

Fusion 360 and 3D Printing: Tips and Tricks for a Successful Workflow

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About me

Elizabeth Bishop

- 2012 – 2017 MEng Mechanical Engineering
- 2016 – 2017 UAV Group Project
- 2017 – 2021 PhD in Large-Scale Additive Manufacturing (3D Printing)
- Maker in Residence at Warwick Engineering Build Space

 @LizBish94

 @WEDesignMake

 Elizabeth Bishop

You may remember us from...



Learning Objectives

OBJECTIVE 1

Explore the 3D printing workflow from start to print using Fusion 360

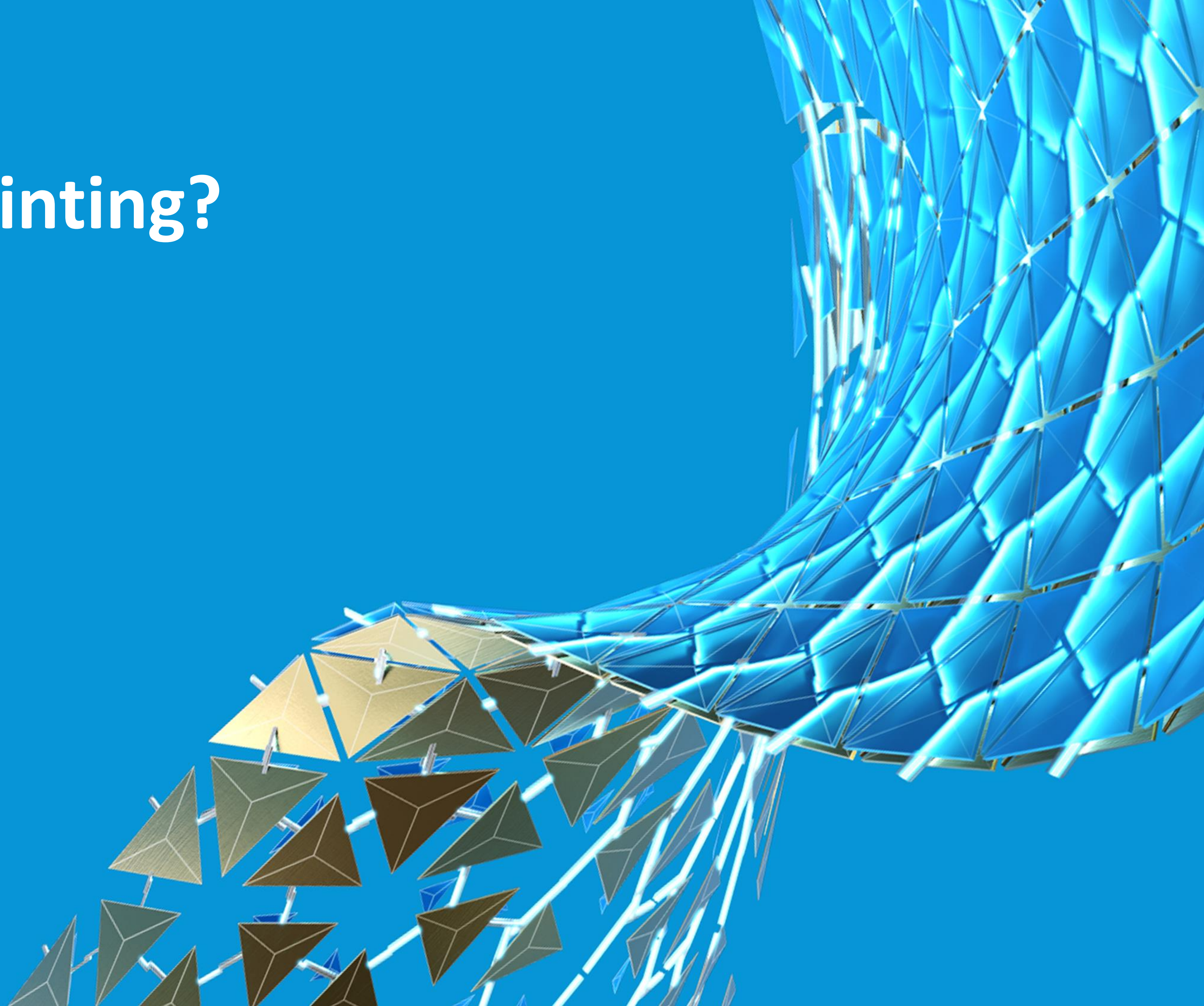
OBJECTIVE 2

Explore different available 3D printing technology

OBJECTIVE 3

Explore the additive manufacturing workspace in Fusion 360

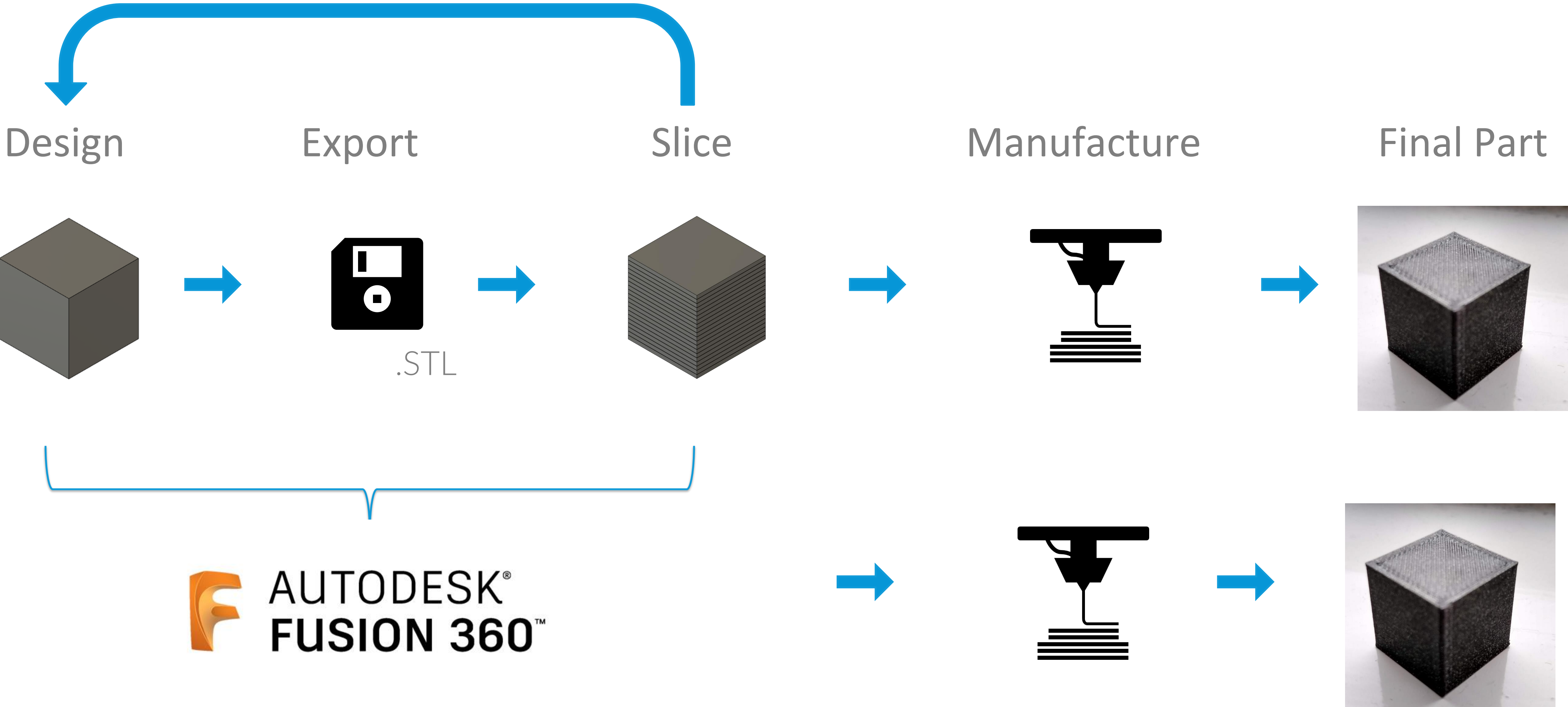
What is 3D Printing?



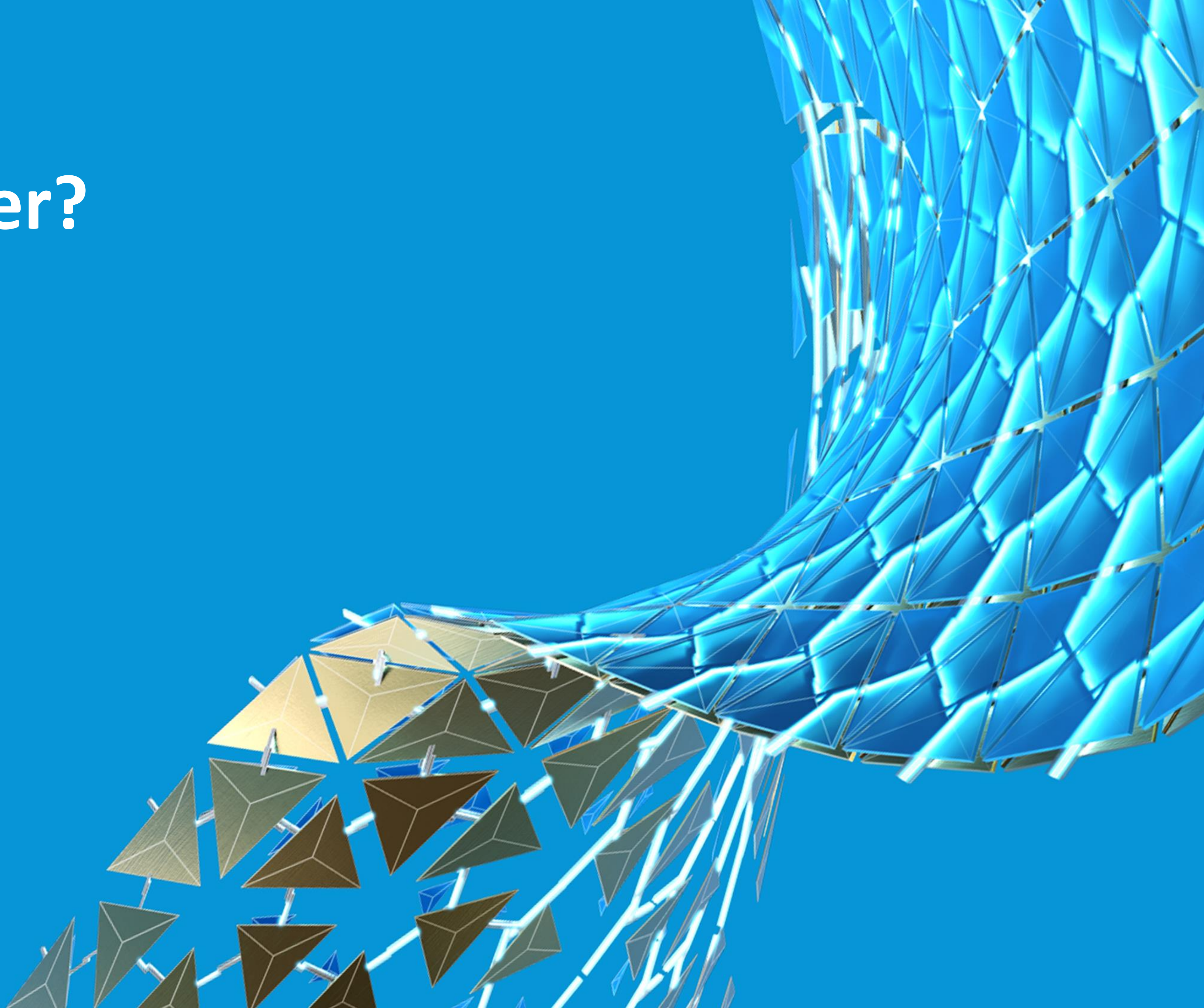
The process of joining materials to make parts from 3D model data, usually layer upon layer, as opposed to subtractive manufacturing and formative manufacturing methodologies

ASTM 52900

3D Printing Workflow



What is a Slicer?

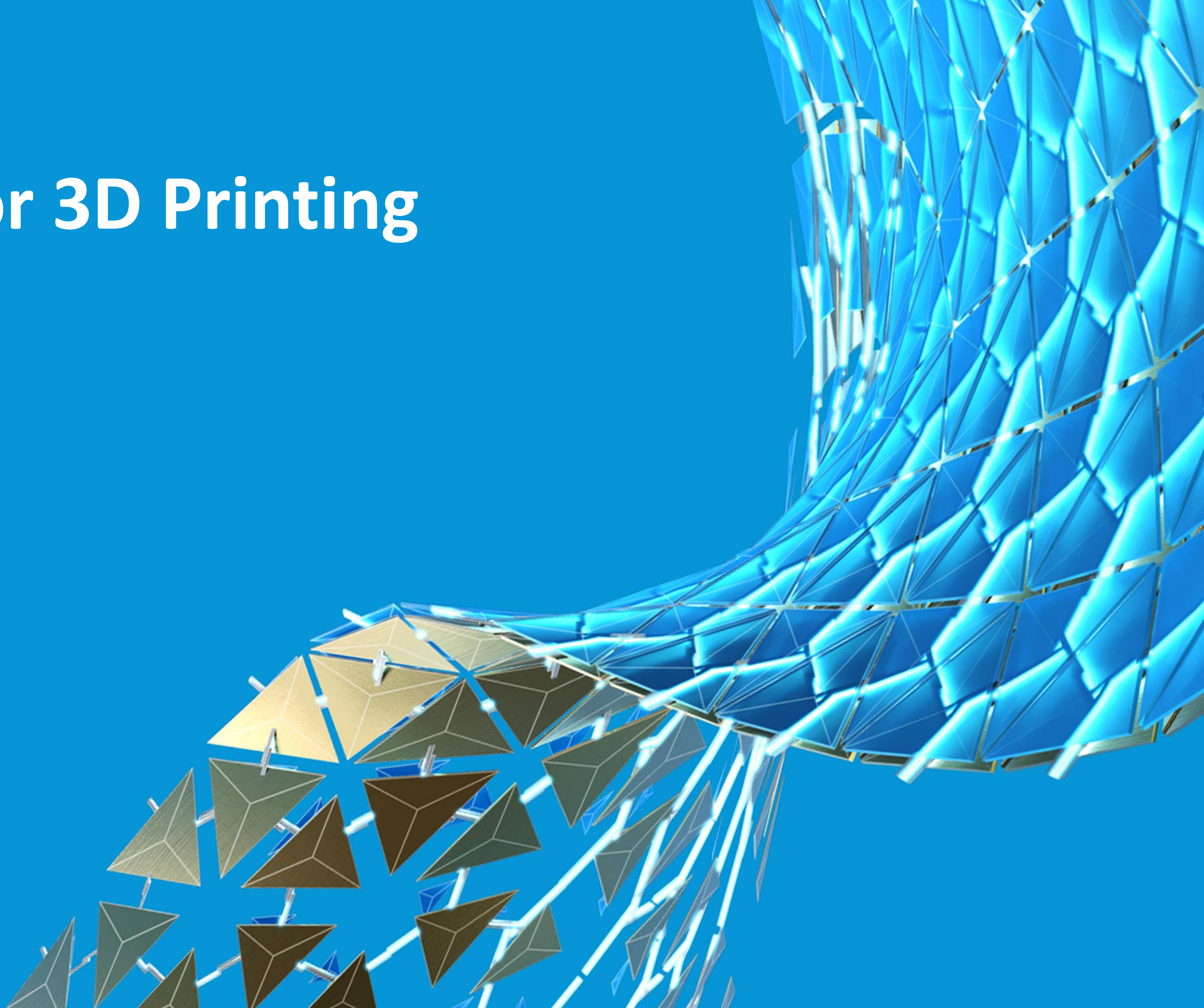




Slicers?



Design Tips for 3D Printing



**Design to not need support
material**

Tip 1:

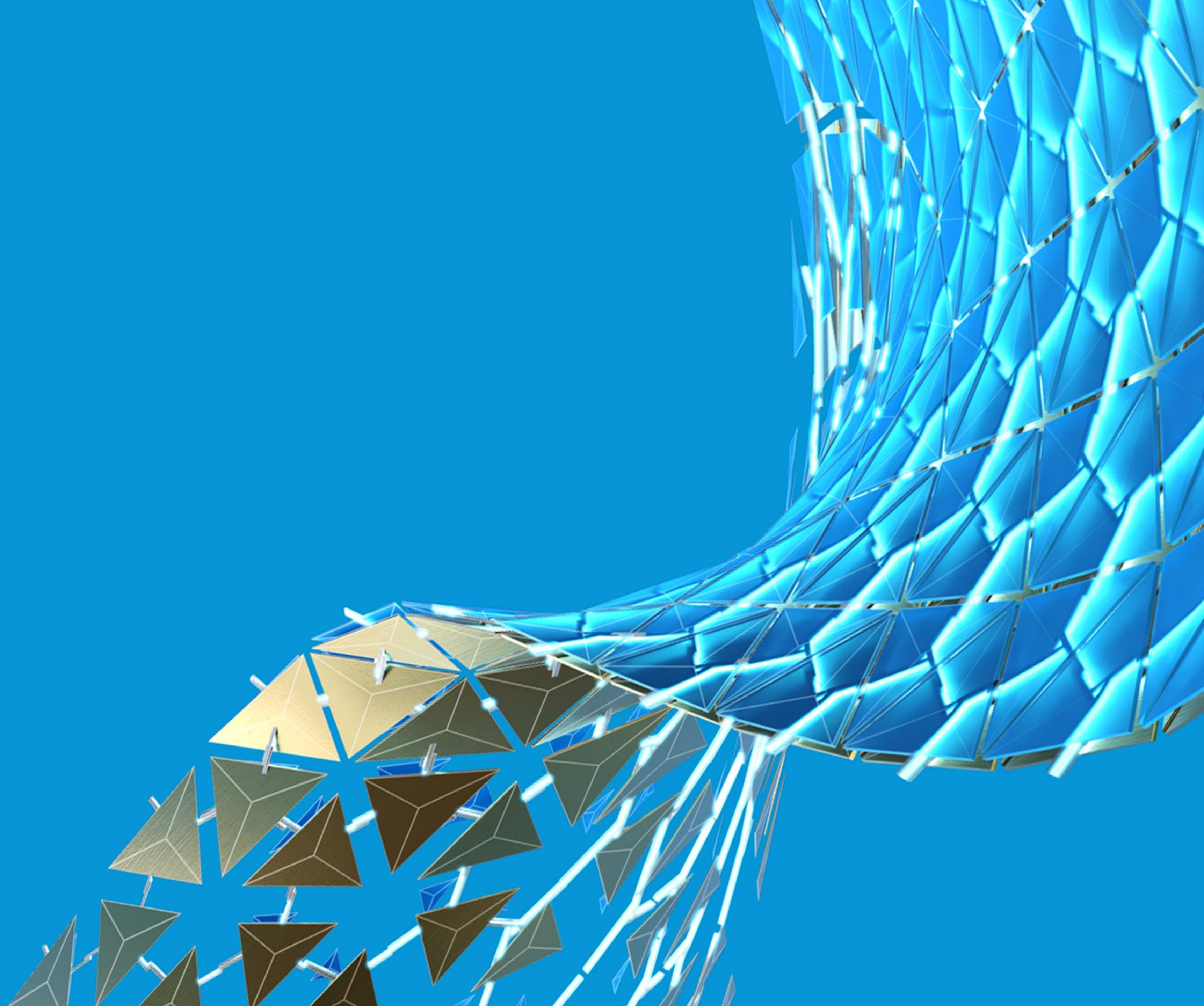
Change the print orientation

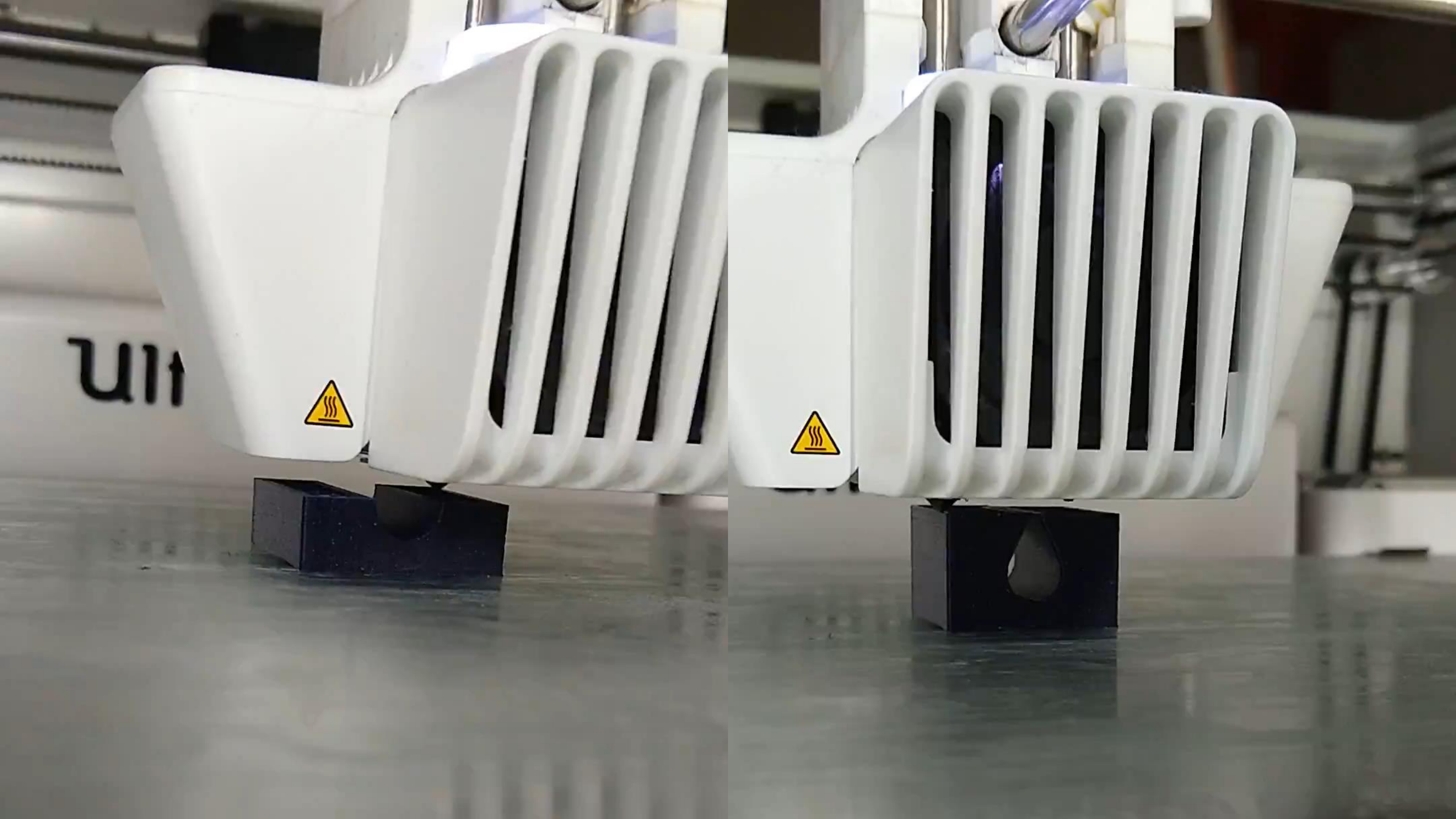
Tip 2:
Overhang angle

Tip 3:
Bridging design

Tip 4:
Small feature size

Demo

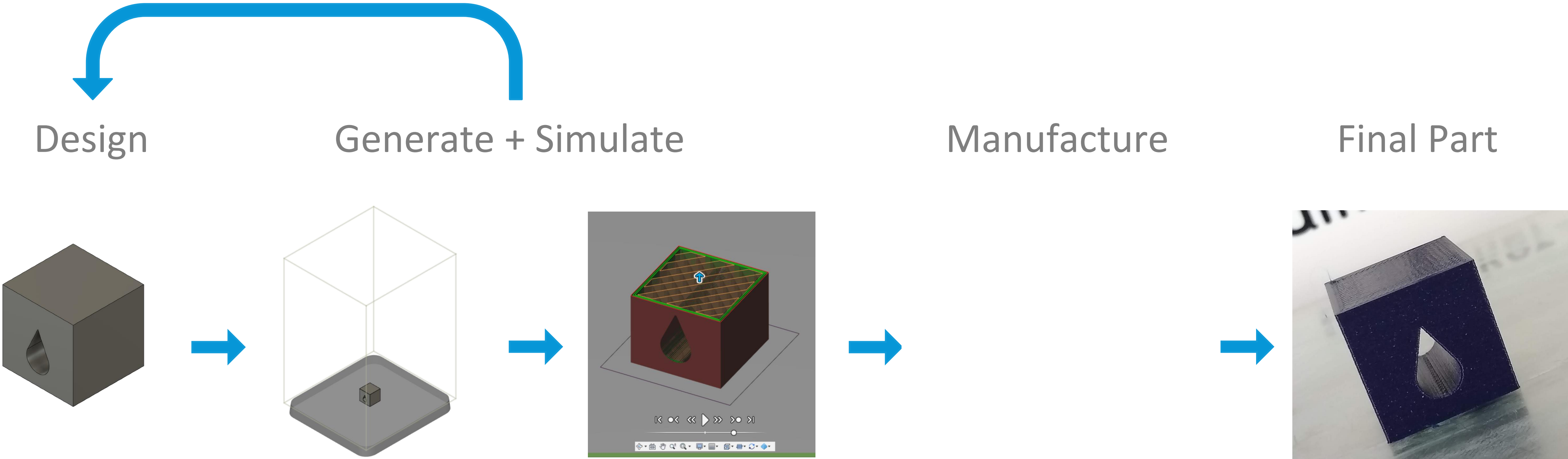




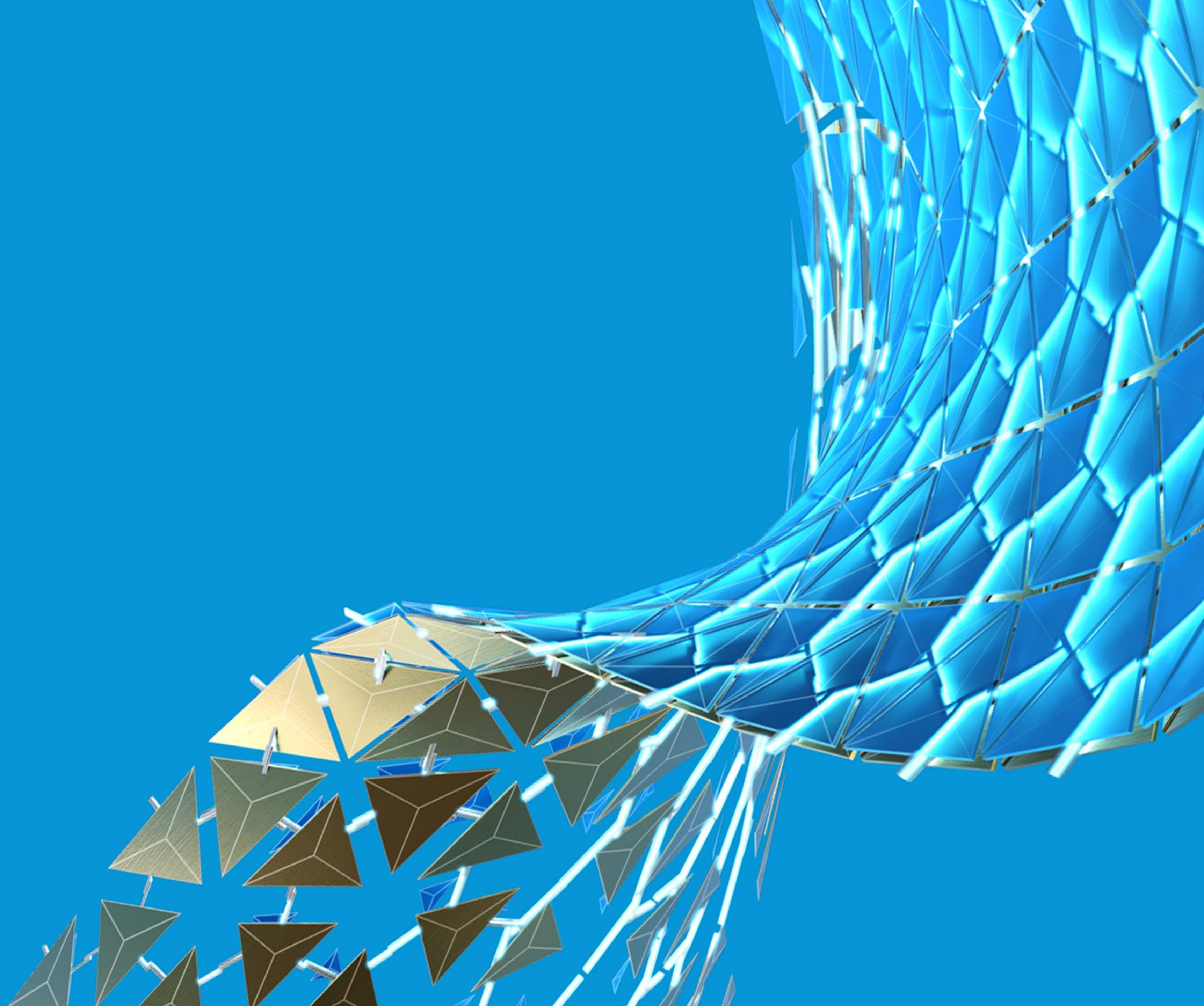
ultra



3D Printing Workflow



Conclusions



Summary

OBJECTIVE 1

Explore the 3D printing workflow from start to print using Fusion 360

OBJECTIVE 2

Explore different available 3D printing technology

OBJECTIVE 3

Explore the additive manufacturing workspace in Fusion 360

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Stressing Out: Simulation Workspace in Fusion 360

3D Printing PPE: A Three-Minute Face Shield Solution



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