



2D to 3D with AI – Part deux

April 2026

Jpg or AI
prompt
picture

Cleanup
via AI or
photoshop

Submit to AI
engines Makerlab/
Trigo /
Meshy3D/Hitem3D
/ Myriad others

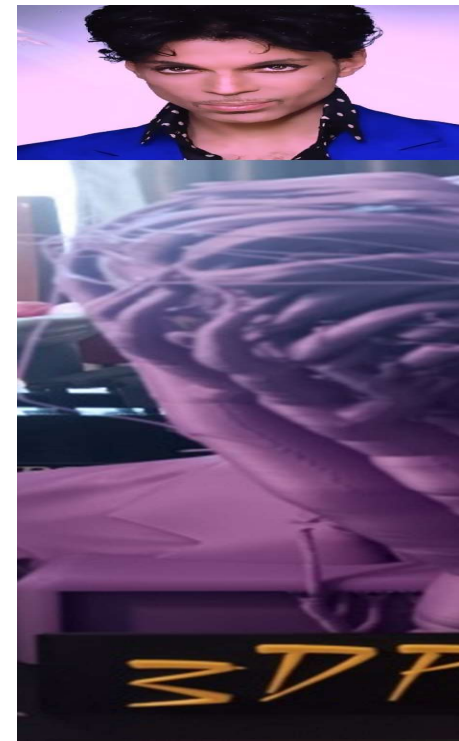
Export stl or glb or
3mf

Cleanup with
Meshmixer

TEST CASES

1. ACES: Sheridan 2. Snoopy

3. Prince



0



SHERIDAN ACE

a closeup image of eddie richenbacker flying in the cockpit of a biplane as it is flying with only the fuselage up with all the cold weather gear of that period, ww1



START with chatGPT and 2D



*He's famous enough the prompt didn't need a picture.
Here for reference.*



SHERIDAN ACE

isolate just the pilot



Lose some detail



SHERIDAN ACE



Crop and remove background-2D

USING PowerPoint





Prompt ChatGPT to replace ER with Sheridan-2D

isolate just the pilot

Free offer x



with the isolated pilot picture add the attached face in place of the existing one. Maintain face features so it is recognizable





Meshy for 2D -3D conversion

Meshy | Workspace | Community | My Assets | API | Learn | Resources

Assets

Image

Image Enhancement

Model Type

AI Model

Multi-view (Beta)

Pose

License

Topology Triangle

Faces 2,028,628

Vertices 1,014,220

Printability

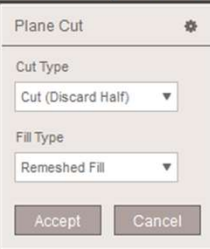
Export as .stl

5



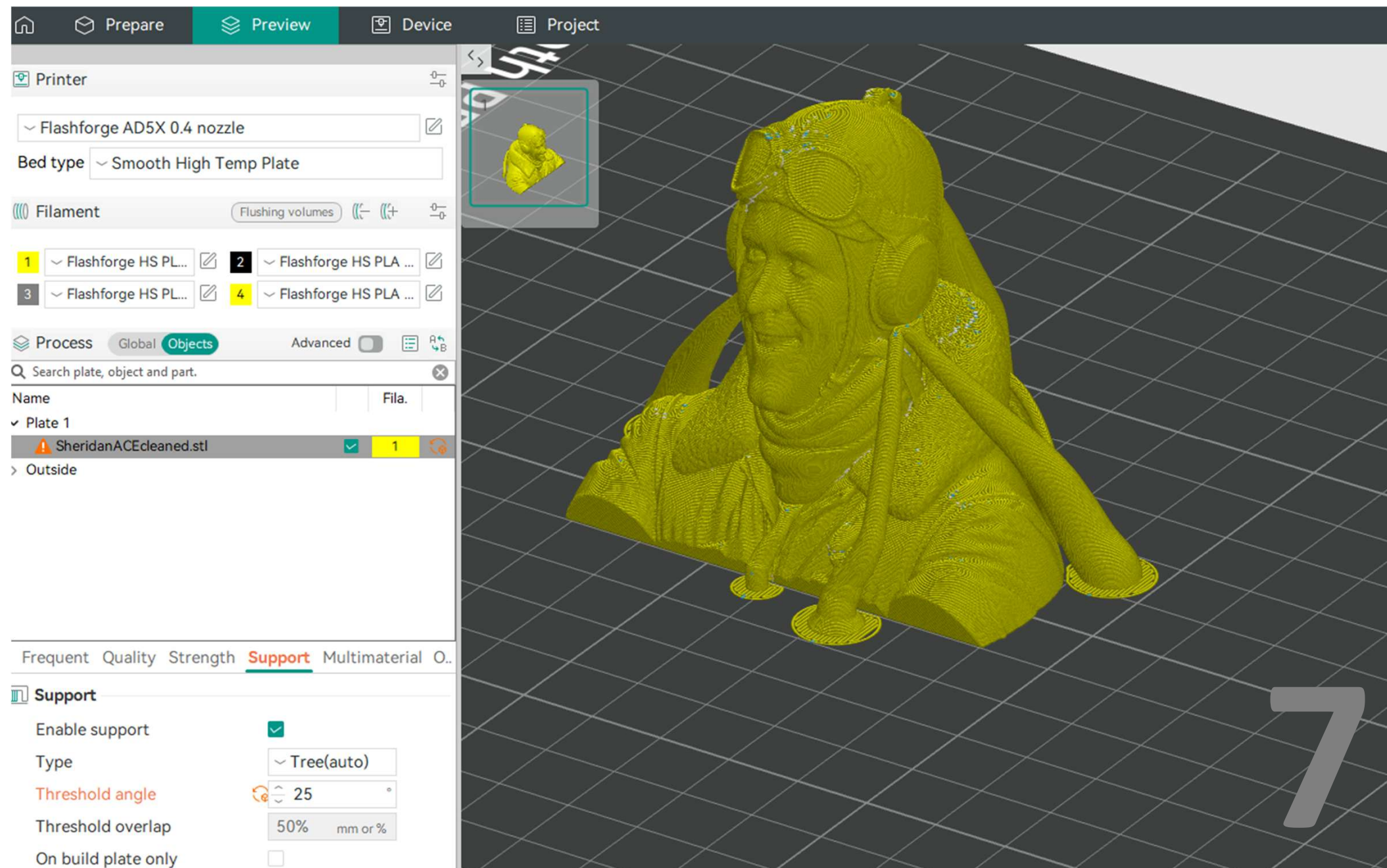
Meshmixer for Clean up-3D (stl)

File Actions View Help Feedback



Maker

7





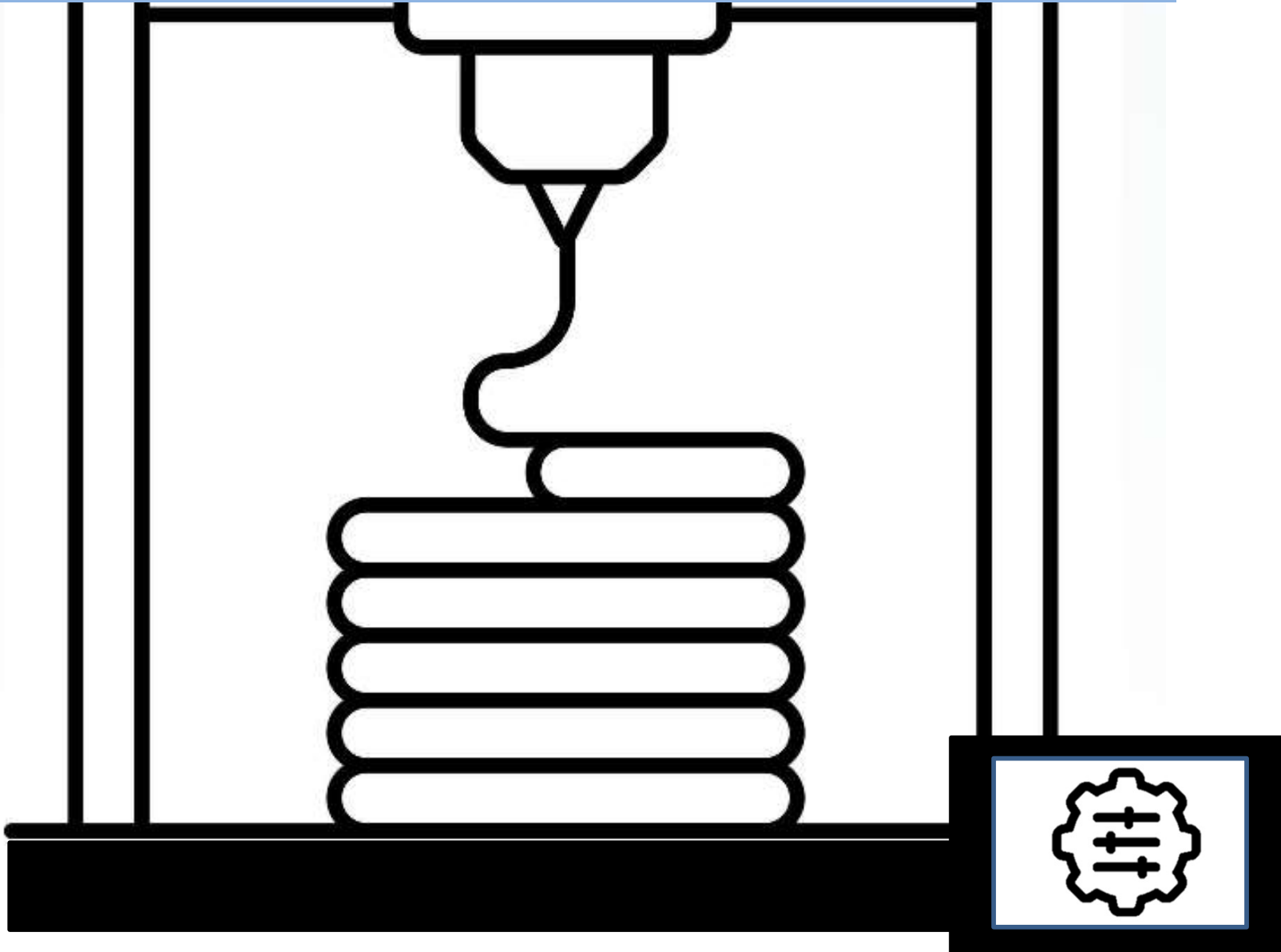
Printed result





REST of the Story

TWEAKING



9



SHERIDAN ACE

File 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 ...

Process Global **Objects** Advanced

Search plate, object and part.

Name	Fila.
Plate 1	
⚠ SheridanACEcleaned.stl	✓ 1
Plate 2	
⚠ SheridanACEcleaned.stl	✓ 1
Outside	

Quality Strength Speed **Support** Multimaterial Oth...

Support

Enable support ☒

Type ~ Tree(auto)

Style ~ Default (Grid...

Threshold angle 26°

Threshold overlap 50% mm or %

First layer density 90 %

First layer expansion 2 mm

On build plate only ☐

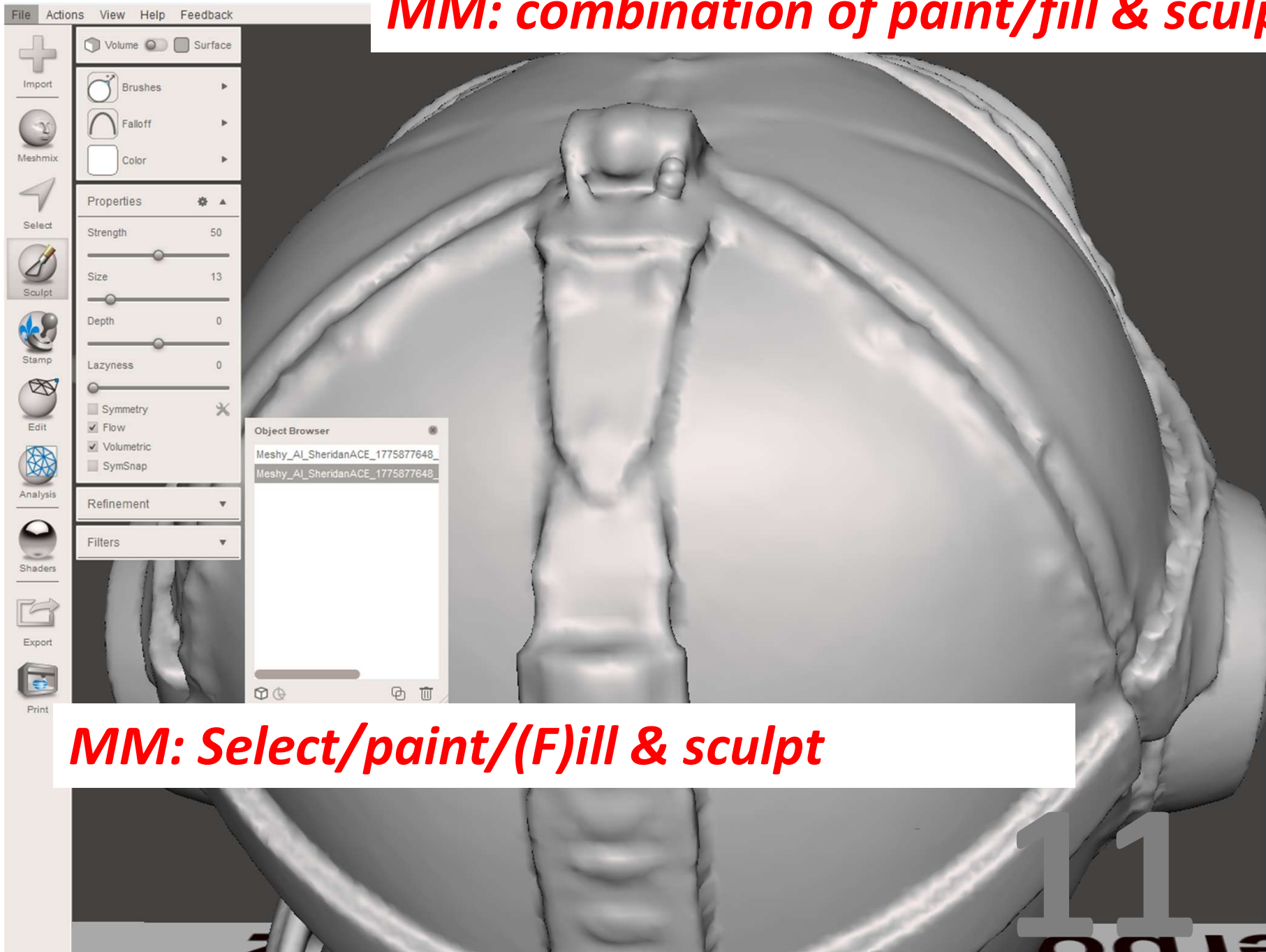
Big tree for a simple nub

10



SHERIDAN ACE

MM: combination of paint/fill & sculpt



MM: Select/paint/(F)ill & sculpt

11



SHERIDAN ACE

Result: Simpler tree supports

File 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 ...

Process Global **Objects** Advanced

Search plate, object and part.

Name	Fila.
Plate 1	
SheridanACEcleaned.stl	1
Plate 2	
SheridanACEcleaned.stl	1
Plate 3	
SheridanACEmmtweak3.stl	1
Outside	

Quality Strength Speed **Support** Multimaterial Oth...

Support

Enable support ☒

Type ~ Tree(auto)

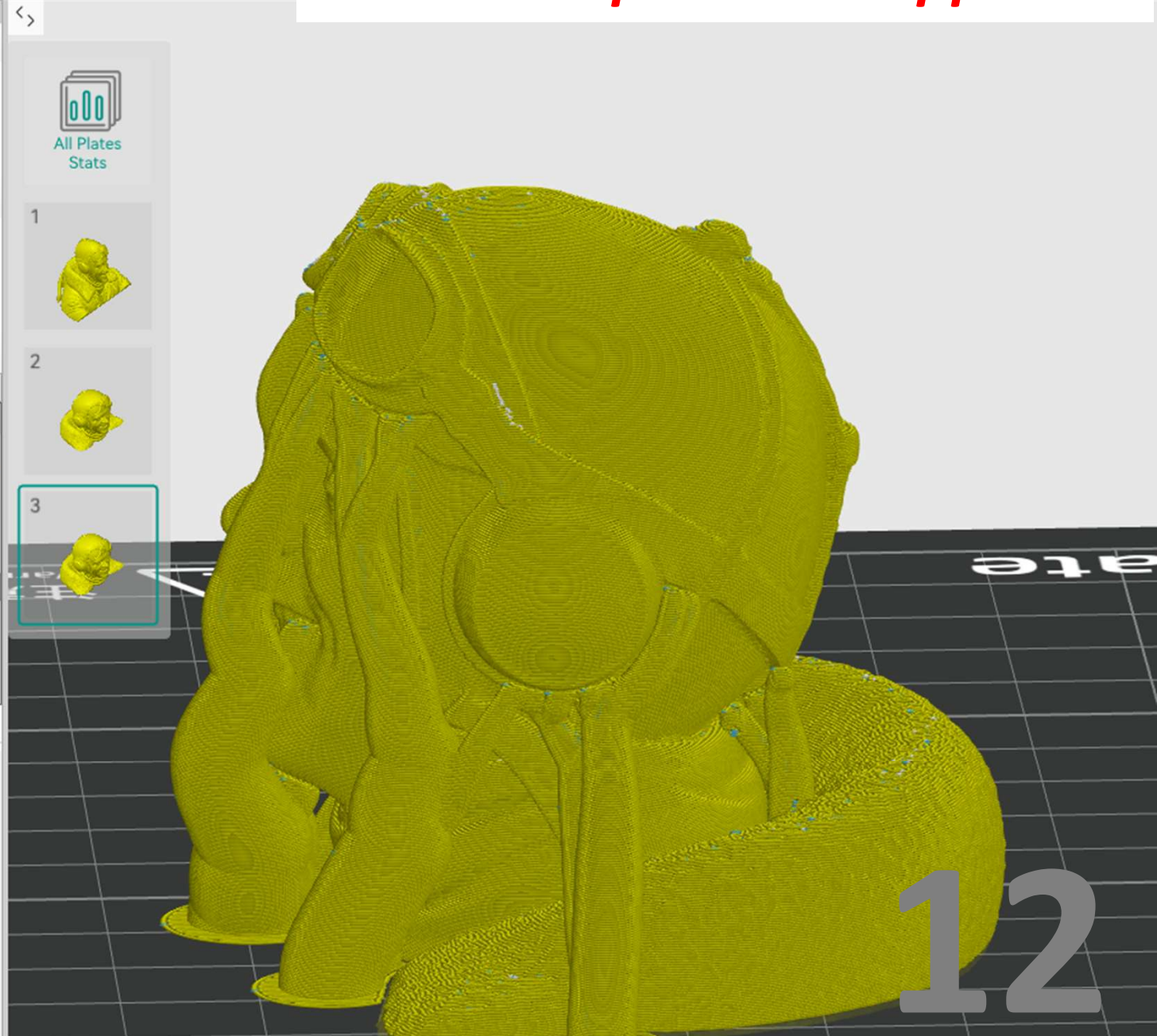
Style ~ Default (Grid...)

Threshold angle 30°

Threshold overlap 50% mm or %

First layer density 90 %

First layer expansion 2 mm





SNOOPY workflow



13



SNOOPY workflow



transform the head to that of snoopy



START with chatGPT and 2D

14



SNOOPY workflow

Meshy3D: image to 3D

New Model

Batch Images to 3D

Image



Name

Snoopy the Aviator

Model Type

Standard Low Poly (Beta)

AI Model

Meshy 6

Image Enhancement

Multi-view (Beta)

Pose

License

CC BY 4.0 Private

1 min 20

Generate

Topology Triangle
Faces 1,603,010
Vertices 801,449

Printability

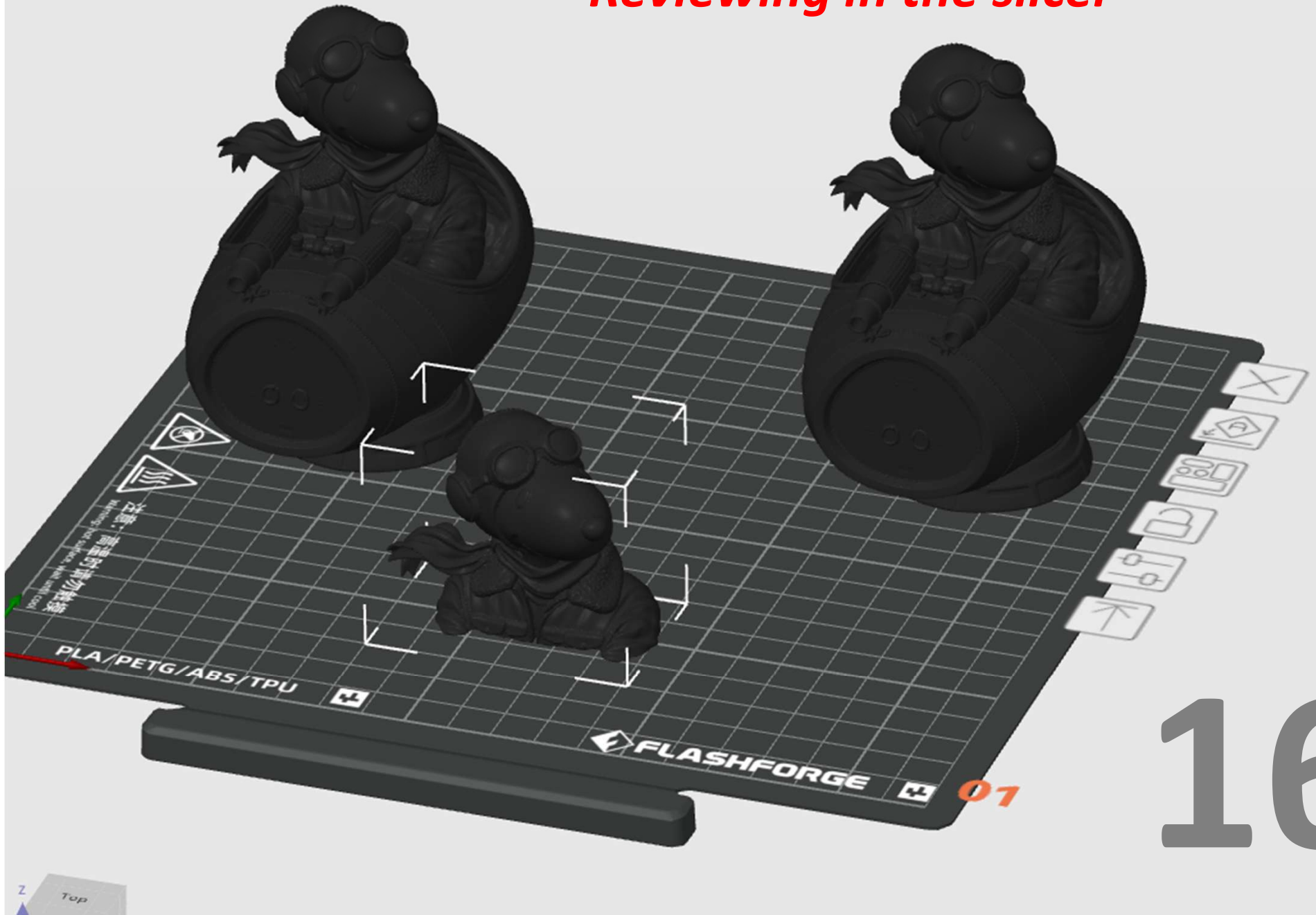


15



SNOOPY workflow

Reviewing in the slicer



16

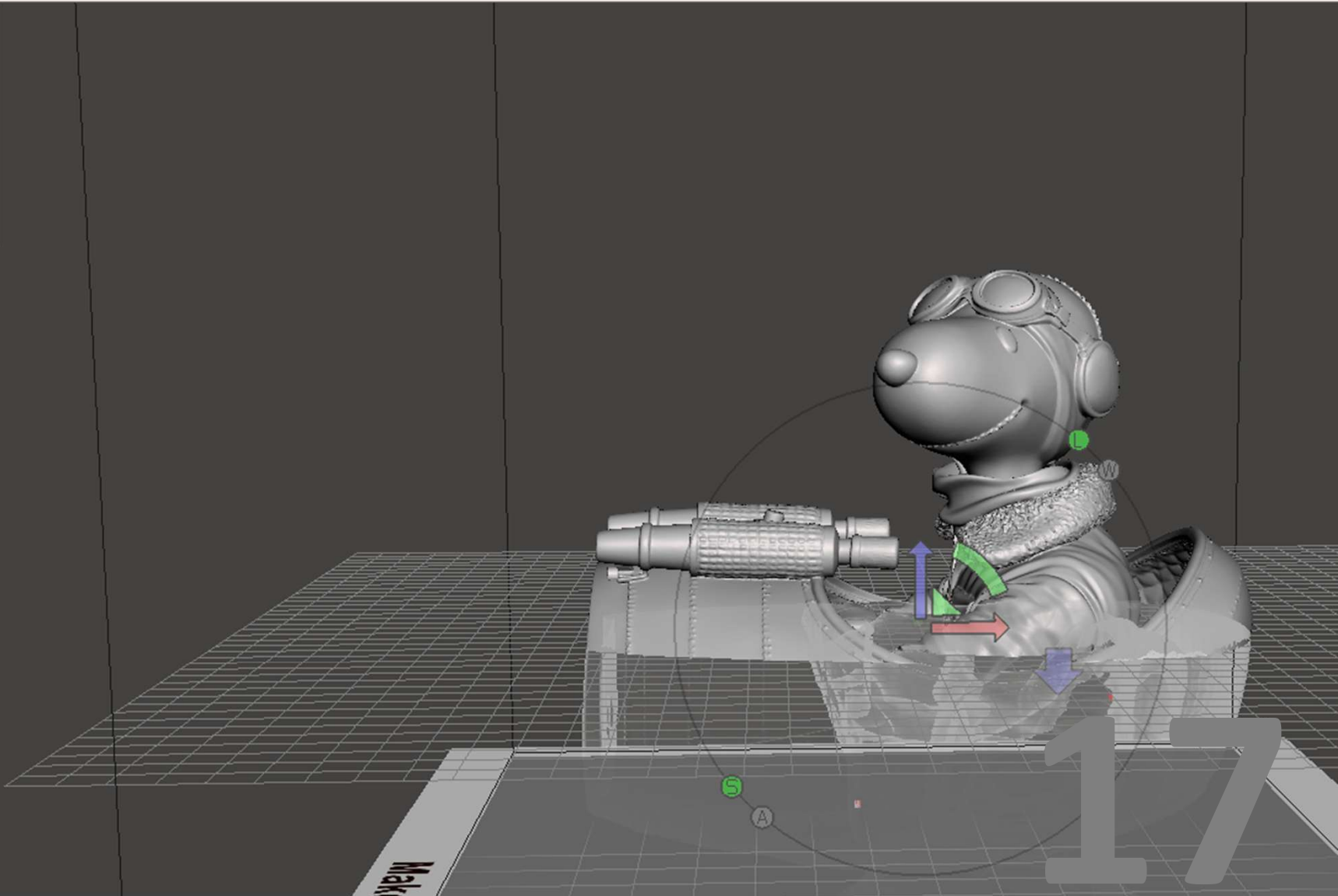
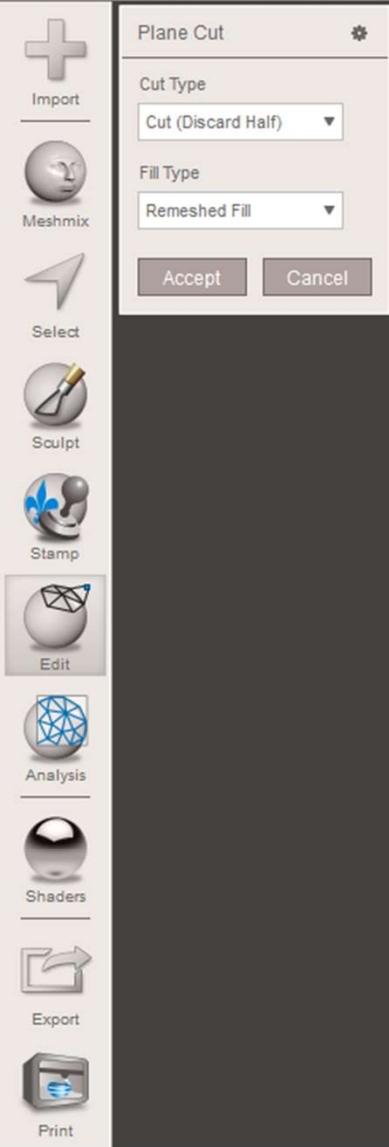


SNOOPY workflow

MeshMixer: Use Edit/Plan cut to isolate the pilot

Autodesk Meshmixer - Meshy_AI_Snoopy the Aviator_1775435127_generate.stl

File Actions View Help Feedback





SNOOPY workflow

MeshMixer: Don't forget to remake as a solid

Autodesk Meshmixer - snoopSheridan.mix

File Actions View Help Feedback



Import



Meshmix



Select



Sculpt



Stamp



Edit



Analysis



Shaders



Export



Print



Inspector



Units/Dimensions



Measure



Mesh Query



Thickness



Strength



Stability



Orientation



Layout/Packing



Overhangs



Slicing

Object Browser

tor_1775435127_generate.stl

tor_1775435127_generate.stl (solid)



18



SNOOPY workflow

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 FF HS PETG @FF A...

3 FF HS PETG @FF ... 4 FF HS PETG @FF A...

Process Global Objects Advanced

Search plate, object and part.

Name	Fila.
Object_1	1
Meshy_AI_Snoopy_...016_generate.obj	1
SnoopySheridan.stl	1

Outside

Frequent Quality Strength Speed Support Multim...

Layer height

Layer height 0.1 mm

Line width

Default 0.42 mm or %

Outer wall 0.42 mm or %

Inner wall 0.45 mm or %

Top surface 0.42 mm or %

Sparse infill 0.45 mm or %

Internal solid infill 0.42 mm or %

SLICER: load and "paint"



19



PRINCE workflow

chatGPT PROMPT:

develop an image of a bust of the singer Prince. It is a bust from the chest up printed as a resin 3D print. It has a white background.





PRINCE workflow

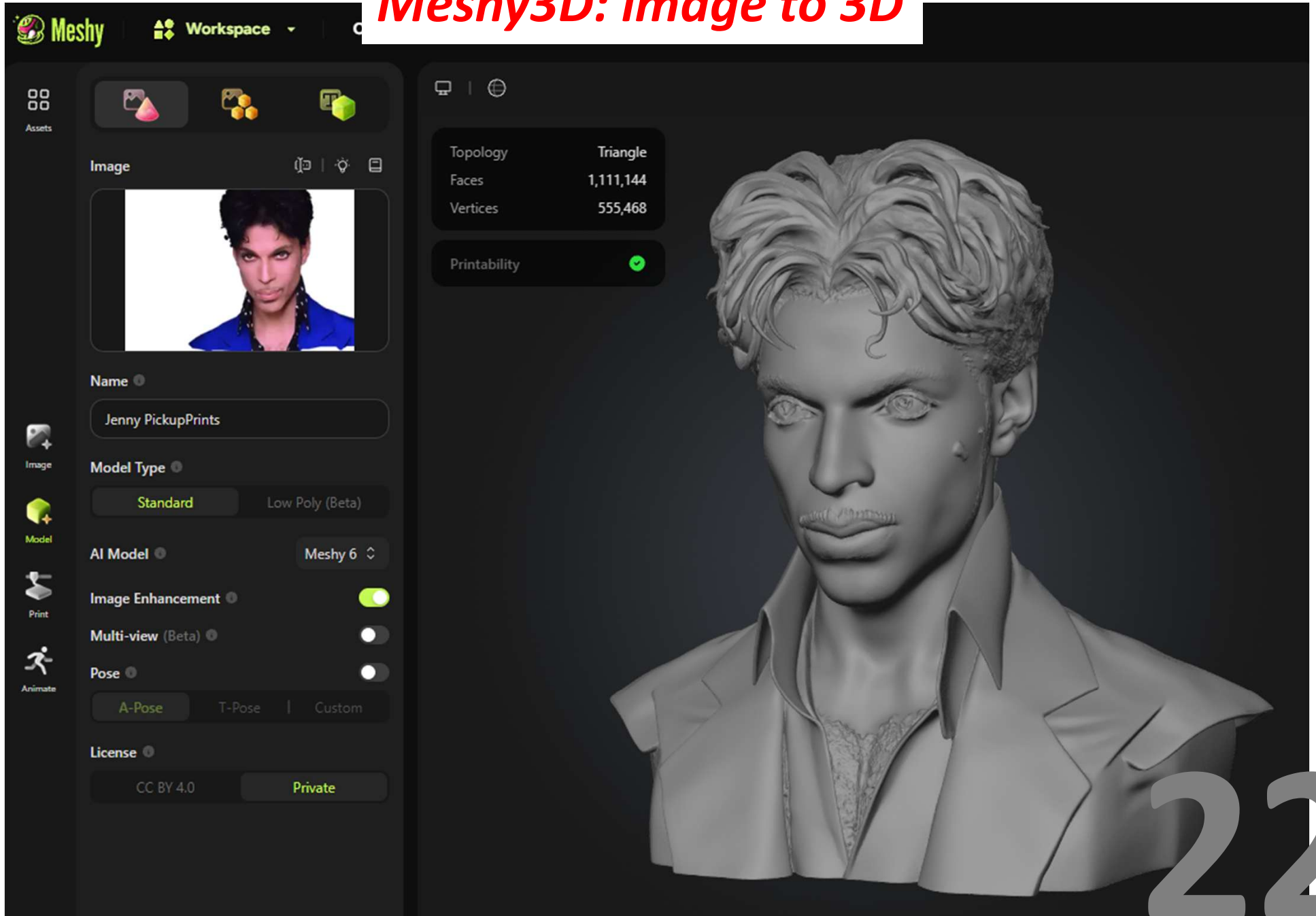


Powerpoint: remove background



PRINCE workflow

Meshy3D: image to 3D





PRINCE workflow

SLICER: BIG tree in the back

Printer

CE-3 V3 KE 0.4 nozzle - AR...

Bed type: Smooth PEI Plate / Hig...

Global **Objects**

▼ Plate 1

LibraryPrince.stl 4

► Outside

G-code Preview

Printing Time: 2h11m Filament Wt: 31.10 g

Filament Length: 10.43 m Filament Cost: 0.93

Show in Preview

☒ Print Platform ☒ Nozzle

Color Show

	Filament	Support	Platform	Total	
1	0.03 m	0.00 m	0.00 m	0.03 m	✓
	0.02 g	0.00 g	0.00 g	0.02 g	
4	7.73 m	2.73 m	0.23 m	10.69 m	✓
	2.80 g	0.89 g	0.06 g	3.75 g	
Total	7.76 m	2.73 m	0.23 m	10.72 m	
	2.82 g	0.89 g	0.06 g	3.77 g	

Filament change times: 1



PRINCE workflow

Autodesk Meshmixer - LibraryPrince25pct.stl

File Actions View Help Feedback



Import



Meshmix



Select



Sculpt



Stamp



Edit



Analysis



Shaders



Export



Print

Edit...
Deform...
Modify...

Select

Brush Mode

Sphere Brush

Size 13

Symmetry

Filters

Expand Mode right-click drag

Geodesic Distance

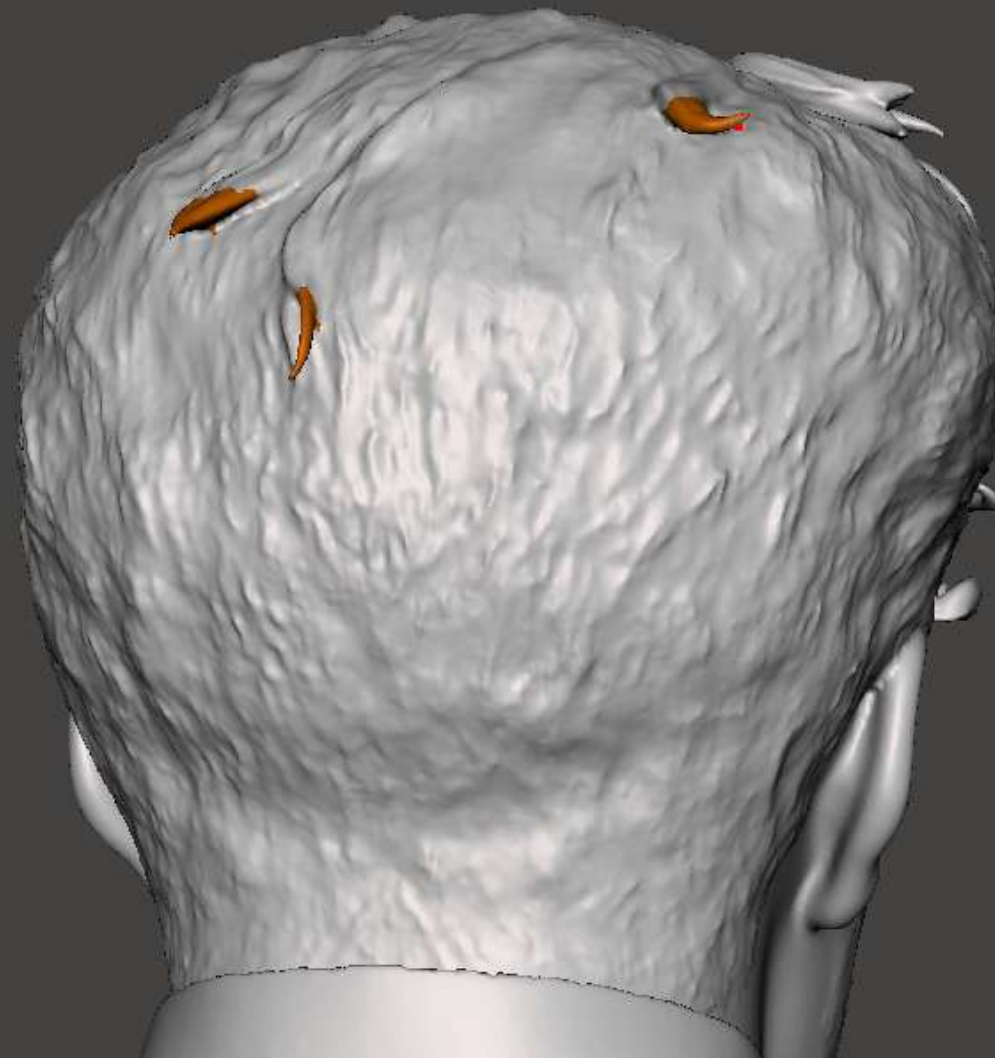
Allow Back Faces

Restrict To Exterior Faces

Crease Angle Thres 0

Clear Selection

Meshmixer: Select/Paint/(F)ill



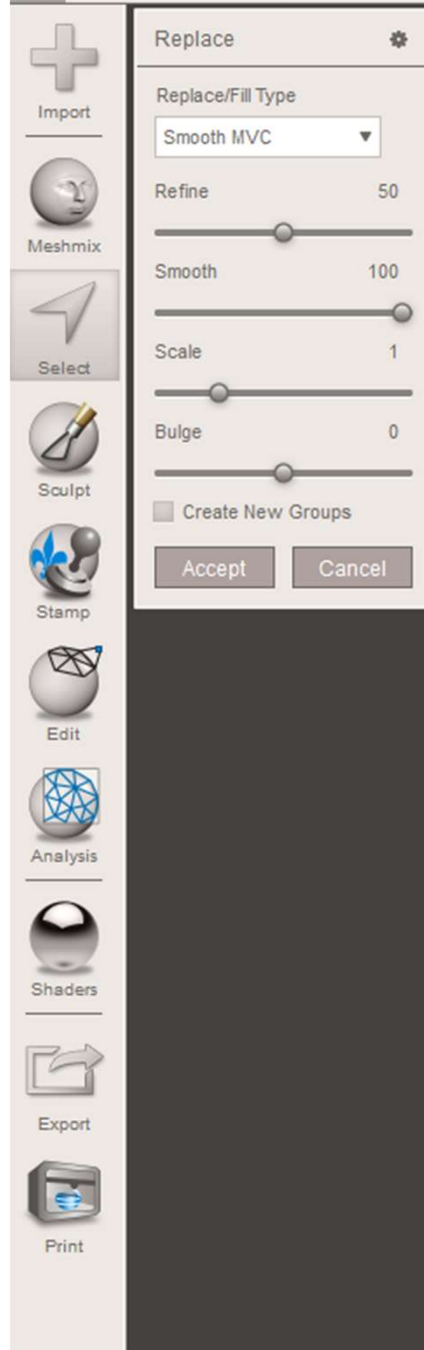
24



PRINCE workflow

Autodesk Meshmixer - LibraryPrince25pct.stl

File Actions View Help Feedback



Meshmixer: Select/Paint/(R)eplace

25



PRINCE workflow

SLICER: BIG tree in the back, yet

Printer

Creality K2 Plus 0.4 nozzle

Bed type: Textured PEI Plate

Global **Objects**

- Plate 1
 - Meshy_AI_Jenny PickupPri 1
- Plate 2
- Plate 3
 - LibraryPrince.stl 2
- Plate 4
 - LP288spikeREM.stl 7
- Plate 5
 - 123 fastener - 32 SHCS Ta 1
- Plate 6

G-code Preview

Printing Time: 1d17h14m Filament Wt: 1500.85 g
Filament Length: 503.21 m Filament Cost: 30.02

Show in Preview

☒ Print Platform ☒ Nozzle

Color Show **G-code**

Line Type Lite Mode

Line Type	Time	Percent	
Inner wall	11h17m	27.4%	✓
Outer wall	5h48m	14.1%	✓
Overhang wall	6m17s	0.3%	✓
Sparse infill	5h44m	13.9%	✓
Internal solid infill	2h31m	6.1%	✓
Top surface	12m7s	0.5%	✓
Bottom surface	14m34s	0.6%	✓

Processing model 'Meshy_AI_Jenny PickupPrints_177621' with more than 1M triangles could be slow. It is highly recommended to simplify the model.
[Simplify model!](#)

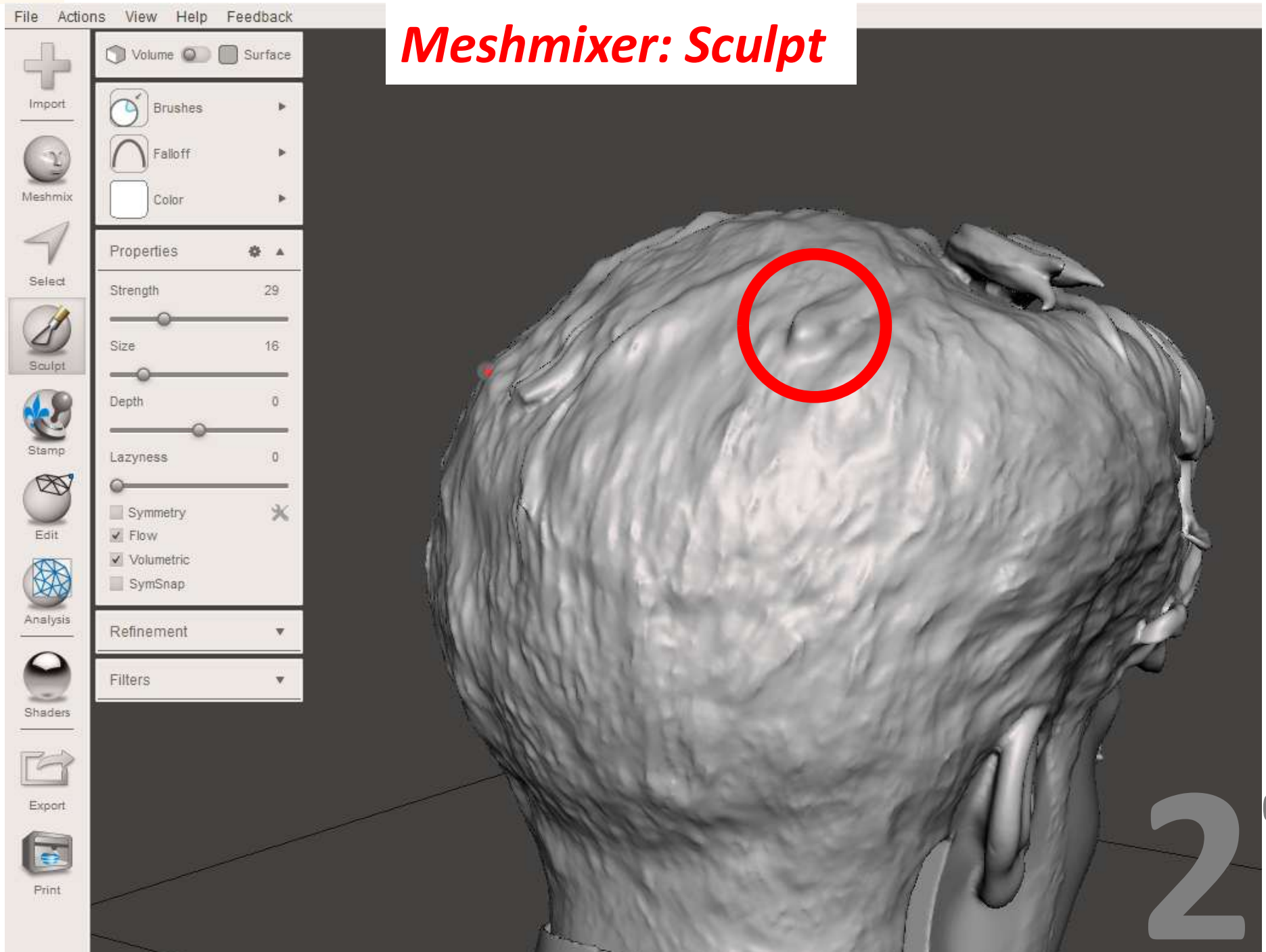
X: 182.270 Y: 193.766 Z: 300.000
Speed: 20

26



PRINCE workflow

Meshmixer: Sculpt

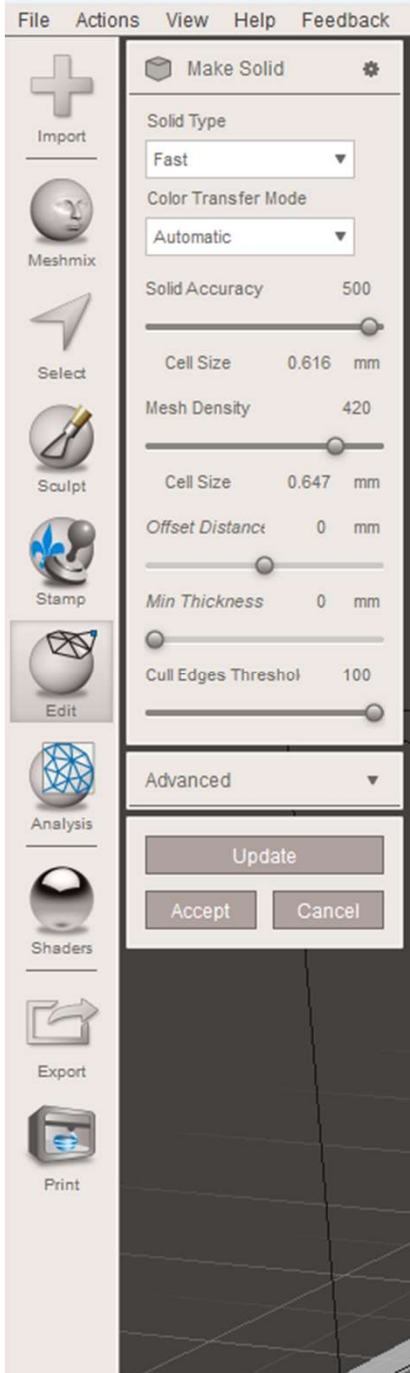




PRINCE workflow

Meshmixer: Edit/Make Solid

Autodesk Meshmixer - LP cloudSocket.mix

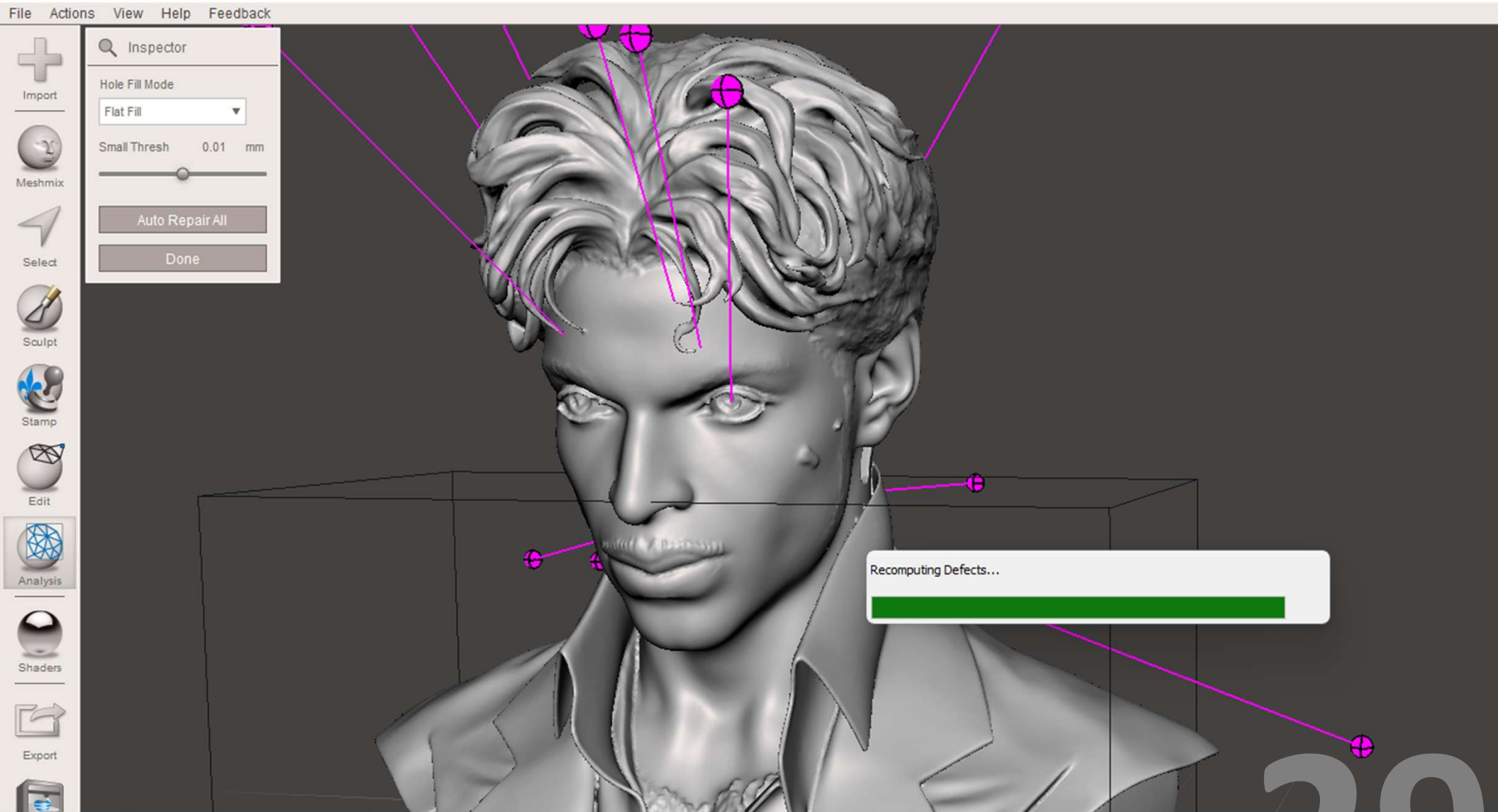


28



PRINCE workflow

Meshmixer: Analysis/Inspector/AutoRepair All





PRINCE workflow

Slicer: no BIG tree in back

Printer

Creality K2 Plus 0.4 nozzle

Bed type: Textured PEI Plate

Global **Objects**

- Plate 1
 - Meshy_AI_Jenny PickupPri 1
- Plate 2
- Plate 3
 - LibraryPrince.stl 2
- Plate 4
 - LP288spikeREM.stl 7
- Plate 5
 - 123 fastener - 32 SHCS Ta 1
- Plate 6

G-code Preview

Printing Time: 1d19h22m Filament Wt: 1636.12 g
Filament Length: 548.56 m Filament Cost: 32.72

Show in Preview

☒ Print Platform ☒ Nozzle

Color Show **G-code**

Line Type

Line Type	Time	Percent	
Inner wall	14h37m	33.7%	✓
Outer wall	5h48m	13.4%	✓
Overhang wall	6m19s	0.2%	✓
Sparse infill	5h14m	12.1%	✓
Internal solid infill	2h31m	5.8%	✓
Top surface	12m37s	0.5%	✓
Bottom surface	14m26s	0.6%	✓

30



PRINCE workflow

Printer

Creality K2 Plus 0.4 nozzle

Bed type Textured PEI Plate

G-code Preview

Printing Time: 1d13h37m Filament Wt: 1213.98 g

Filament Length: 407.03 m Filament Cost: 24.28

Show in Preview

☒ Print Platform

☒ Nozzle

Color Show

G-code

Filament

Lite Mode

Filament	Model	Support	Flushed	Total	
7	313.47 m	93.56 m	0.25 m	407.28 m	☒
	934.94 g	279.04 g	0.74 g	1214.72 g	

Filament change times: 1

Cost: 24.28

g model 'Meshy_AI_Jenny PickupPrints_17762' with more than 1M triangles could be highly recommended to simplify the model.

X: 168.127 Y: 124.230 Z: 300.00
Speed: 20

31



PRINCE workflow

