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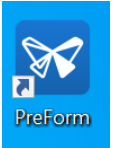
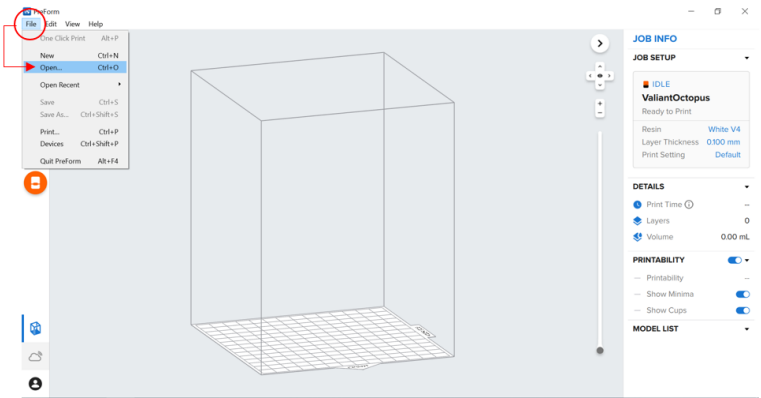
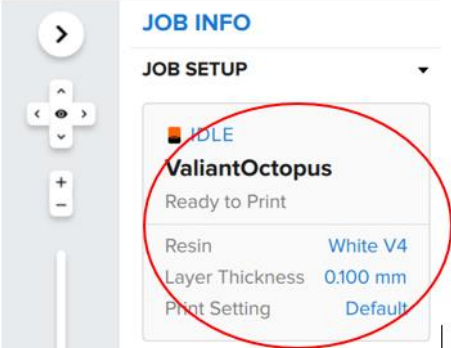


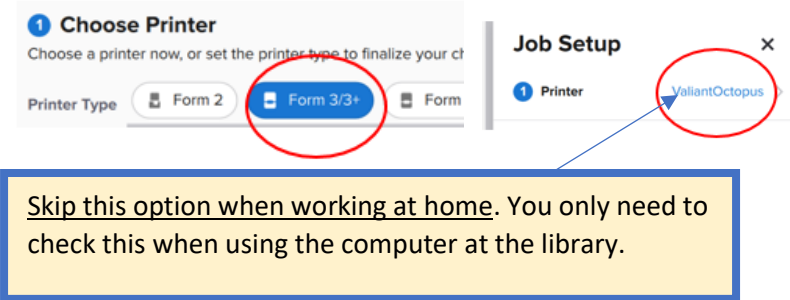
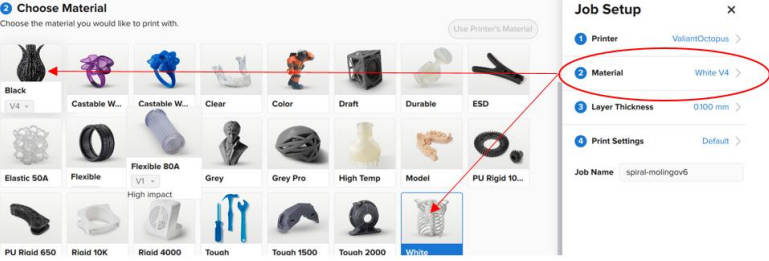
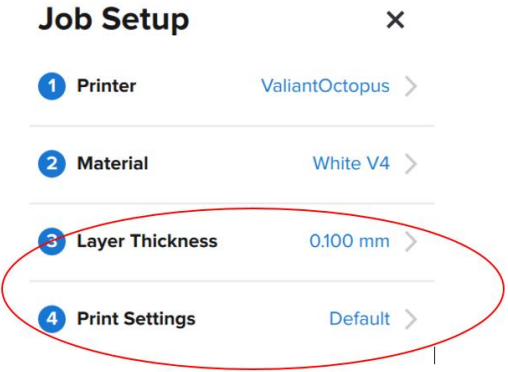
PART 1: PREPARING FILES TO PRINT


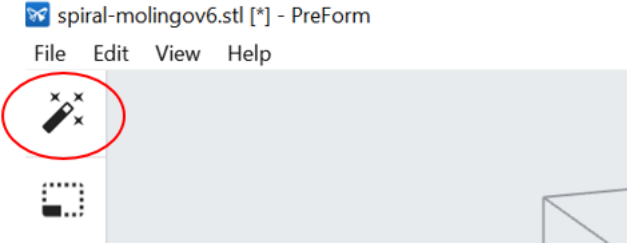
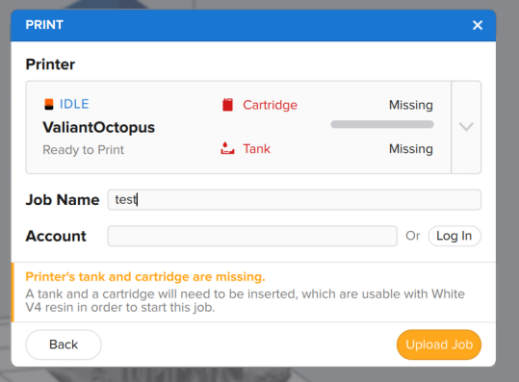
STEP BY STEP INSTRUCTIONS: PREFORM SOFTWARE

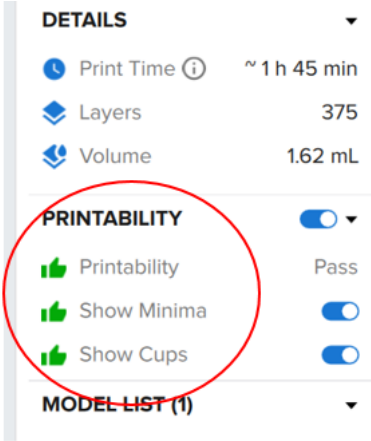
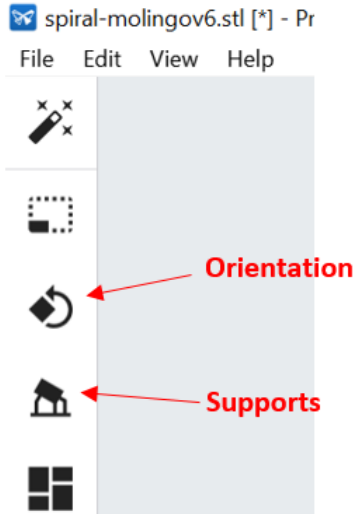
Preparing File to Print


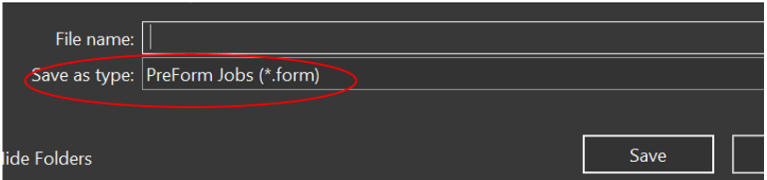
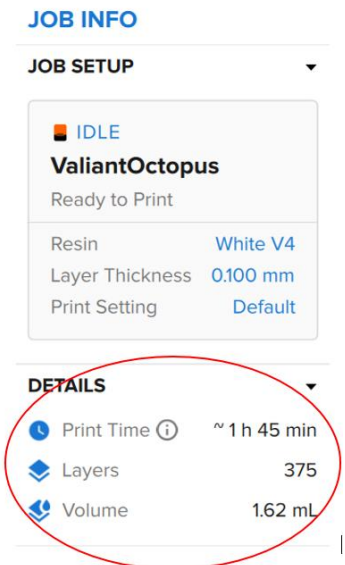
Typical time to prepare files: 45 minutes


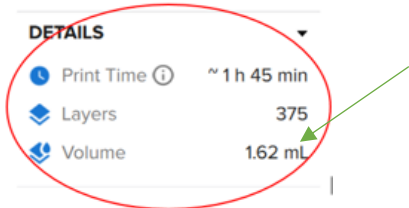
1	<p>Launch PreForm software.</p> <p>Available for free download at home: https://formlabs.com/software/preform/</p>	<p>The library computer will have preform icon on desktop.</p>	
2	<p>Open your STL or OBJ file.</p> <ol style="list-style-type: none">1. Click File Menu2. Select Open...	<p>You will need either:</p> <ul style="list-style-type: none">• .stl• .obj	
3	<p>Click Job Setup details</p>	<p>This will allow you to adjust the printer, resin, layer thickness and print settings.</p>	

4	<p>Make sure the following are selected:</p> <ul style="list-style-type: none"> • Printer Type: Form3/3+ • Printer: ValiantOctopus (SKIP IF AT HOME) 	<p>The printer option (ValiantOctopus) will not be available when using PreForm at home.</p>	
5	<p>Select resin type.</p>	<p>Available types:</p> <ul style="list-style-type: none"> • White v4 • Black v4 • Clear v4 	
6	<p>Keep default settings for: Layer Thickness: 0.100mm Print Settings: Default</p>	<p>We recommend using the 0.100 layer height for the best chances at a successful print.</p>	
7	<p>Click Apply button</p>		

			
8	<p>Use One-Click Print</p> <ol style="list-style-type: none"> 1. Click the magic wand icon 2. Click Set Up Your Print <p>There will likely be a couple of minutes while the software configures your print.</p>	<p>This will automatically apply supports and adjust orientation for a successful print. It is the fastest and most reliable way to prepare your model to print.</p>	
9	<p>AT LIBRARY ONLY – (SKIP IF AT HOME)</p> <p>You may get a screen with a yellow UPLOAD JOB button if your object passes a printability check.</p> <p>Option 1: Upload now and skip to step 14. This will accept all default orientation and support setup selections made by the software.</p> <p>Option 2: Close this window to review options.</p>	<p>Accounts are not required and we ask that users do not log into a personal account.</p>	

<p>10</p>	<p>Review Printability Check.</p> <p>You need the green thumb ups on all categories:</p> <ul style="list-style-type: none"> Printability Show Minima Show Cups 	<p>If there is an issue it will flag it in red on the model preview.</p> <p>It is okay for sections to be in red if the overall printability is a PASS.</p>	
<p>11</p>	<p>Adjust if needed:</p> <ul style="list-style-type: none"> Cups Error: Adjust Orientation Minima: Adjust Supports 	<p>Orientation and Supports:</p> <p>Try using the Auto-Generate button to assist in correcting issues.</p>	

12	Insert USB drive in computer.	You will save this setup to the USB drive to be used later for printing.	
13	<p>Save As to USB drive.</p> <ol style="list-style-type: none"> File menu – Save As Select your USB as the destination drive Enter a file name Save as type: PreForm Jobs (*.form) Click Save 	<p>.form file type saves all the details you have applied for printer type, resin type, supports, and orientation for a successful print.</p>	
14	<p>Note details on 3D print forms before reserving printer.</p> <ul style="list-style-type: none"> -Total Print Time -Volume in mL 	<p>When reserving the printer, in addition to the print time, be sure to give yourself extra time:</p> <p>50 min to wash object.</p> <p>50 min to cure object.</p> <p>30 min to clean up.</p>	

15	<p>Reserve the Form3 Printer Online:</p> <p>www.friscolibrary.com/makerspace</p>	<p>Cost to print your object will be 30 cents per mL of resin (Volume) as displayed in the Details section of PreForm.</p> <p>Please round the volume up to the next whole mL.</p> <p>Example: 1.62mL → 2.0mL</p>	 
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