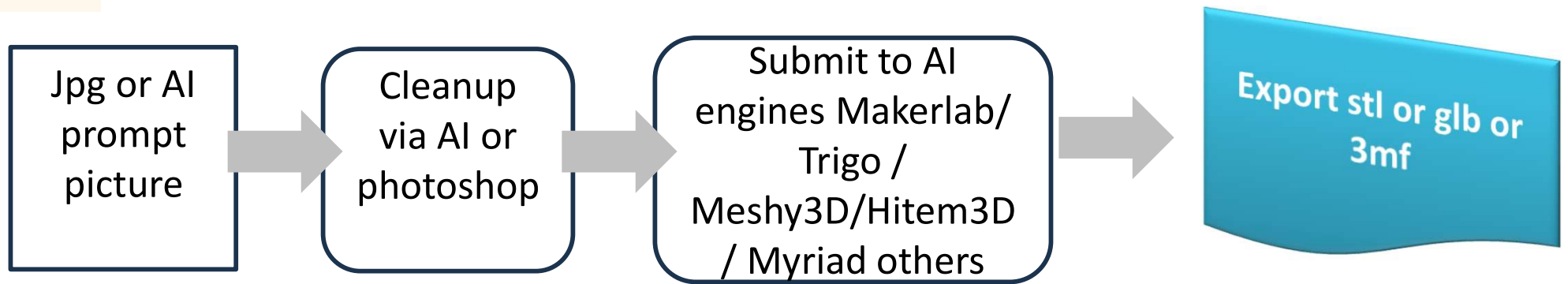




2D to 3D with AI

March 2026

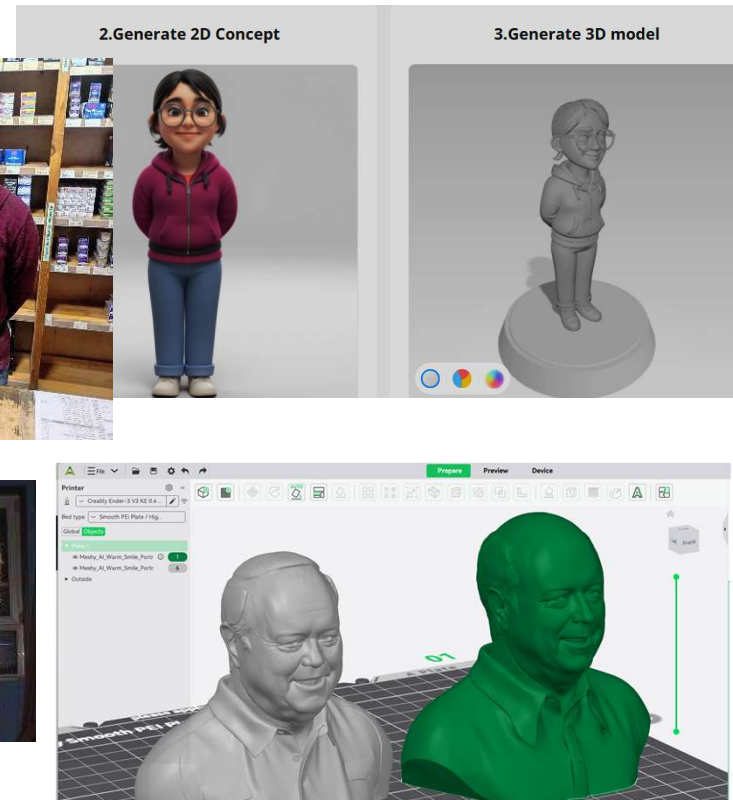
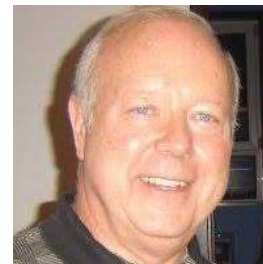


TEST CASES

1. Pat Fixit

2. Ruth's Cat

3. Claudia & Brad





PROMPTS



create a detailed scene featuring a miniature human figure (reference uploaded image) working on a 3D printer. The scene should capture a realistic maintenance scenario where the tiny figure appears to have been troubleshooting or repairing the printer over an extended period. The setting is the print bed of a Creality Ender KE 3D printer, with the miniature human positioned as if they are in the middle of technical work on the print head assembly. Facial preservation is the highest priority Task Generate an image of a miniature human standing on the bed of a Creality Ender KE 3D printer, actively working on the print head. The assistant should ensure the following elements are present: The miniature human must wear a tool belt and hard hat, appearing as a maintenance worker or technician The print head cover should be partially removed, showing the figure in the middle of repair work The figure should show visible signs of extended work - disheveled appearance, tired posture, or environmental details suggesting several days of effort The facial features from the reference image must be preserved with the highest fidelity and accuracy The Creality Ender KE printer should be accurately represented with its distinctive design features Objective Create a photorealistic and whimsical image that captures both technical accuracy of the 3D printer and the character-driven narrative of a tiny worker dedicating significant time to fixing the machine. The image should feel both humorous and relatable to anyone familiar with 3D printer maintenance, while maintaining perfect facial preservation from the reference image. Knowledge The Creality Ender KE is a CoreXY 3D printer with a distinctive design and direct drive extruder. The print head assembly includes cooling fans, the hotend, and protective covers that can be removed for maintenance. The print bed is typically a smooth, flat surface where prints are created. Signs of extended work periods might include: scattered tiny tools on the print bed, small coffee cups or energy drink cans scaled to the miniature figure's size, makeshift lighting setup, parts laid out systematically, or the figure showing fatigue in body language.



PROMPTS



A man (see uploaded image for reference) sits inside the open cockpit of a large, weathered sci-fi mechanical robot. The cockpit is filled with detailed mechanical panels, wires, switches, and industrial controls. The man wears light gray overalls, a beige sleeveless hoodie, and tan work boots. He looks relaxed, casually eating a bowl of ramen noodles with chopsticks. His expression is calm and focused on his food. Facial preservation is the highest priority. Beside him sits a small, pomeranian dog (see uploaded image for reference) wearing a tiny pilot helmet with goggles. The dog is cheerfully reading a comic book, sitting comfortably on the mech seat. The scene blends playful fantasy with gritty realism. The mech exterior is metallic, scratched, and rugged, with visible pneumatics and heavy machinery parts. The background shows a misty outdoor environment with soft, natural lighting and distant green hills. The overall style is cinematic, hyper-realistic, with detailed textures, depth of field, and natural atmosphere.





PROMPTS



create an image of a beautiful woman (see uploaded reference image) with natural glowing skin and expressive eyes. She is sitting in a relaxed yet elegant pose, slightly turned sideways while gently looking off-camera with a calm, confident expression. Her posture is natural and graceful, conveying warmth and quiet confidence. She is wearing a stylish modern black bomber jacket, slightly slipping off one shoulder, revealing a soft neckline. The jacket is highly detailed with realistic folds, reflections, and stitching. She is sitting inside a luxurious vintage library lounge, surrounded by tall wooden bookshelves, antique lamps, leather furniture, and decorative objects. Warm golden lighting from elegant wall lamps and chandeliers fills the room, creating rich highlights and shadows across the scene. The room has intricate wooden textures, classic carpets, and artistic details that add depth and realism. The background must be sharp and fully visible (NOT blurred), showing detailed books, lamps, furniture, and architectural elements to create a rich cinematic environment. Lighting is soft, warm, and cinematic, illuminating the woman's face while also revealing the surrounding environment clearly. Light reflections softly highlight her hair and jacket texture. Facial preservation is the highest priority.



2D to 3D workflow overview

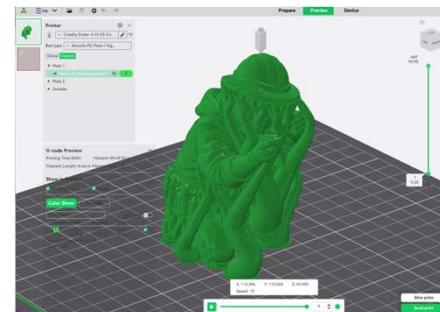
1. chatGPT for image creation



2. chatGPT for
clean background



3. Meshy for 2D to 3D conversion



4. Creality Print for slicing/ print on KE





2D to 3D workflow Step 2

ChatGPT ▾

✦ Get Plus ✕



isolate the worker in this photo. Transform it into an aimage of a 3d printed object. The object should look like it was resin printed with a white background.

Image created • 3D-printed worker figurine in focus





2D to 3D workflow Step 3

Workspace
Community
My Assets
API
Learn
Resources

New Model

Image

Click / Drag & Drop / Paste Image

Supported Formats: .png, .jpg, .jpeg, .webp
Max size: 20MB

Name

Give your generation a name

Model Type

Standard Low Poly (Beta)

AI Model

Meshy 6

Image Enhancement

Multi-view (Beta)

Pose

A-Pose T-Pose Custom

License

CC BY 4.0 Private

1 min 20

Generate

Topology Triangle

Faces 828,260

Vertices 414,106

Printability

Texture

Print

+250

Search my generation

Kneeling Soldier Figure

Blue-Collared Tabby

Blue-Collared Tabby

Crinkled Gray Paper Bag filled w...



2D to 3D workflow Step 4

Printer

Creality Ender-3 V3 KE 0.4 ...

Bed type: Smooth PEI Plate / Hig...

Global **Objects**

- Plate 1
 - Meshy_AI_Kneeling Soldier F... 1
- Plate 2
- Outside

G-code Preview

Printing Time: 3h5m Filament Wt: 49.02 g

Filament Length: 16.44 m Filament Cost: 1.47

Show in Preview

☒ Print Platform ☒ Nozzle

Color Show **G-code**

Filament

Filament Model	Support	Total
1	12.26 m 36.56 g	4.18 m 12.46 g
		16.44 m 49.02 g

Filament change times: 0
Cost: 1.47

Process Global **Objects**

Walls

Wall loops: 2

Top/bottom shells

Top surface pattern: Monotonic

Top shell layers: 4 layers

Top shell thickness: 0.8 mm

Bottom surface pattern: Monotonic

Bottom shell layers: 4 layers

Bottom shell thickness: 0 mm

Infill

Sparse infill density: 15 %

Sparse infill pattern: Rectilinear

Internal solid infill pattern: Monotonic

Anchor solid infill by X mm: 0 mm or %

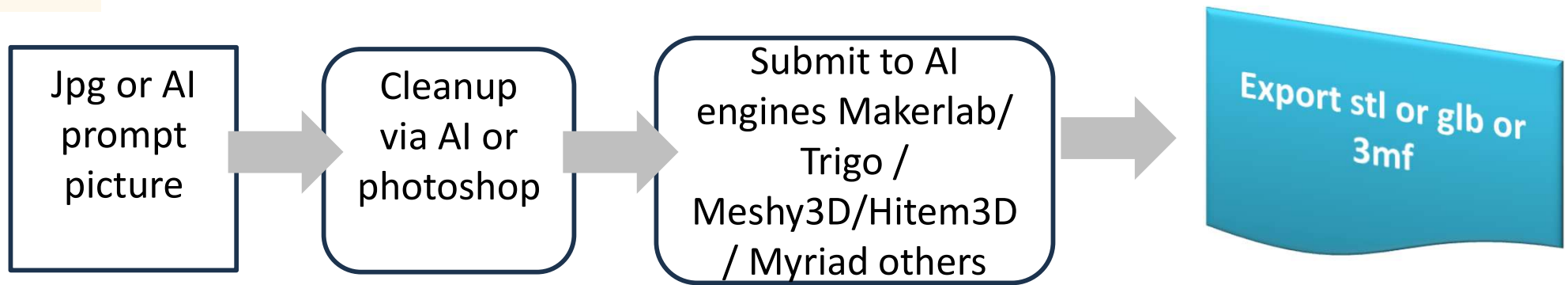
X: 113.394 Y: 110.060 Z: 93.900
Speed: 10

Buttons: Slice plate, Send print



2D to 3D with AI

March 2026

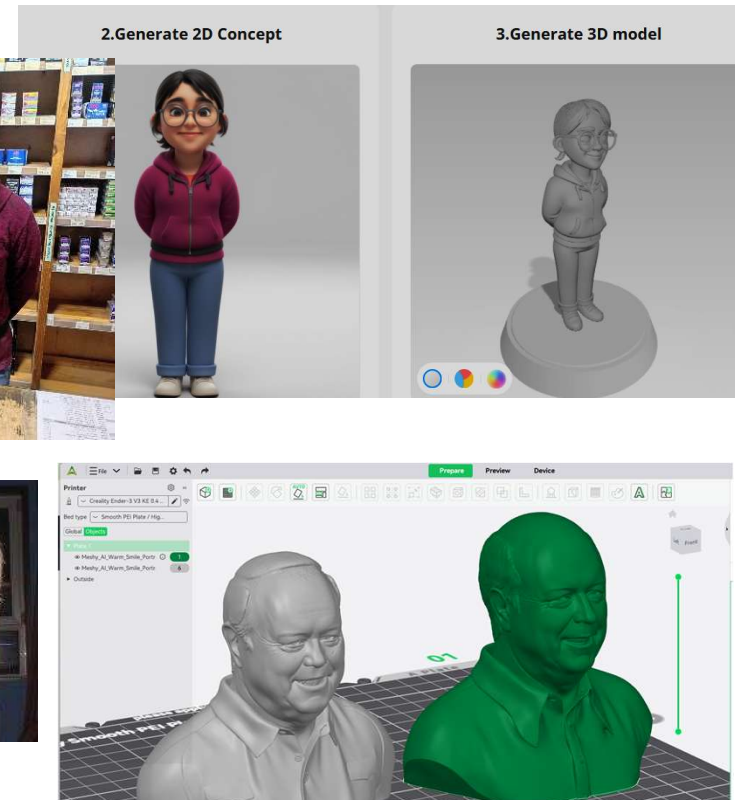
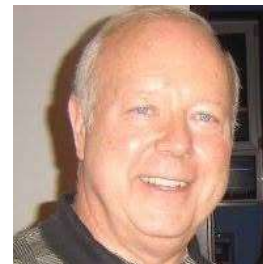


TEST CASES

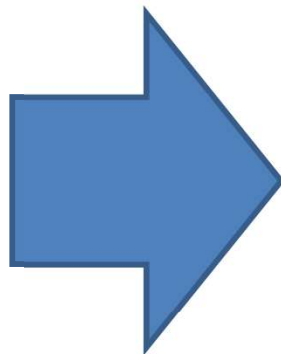
1. Pat Fixit

2. Ruth's Cat

3. Claudia & Brad



2D to 3D workflow Ruth's Cat





2D to 3D workflow Step 1

ChatGPT ▾

Get Plus ×



remove the background of this image so only the cat is showing



Image created • Alert domestic shorthair cat portrait





2D to 3D workflow Step 1B

ChatGPT ▾



[Get Plus](#) ×

convert to a image of a 3d model resin printed

Image created • Realistic cat figurine on rocky base





2D to 3D workflow Step 1C

ChatGPT ▾



Get Plus ×

with a white background

Image created





2D to 3D workflow Step 1D

ChatGPT ▾

[Get Plus](#) ×

simple pedestal

Image created • Realistic 3D-printed cat figurine





2D to 3D workflow Step 1sideways

ChatGPT ▾

✦ Get Plus ✕

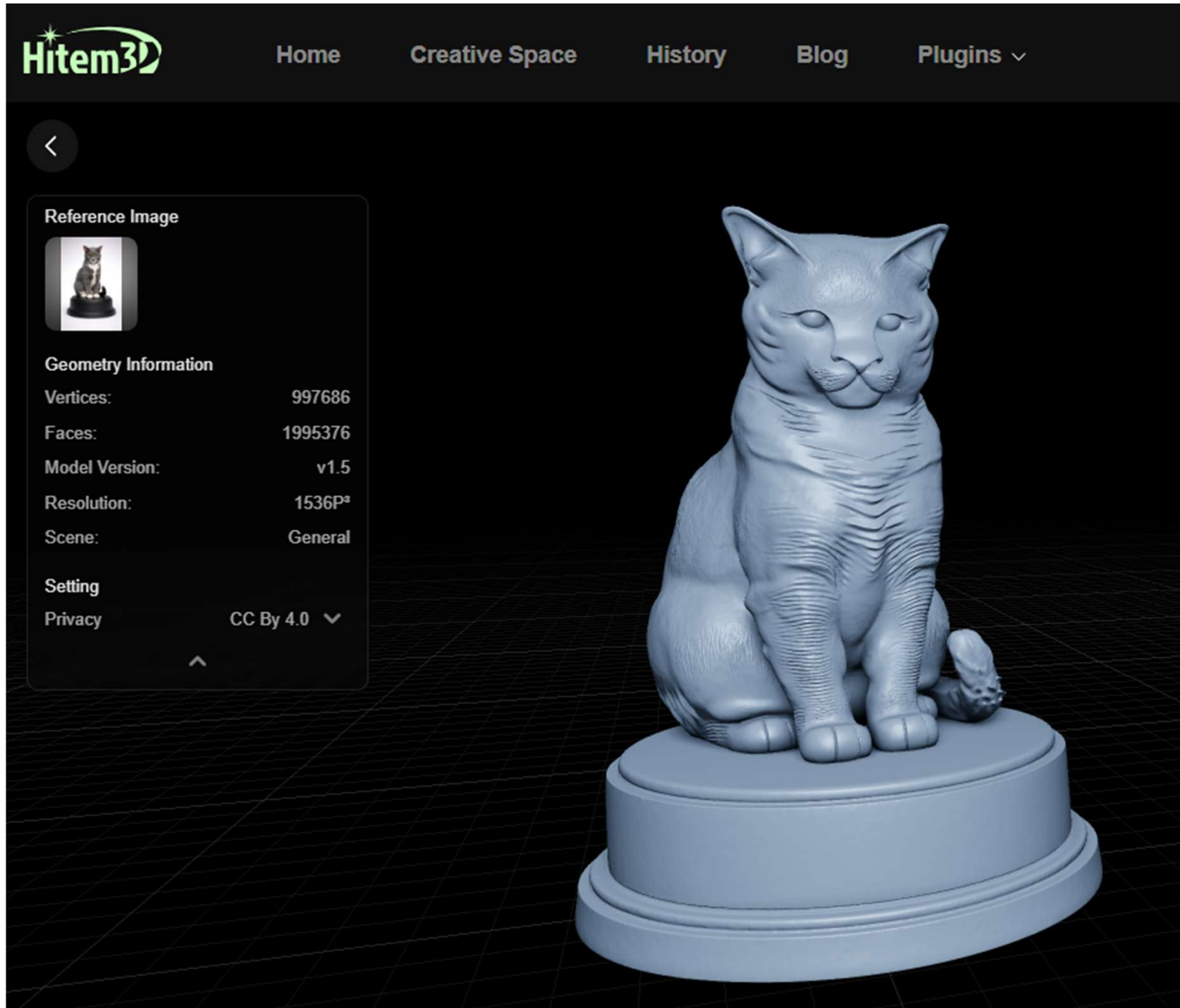
transform to an image of the subject as a 3D printed object made with a resin printer

Image created • 3D-printed cat figurine with mechanical base





2D to 3D workflow Step 3 HiTem3D





2D to 3D workflow Step 3 Meshy

WorkspaceCommunityMy AssetsAPILearnResources

Image

Model

Remesh

Texture

Animate

Texture

Text InputImage Input





AI Model Meshy 6

Remove Lighting

Generate PBR Maps

1 min

10

 Texture

Topology

Faces

Vertices

Printability

Triangle

908,418

454,237







+250

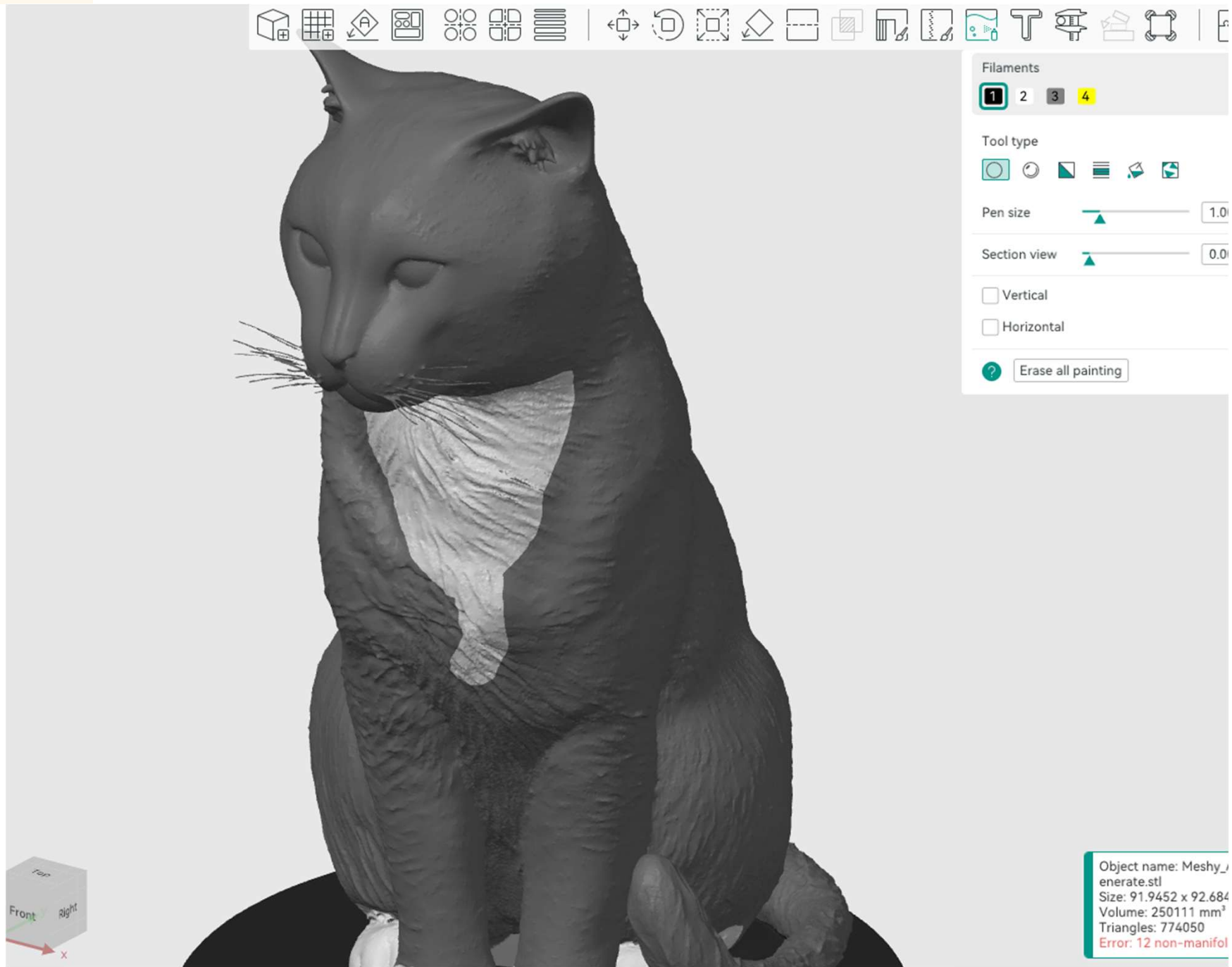


 Vote

 Reuse prompt

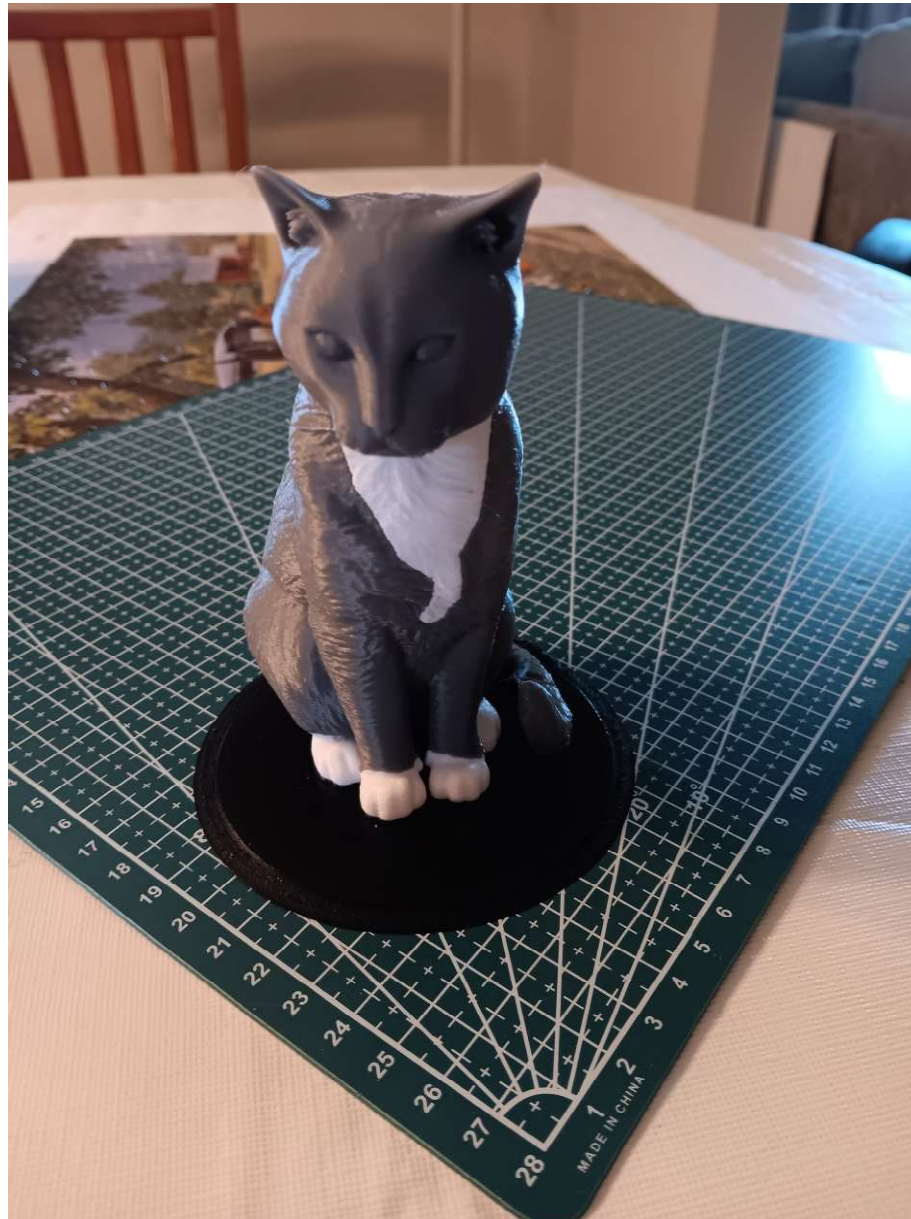


2D to 3D workflow Step 4 paint in Orca-FF





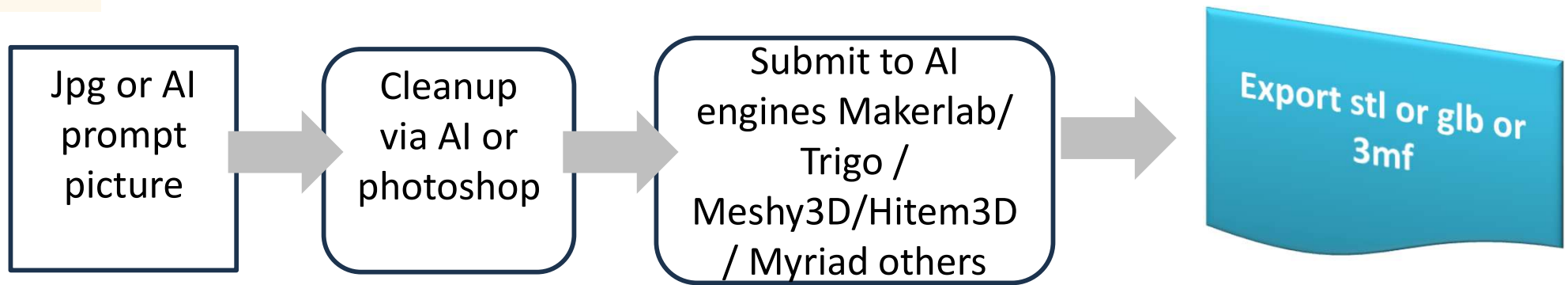
2D to 3D workflow Step 4 result





2D to 3D with AI

March 2026

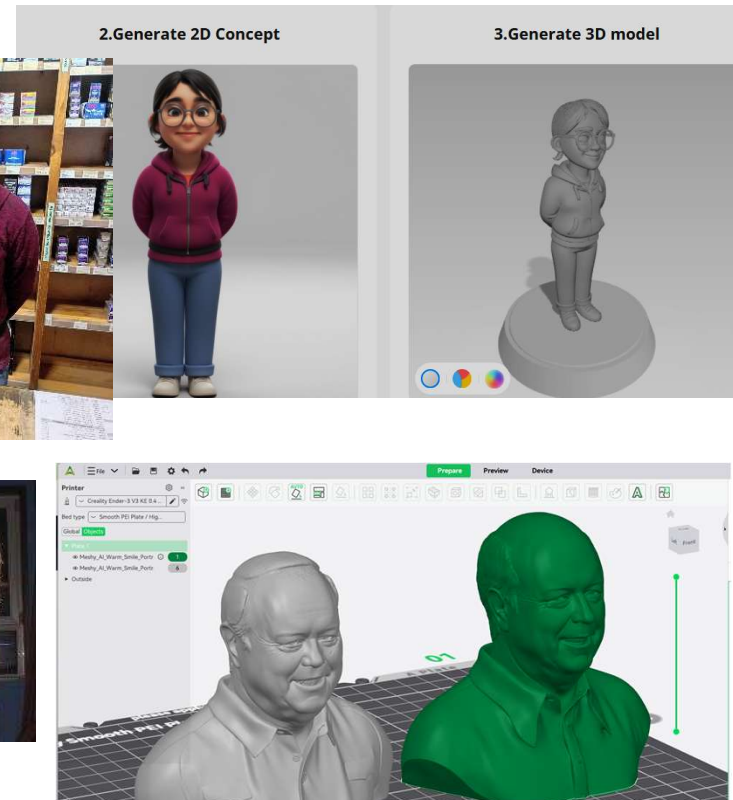
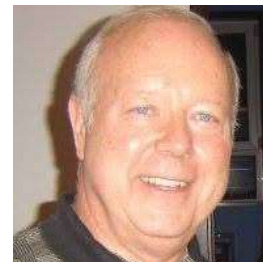


TEST CASES

1. Pat Fixit

2. Ruth's Cat

3. Claudia & Brad





2D to 3D workflow Step 1

CLAUDIA

MAKERLAB



2.Generate 2D Concept



Concept generation history (1/10)



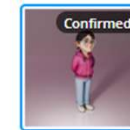
Generate 2D image

Generate 3D model

3.Generate 3D model



Model generation history (1/5)



Export

Edit your figurine



2D to 3D workflow Step 4

CLAUDIA

Home Prepare Preview Device Project

Printer

Flashforge AD5X 0.4 nozzle

Bed type Smooth High Temp Plate

Filament

Flushing volumes

1 Flashforge HS PL... 2 Flashforge HS PLA ...

3 Flashforge HS PL... 4 Flashforge HS PLA ...

5 FF HS PETG @FF ...

Process Global Objects Advanced

* 0.16mm Standard @FF AD5X

Quality Strength Speed Support Multimaterial Oth...

Support

Enable support

Type Tree(auto)

Style Default (Grid...)

Threshold angle 30

Threshold overlap 50% mm or %

First layer density 90 %

First layer expansion 2 mm

On build plate only

Remove small overhangs

Raft

Raft layers 0 layers

Filament for Supports

Support/raft base Default

Support/raft interface Default

Advanced

Top Z distance 0.16 mm

1

794307 G1 X111.459 Y113.354 E.00628

794308 G1 X111.321 Y113.66 E.00912

794309 G2 X111.256 Y113.788 I.101 J.132 E.00401

794310 G2 X110.437 Y113.813 I-.339 J2.338 E.02232

794311 G3 X109.664 Y113.711 I.163 J-4.252 E.02116

794312 G1 X109.338 Y113.697 E.00883

794313 G1 X109.202 Y113.406 E.00869

794314 G3 X108.798 Y113.187 I5.912 J-11.382 E.01247

794315 G3 X108.637 Y112.998 I.005 J-.167 E.00758

794316 G1 X108.566 Y112.885 E.0036

794317 G1 X108.685 Y112.746 E.00495

794318 G1 X108.303 Y112.279 E.01637

794319 G1 X108.37 Y111.895 E.01055

794320 G1 X108.164 Y111.666 E.00835

794321 G1 X108.213 Y111.56 E.00318

794322 G1 X108.213 Y111.283 E.0075

Color scheme Line Type

Line Type	Time	Percent	Used filament	Display
Inner wall	14m53s	9.4%	1.72 m 5.14 g	
Outer wall	20m0s	12.6%	1.73 m 5.17 g	
Overhang wall	14s	0.2%	0.01 m 0.02 g	
Sparse infill	22m5s	13.9%	4.25 m 12.66 g	
Internal solid infill	13m6s	8.3%	2.72 m 8.12 g	
Top surface	1m47s	1.1%	0.25 m 0.76 g	
Bottom surface	2m38s	1.7%	0.38 m 1.14 g	
Bridge	19s	0.2%	0.01 m 0.03 g	
Internal Bridge	3m39s	2.3%	0.51 m 1.51 g	
Gap infill	1m32s	1.0%	0.04 m 0.10 g	
Support	53m42s	33.8%	4.25 m 12.66 g	
Support interface	16s	0.2%	0.01 m 0.03 g	
Travel	24m29s	15.4%		
Retract				
Unretract				
Wipe				
Seams				

Total estimation

Total Filament: 15.88 m 47.35 g

Model Filament: 11.62 m 34.66 g

Cost: 0.95

Model printing time: 2h39m

Total time: 2h39m



2D to 3D workflow Step 4

File

Prepare

Preview

Device

Printer

Creality Ender-3 V3 KE 0.4 ...

Bed type: Smooth PEI Plate / Hig...

Global Objects

CLAUDIA

Processing model 'bust_final_refined.stl' with more than 1M triangles could be slow. It is highly recommended to simplify the model. [Simplify model](#)

Object name: figurine.stl

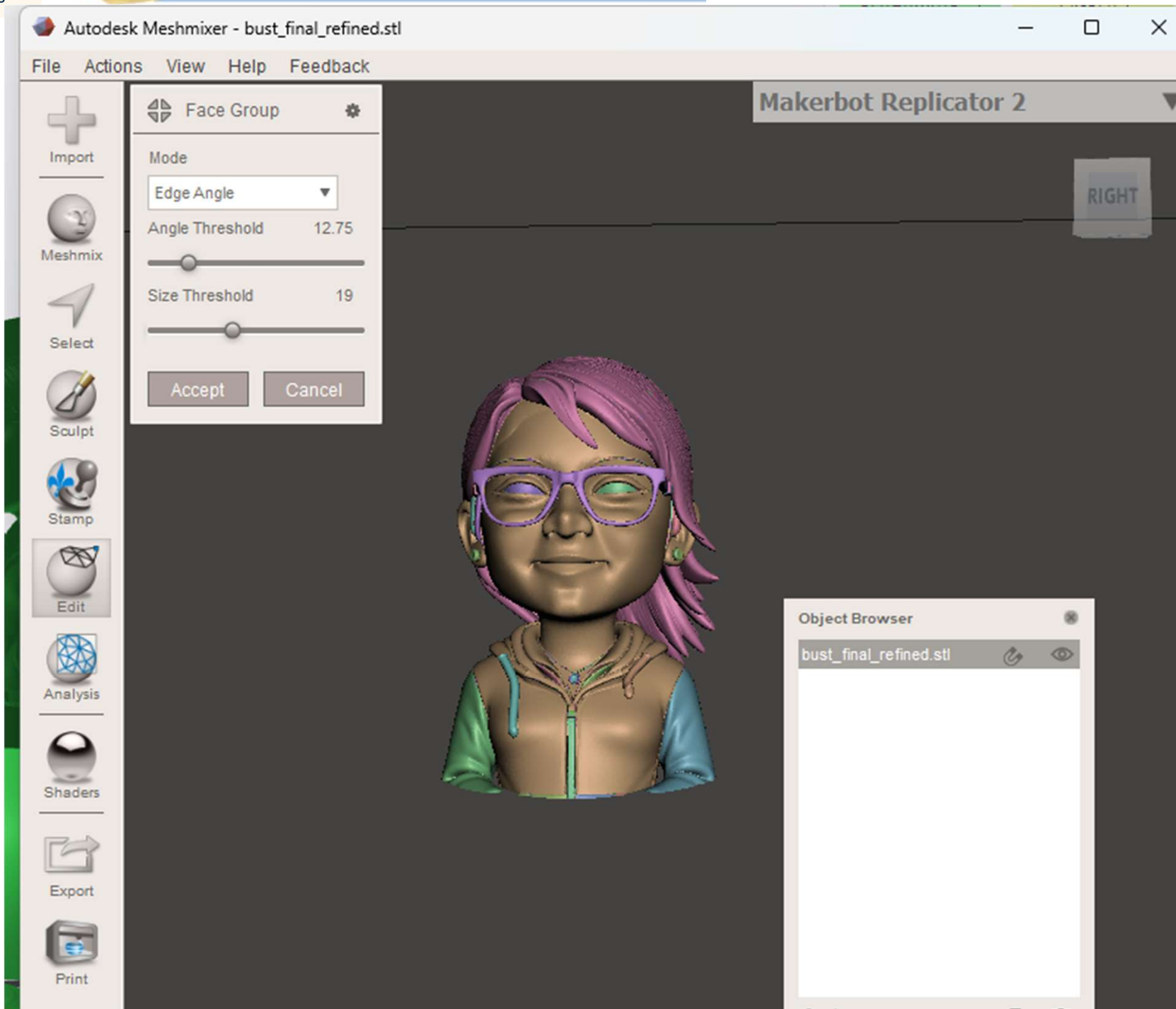
Size: 80.00 x 80.00 x 110.00 mm

Volume: 98016.6 mm³

Slice plate



2D to 3D workflow Mesh Tweak





2D to 3D workflow





2D to 3D workflow Step 3

Workspace
Community
My Assets
API
Learn
Resources

New Model

Image

Name

Warm Smile Portrait

Model Type

Standard Low Poly (Beta)

AI Model

Meshy 6

Image Enhancement

Multi-view (Beta)

Pose

A-Pose T-Pose Custom

License

CC BY 4.0 Private

1 min 20

Generate

Topology

Triangle

Faces

557,080

Vertices

278,532

Printability

Texture

Print

+250

Vote Model

Reuse prompt

Search

Warm Smile

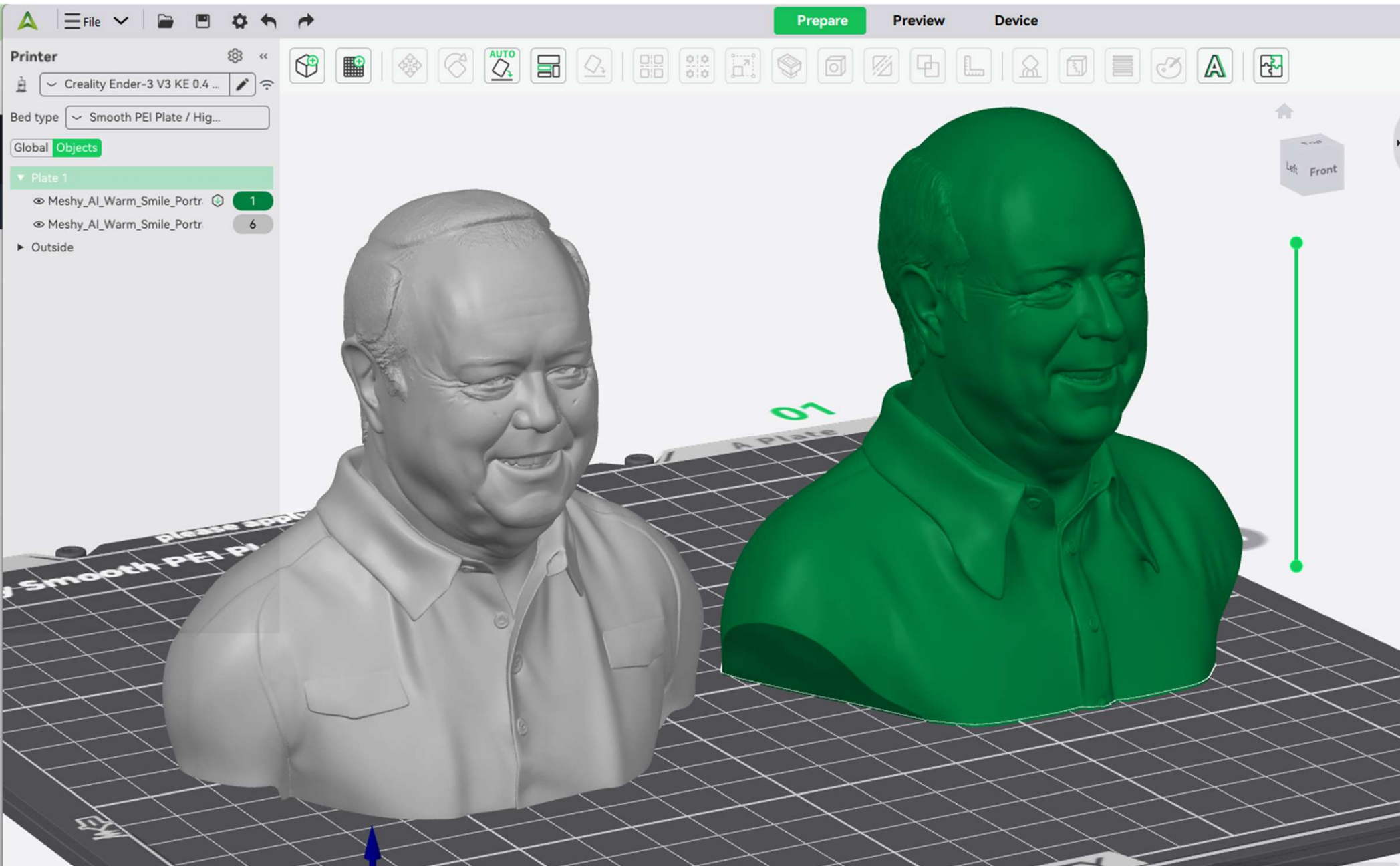
JooSPY

Grey Sentine

Grey Sentine



2D to 3D workflow Step 4





2D to 3D workflow Step 4

Printer
Creality Ender-3 V3 KE 0.4...
Bed type: Smooth PEI Plate / Hig...

Global **Objects**

Variable layer height
Quality / Speed: 0.50 **Apply**
Smooth: 8 **Apply**
☐ Keep the minimum floor height constant ☐ Enable Overhang Optimization
Reset

Object name: Meshy_Ai_Warm_Smile_1
Size: 99.16 x 54.87 x 105.08 mm
Volume: 211165 mm³
Triangles: 467966

Slice plate **Send print**



2D to 3D workflow Step 4

Printer
Crealty Ender-3 V3 KE 0.4 ...
Bed type: Smooth PEI Plate / Hig...

Global **Objects**

G-code Preview
Printing Time: 3h47m Filament Wt: 116.31 g
Filament Length: 39.00 m Filament Cost: 3.49

Show in Preview
☒ Print Platform ☒ Nozzle

Color Show **G-code**

Filament ☐ ☐

Filament	Model
1	39.00 m 3.49 g ☒

Filament change times: 0
Cost: 3.49

Prepare **Preview** **Device**

Top
1088
100.00
1
0.20

X: 89.131 Y: 116.499 Z: 100.000
Speed: 11

Warning:
It seems object Meshy_AI_Warm_Smile_Portrait_030501553_6_generate.stl has floating regions. Please re-orient ... [More](#)

Slice plate
Send print



2D to 3D workflow CHALLENGE





2D to 3D workflow DEMO

