

**WELCOME**

**3D  
PRINTING**

A 3D rendered graphic featuring the text '3D PRINTING'. The '3D' is significantly larger and more prominent than the 'PRINTING' which is in a smaller font size. Both are rendered in a vibrant blue color with a glossy finish and are set against a light gray grid background that recedes into the distance, creating a sense of depth. The lighting is soft, casting subtle shadows on the grid.

**1. Show & Tell Updates – Mike Photographer**

**2. Share Experiences**

**3. Pizza**

**4. Special Topics**

**1. Cura 5 and Cura Workflow**

**5. Next meeting & topics and/or demos**

- 5/27 , 12-2 File recognition between applications / CURA snowman supports**

CE3\_3DBenchy - Ultimaker Cura

File

Edit

View

Settings

Extensions

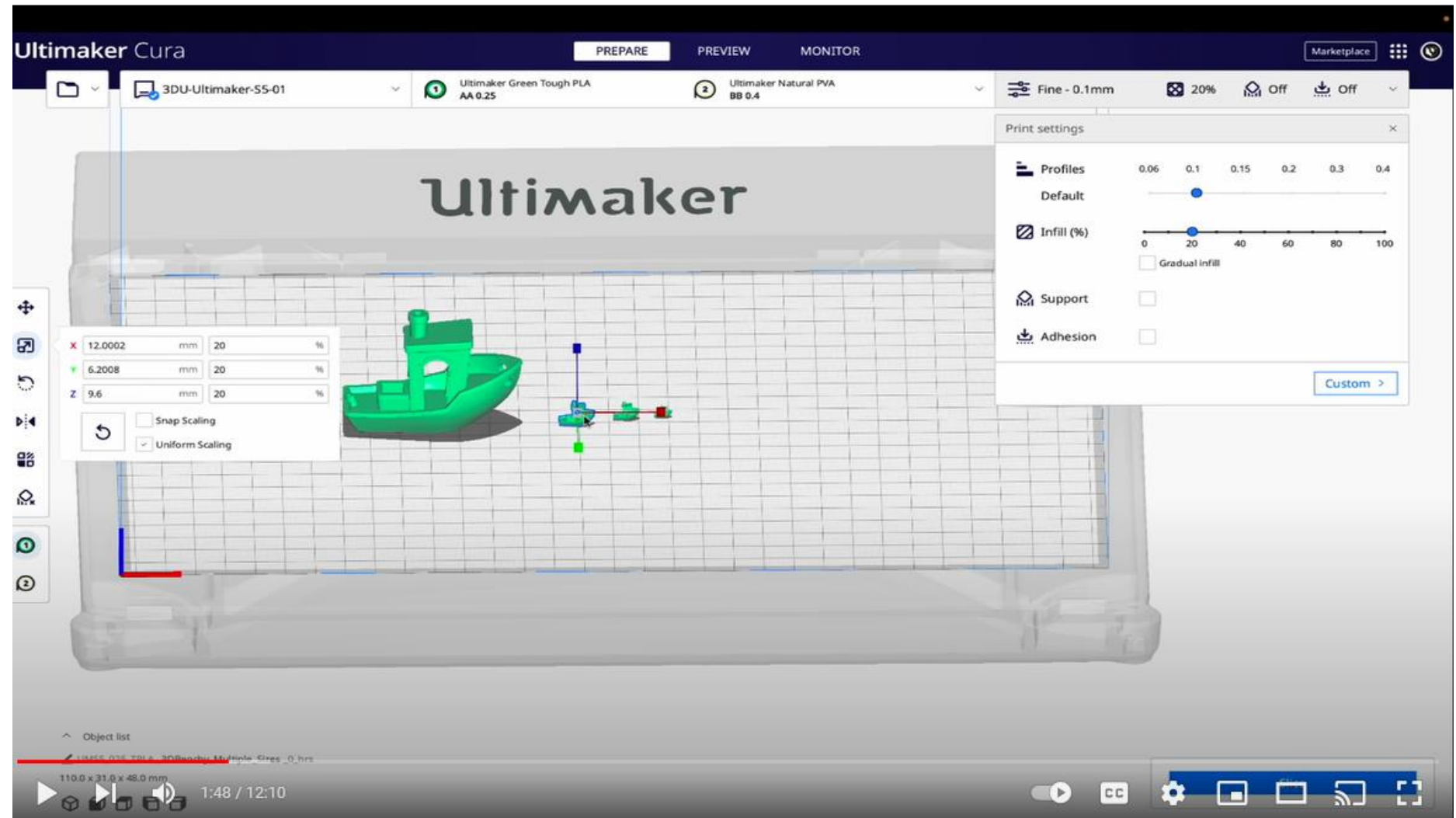
Preferences

# Ultimaker Cura



Creality Ender-3

<https://www.youtube.com/watch?v=OuJZHWO1kPE>



Ultimaker Cura

PREPARE PREVIEW MONITOR

Marketplace

3DU-Ultimaker-55-01

1 Ultimaker Green Tough PLA AA 0.25

2 Ultimaker Natural PVA BB 0.4

Fine - 0.1mm 20% Off Off

Print settings

Profiles 0.06 0.1 0.15 0.2 0.3 0.4

Default

Infill (%) 0 20 40 60 80 100

Gradual Infill

Support

Adhesion

Custom >

Ultimaker

X 12.0002 mm 20 %

Y 6.2008 mm 20 %

Z 9.6 mm 20 %

Snap Scaling

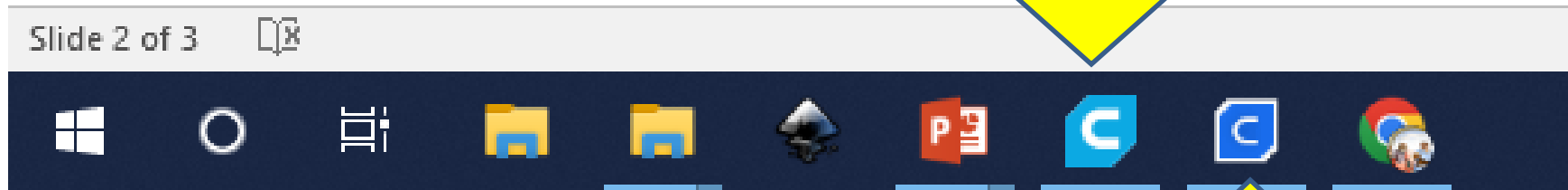
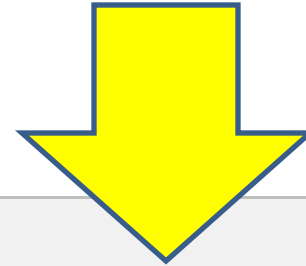
Uniform Scaling

Object list

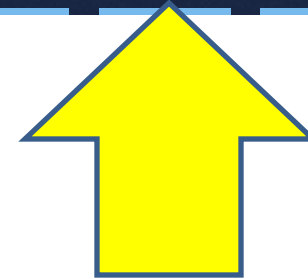
110.0 x 31.0 x 48.0 mm

1:48 / 12:10

**CURA 4**



***IN THE TASKBAR***



**CURA 5**



# Our Objective

CE3\_3DBenchy - Ultimaker Cura

File Edit View Settings Extensions Preferences Help

Ultimaker Cura

PREPARE PREVIEW MONITOR

Marketplace Sign in

Creality Ender-3

Generic PLA 0.3mm Nozzle

Super Quality - 0.12mm 20% Off On

Print settings

Profile Super Quality - 0.12mm

Search settings

Travel

Cooling

Support

Build Plate Adhesion

Build Plate Adhesion Type	Raft
Raft Extra Margin	2.0 mm
Raft Smoothing	5.0 mm
Raft Air Gap	0.3 mm
Raft Top Layers	2

Recommended

Slice

Object list

CE3\_3DBenchy

80.2 x 31.0 x 48.0 mm

2:56 PM 4/28/2022



## CBI MakerSpace Ender 3 Club

- WELCOME**
- Gallery
- Forums
- Members
- Workflows
- Meetings

FILE SHARE

### WELCOME

If you are interested in 3D printing with Ender 3 then you are in the right place!! This club share ideas and techniques and heartaches about getting good prints with the Ender 3.

If you would like to join just use the register in the menu or [click here](#) to sign up.

There is no cost to be a member and generally we have meetings on a monthly basis with various technical topics infused with a pizza party.

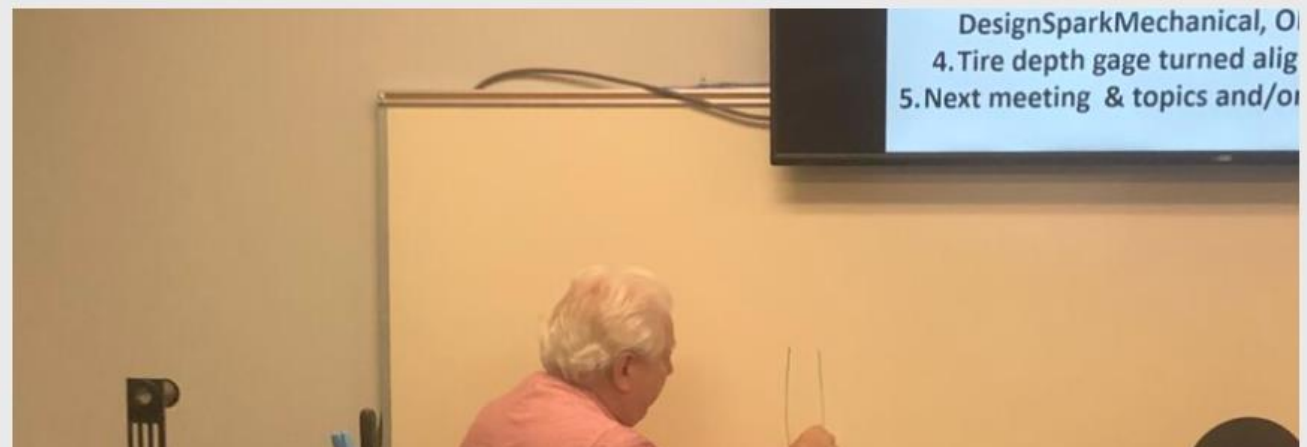
Once you register you will have access to our online knowledge-base and can interact with the members via forums and messaging.

**FILE SHARE**



TPM

Log Out



### NEXT MEETING

April, 29th, 2022  
Friday, 12 noon - 2  
Topic: Cura working

### BUILD YOUR OWN

- BYO TinkerCAD
- 3D Onshape C

### 3D Design

3D Classroom

## FILE SHARE

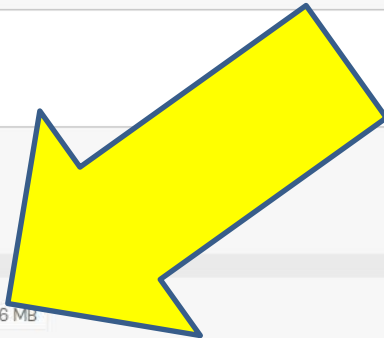
Choose File No file chosen


Maximum file size: 512 MB

Title

Description

Submit



 **3D benchy** 10.76 MB  
April 28, 2022  
Uploaded by [TPM](#)

From TinkerCAD. Just here for convenience.



TPM

Log Out

NEXT MEETING

April, 29th, 2022

Friday, 12 noon – 2 pm


Topic: Cura working with Supports

BUILD YOUR OWN RESOURCES

 [BYO TinkerCAD classroom](#)

 [3D Onshape Classroom](#)

3D Design

 [3D Classroom](#)

[Wireclip Exercise](#)



# LOAD Benchy(folder)

CE3\_3DBenchy - Ultimaker Cura

File Edit View Settings Extensions Preferences Help

Ultimaker Cura

PREPARE PREVIEW MONITOR

Marketplace Sign in

Creality Ender-3

Generic PLA 0.3mm Nozzle

Super Quality - 0.12mm 20% Off On

Print settings

Profile Super Quality - 0.12mm

Search settings

Travel

Cooling

Support

Build Plate Adhesion

Build Plate Adhesion Type	Raft
Raft Extra Margin	2.0 mm
Raft Smoothing	5.0 mm
Raft Air Gap	0.3 mm
Raft Top Layers	2

Recommended

Slice

Object list

- CE3\_3DBenchy

80.2 x 31.0 x 48.0 mm

2:56 PM 4/28/2022



# LOAD Benchy

CE3\_3DBenchy - Ultimaker Cura

File Edit View Settings Extensions Preferences Help

## Ultimaker Cura

PREPARE

PREVIEW

MONITOR



Creality Ender-3

Generic PLA  
0.4mm Nozzle

Open file(s)

This PC > Downloads >

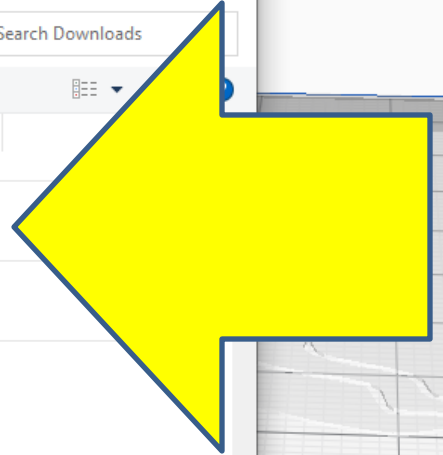
Organize New folder

Name	Date modified	Type	Size
Yesterday (1)			
3DBenchy	4/27/2022 2:52 PM	Standard Tessellati...	11,021 KB
Earlier this month (1)			
Part Studio 1 - WMQ scissor holster	4/6/2022 11:36 AM	Standard Tessellati...	408,048 KB
Last month (29)			
Snake_v1_	3/25/2022 1:35 PM	Standard Tessellati...	20,035 KB
20220325_103510	3/25/2022 10:43 AM	JPG File	3,764 KB
20220325_094254	3/25/2022 10:34 AM	JPG File	2,256 KB
TEMPTOWERshortened (3)	3/24/2022 5:04 PM	Standard Tessellati...	147 KB
TEMPTOWERshortened (2)	3/24/2022 5:00 PM	Standard Tessellati...	137 KB
TEMPTOWERshortened (1)	3/24/2022 4:44 PM	Standard Tessellati...	175 KB
190-230_PLA_Temp_calibration	3/24/2022 4:27 PM	Standard Tessellati...	470 KB
190-230Ender3Temptower	3/24/2022 4:27 PM	GCODE File	1,403 KB
TempTower_PLA_180-220_6.5-25_Retracti...	3/24/2022 4:21 PM	GCODE File	3,065 KB

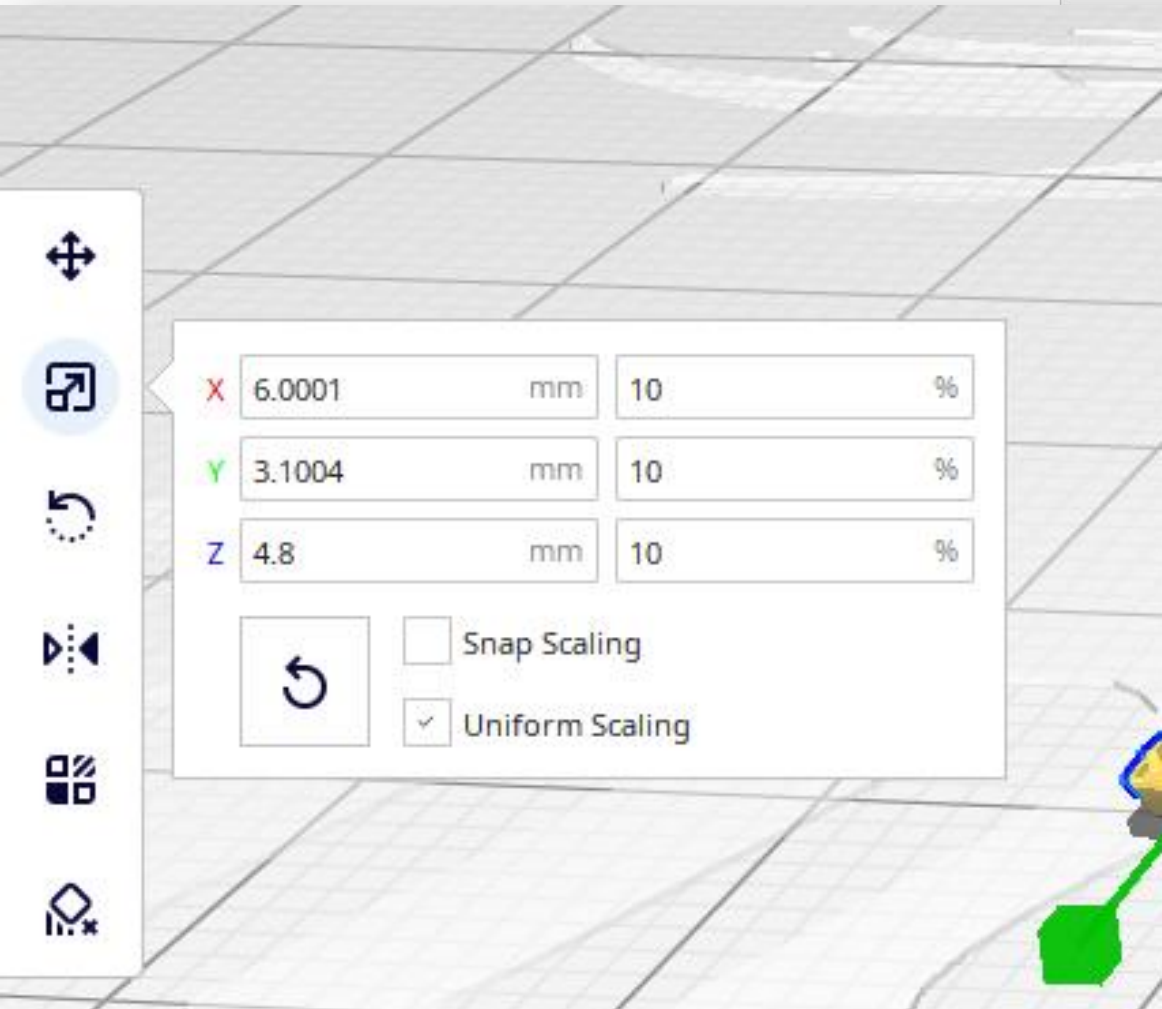
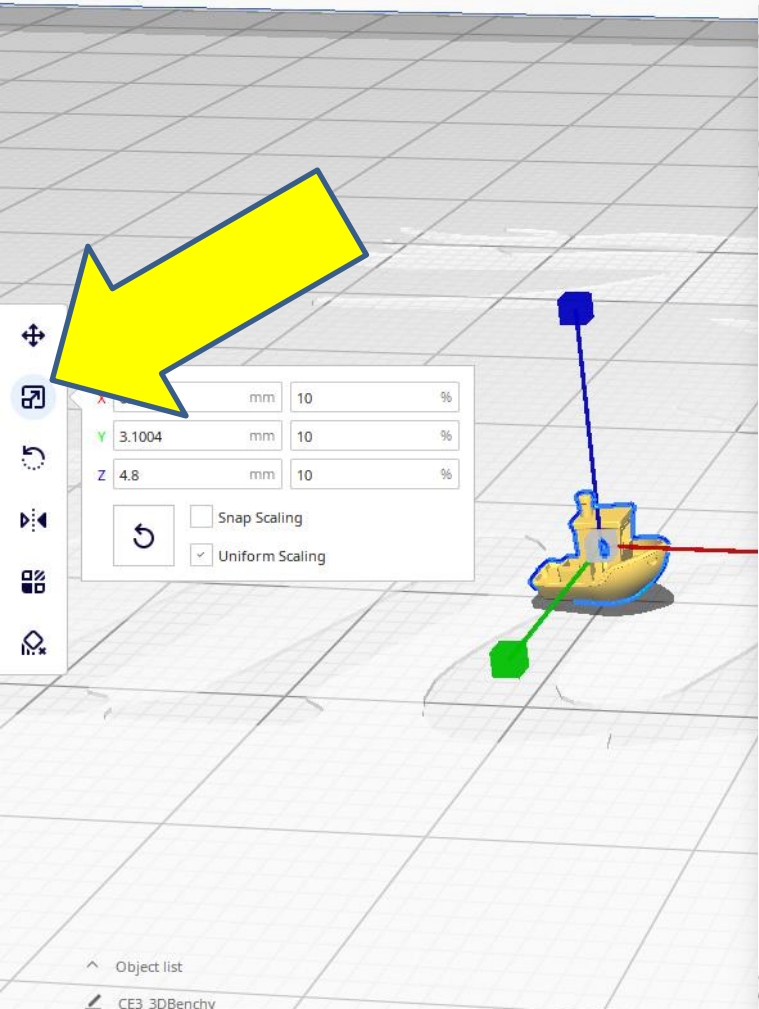
File name: 3DBenchy

All Supported Types (\*.3mf \*.an ...)

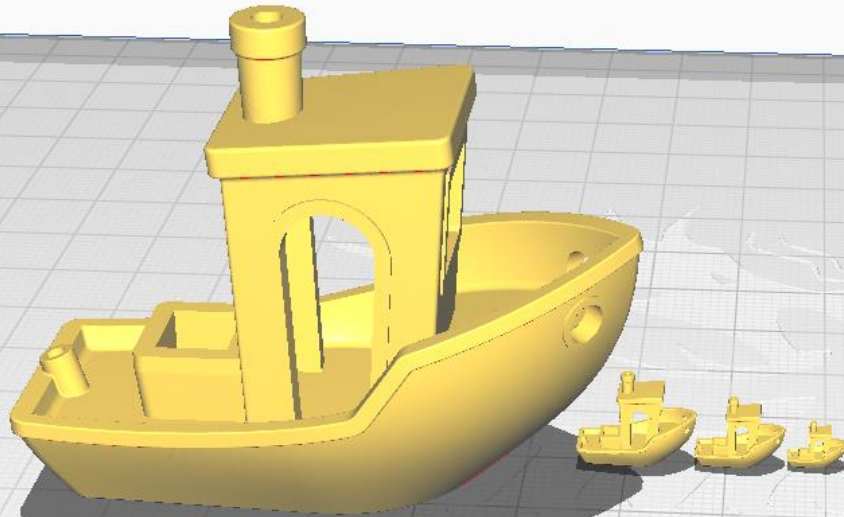
Open Cancel



X 6.0001  
Y 3.1004  
Z 4.8

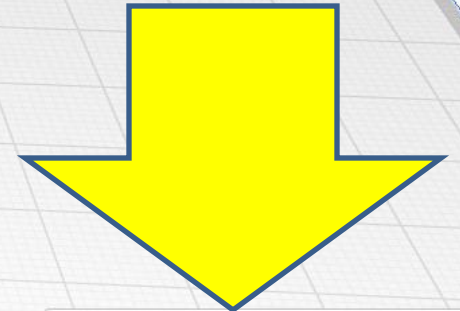


# LOAD & Repeat / Slice



Speed	<
Travel	<
Cooling	<
Support	<
Build Plate Adhesion	>
Build Plate Adhesion Type	🔗 ↺ Raft
Raft Extra Margin	🔗 ↺ 2.0 mm
Raft Smoothing	🔗 5.0 mm
Raft Air Gap	🔗 0.3 mm
Raft Top Layers	🔗 2

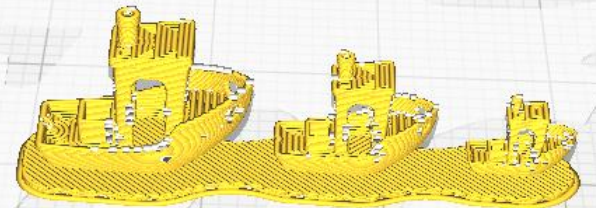
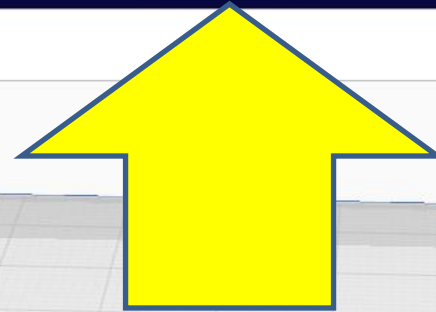
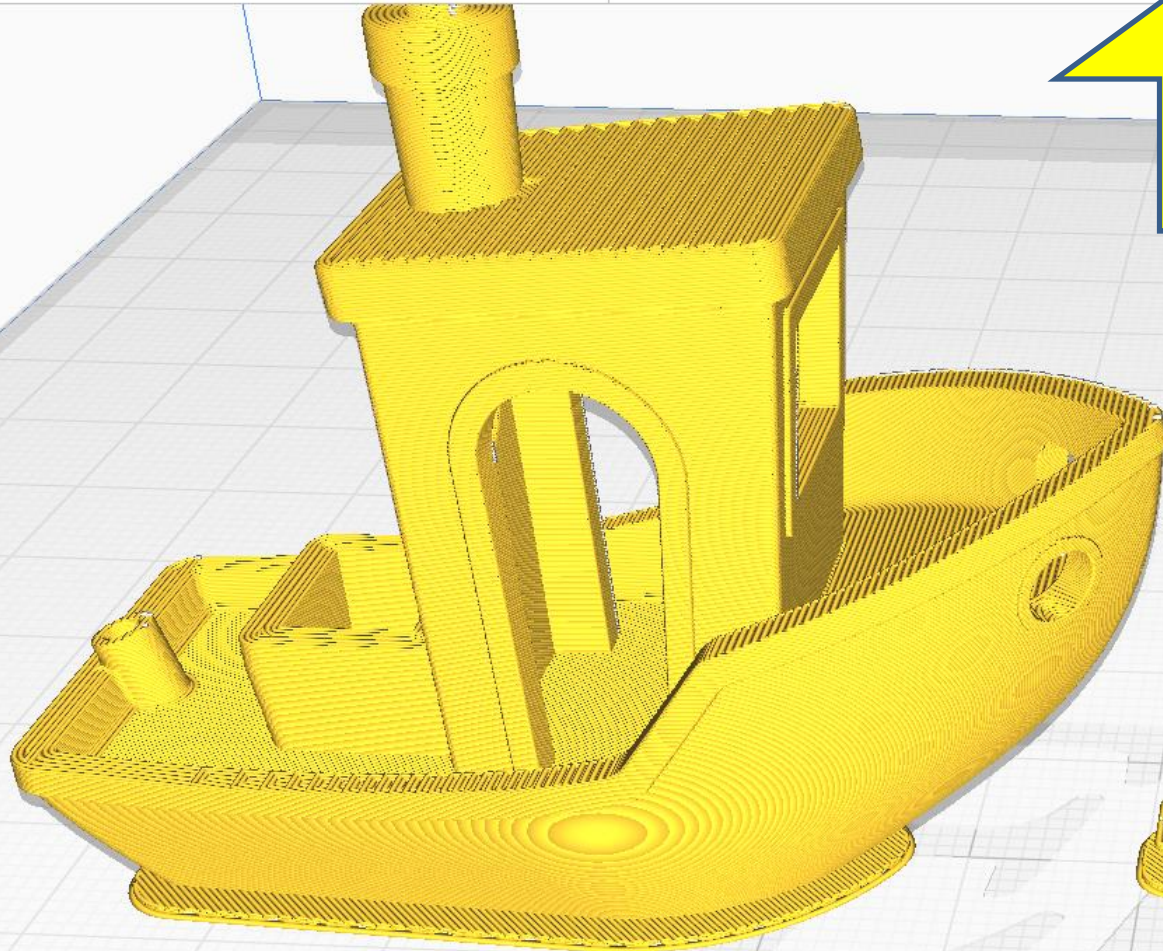
< Recommended



Slice

View type Layer view

Color scheme Material Color



PREPARE

PREVIEW

MONITOR

Marketplace

Sign in

Super Quality - 0.12mm

20%

Off

On

Print settings

Profile

Super Quality - 0.12mm

Search settings

Quality

Walls

Top/Bottom

Infill

Infill Density

20.0 %

Infill Line Distance

4.5 mm

Infill Pattern

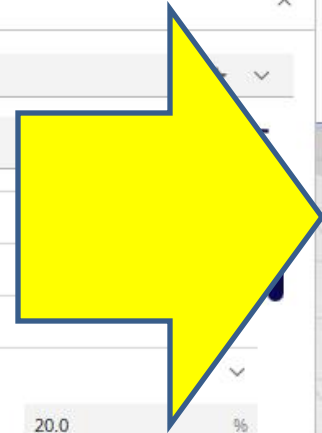
Cubic

Connect Infill Lines

Infill Line Directions

[ ]

Recommended



404

PREPARE

PREVIEW

MONITOR

Marketplace

Sign in

Material Color

Super Quality - 0.12mm

20%

Off

On

Print settings

Profile Super Quality - 0.12mm

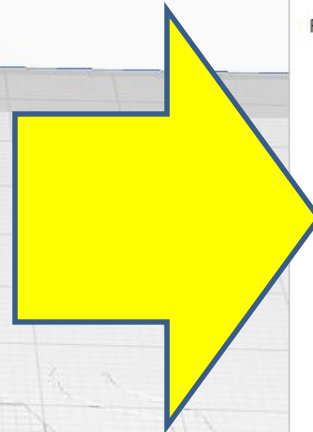
Search settings

Support

Build Plate Adhesion

Build Plate Adhesion Type	↻	Raft
Raft Extra Margin	↻	2.0 mm
Raft Smoothing	↻	5.0 mm
Raft Air Gap	↻	0.3 mm
Raft Top Layers	↻	2
Raft Top Layer Thickness	↻	0.12 mm
Raft Top Line Width	↻	0.3 mm
Raft Top Spacing	↻	0.3 mm

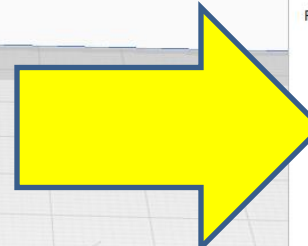
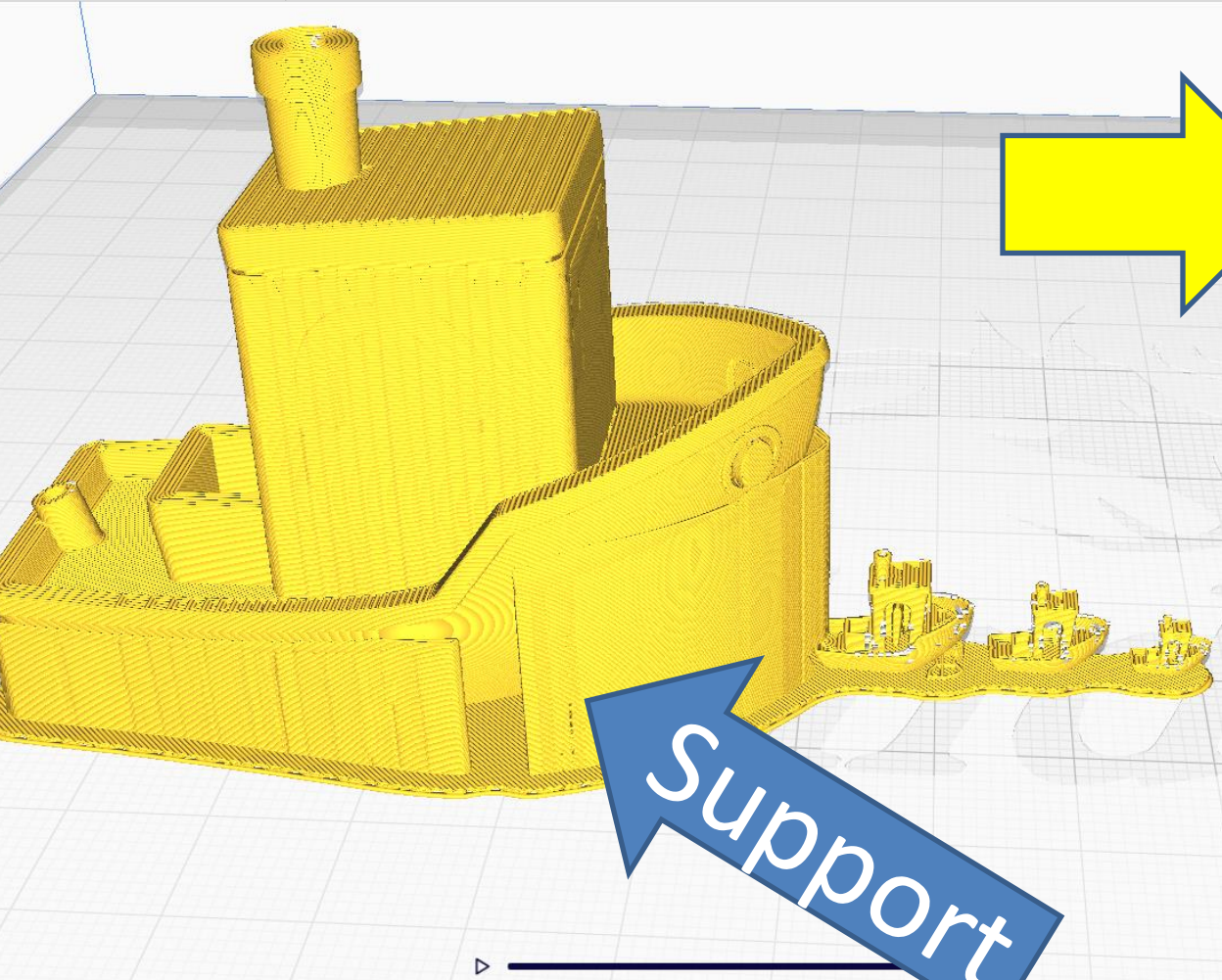
Recommended



RAFT

Color scheme Material Color

Super Quality - 0.12mm 20% On On



Print settings

Profile Super Quality - 0.12mm

Search settings

**Support**

- Generate Support
- Support Structure Normal
- Support Placement Everywhere
- Support Overhang Angle 51.0
- Support Pattern Zig Zag
- Support Wall Line Count 1
- Connect Support ZigZags
- Support Density 20.0 %
- Support Line Distance 1.5 mm
- Initial Layer Support Line Distance 1.5 mm
- Support Z Distance 0.24 mm
- Support Top Distance 0.24 mm
- Support Bottom Distance 0.24 mm
- Support XY Distance 0.6 mm
- Support Distance Priority X/Y overrides Z
- Support Stair Step Height 0.3 mm

< Recommended

6 hours 48 minutes

18g - 6.17m

Save to Disk

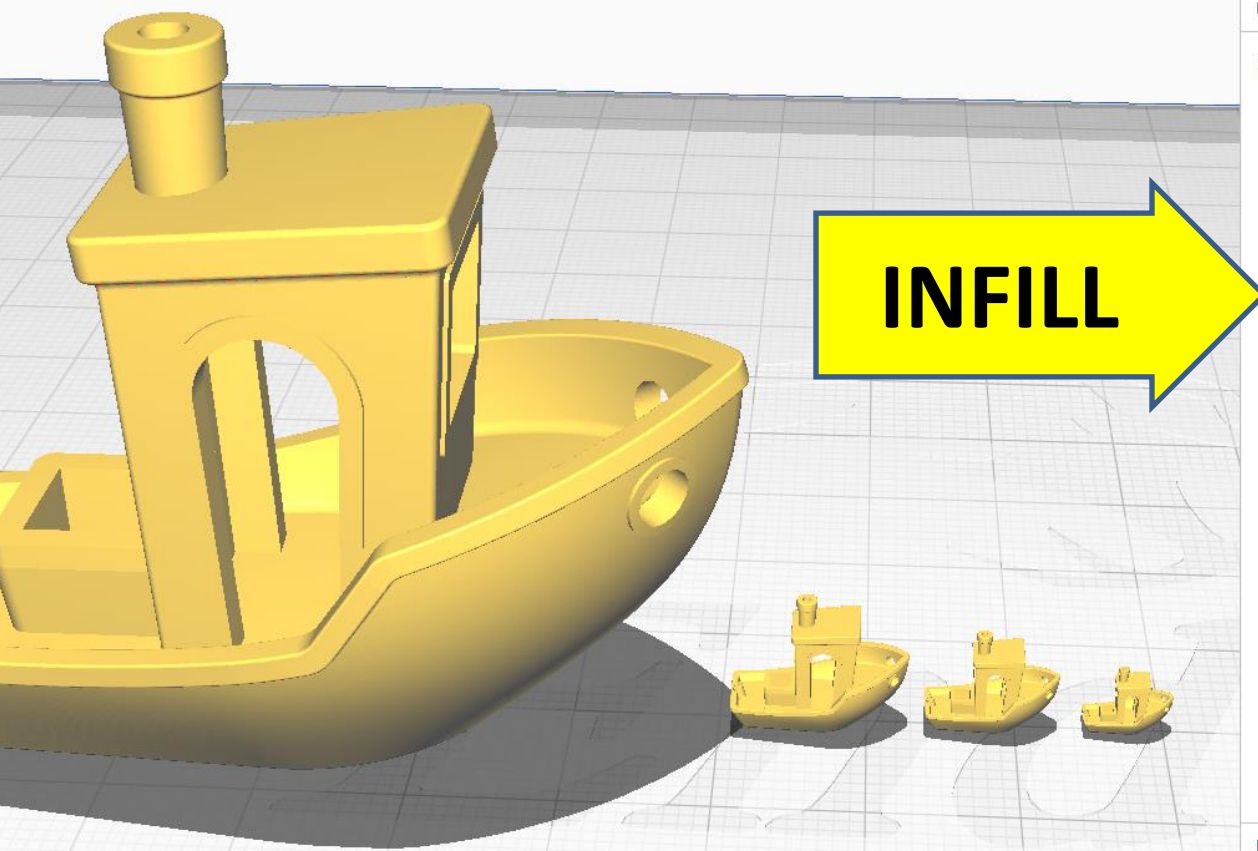


The screenshot displays the Ultimaker Cura software interface. At the top, the title bar shows the file name "CE3\_3DBenchyLineup - Ultimaker Cura" and standard window controls. Below the title bar, the main menu includes "File", "Edit", "View", "Settings", "Extensions", "Preferences", and "Help". The interface is divided into several sections:

- Top Bar:** Contains tabs for "PREPARE", "PREVIEW", and "MONITOR". On the right, there are buttons for "Marketplace" and "Sign in".
- File Browser:** Shows the current project path "Creality Ender-3" and the selected material and nozzle "Generic PLA 0.3mm Nozzle".
- Print Settings:** A panel on the right side of the interface, titled "Print settings", is open. It lists various parameters for generating support structures, such as "Support Structure" (Normal), "Support Placement" (Everywhere), "Support Overhang Angle" (51.0), "Support Pattern" (Zig Zag), "Support Wall Line Count" (1), "Support Density" (20.0%), and "Support Line Distance" (1.5 mm).
- 3D Viewport:** The central area shows a 3D model of a yellow boat (Benchy) on a grid. Three yellow arrows point to the model, labeled "MACHINE", "MAT/NOZZLE", and "QUALITY".
- Bottom Panel:** Displays the estimated print time "6 hours 48 minutes" and material usage "18g - 6.17m". It includes buttons for "Preview" and "Save to Disk".

Generic PLA  
0.3mm Nozzle

Super Quality - 0.12mm 20% On On



**INFILL**

### Print settings

Profile: Super Quality - 0.12mm

Search settings

- Quality
- Walls
- Top/Bottom
- Infill

Infill Density	20.0	%
Infill Line Distance	4.5	mm
Infill Pattern	Cubic	
Connect Infill Lines	<input type="checkbox"/>	
Infill Line Directions	[ ]	
Infill X Offset	0.0	mm
Infill Y Offset	0.0	mm
Randomize Infill Start	<input type="checkbox"/>	
Infill Line Multiplier	1	
Infill Overlap Percentage	30.0	%
Infill Overlap	0.09	mm
Infill Wipe Distance	0.0	mm
Infill Layer Thickness	0.12	mm

< Recommended

6 hours 48 minutes

18g · 6.17m

Preview Save to Disk

