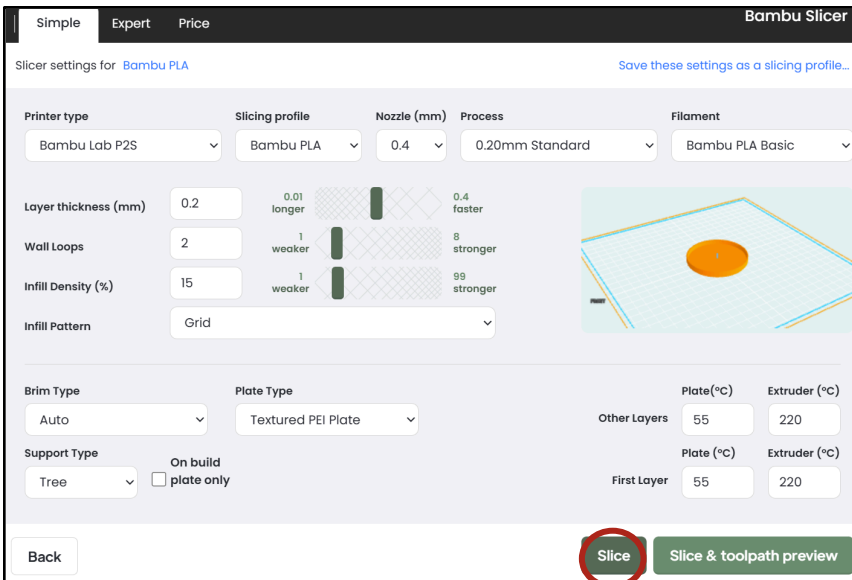
1. Select “Slice” in the top right of your screen.



*continued... ->*

# Slice your file (continued)

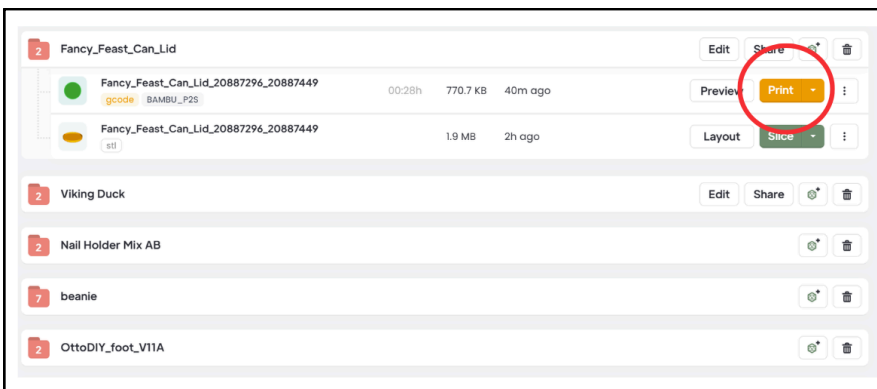
2. Your screen will look like this. I have carefully dialed in the default settings, so if you're new to 3d printing then don't worry about changing anything.



Wanna change your print settings? All of them are explained here:

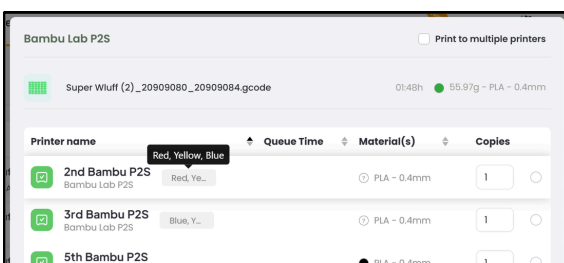


3. Finally, select "Slice". This will send you back to the main page. Look for your file name followed by an orange "Print" button.



# Print your model

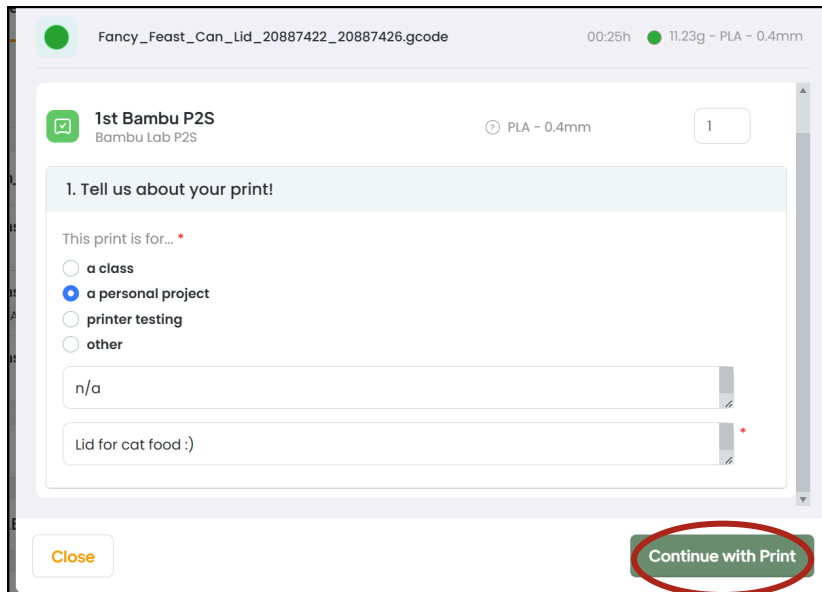
1. When you click "Print," you will see this screen. Hover your mouse over the grey highlighted section to see which colors are loaded into that printer. Click on the printer you want, then click "Select printer" in the bottom right.



continued... ->

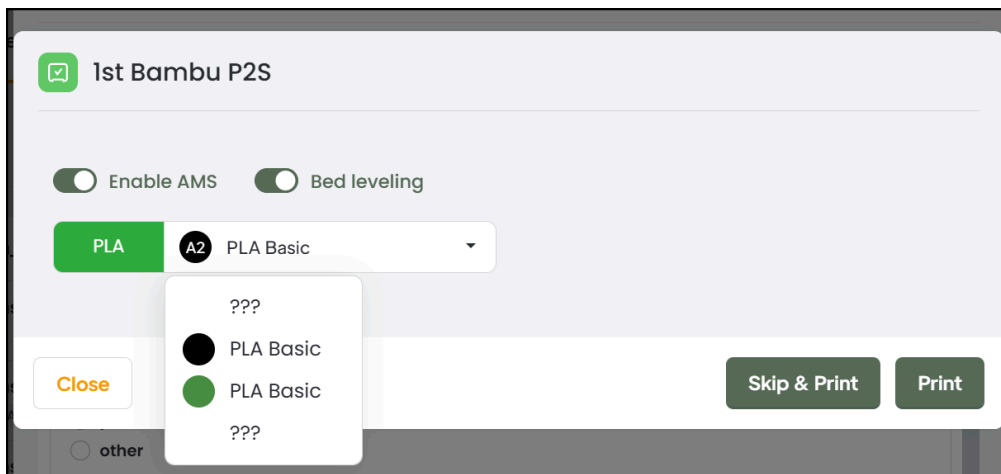
# Print your model (continued)

2. The next step is to take a quick survey about what you're printing. Once you've completed the survey, select "Continue with Print."



3. At this point you will choose what color you want to print with. Select your color, then click "Print."

*once you learn to use Bambu Studio you'll be able to use multiple colors in the same print!*



## Don't forget to pick up your print when it's finished!

- If it hasn't been removed already, allow it to cool and then open the printer door and gently pick your print up off the plate.
- If the print is stuck to the plate, remove the plate and *gently* flex it until the model pops off.

## You did it! Great job!