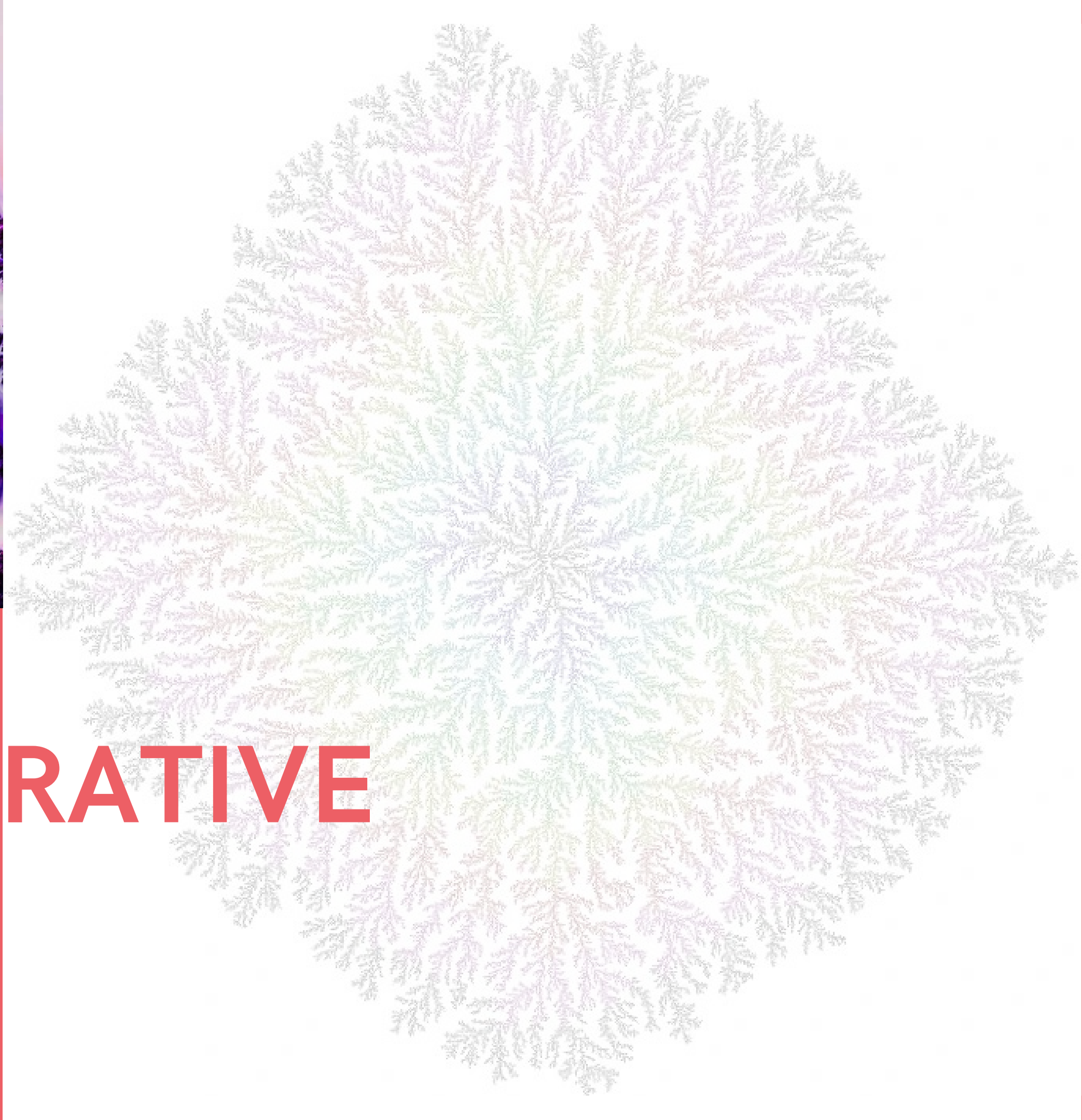




DIGITAL ART

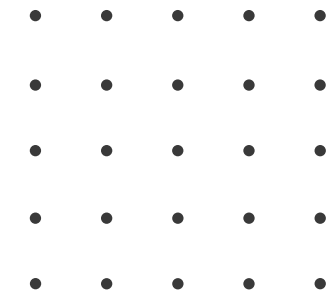
Daniel Havel
Miroslav Hájek
Vladyslav Holubenko
Anastasiia Solomiia Hrytsyna



GENERATIVE ART

Miroslav Hájek

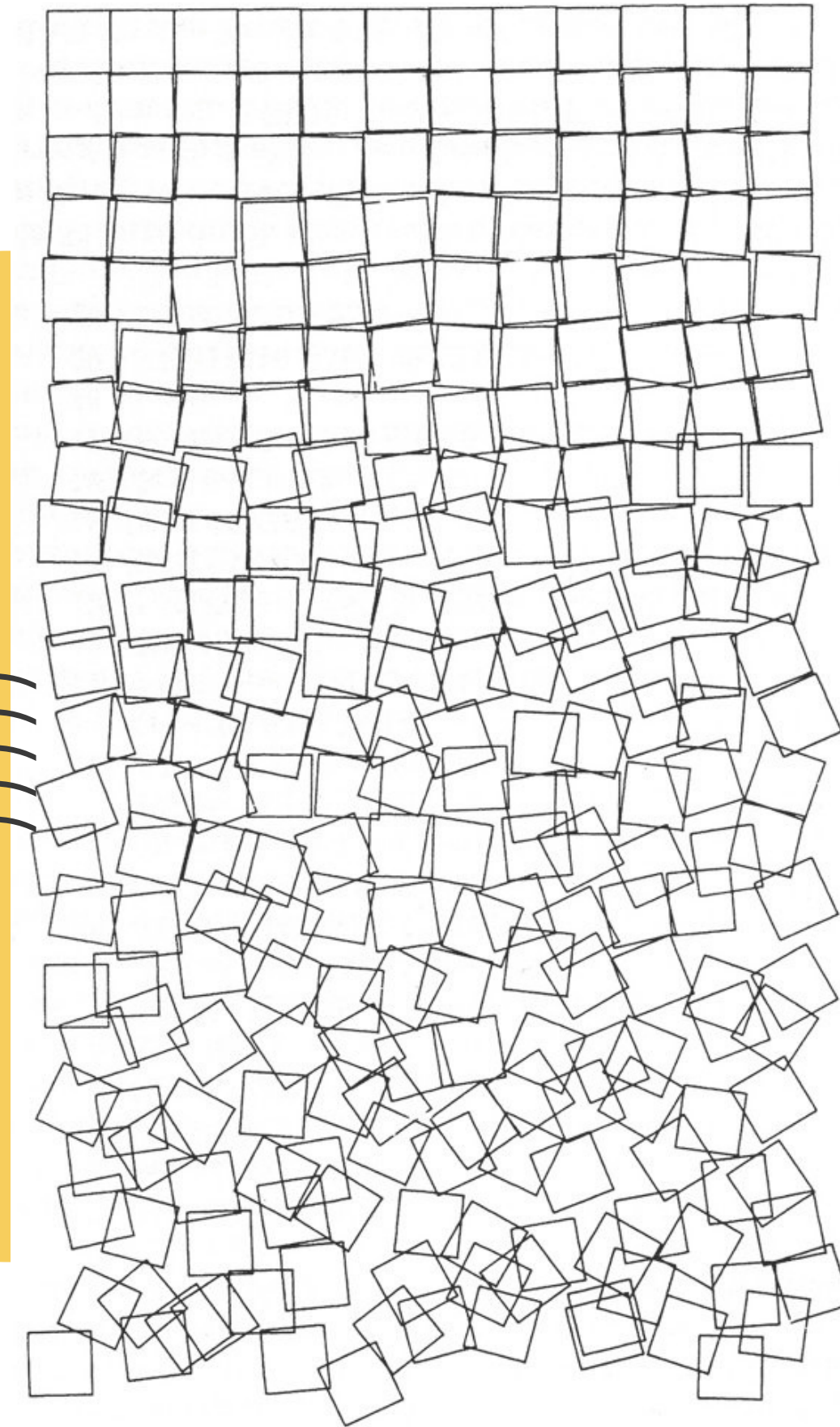
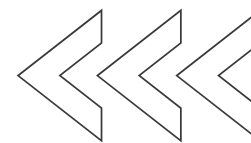
ARTWORK PARADIGM SHIFT



Intersection Aggregate
Jared Tarbell, 2004

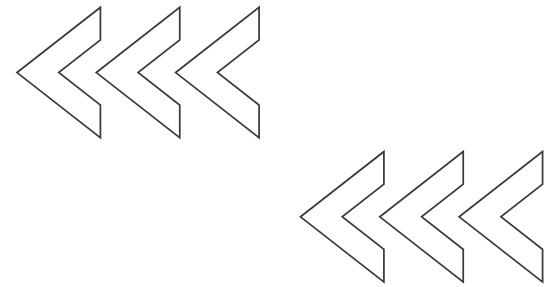


Penrose Substitution
Jared Tarbell, 2020



Schotter (Gravel) - Georg Nees ,1968

LINDENMAYER SYSTEMS



Processes

- Generative
- Interpretative

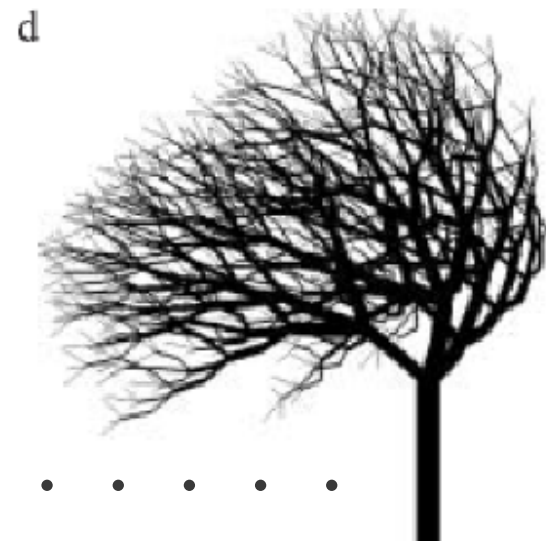
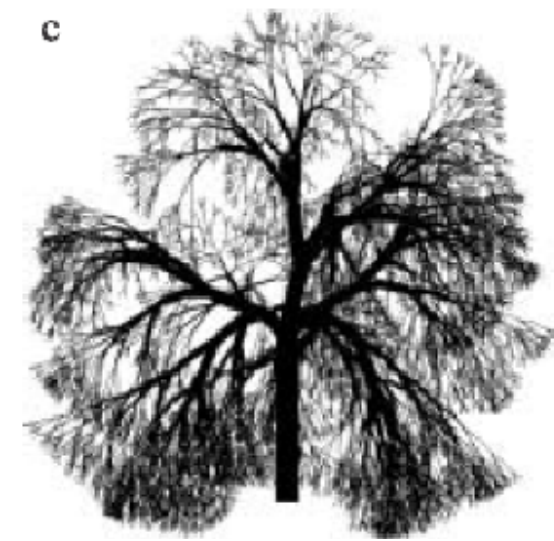
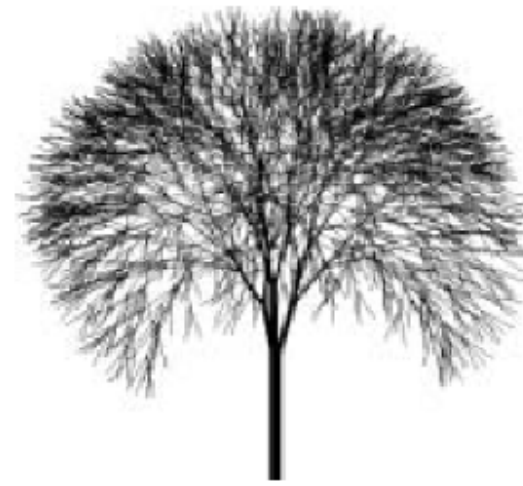
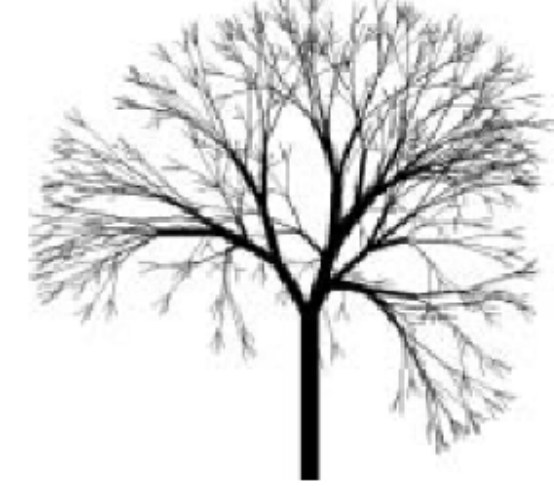
start: a

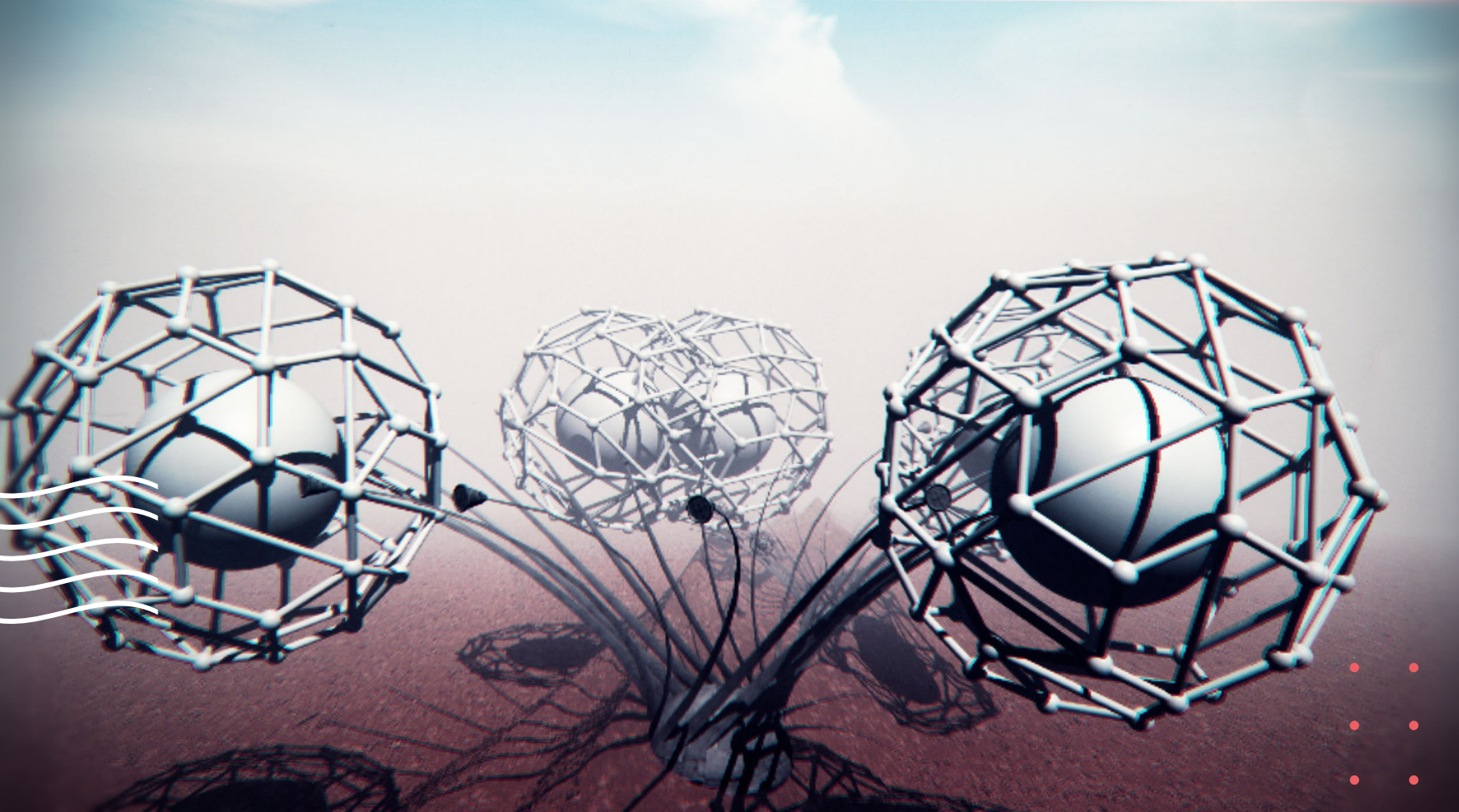
rules:

$a \rightarrow aba$

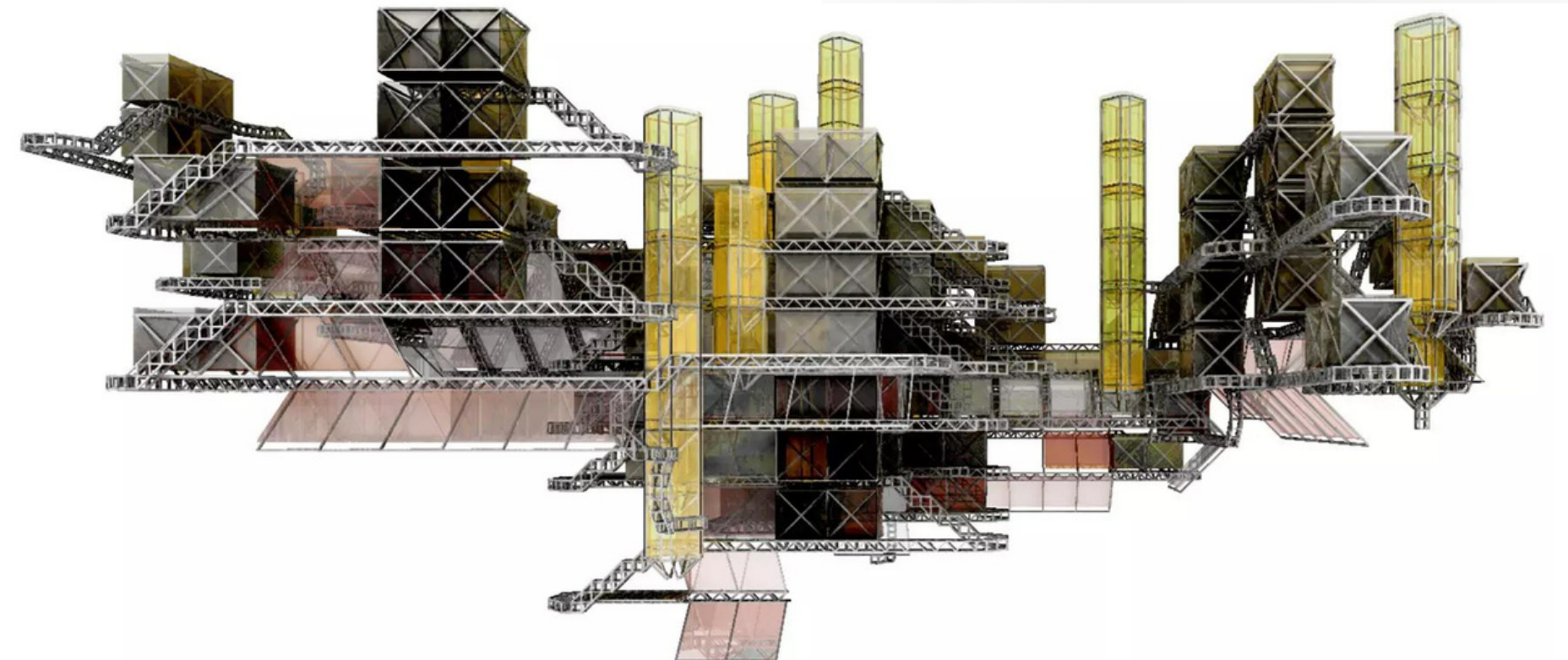
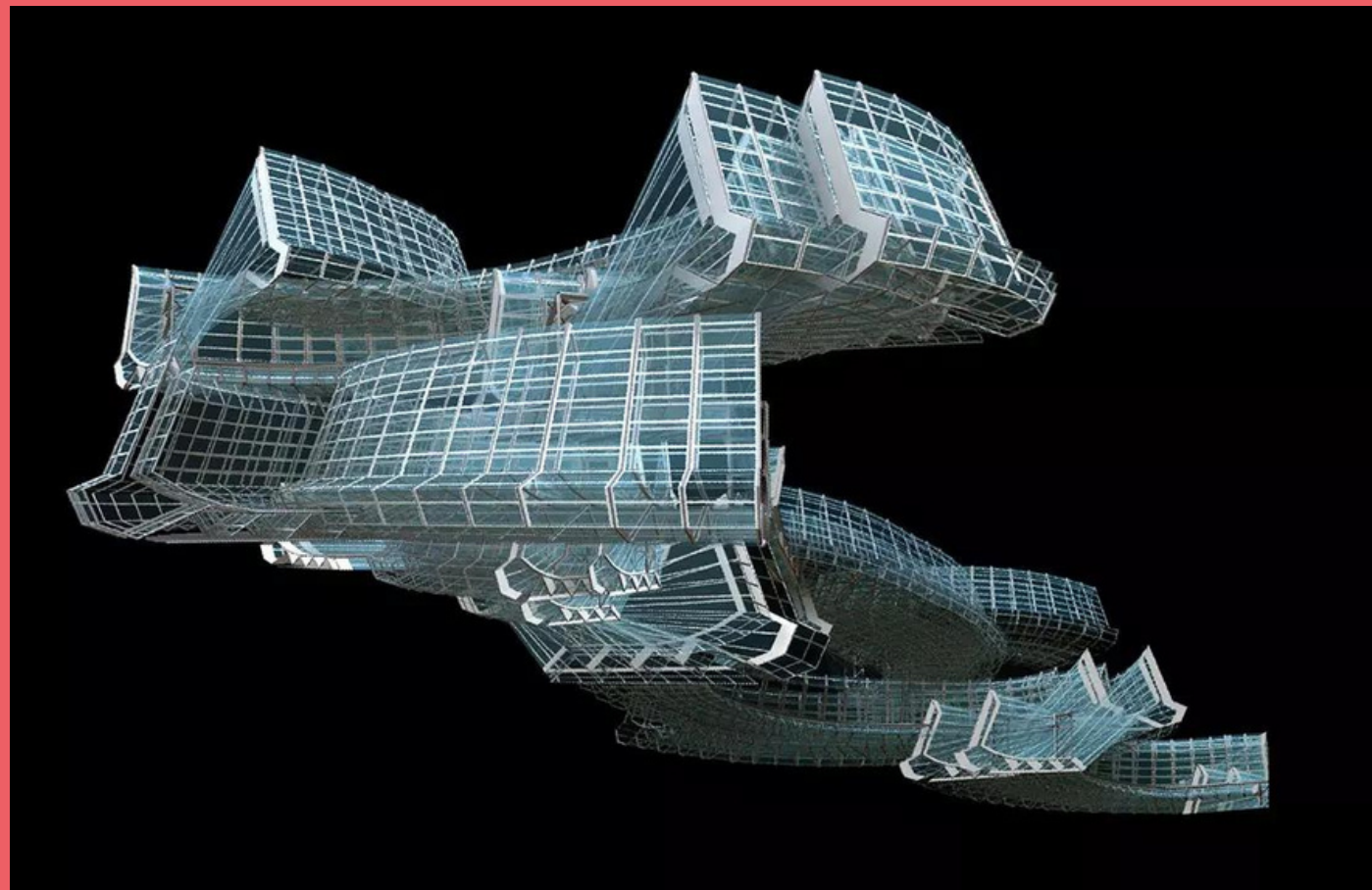
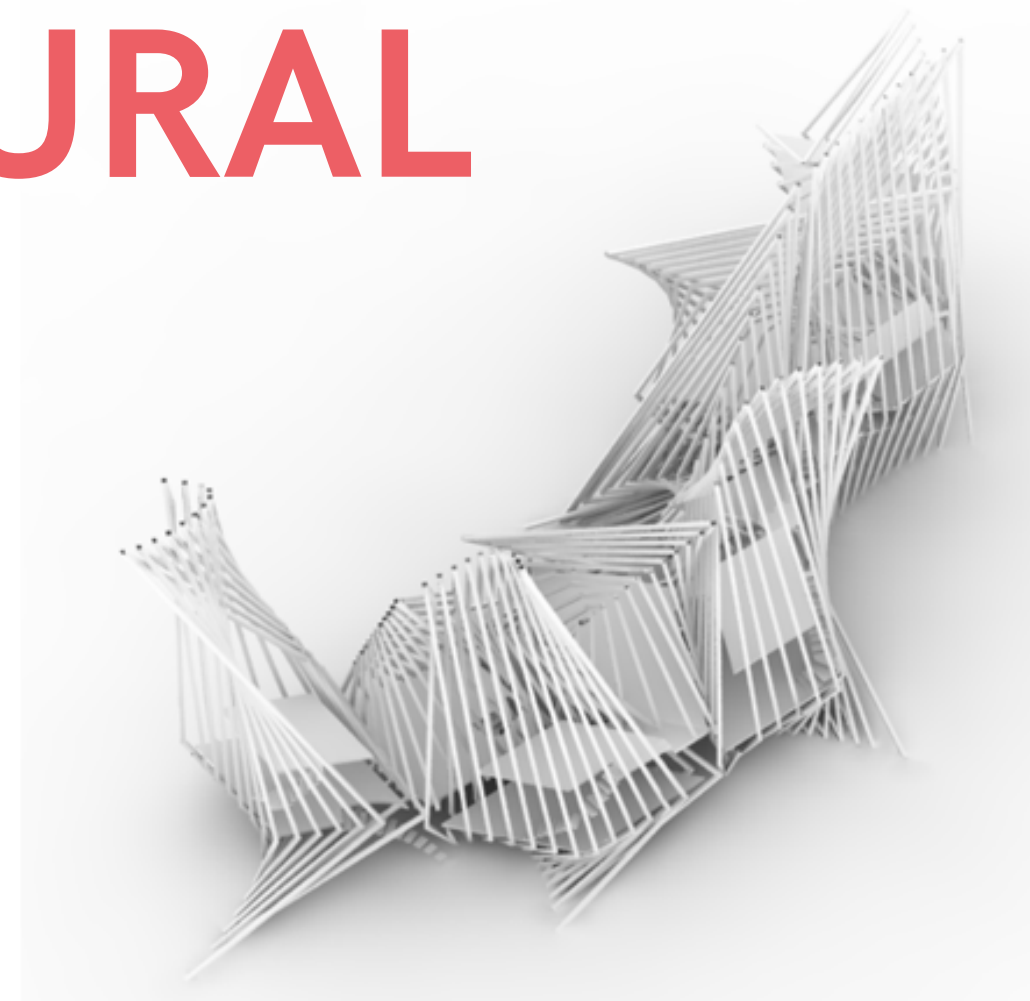
$b \rightarrow ac$

steps: 3

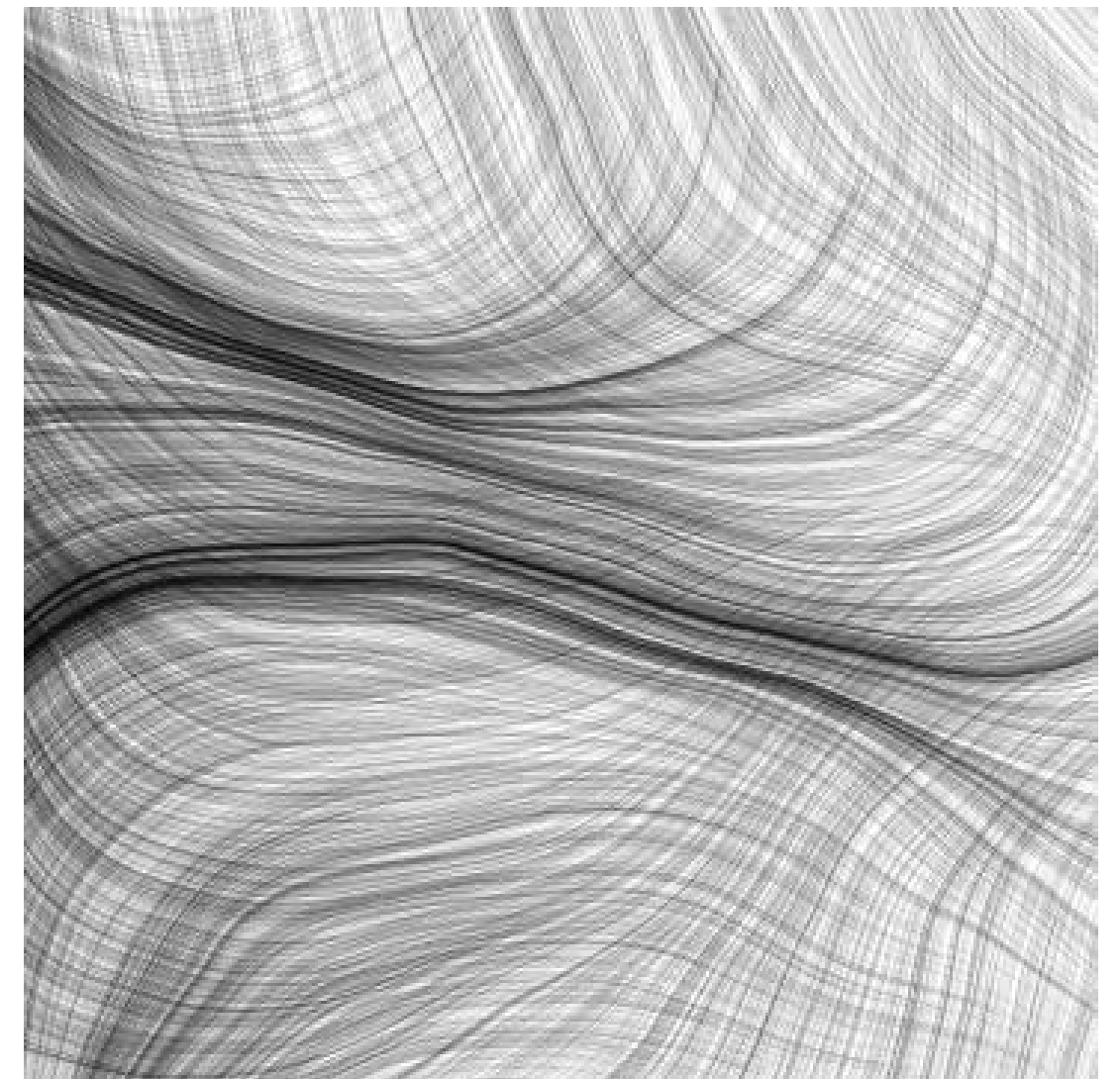
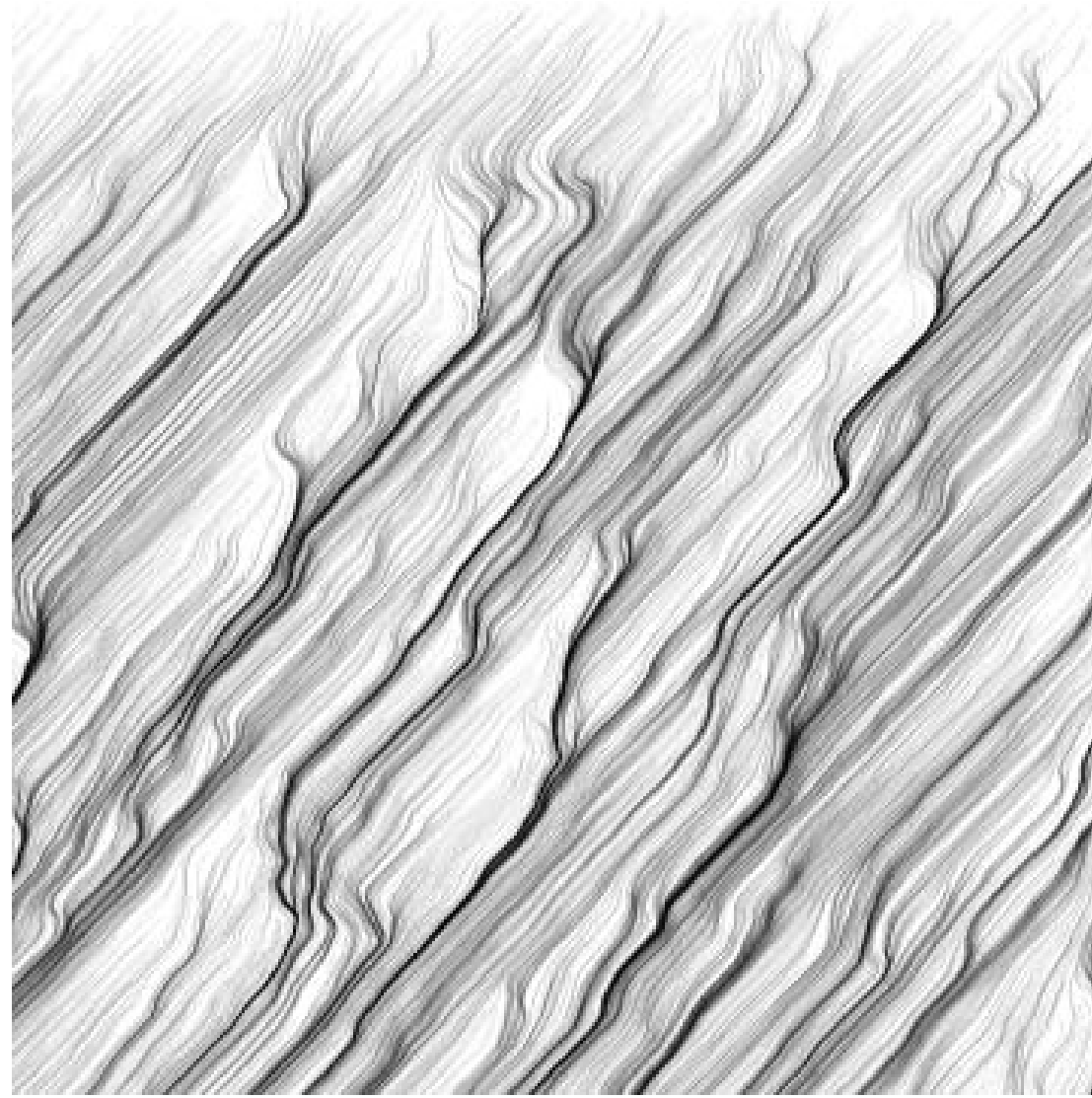
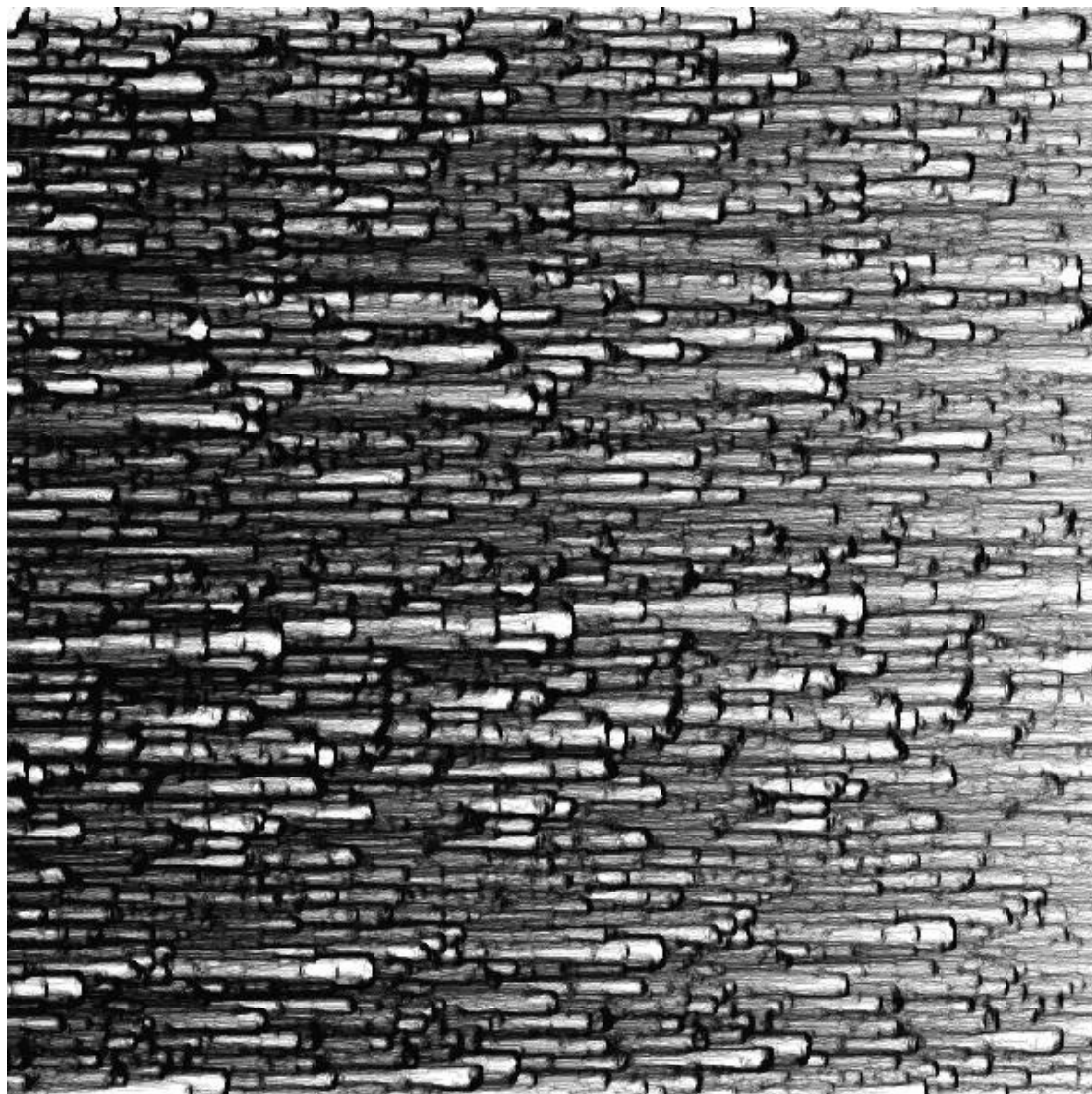


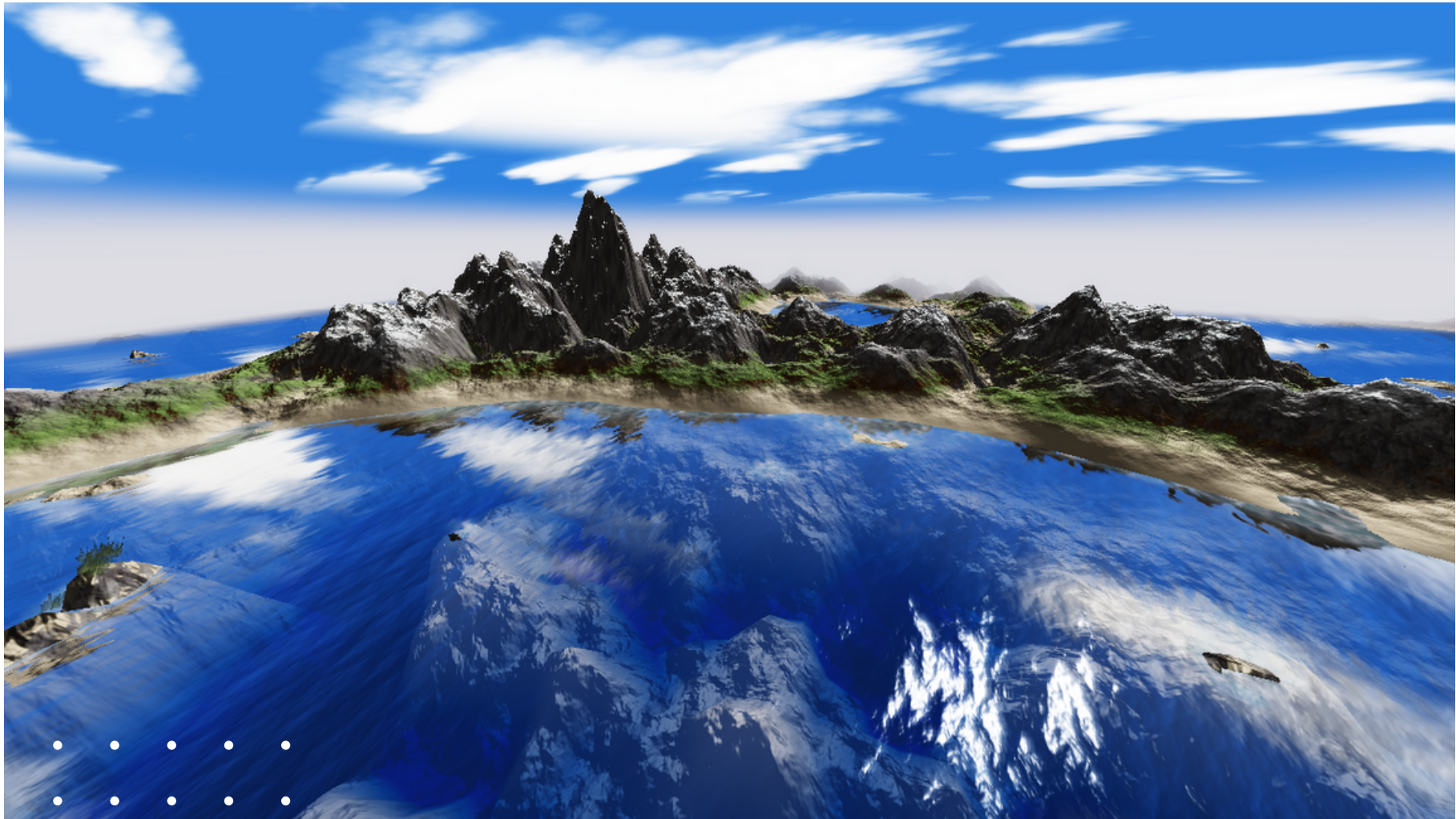


L-SYSTEMS IN STRUCTURAL DESIGN



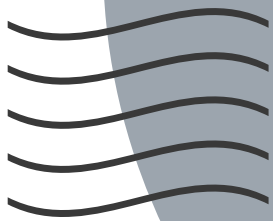
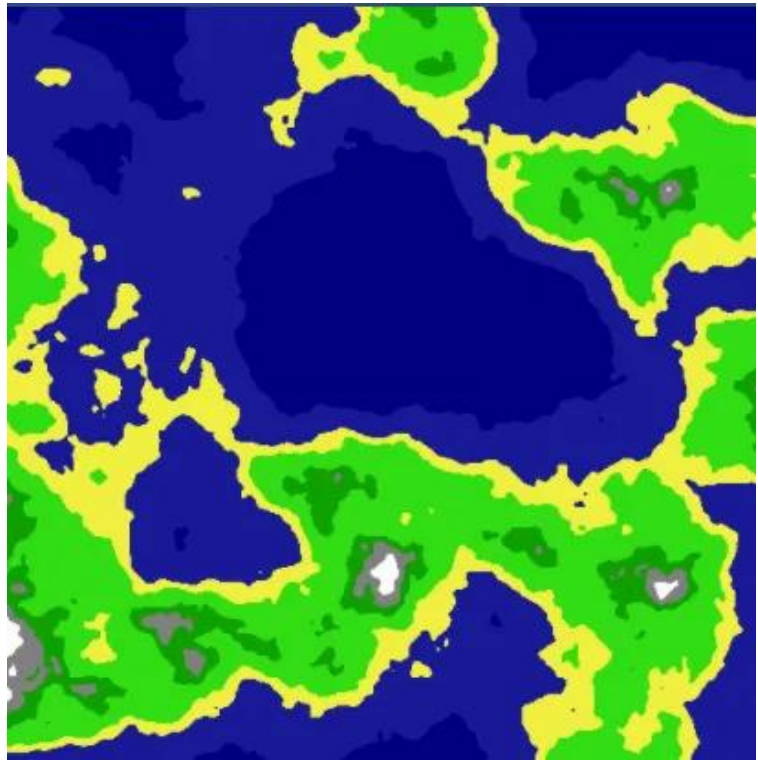
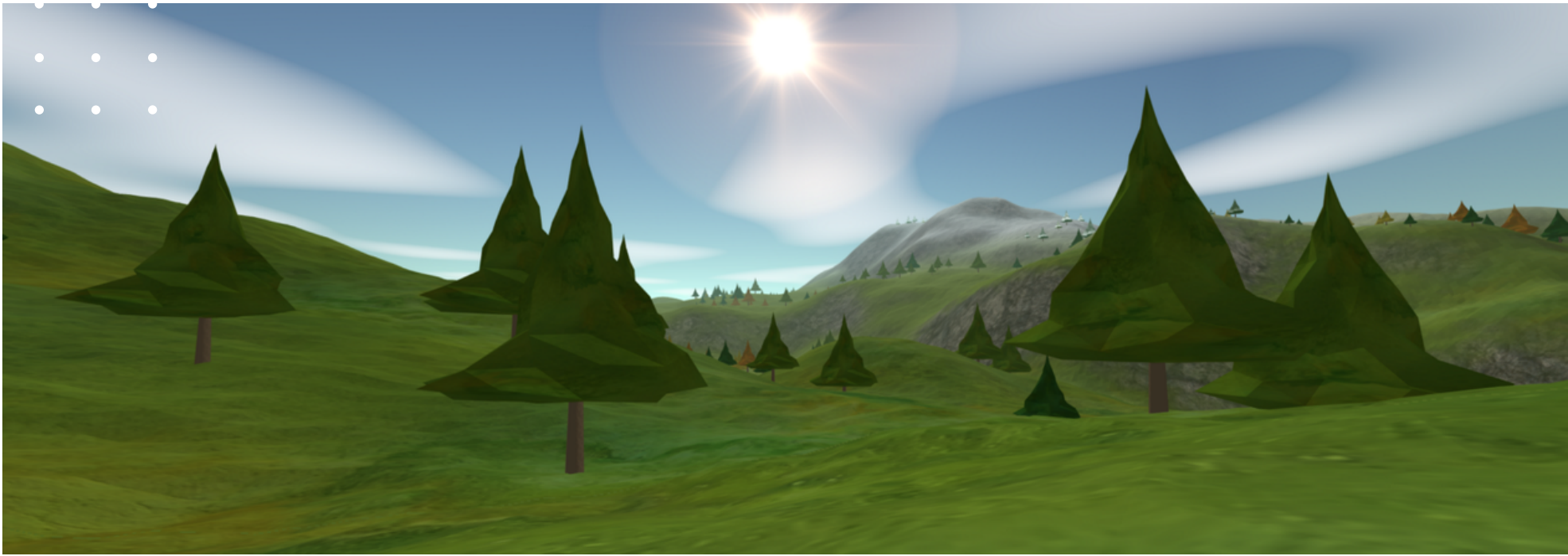
PERLIN & SIMPLEX NOISE





NATURAL LANDSCAPES

for virtual worlds

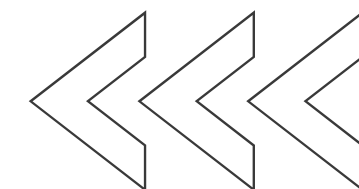
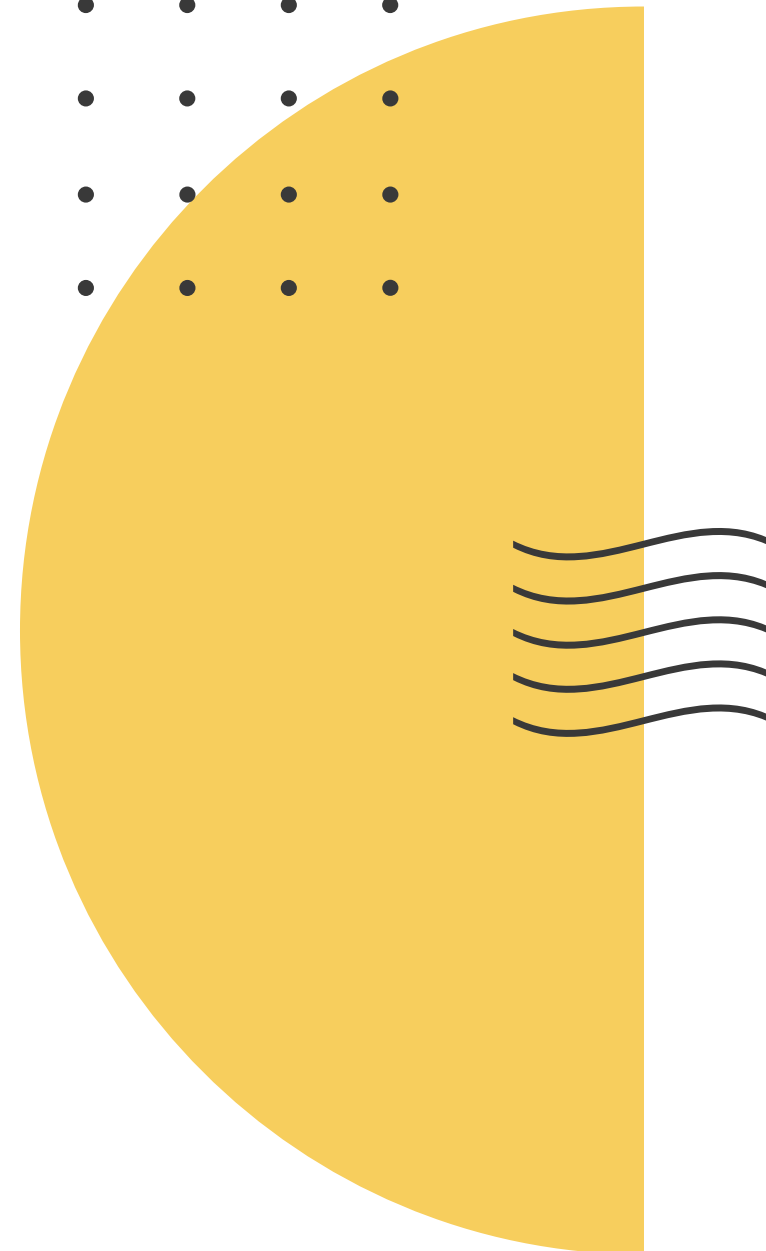


LIVE CODING

Performance art - visual effects and music in projected code



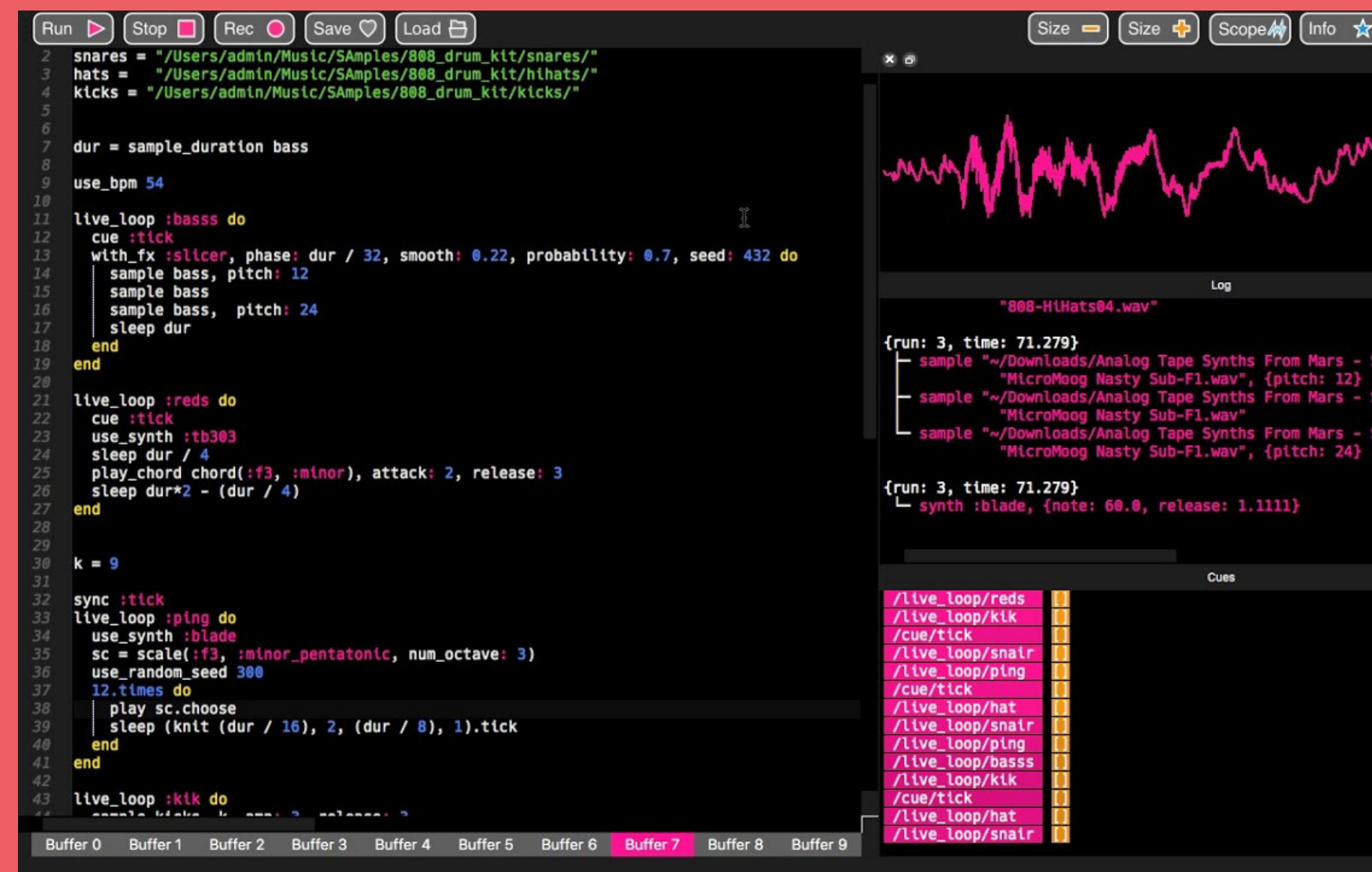
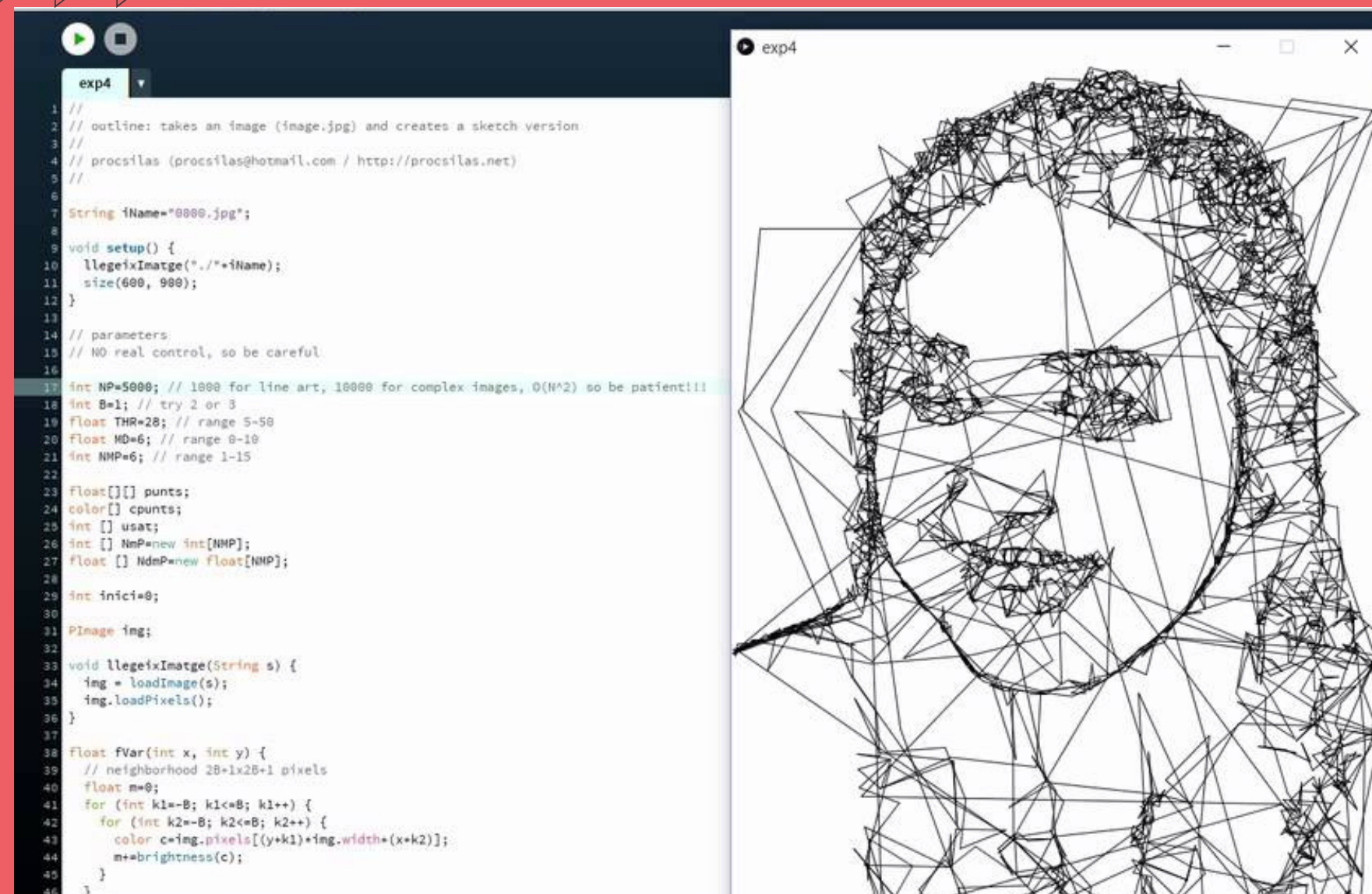
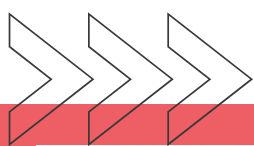
Sam Aaron concert: <https://www.youtube.com/watch?v=G1m0aX9Lpts>



TRY GENERATIVE ART YOURSELF



Processing





CGI

Vladyslav Holubenko



WHAT IS CGI?



Computer-generated imagery

static or animated visual content
created using computer software

ARCHITECTURAL SCENES



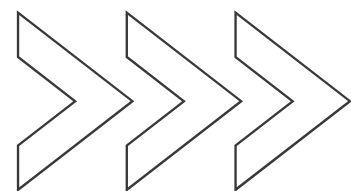
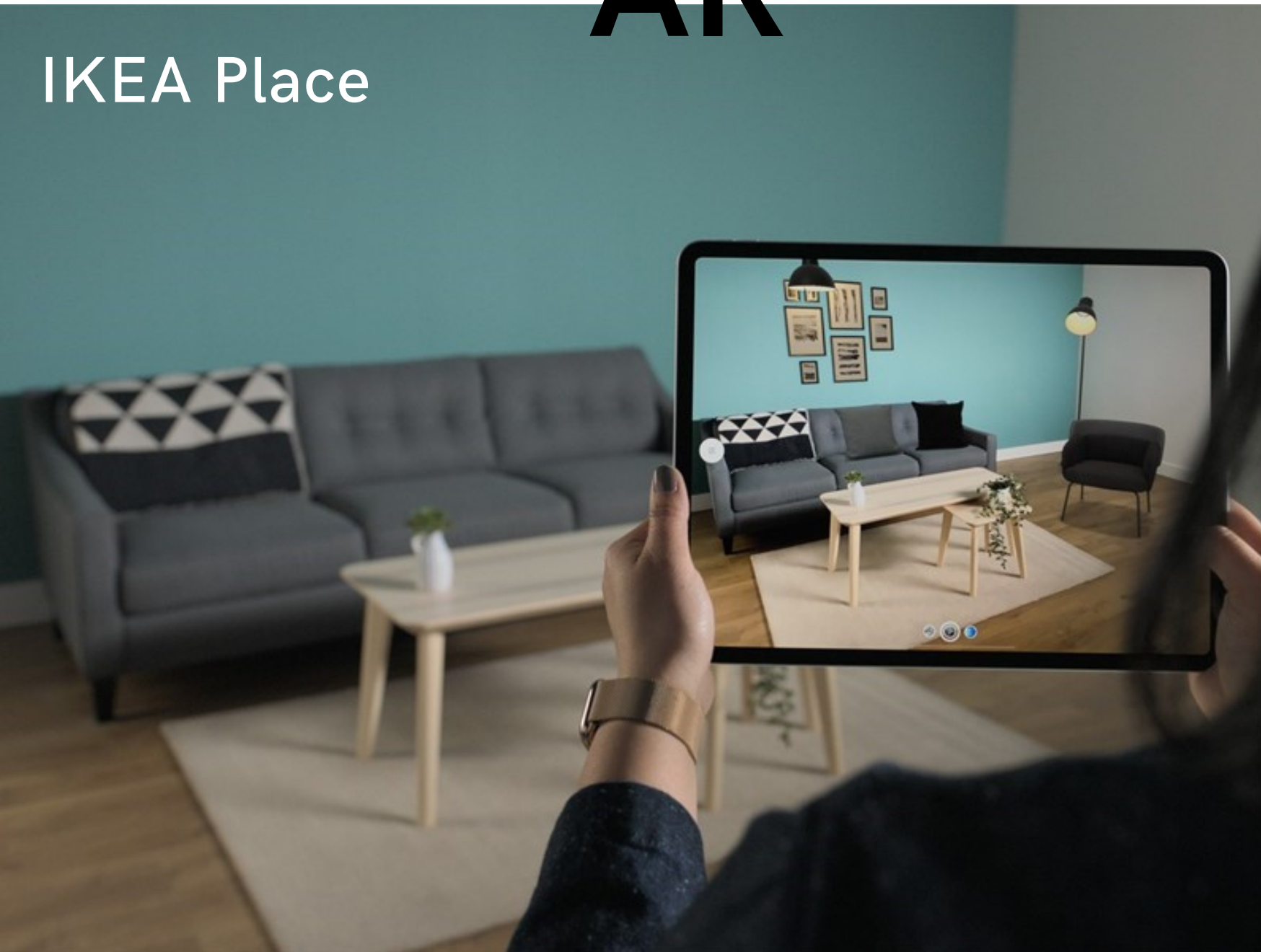
Microsoft Flight Simulator (2020)



SIMULATIONS

AR

IKEA Place



VR

Half-Life: Alyx (2019)



Meta



FILMS AND VIDEO GAMES



Turning Red (2022)



Cyberpunk 2077 (2020)



The Lion King (2019)



Life Hutch. Love, Death & Robots (2021)

MOTION CAPTURE

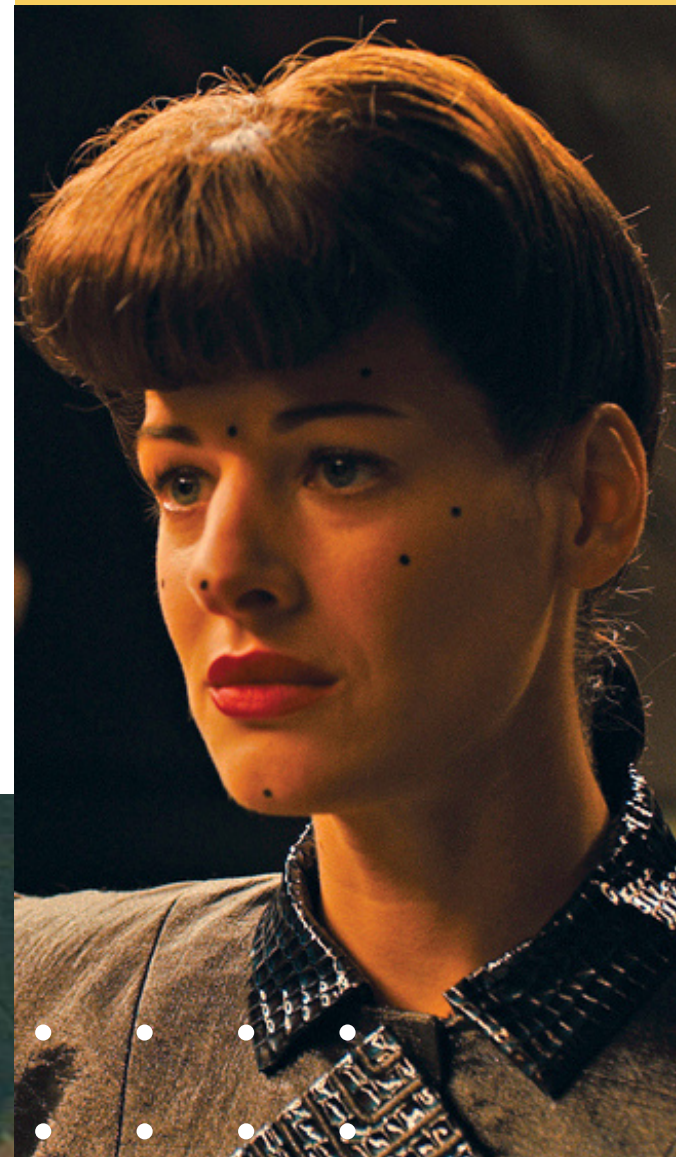


The Lord of the Rings:
The Two Towers (2002)



Dawn of the Planet of the Apes (2014)

FACIAL MOTION CAPTURE



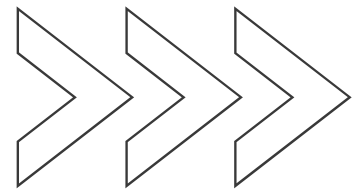
Blade runner 2049 (2017)



DIGITAL FASHION

The latest in fashion is not made with threads and textiles, but with pixels and programs.

Anastasiia Solomiia Hrytsyna

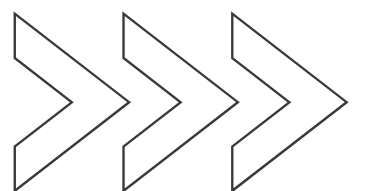
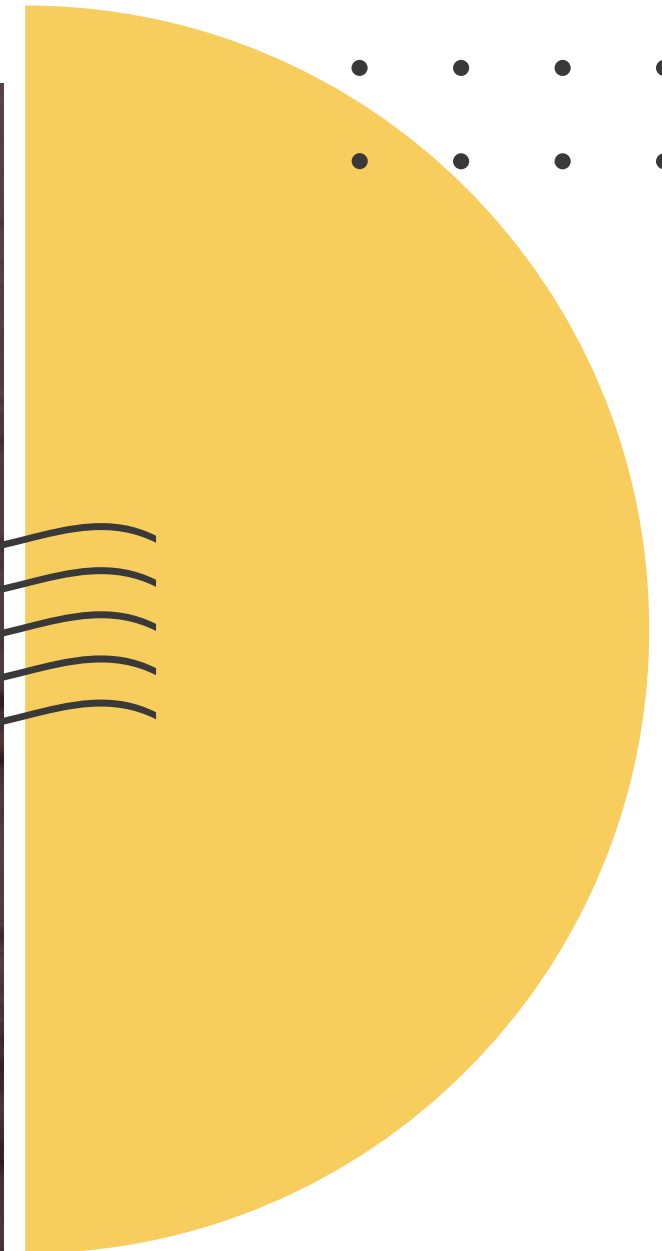
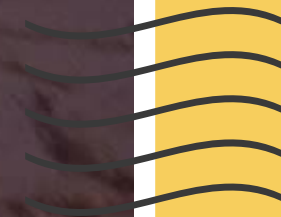


HISTORY

THE FABRICANT

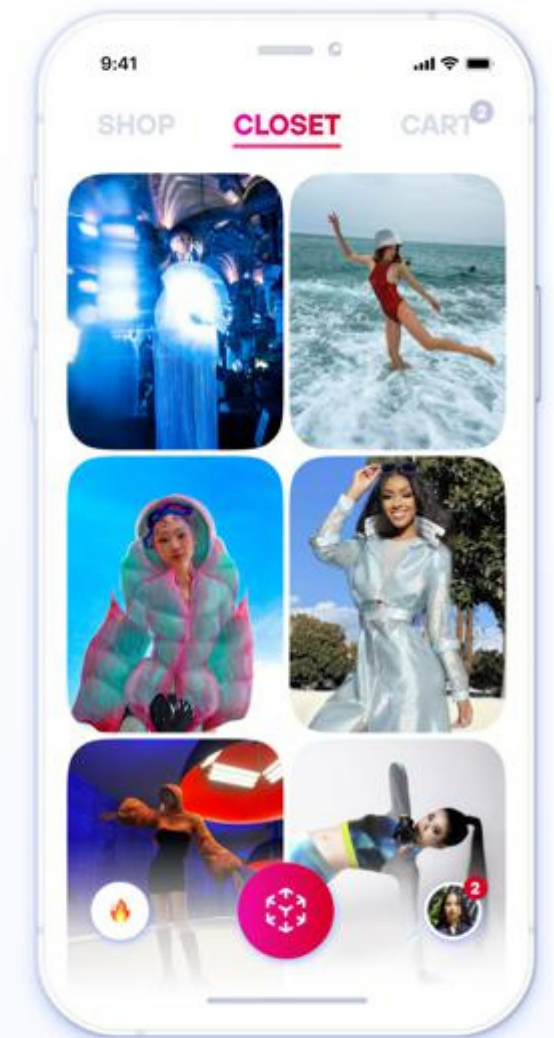
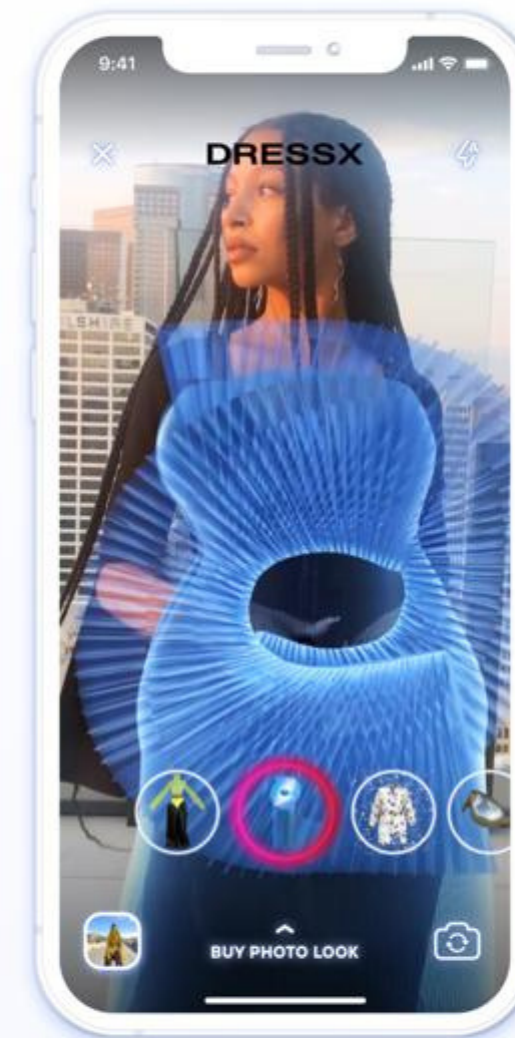
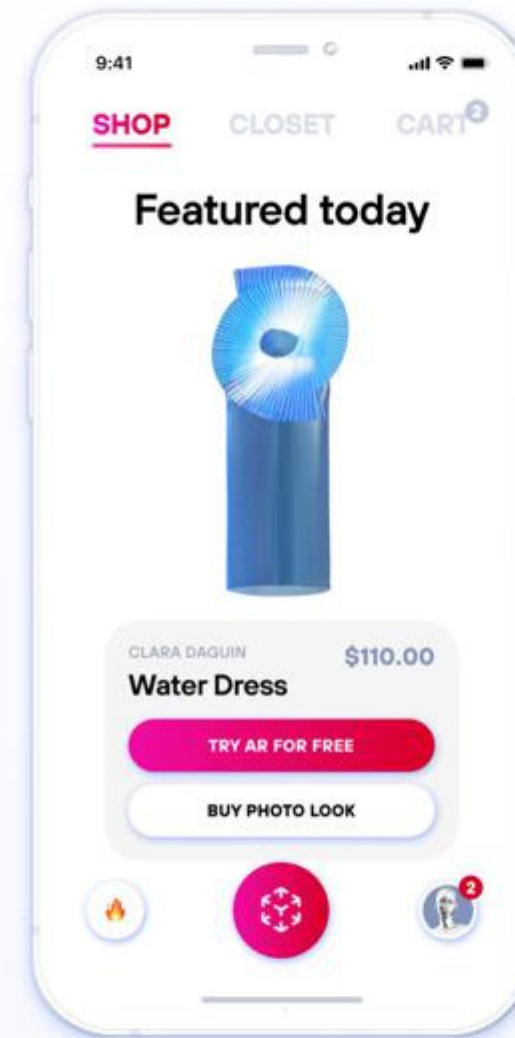
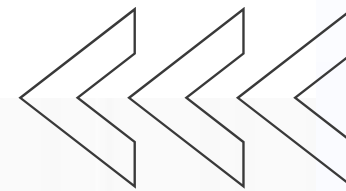


DAY ZERO IS THE DAY THE TAPS RUN DRY





DRESSX



<https://dressx.com/>



REPLICANT

<https://en.replicant.fashion/>



A FEW ADVANTAGES OF DIGITAL FASHION

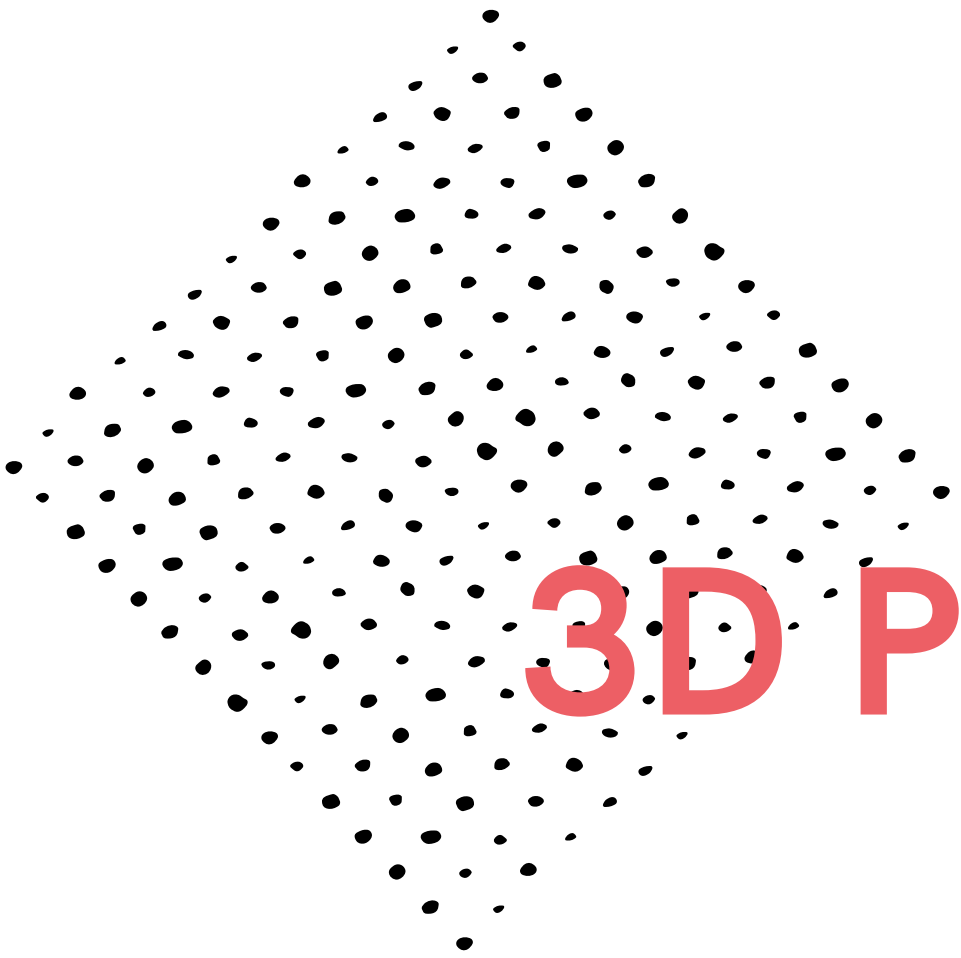
The substitute of fast-fashion
Reduce clothing waste
Less harm to the environment
No industrial water pollution
Luxury items are more affordable
All sizes inclusive



FUTURE

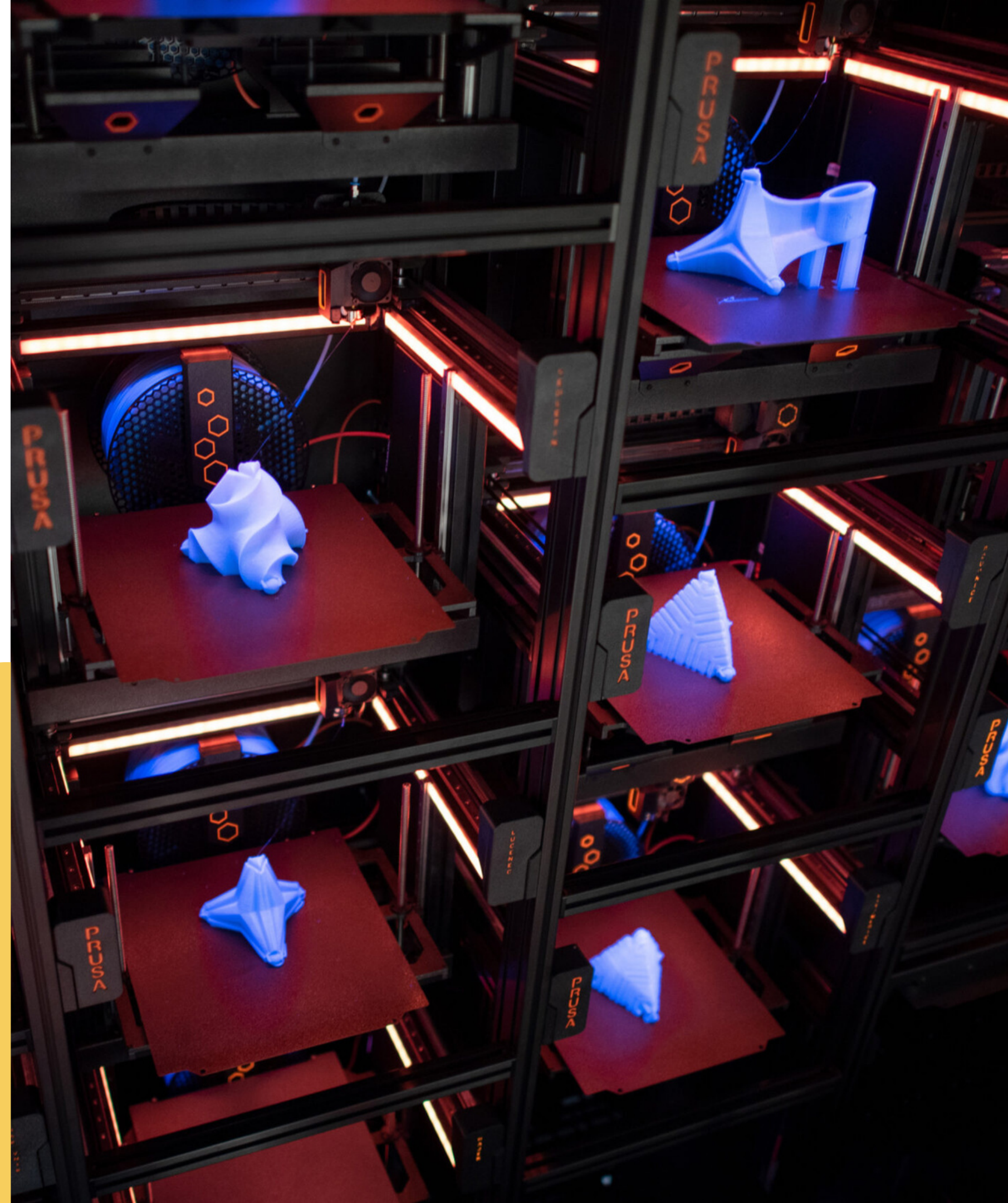


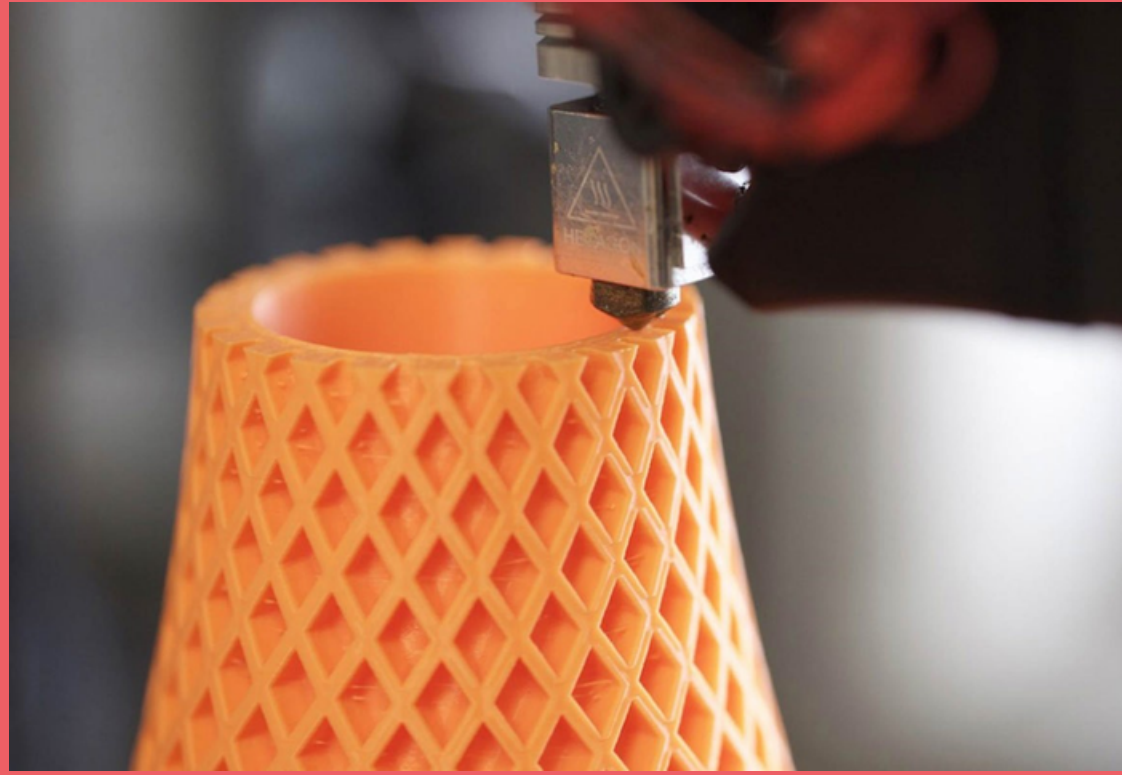
<https://blog.loomly.com/digital-clothing/#:~:text=Digital%20clothing%20isn't%20made,and%20order%20something%20you%20like.>



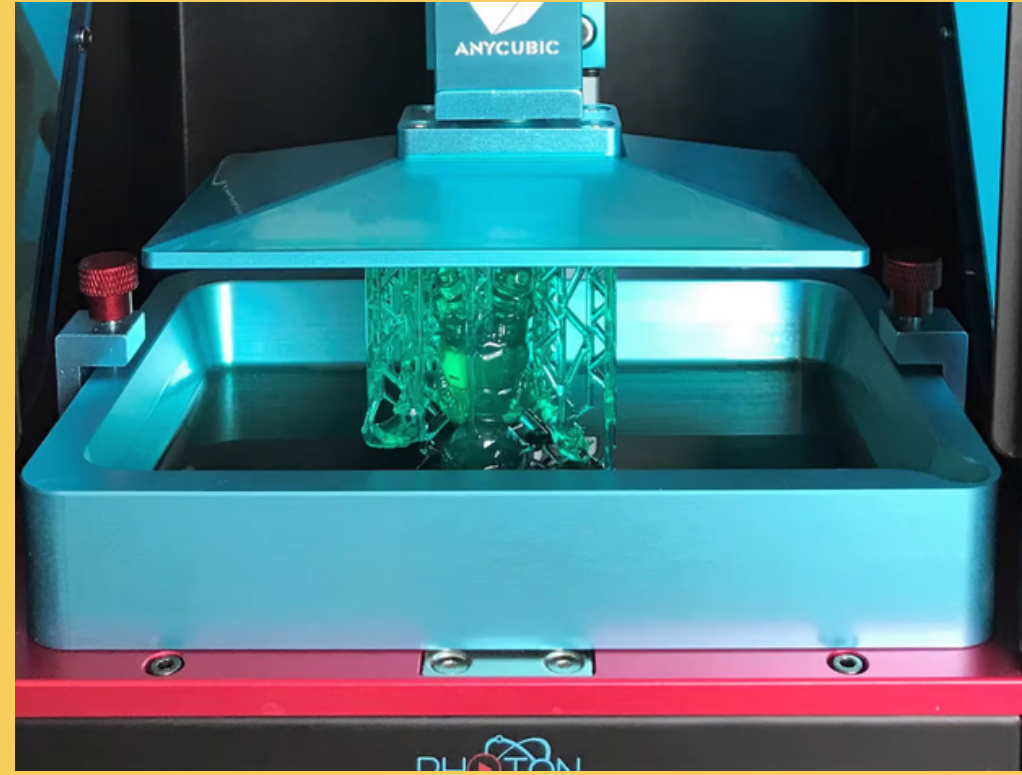
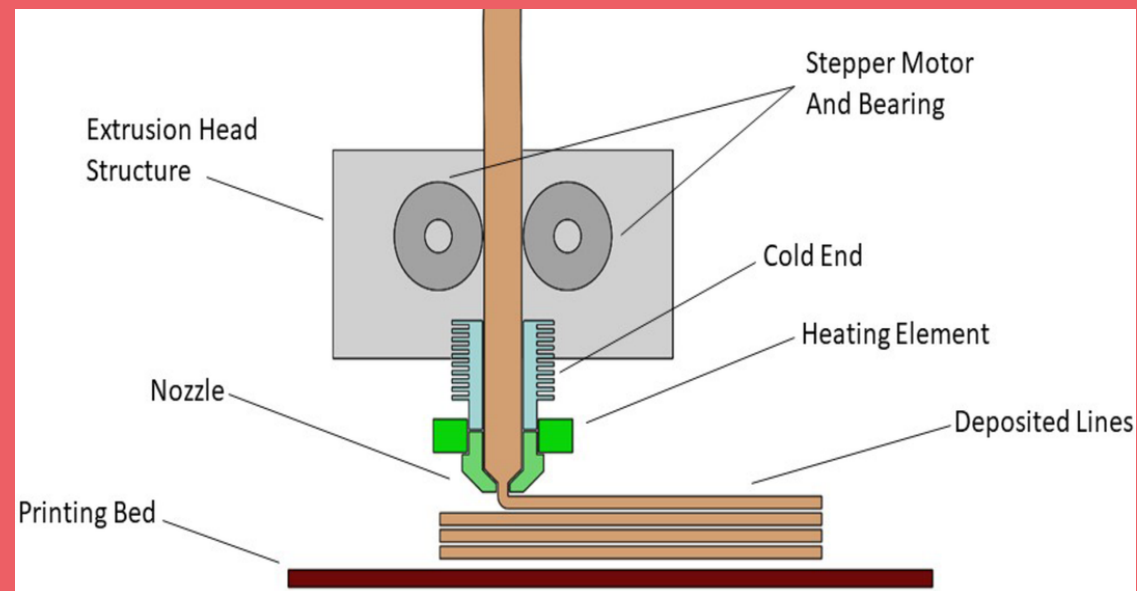
3D PRINTING

Daniel Havel

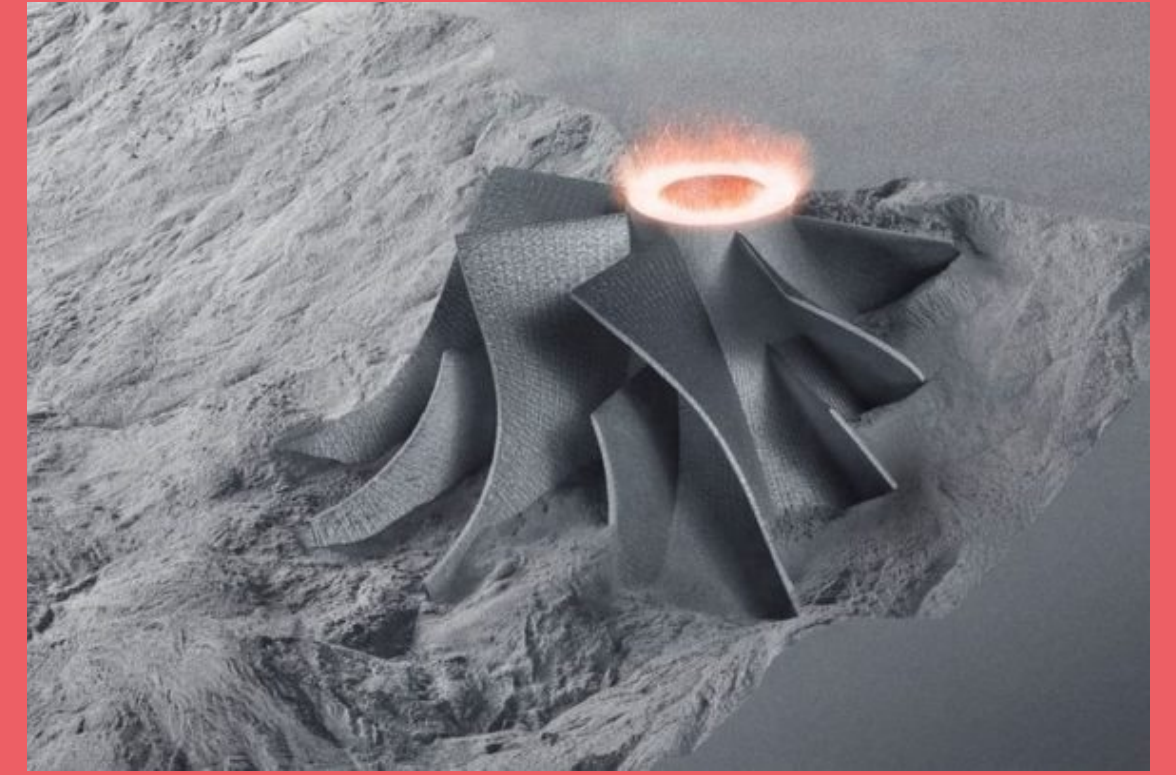
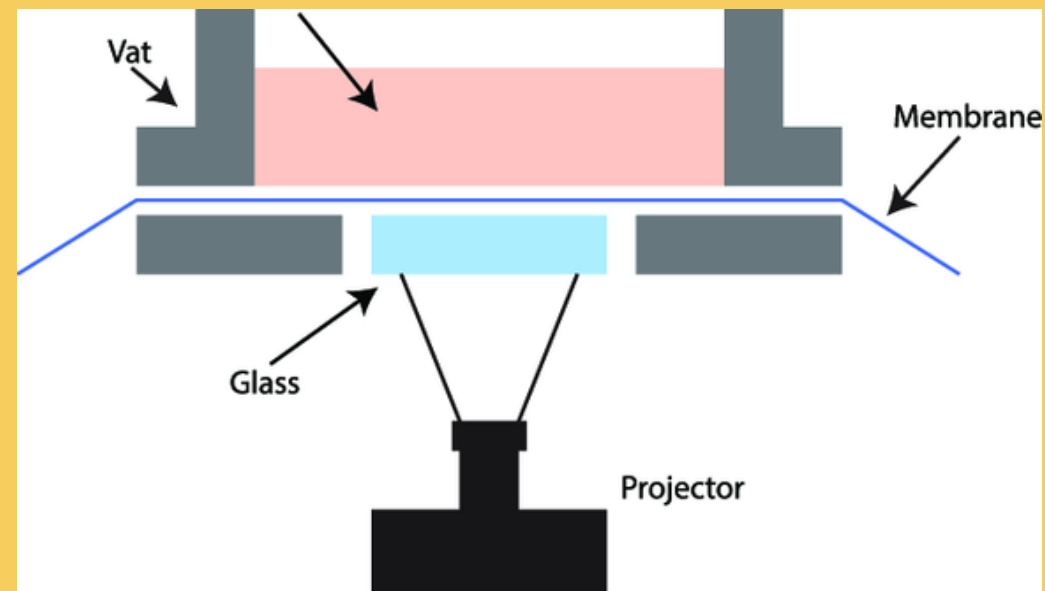




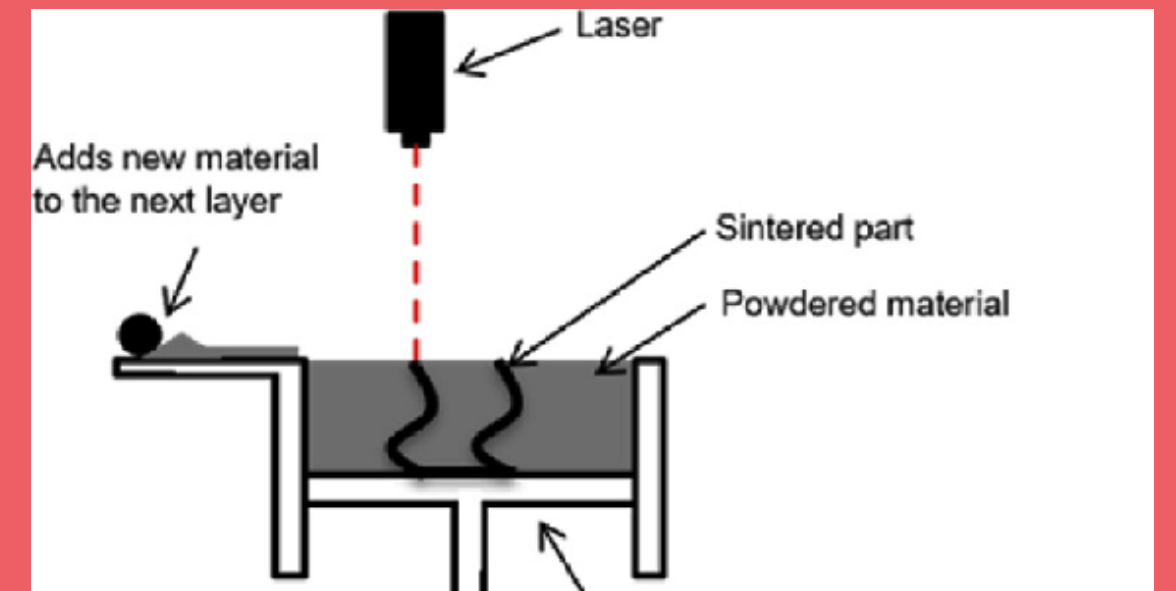
FDM



SLA

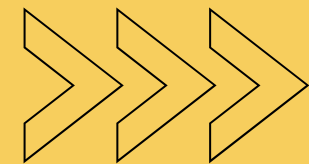


SLS

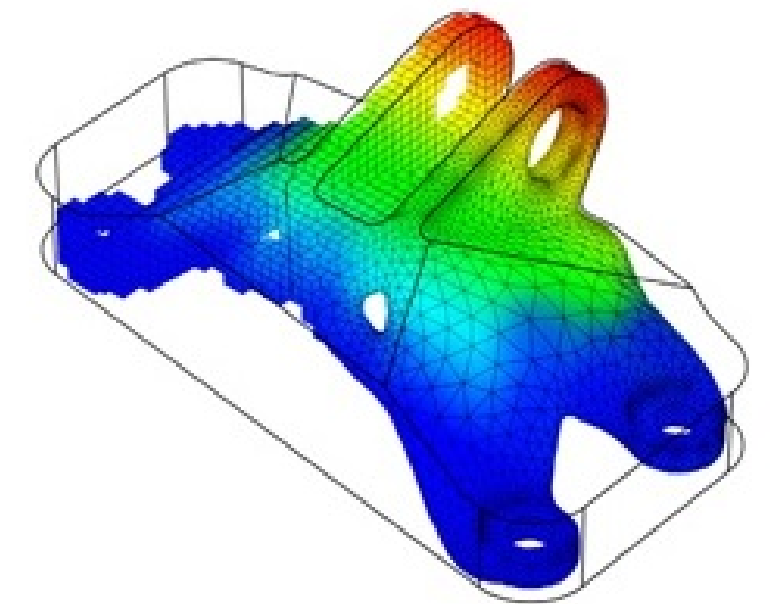
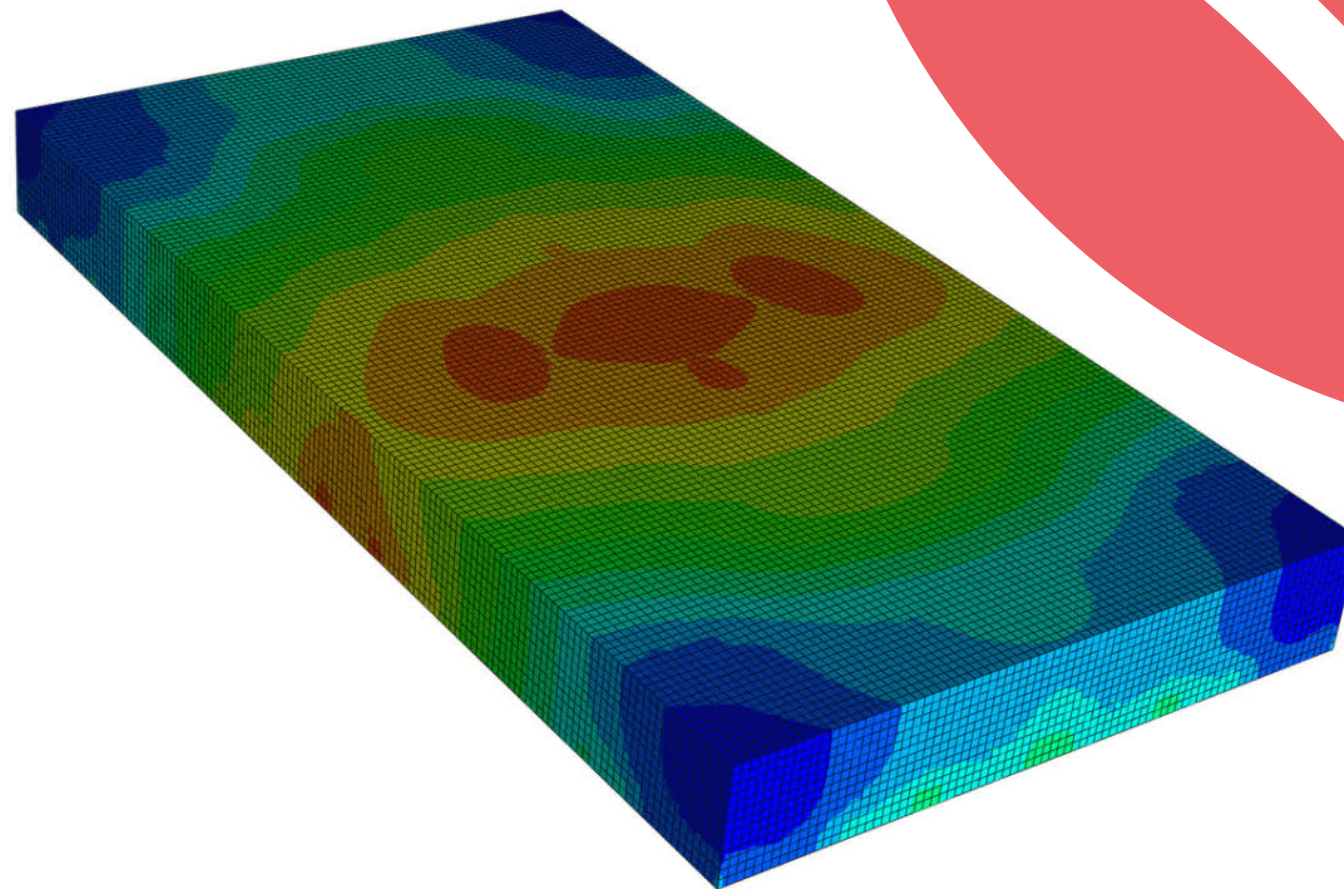




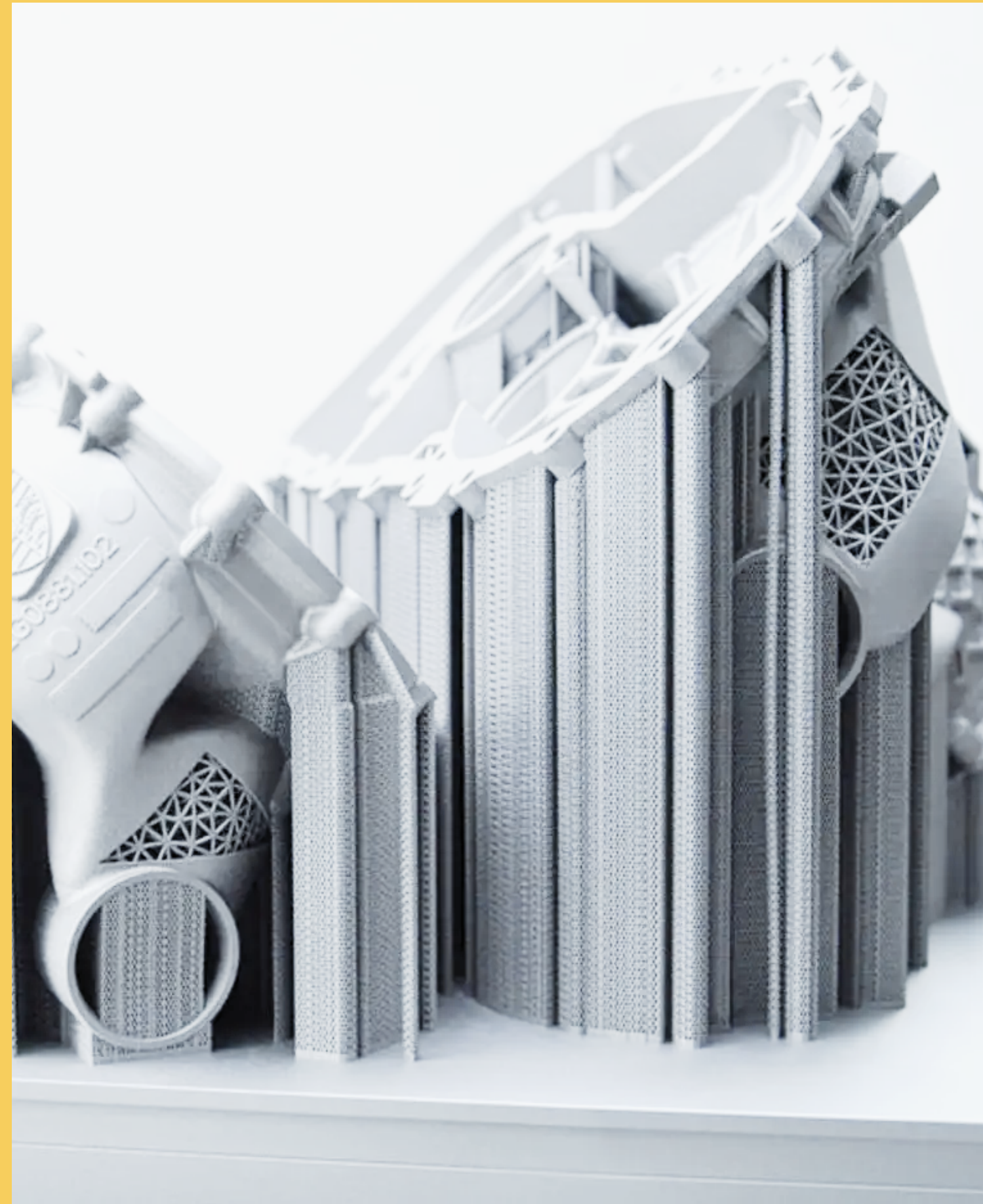
JEWELRY



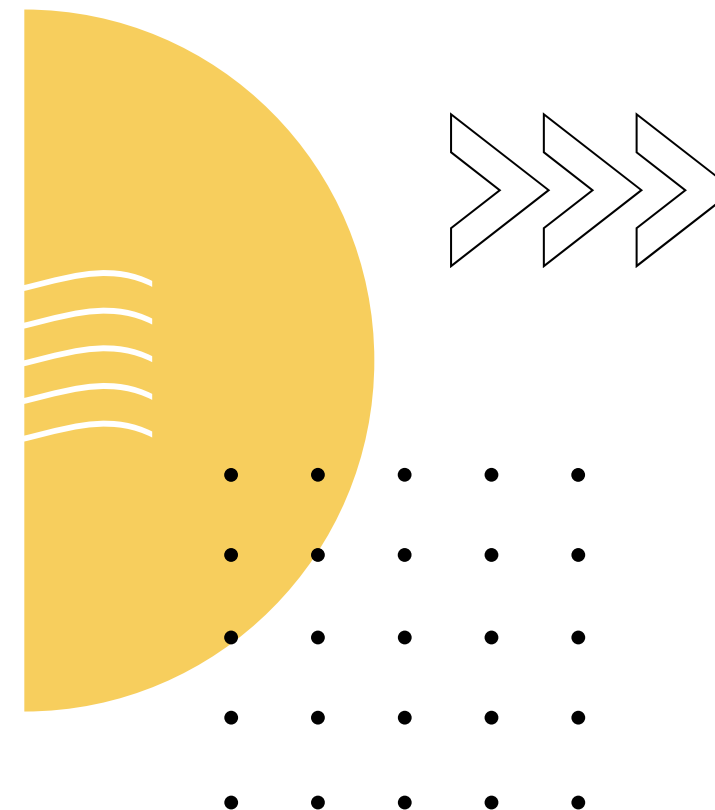
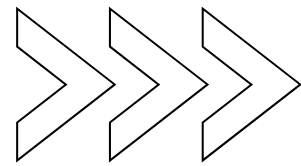
TOPOLOGY OPTIMIZATION



CAR INDUSTRY



ARCHITECTURE



DISCUSSION

