

עמודים

הכל חייב להיות פרמטרי ושלכם (!) לא להוריד קוד מהאינטרנט ולהגיש אותו

מה צריך להגיש:

- קוד גראסהופר
- מסמך של אותו הקוד 3 אופציות לעמוד (רק לשנות ערכים, לא קומפוננטים)
- רנדור / הדפסה תלת מימד או רזין של עמוד אחד כדוגמא

משימות אפשריות:

- עמוד אורנמנטלי
- עמוד עם תנועה curves
- עמוד עם דגש על עיצוב טקסטורה
- עמוד עם החסרה של חומר, פני שטח מינימליים
- עמוד מעוצב עם ה"חסרונות" של הדפסה - טפטופים, לופים

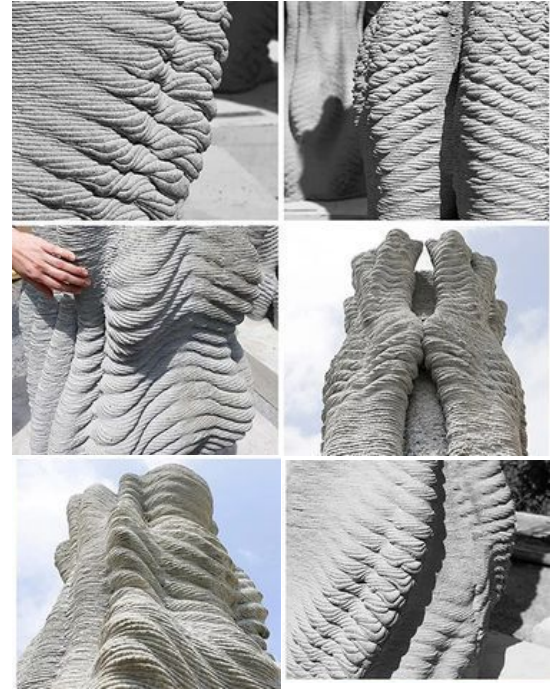
- Complex design
- Extreme detail
- Make sure its possible to print



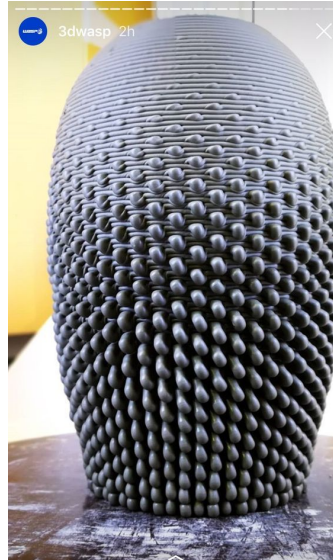


Columns - assignment 1: Extreme Ornamental

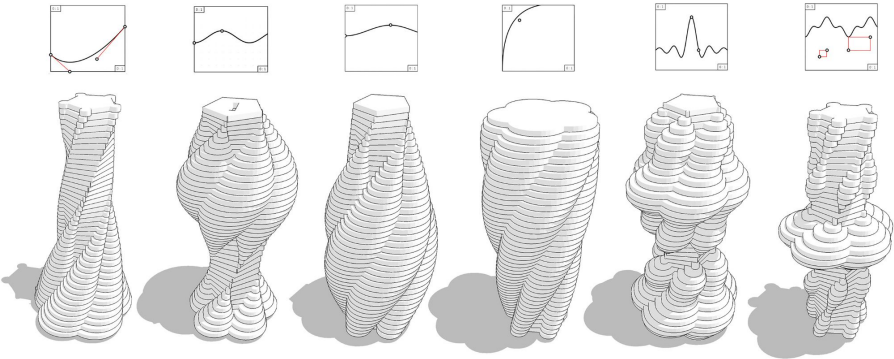




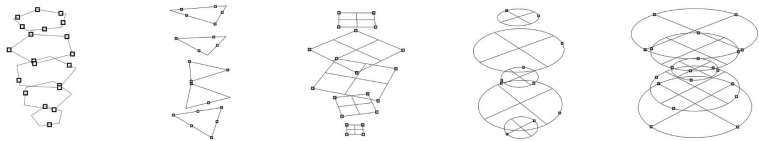
- Overhang to create movement
- Make sure its printable
- Change speed to get more material in certain places?



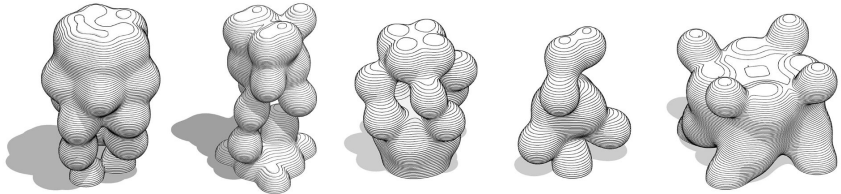
Variations Graphs "Scale Graphs":



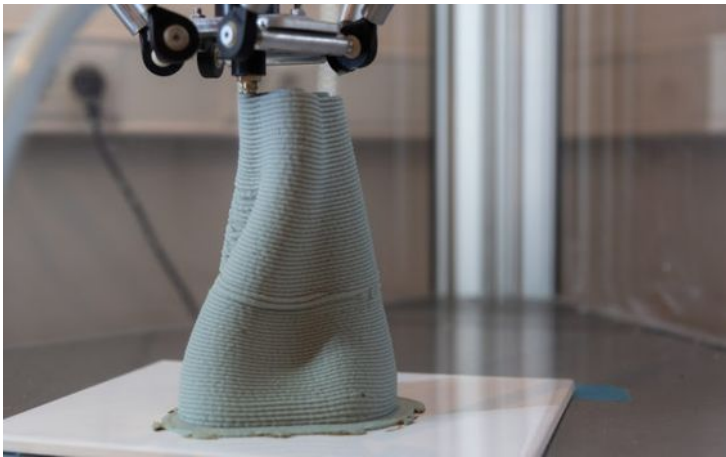
Points Organization



Metaballs



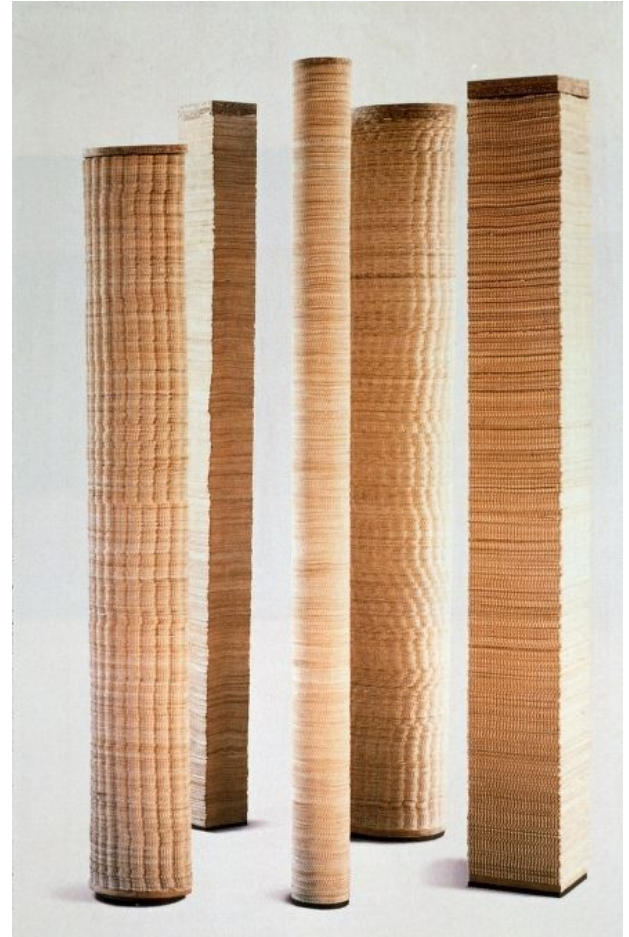
Columns - assignment 2: Curves and movement







- Design complex texture for the “facade” of the column

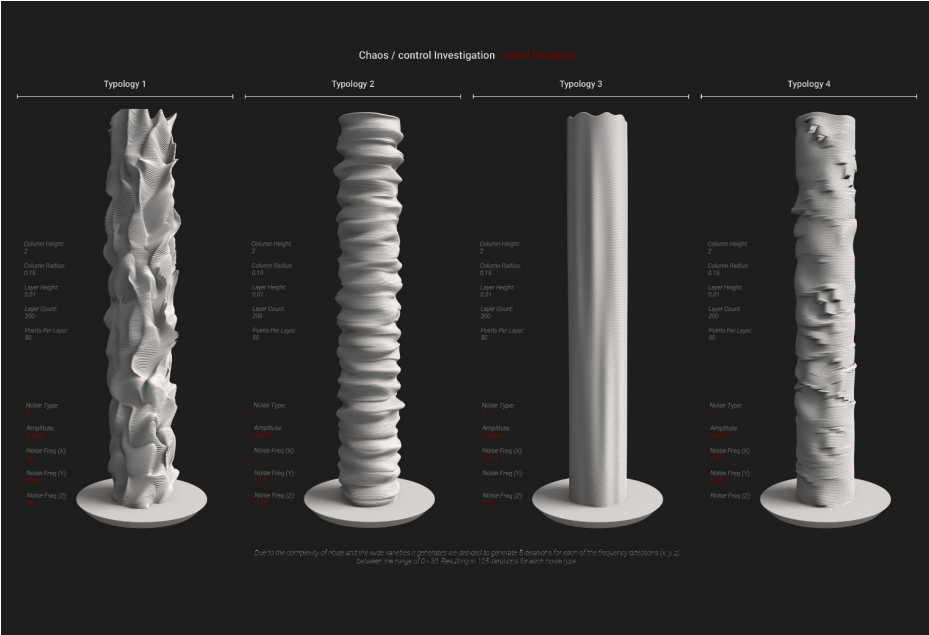
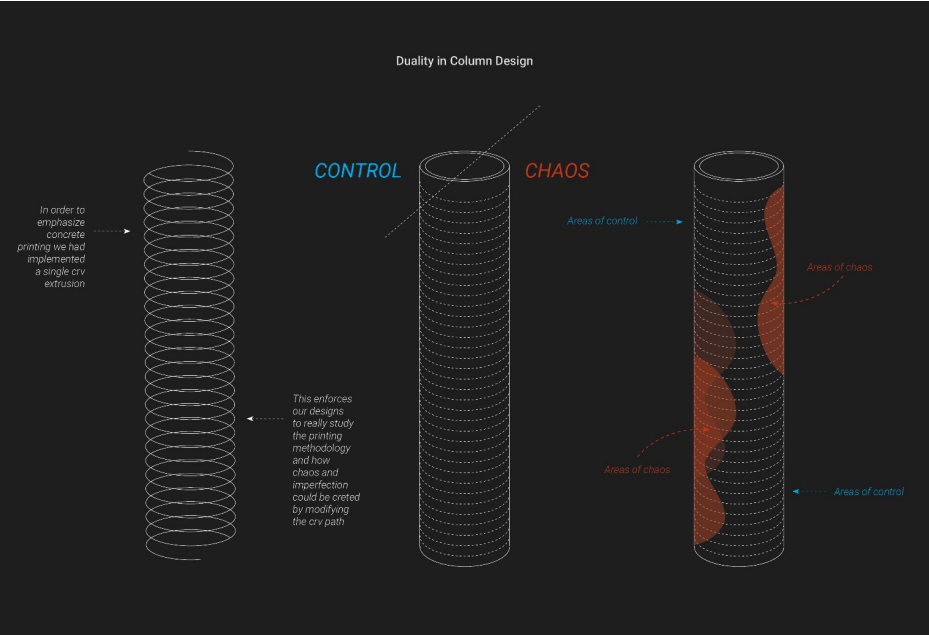






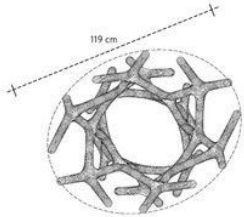
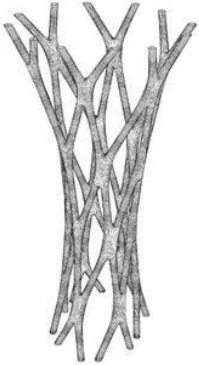
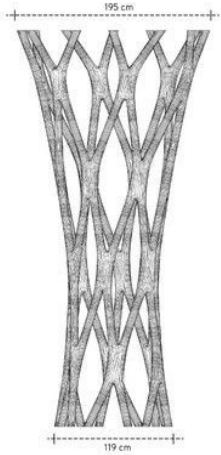
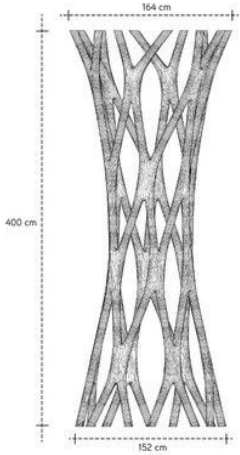


Columns - assignment 3: Texture



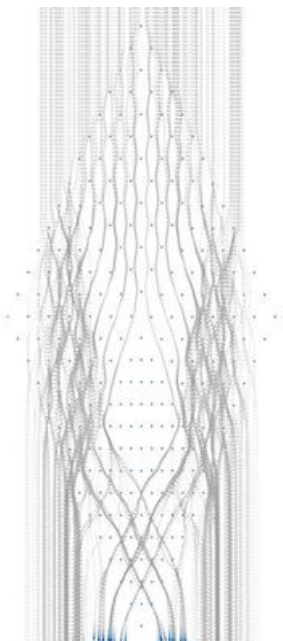
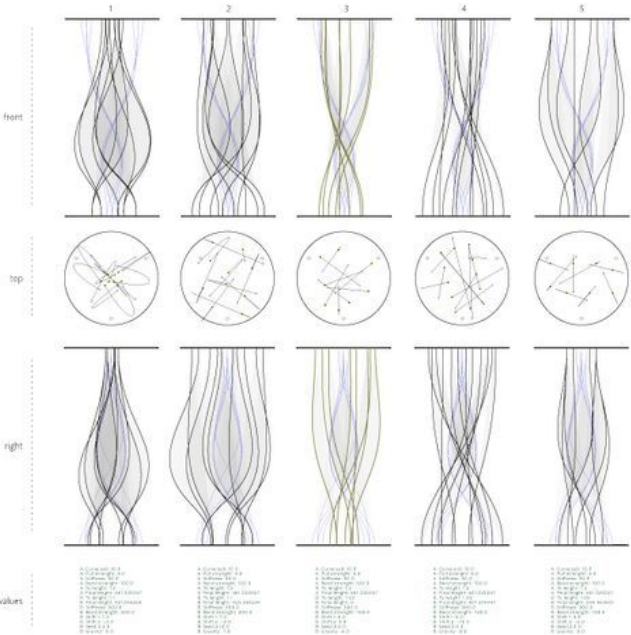
- Design a way to reduce material in the column
- Make sure its still printable

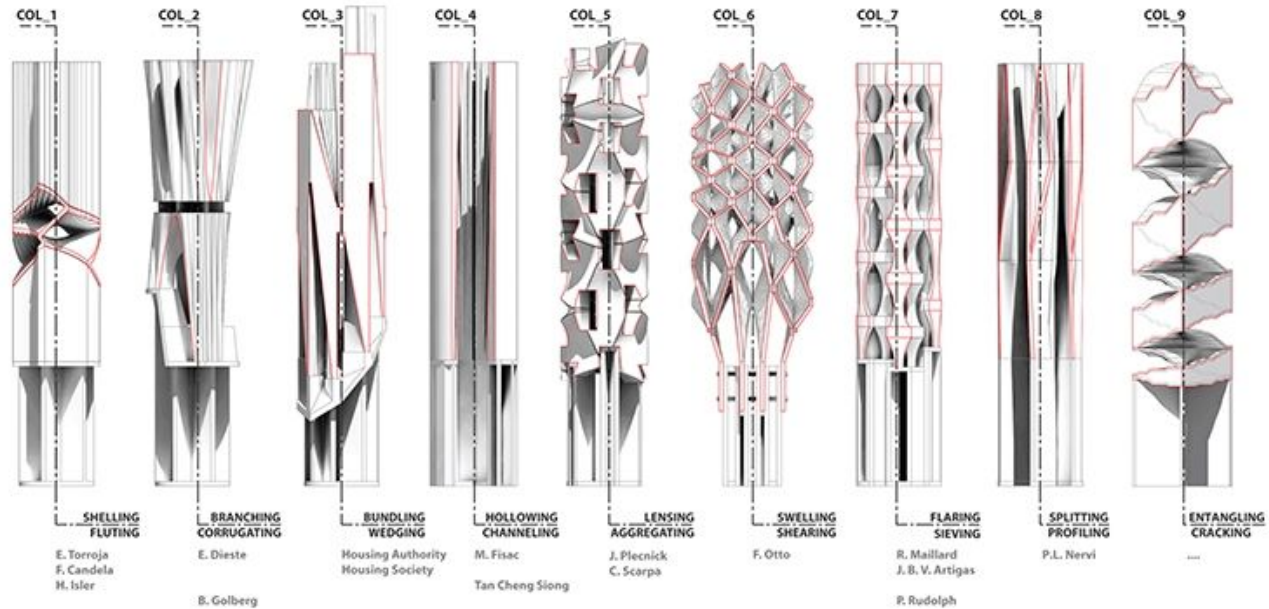


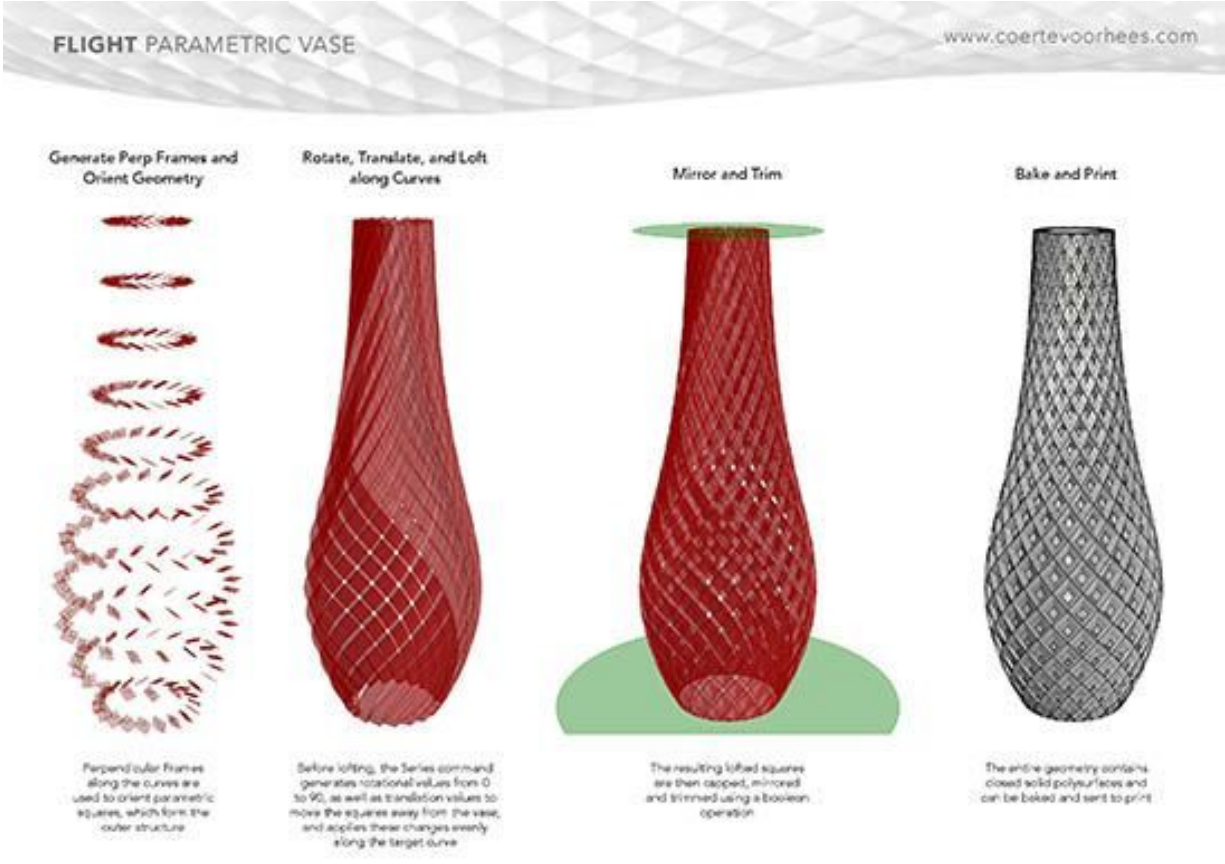


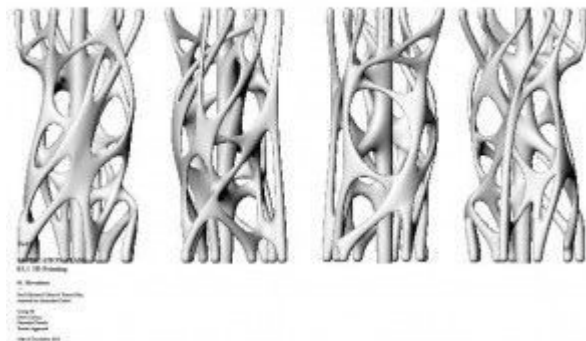
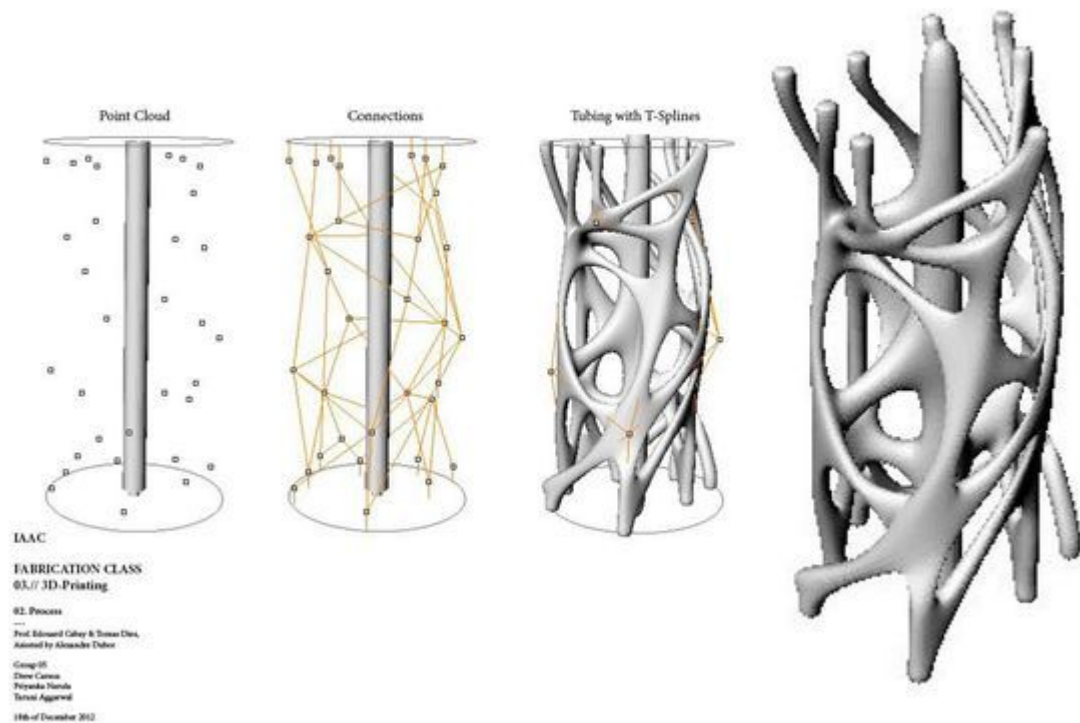
XtreeE[®]
The large-scale 3^d

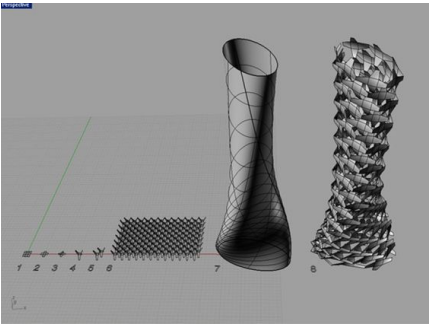
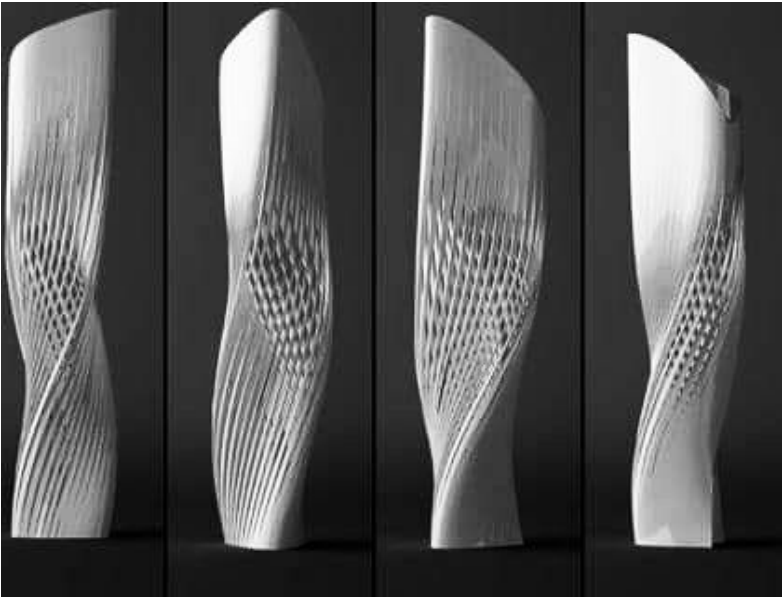
hierarchy





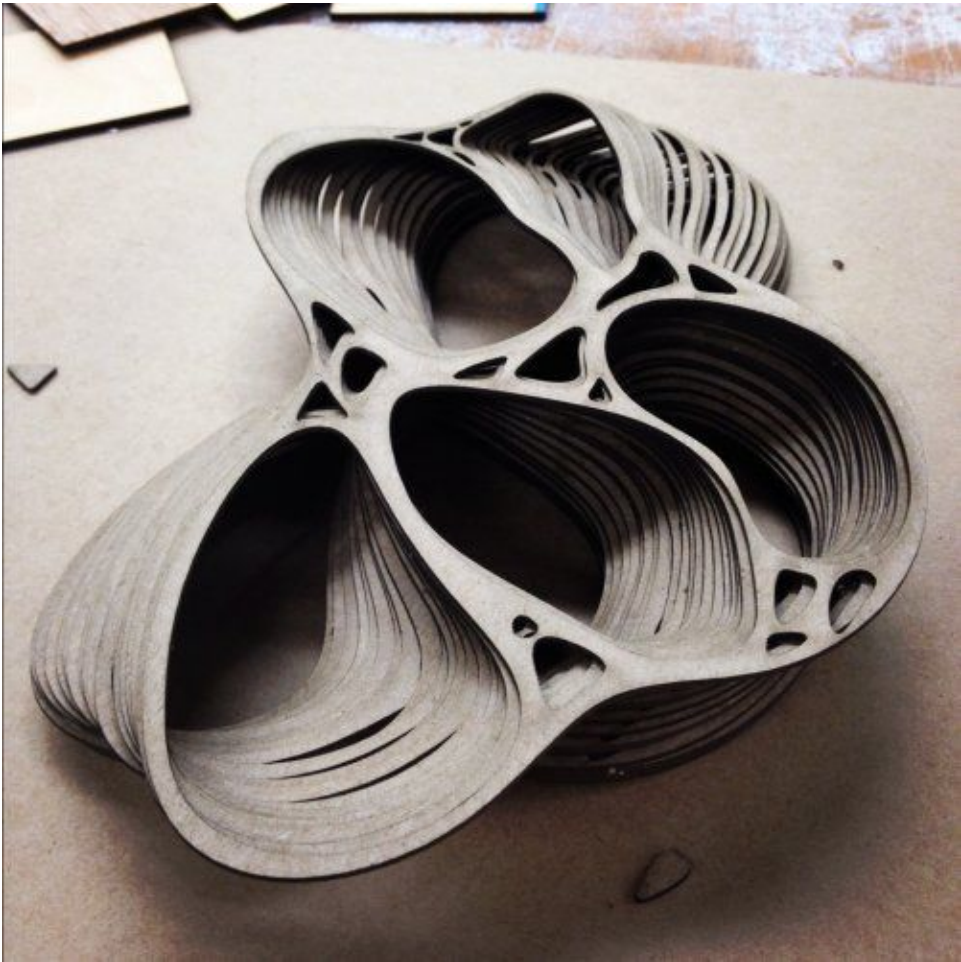
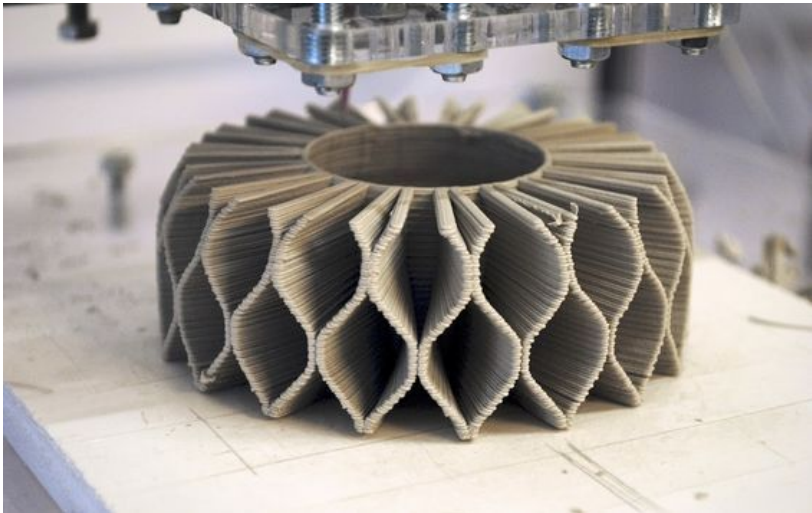




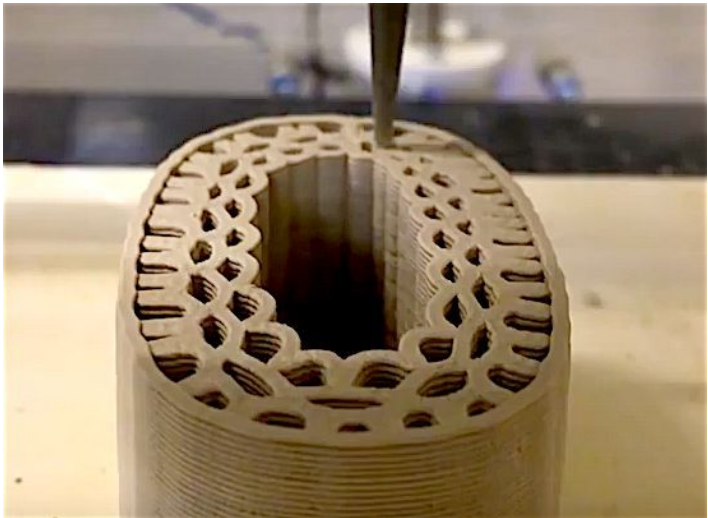
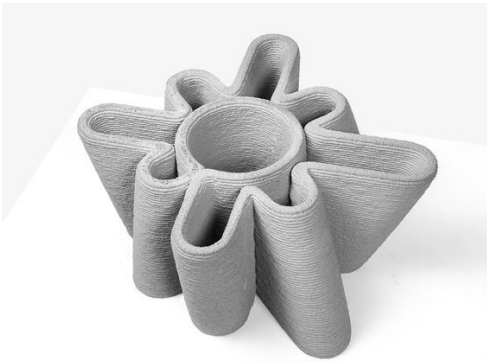


SubD Object

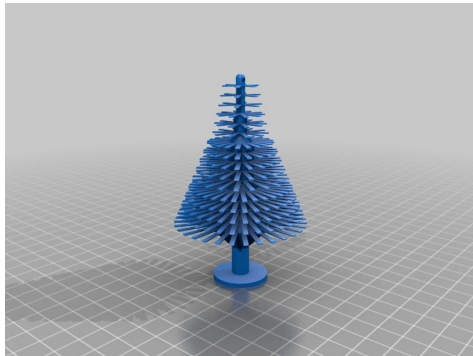
<https://rwnbmultiplicity.wordpress.com/2011/09/13/subd-object/>



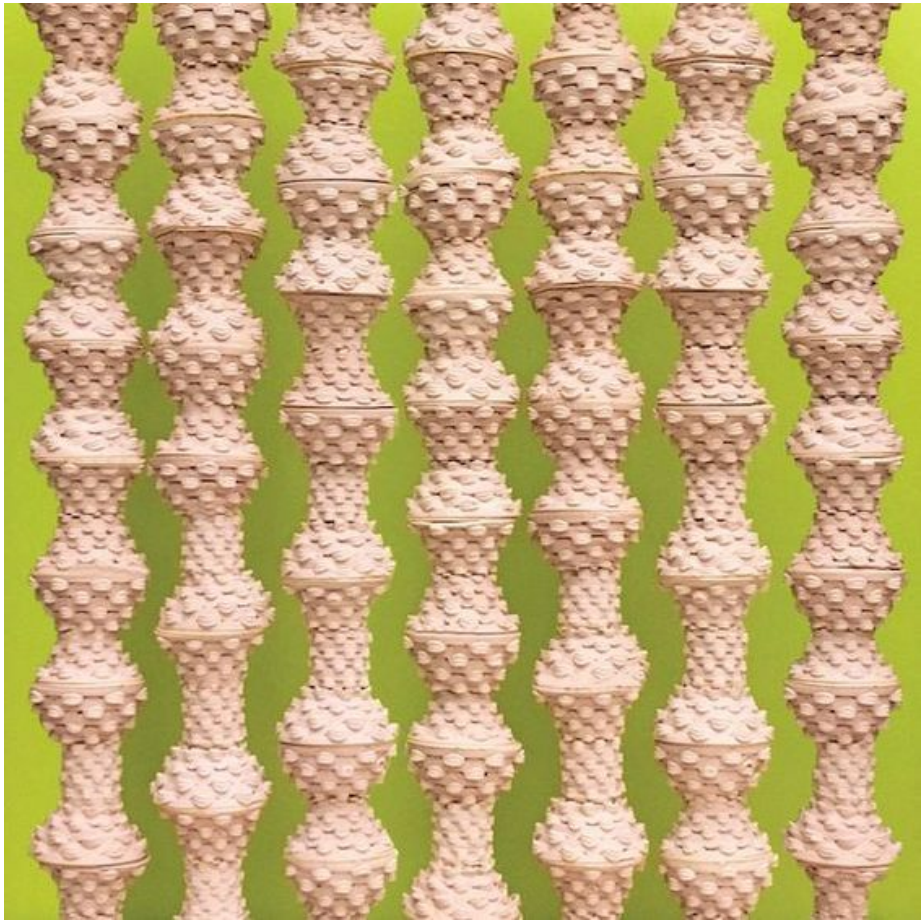
Columns - assignment 4: Reduce Material / Minimal Surface



- Overhang and loops
- Show what it would look like after printing
- Change speed to get more material in certain places?







ציורים

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מה צריך להגיש:

- קוד גראסהופר
- ציור
- סרטון

אופציות למשימות:

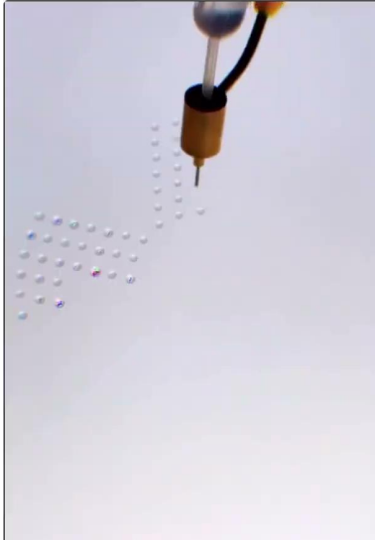
- אנד אפקטור מגניב
- ציור סופר מורכב וצבעוני
- עיצוב עם סיבובים ועצירות
- החסרת חומר (חימר/צבע וכו)

- Make a special end effector (design it yourself)
- Use it to make something awesome



https://www.formlab.schoolofarts.be/instructions/doku.php?id=ur10_robot_arm:ur10_robot_arm

[Artist](#)



Tool: Water dispenser
Cool Parameter: Tool and material

[link](#)

[Artist](#)



Tool: water marbling tool
Cool Parameter: Tool and material

[link](#)

[Artist](#)

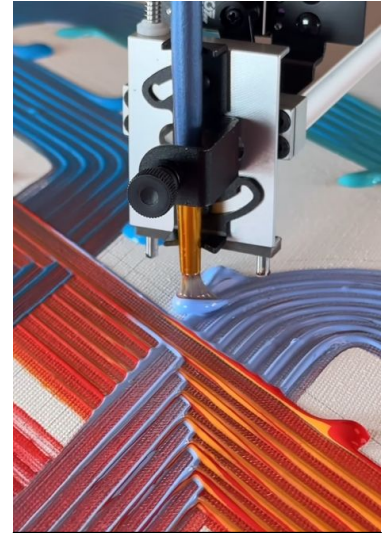


Tool: water marbling tool
Cool Parameter: Tool and material

[link](#)

- Multiple colors / tools
- Very detailed, very complex drawing

[Artist](#)

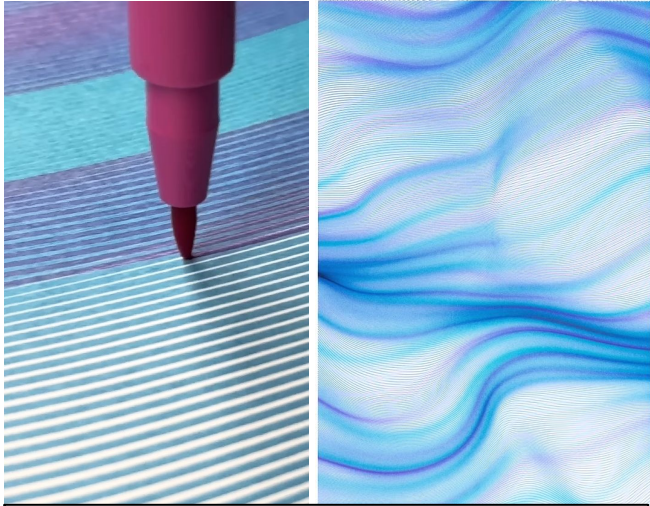


Tool: Brush

Cool Parameter: “weaving”
brush strokes

[link](#)

Artist

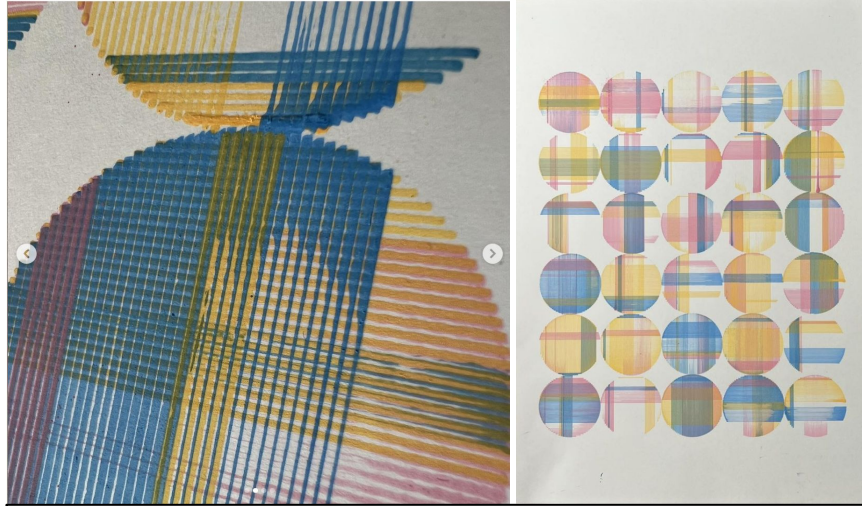


Tool: Pens

Cool Parameter: Color overlay, lineweight

[link](#)

Artist



Tool: Acrylic Pens

Cool Parameter: Color overlay, lineweight

[link](#)

Artist



Tool: liquid acrylic,
posca pens, ink
Cool Parameter: overlay

[link](#)

[Artist](#)



Tool: Pens
Cool Parameter: Color overlay, lineweight

[link](#)

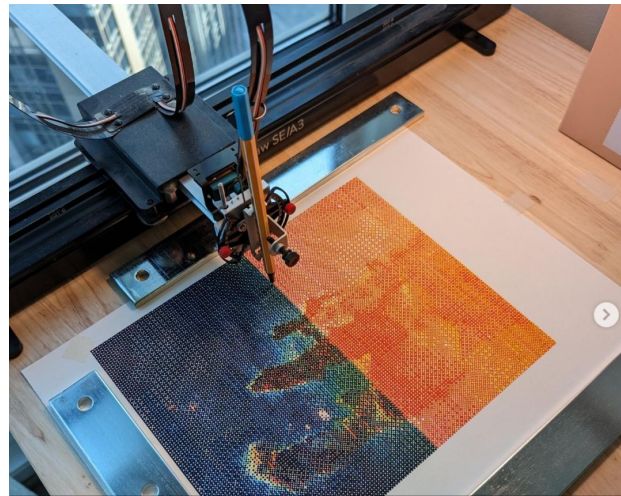
[Artist](#)



Tool: Pens
Cool Parameter: Color overlay, lineweight

[link](#)

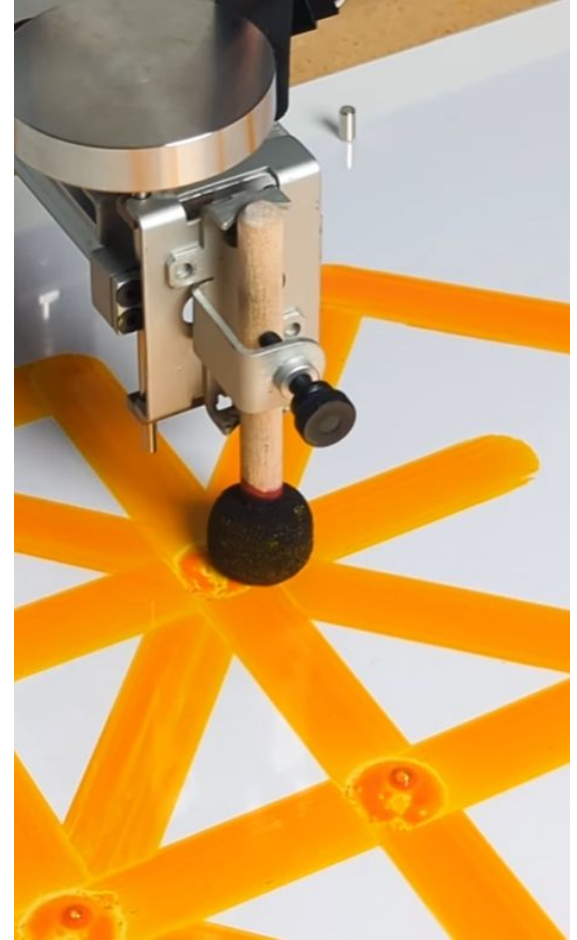
[Artist](#)



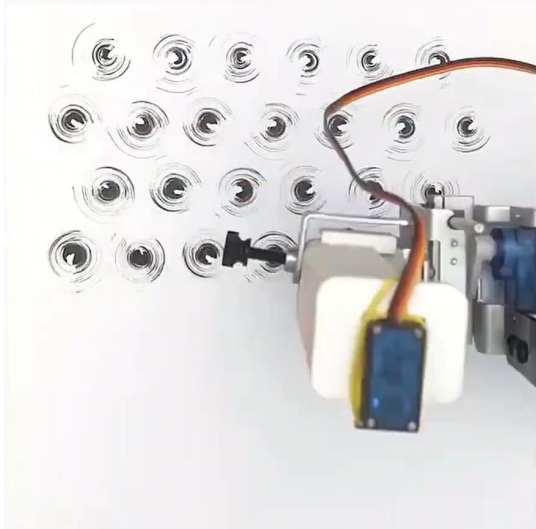
Tool: Pens
Cool Parameter: Color overlay, lineweight

[link](#)

- Control rotation of tool



[Artist](#)

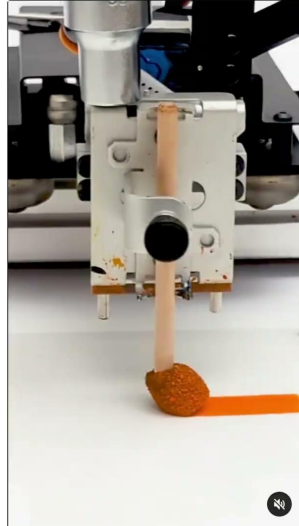


Tool: Brush

Cool Parameter: Rotation - Pattern

[link](#)

[Artist](#)



Tool: sponge

Cool Parameter: stop
patterns

[link](#)

[Artist](#)



Tool: Sponge

Cool Parameter: Rotation Pattern

[link](#)

- Control rotation of tool
- Design tools?

[Artist](#)



Tool: Pottery Tool

Cool Parameter: Tool and material



[link](#)

[Artist](#)



Tool: Pottery Tool?
Cool Parameter: Tool and material

[link](#)

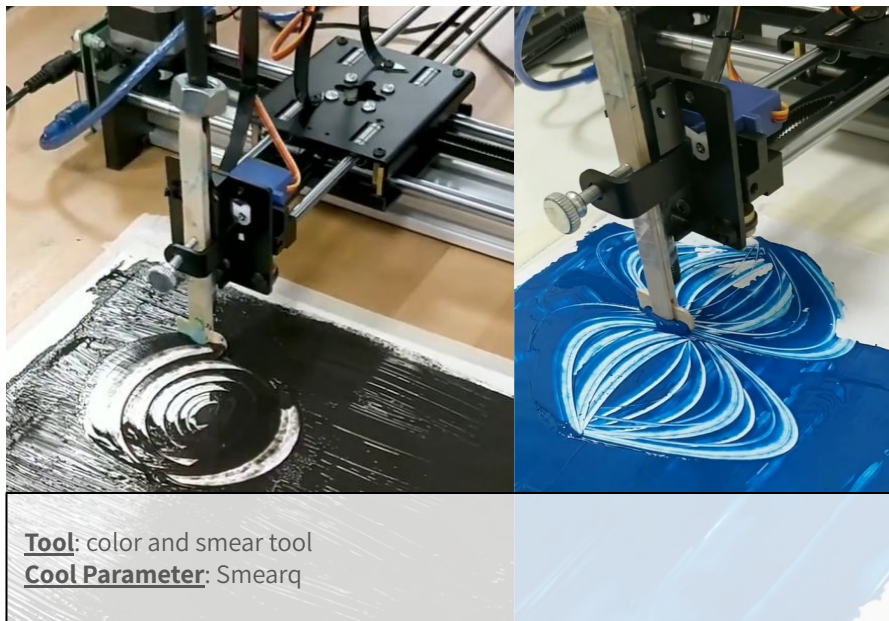
[Artist](#)



Tool: Pottery Tool?
Cool Parameter: Tool and material

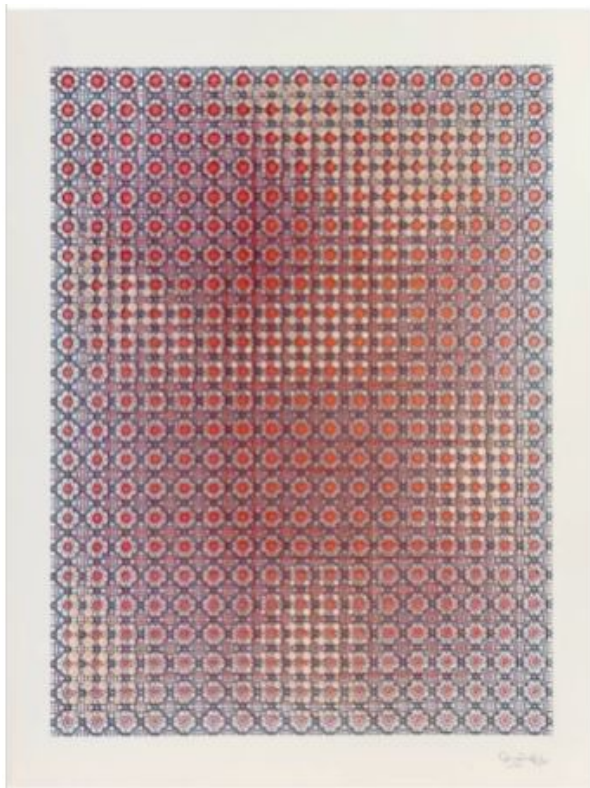
[link](#)

Artist

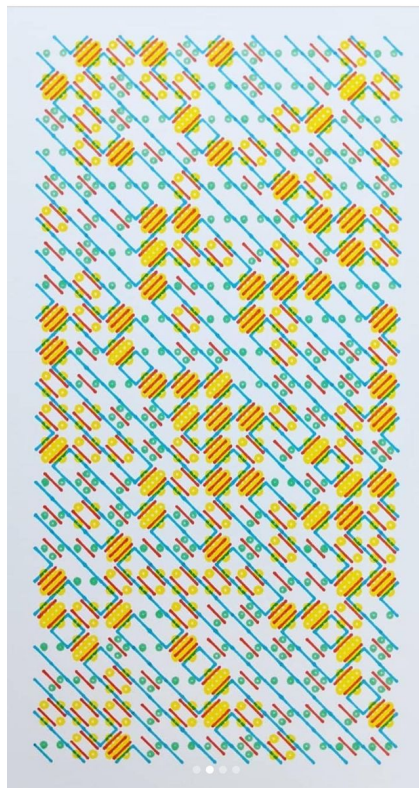


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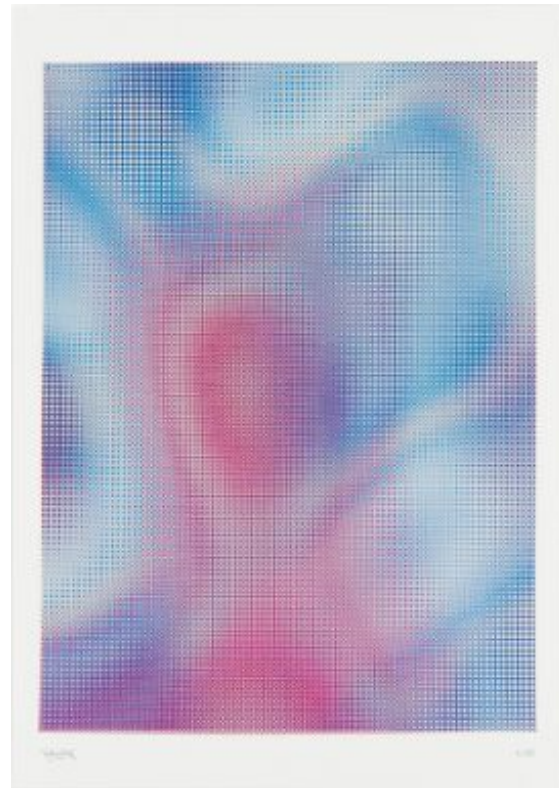
Expectations



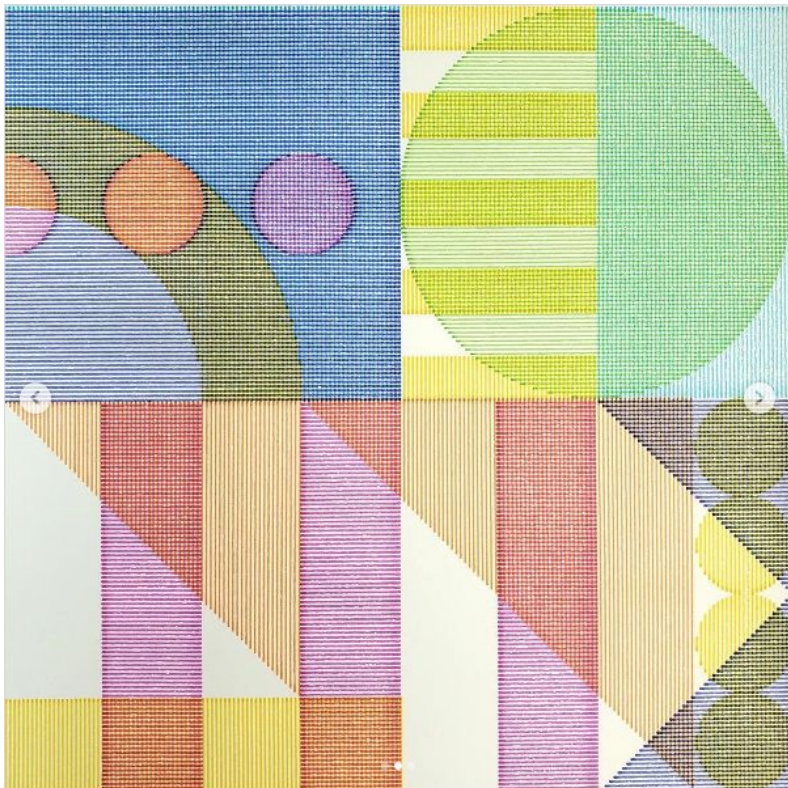
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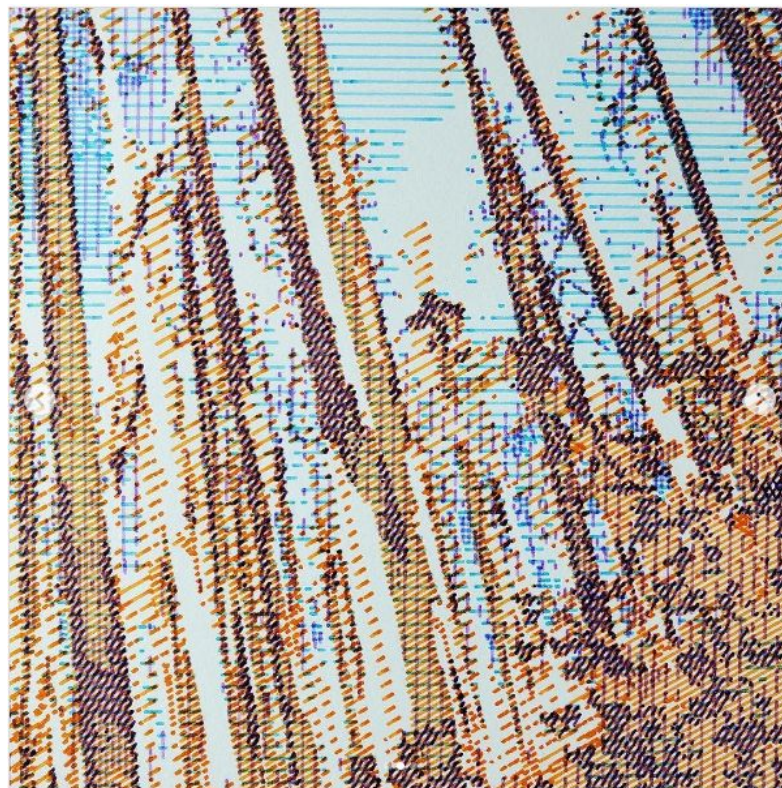
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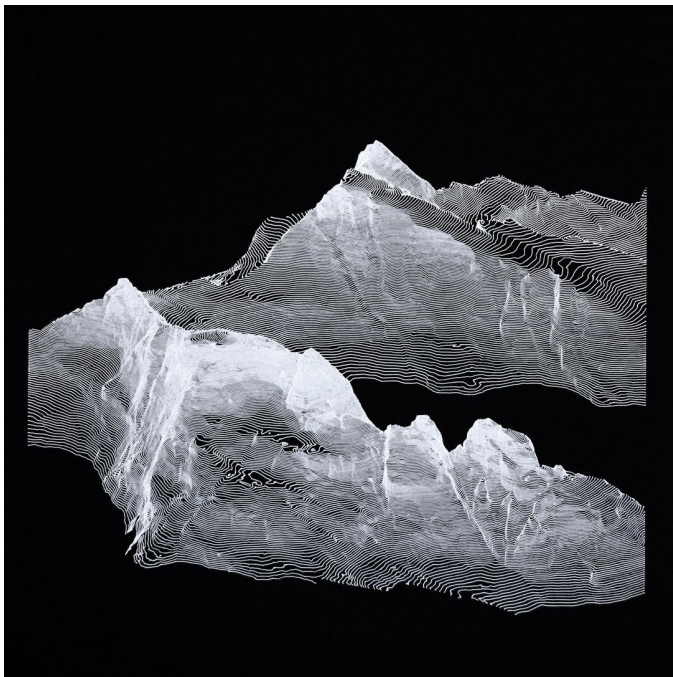
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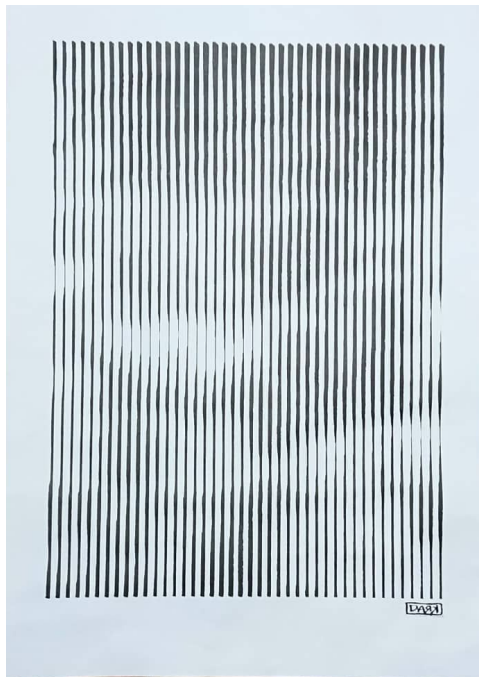
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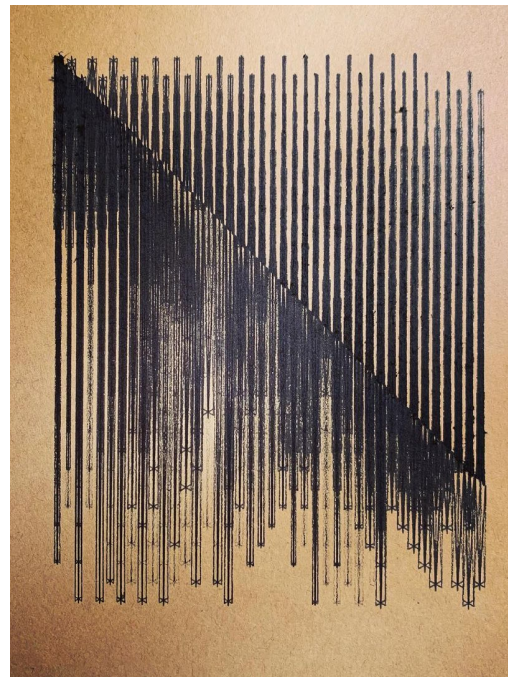
https://www.instagram.com/p/CYH_GDsPOdy/?img_index=2



<https://penplotterartwork.com/blog/2023/10/11/how-to-pen-plot-on-black-paper/>



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<https://penplotterartwork.com/blog/2021/10/29/glitches-embrace-mistakes-as-part-of-the-pen-plot-process/>