



YOON JUNG HEO
PRATT INSTITUTE
SPRING 2010
DESIGN STUDIO

INSPIRATION



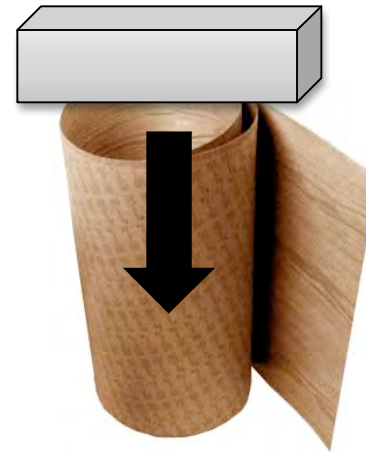
INSPIRATION



Hooke's
law

$$F = -kx$$

x : the displacement of the end of the spring from its equilibrium position;
 F : the restoring force exerted by the material
 k : the *force constant* (or *spring constant*)

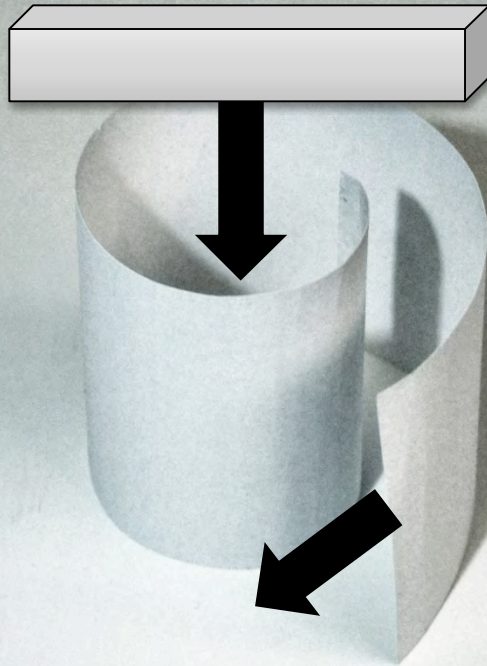


Force, Pressure, Area

$$P = \frac{F}{A} \text{ or } P = \frac{dF}{dA}$$

P : pressure
 F : normal force
 A : area

INTERPRETATION



RESEARCH



After finding images that have characteristics of the rolled paper, the paper itself became an inspiration for my project, which helped me to find out more of the construction methods and forms with papers.

What's different from other origami forms?

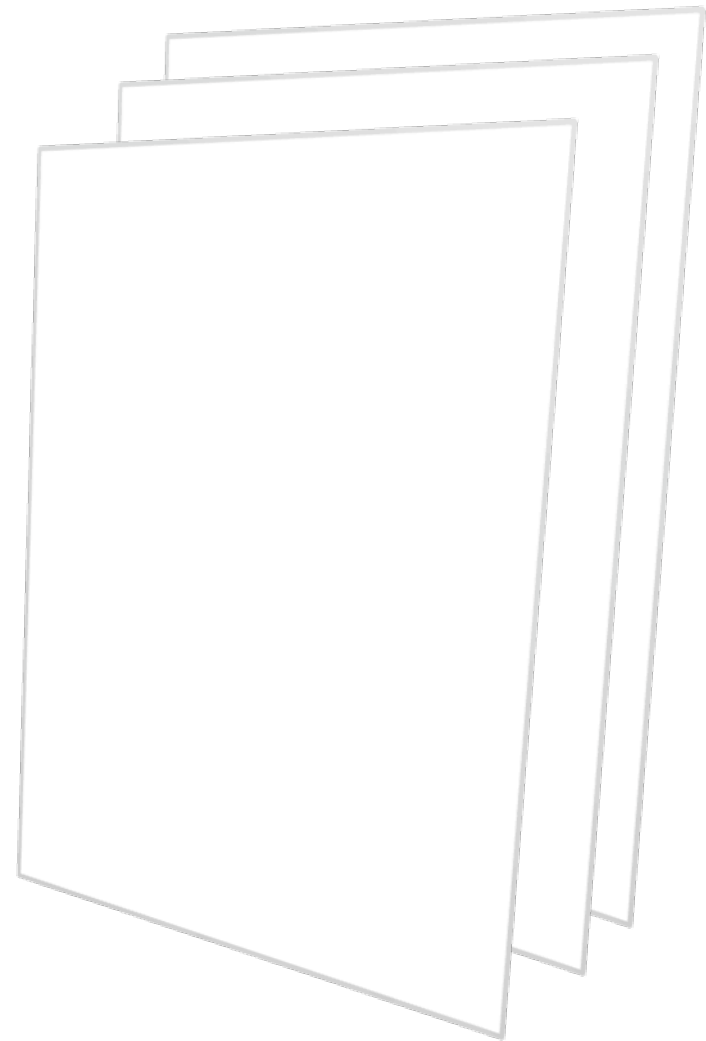
This project is about creating paper form with the minimal elements of tools and steps of construction, unlike how origami forms are created by using either folding or modular mechanism to create the forms.

[Tools]

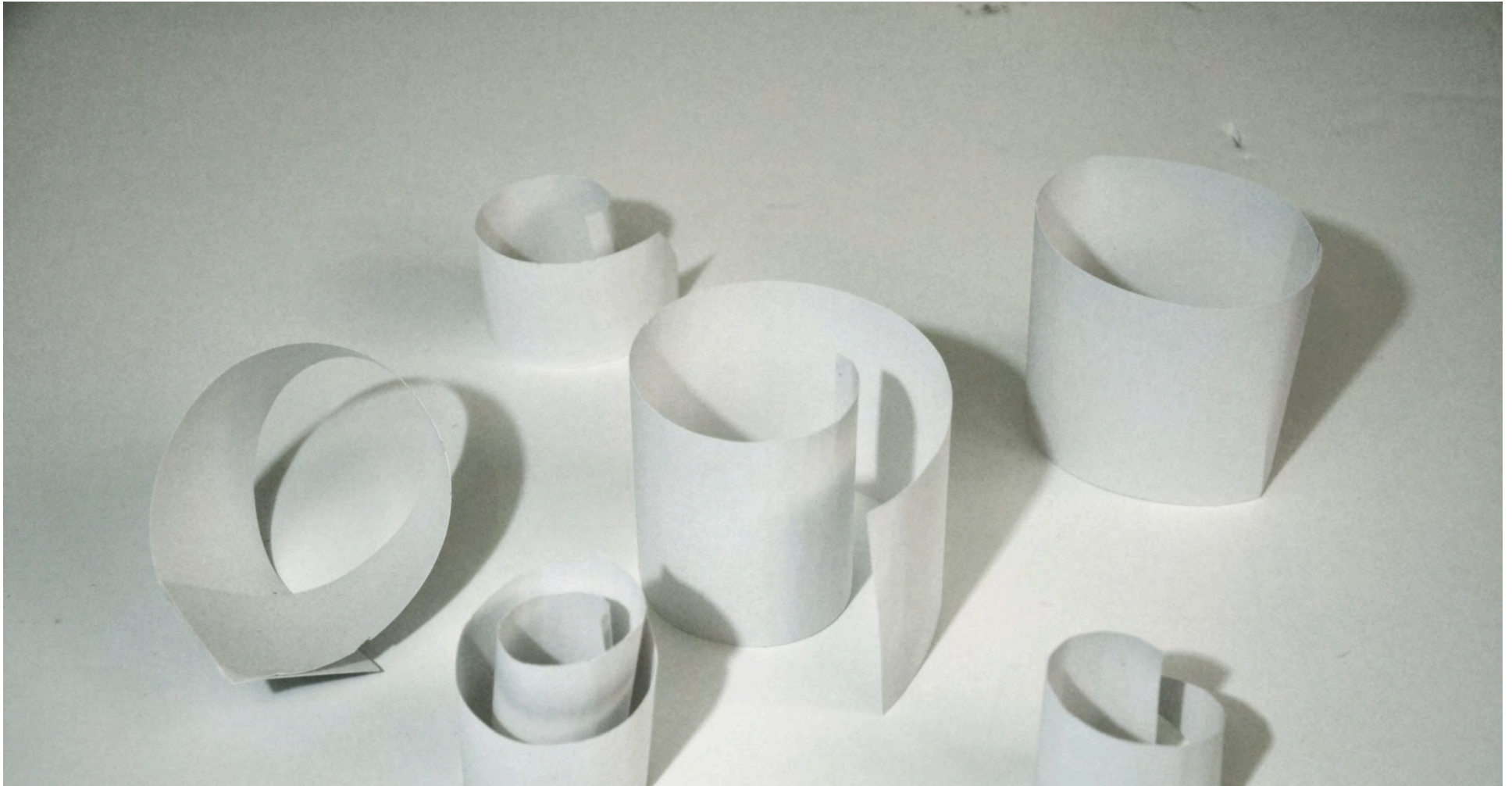
Use 1 paper, knife, tape per each models

[Construction]

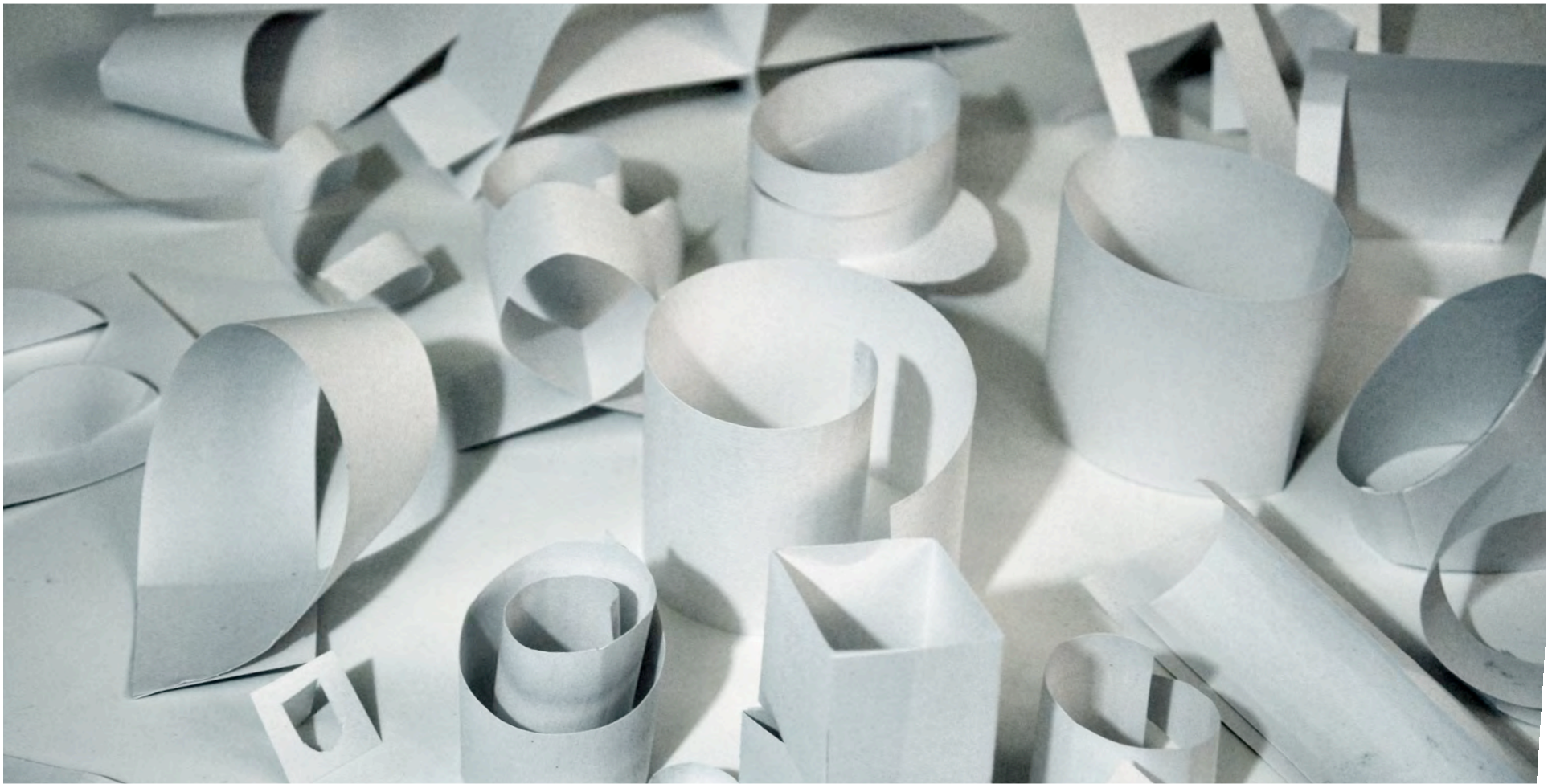
Creating forms, which has the characteristic's of the rolled plane and simply constructed.



EXPLORATION



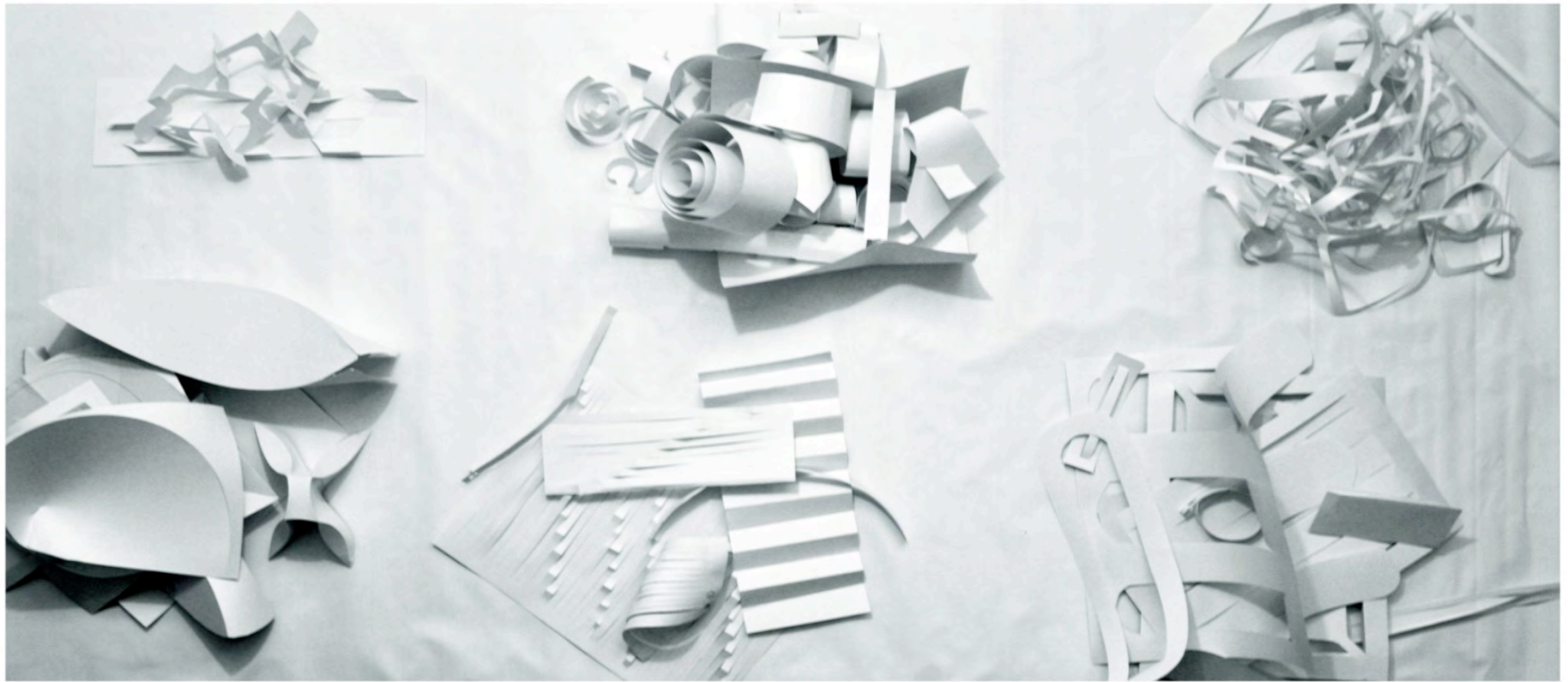
EXPLORATION



EXPLORATION



DEVELOPMENT - CATEGORIZING



MOVIE CLIP

DEVELOPMENT – SUMMERIZING



- Connected
- Repeated pattern

-Product



- Cut Half way through the paper
- Simple cuts creates Volume

- Furniture
- Product
- Table top



- Repeated linear cuts
- Pinching the paper creates the pattern, volume

- Furniture
- Architecture



- Original idea (Rolled plane)
- Hook's law, hold heavy weights.

- Interior
- Furniture
- Product



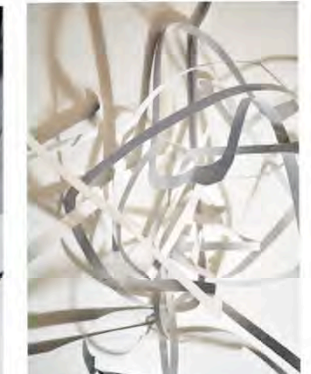
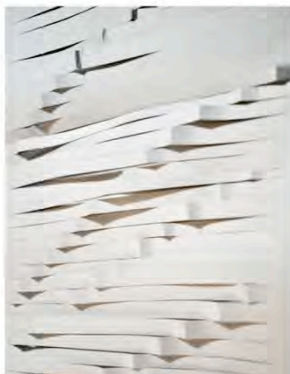
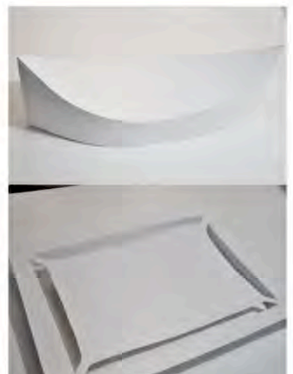
- U cut and bend to different direction.

- Product



- Countious cut that creates the 3d volume with linear elements.
- Multiple spaces to interact

- Furniture
- Product



DEVELOPMENT – Paper + Function

A



B



C



D



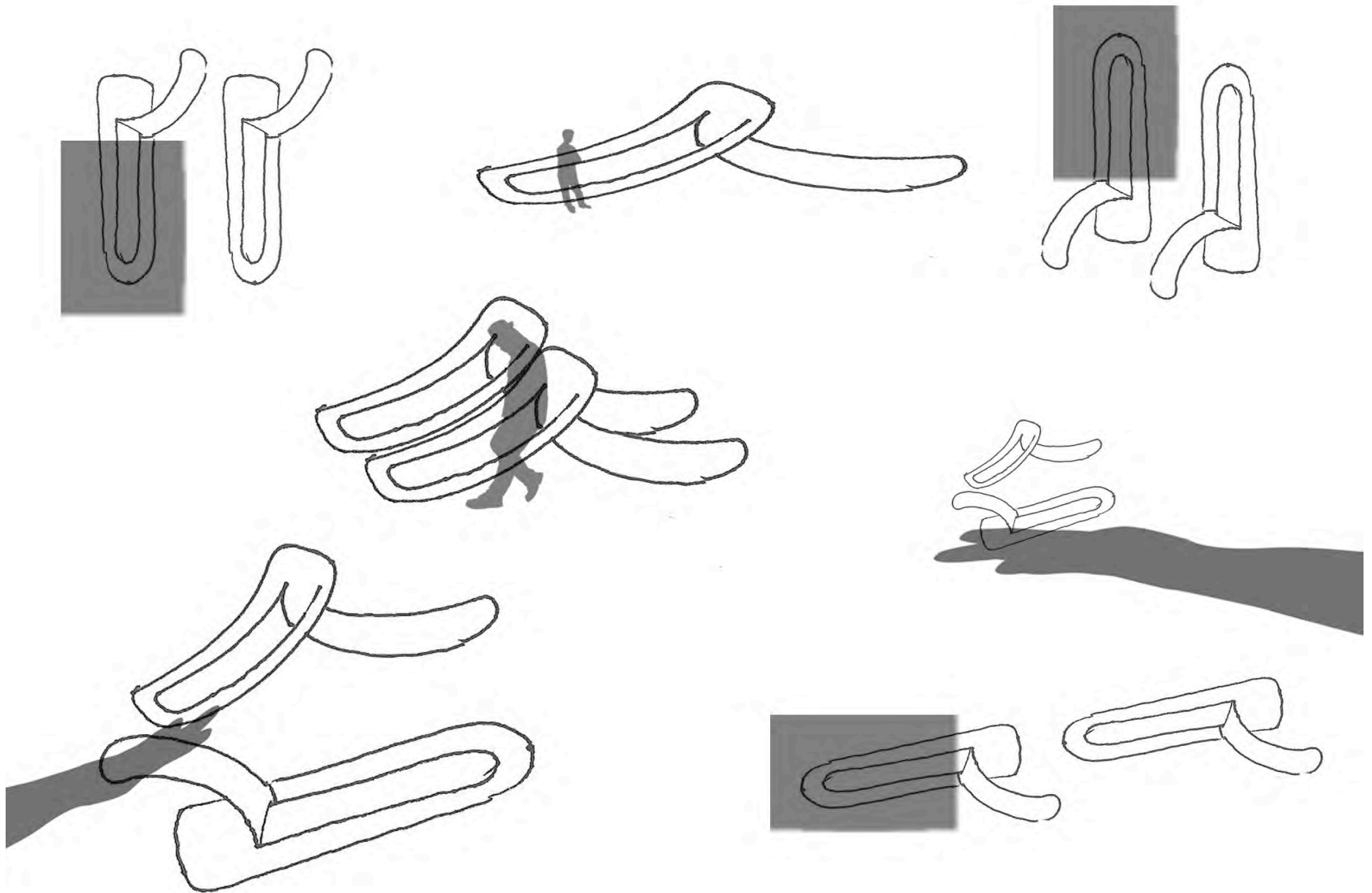
E



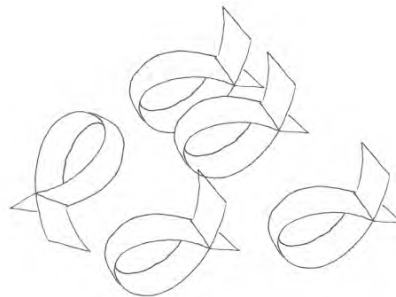
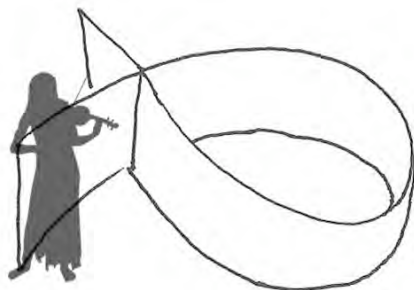
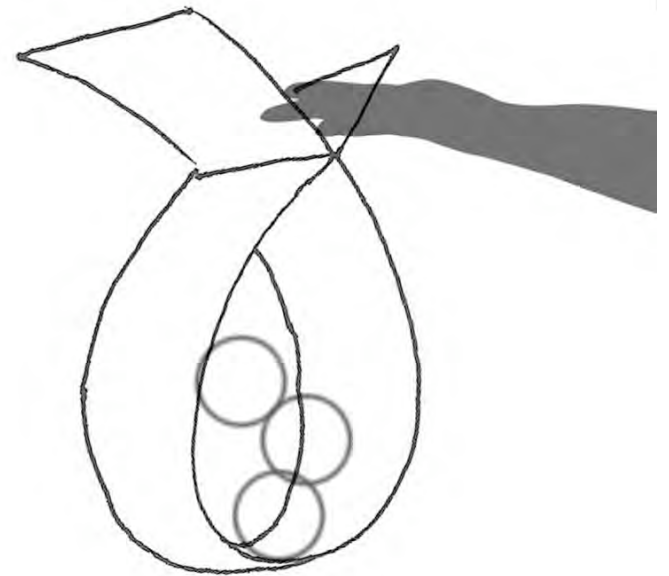
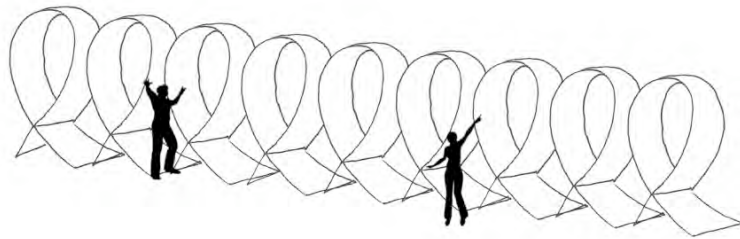
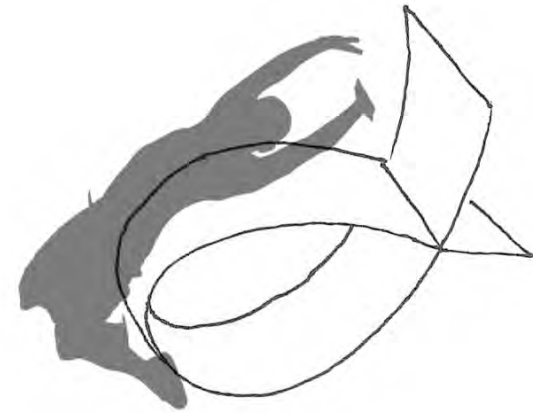
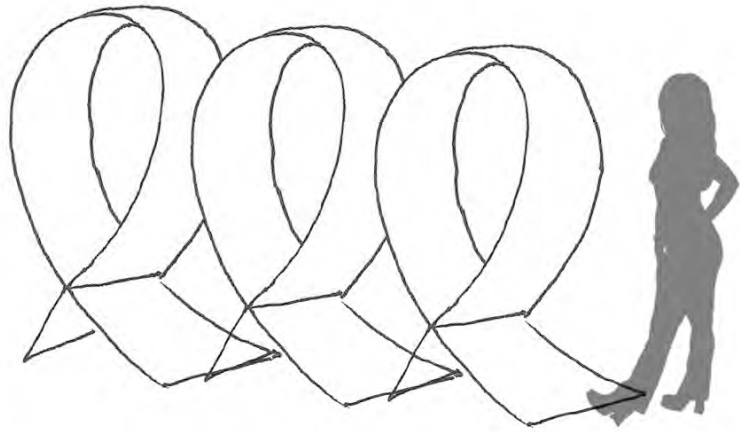
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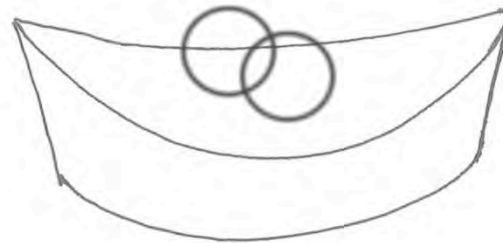
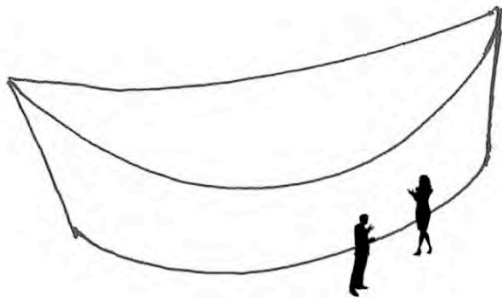
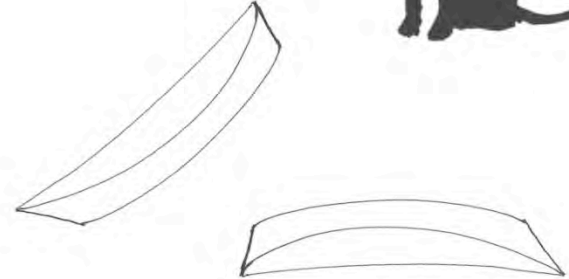
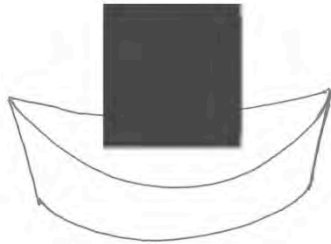
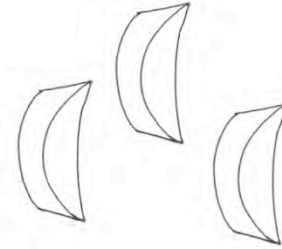
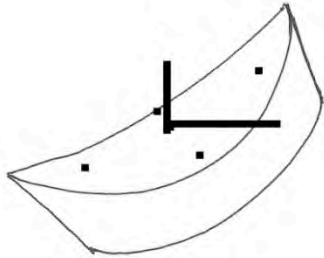
DEVELOPMENT- GROUP A



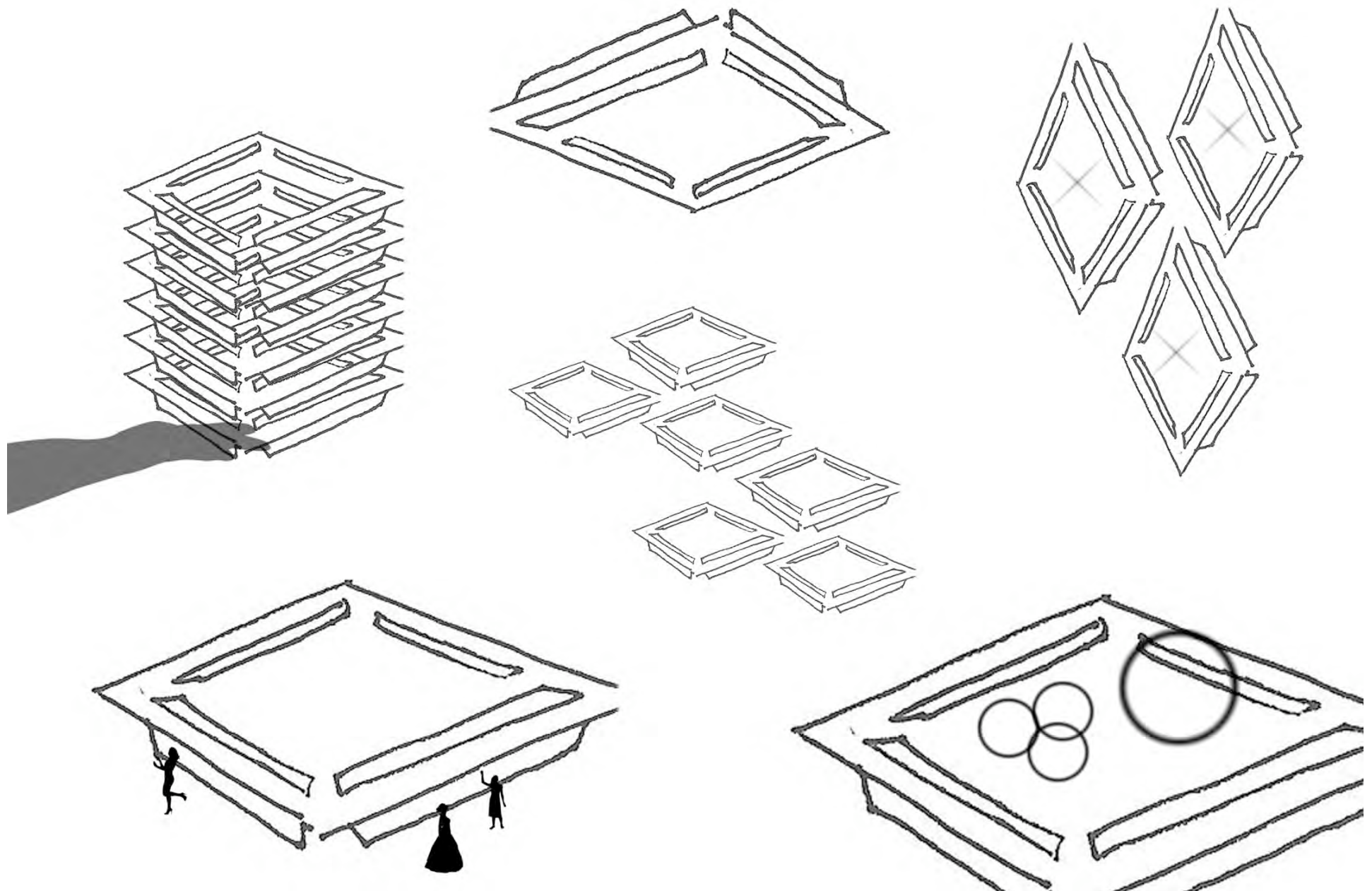
DEVELOPMENT- GROUP B



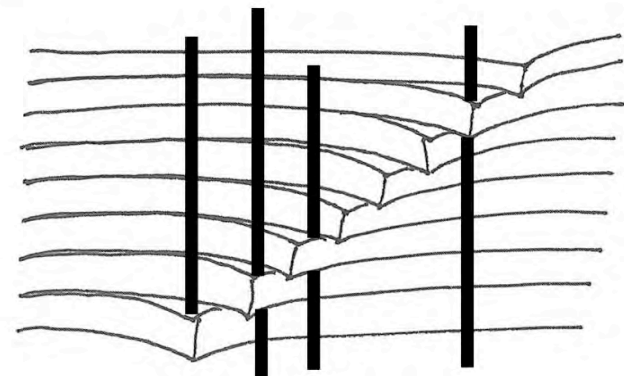
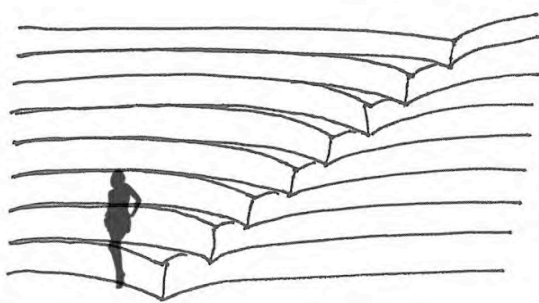
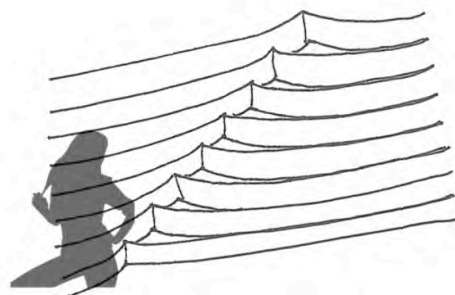
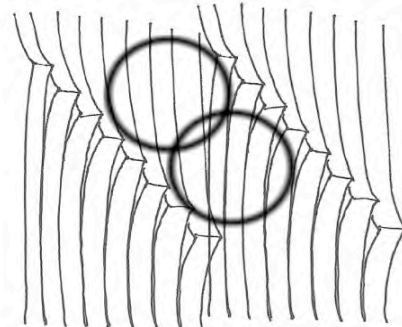
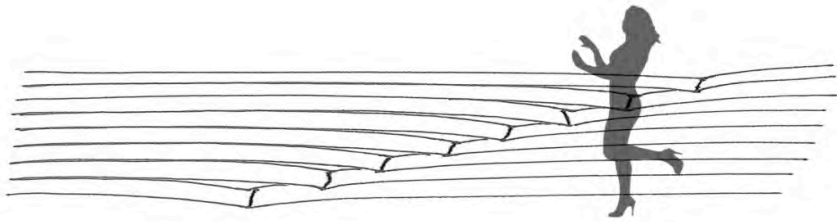
DEVELOPMENT- GROUP C



DEVELOPMENT- GROUP D



DEVELOPMENT- GROUP E

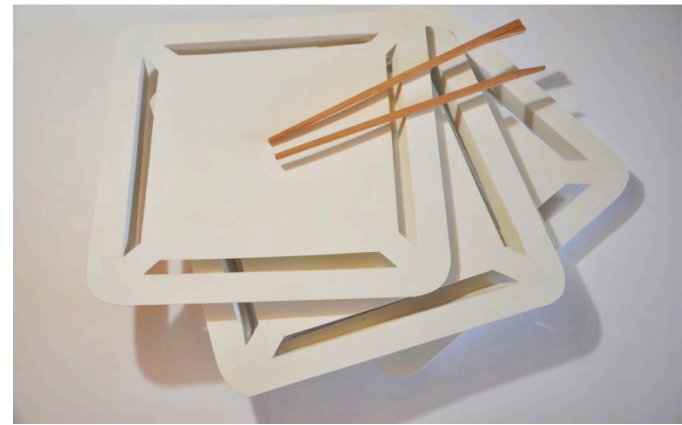


FINAL DESIGN IDEAS-FULL SCALE MODELS

Wall/Partition design



Tissue box design / Display(Decoration)



DEVELOPMENT – REALIZATION

Let people experience the fun of playing with paper models!

The goal of this project is to inspire people by showing the numerous possibilities of paper. By demonstrating with paper to construct forms allows people to rethink about the magical power of the paper and it also functions as an inspirational paper folder, that people can construct. This activity of creating forms out of paper is a great educational recreation or even for one's own entertainment.



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