

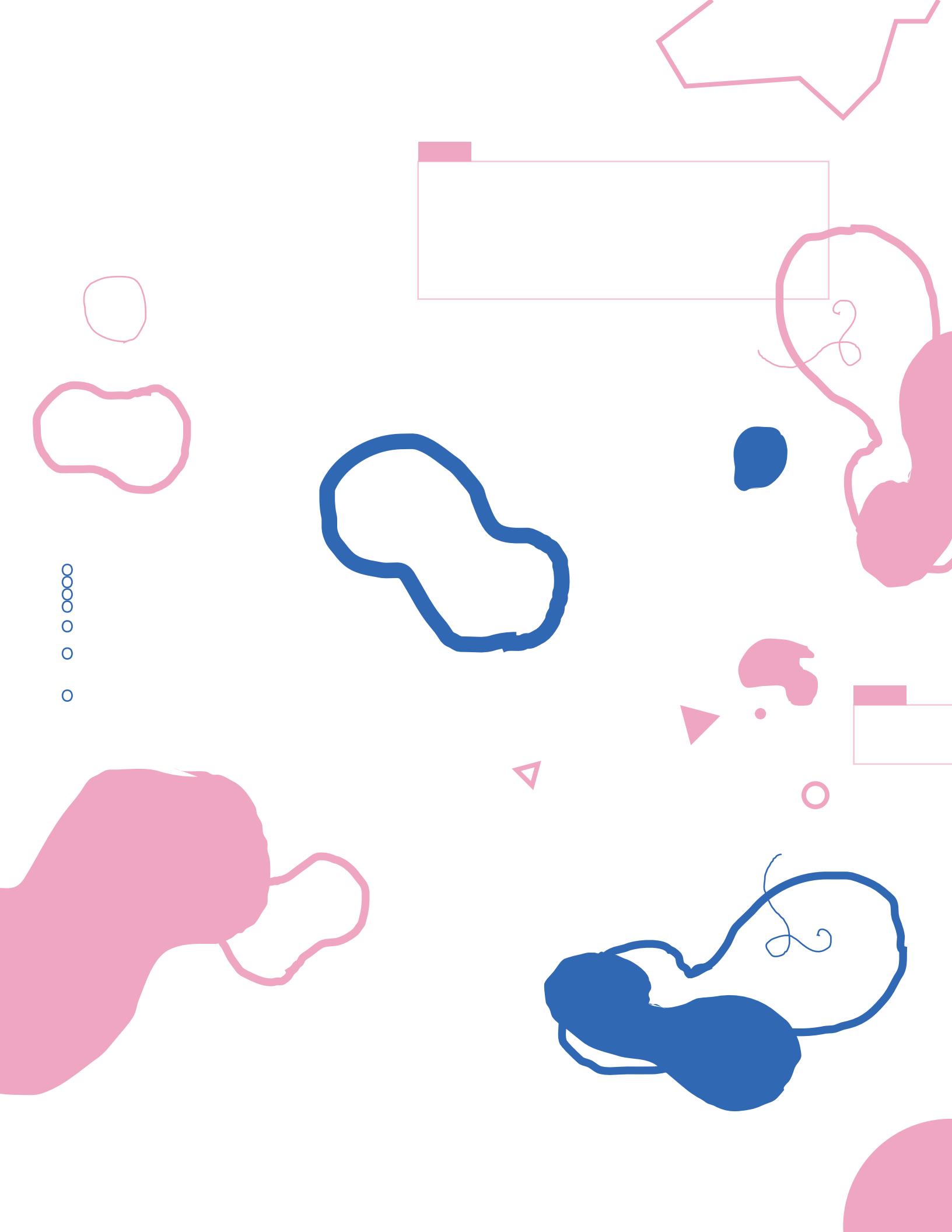
Seungyeon Lee

August 26th to December 12th

xFab zine 2024

handicraft work

Look deep down the
Ocean From the
footlo

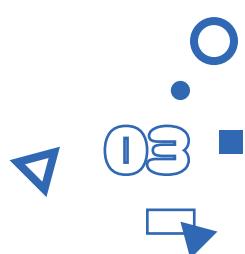


xFab 2024 projects archive

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Parsons School of Design
Design and Technology

floating





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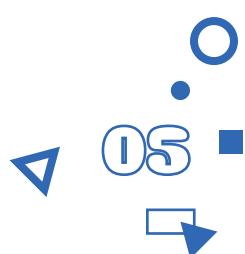
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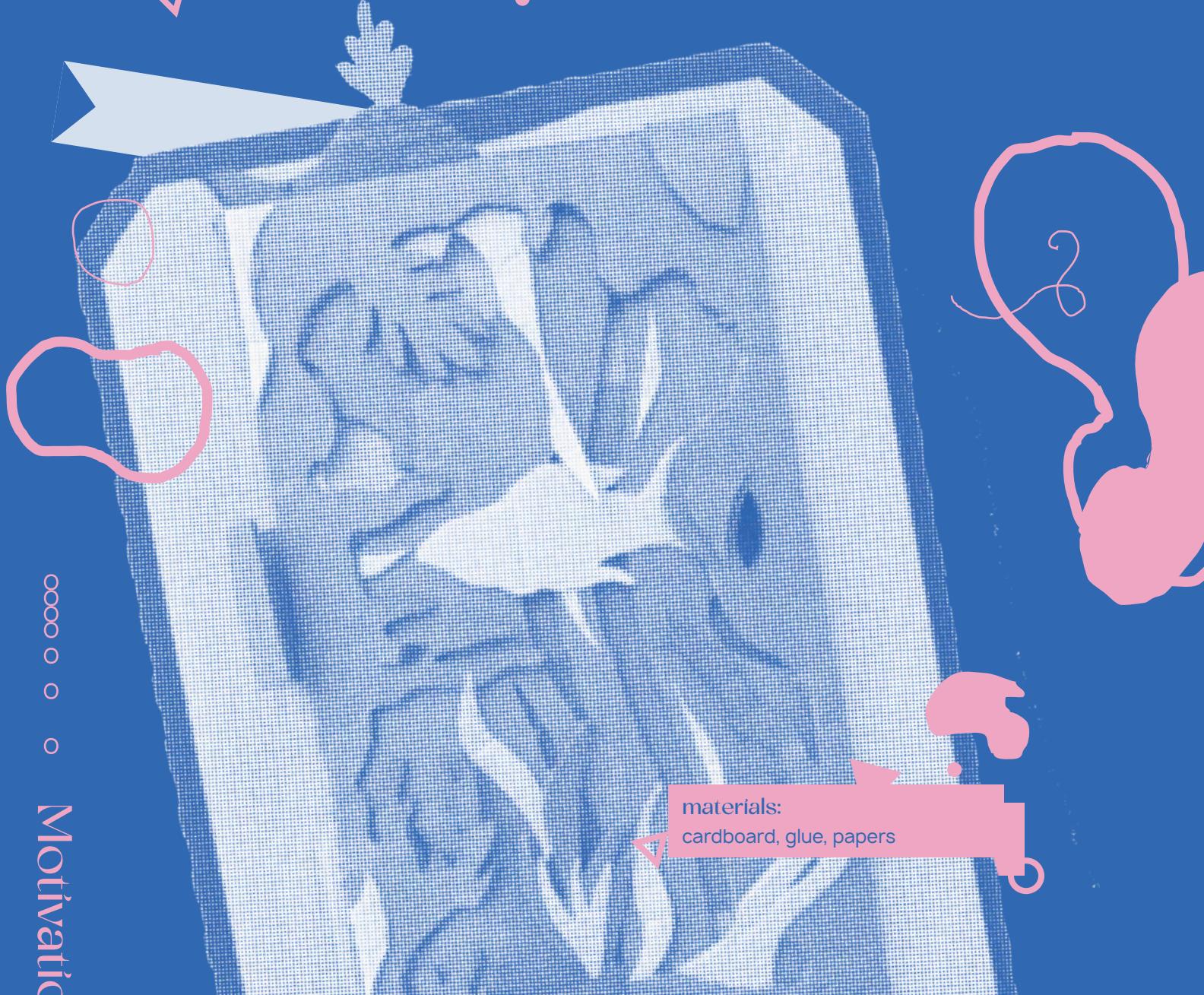
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① Cardboard



For this project, I wanted to make something that is related to the features of the material that we are using and the things that I love. I tried to find something that I needed and that was possible to make. When thinking about the features of cardboard, one can see that it is recyclable. The reason why we recycle them is because we want to protect the environment, the nature.

Since I love swimming and marine lives, I wanted to make something related to ocean that I could use to decorate my room. When I was in Korea, I used to put pictures and posters of ocean and sea animals on the wall. After moving to New York, I didn't yet have anything to hang on the wall, so I decided to make a poster with cardboard. Thus, I made a 3d poster by layering backgrounds and marine life made of cardboard.

Process



step 1

Firstly, I cut the cardboard into the shapes that I sketched on procreate. Before attaching these on the box, I piled them to see where I should glue. I used white cardboard to make the fish and the crocodile to pop out more.



step 2

And then, I glued them and attached them all together.

step 3

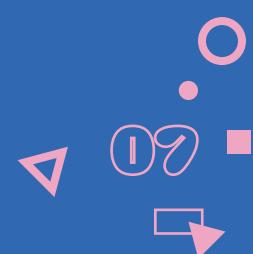
Finally, I attached all the layers and objects on the box so that I can hang it on the wall.

Reflection

While making this piece, I enjoyed it a lot, since it felt like I was making a hand-made present, which I love, for myself. When I first did snorkeling and scuba diving, I became fond of nature and deeply understood why we need to protect other species and nature.

We are sharing this earth with all other species and the beauty of coexisting with them makes this earth special and precious. That is the thing that I always care about, and this piece would let me keep this attitude in my mind every time I look at it.

I love how this project was meant to make something for myself, and I really enjoyed the process and the final product made by myself. I'm glad that I learned another language to express myself and deliver my words.

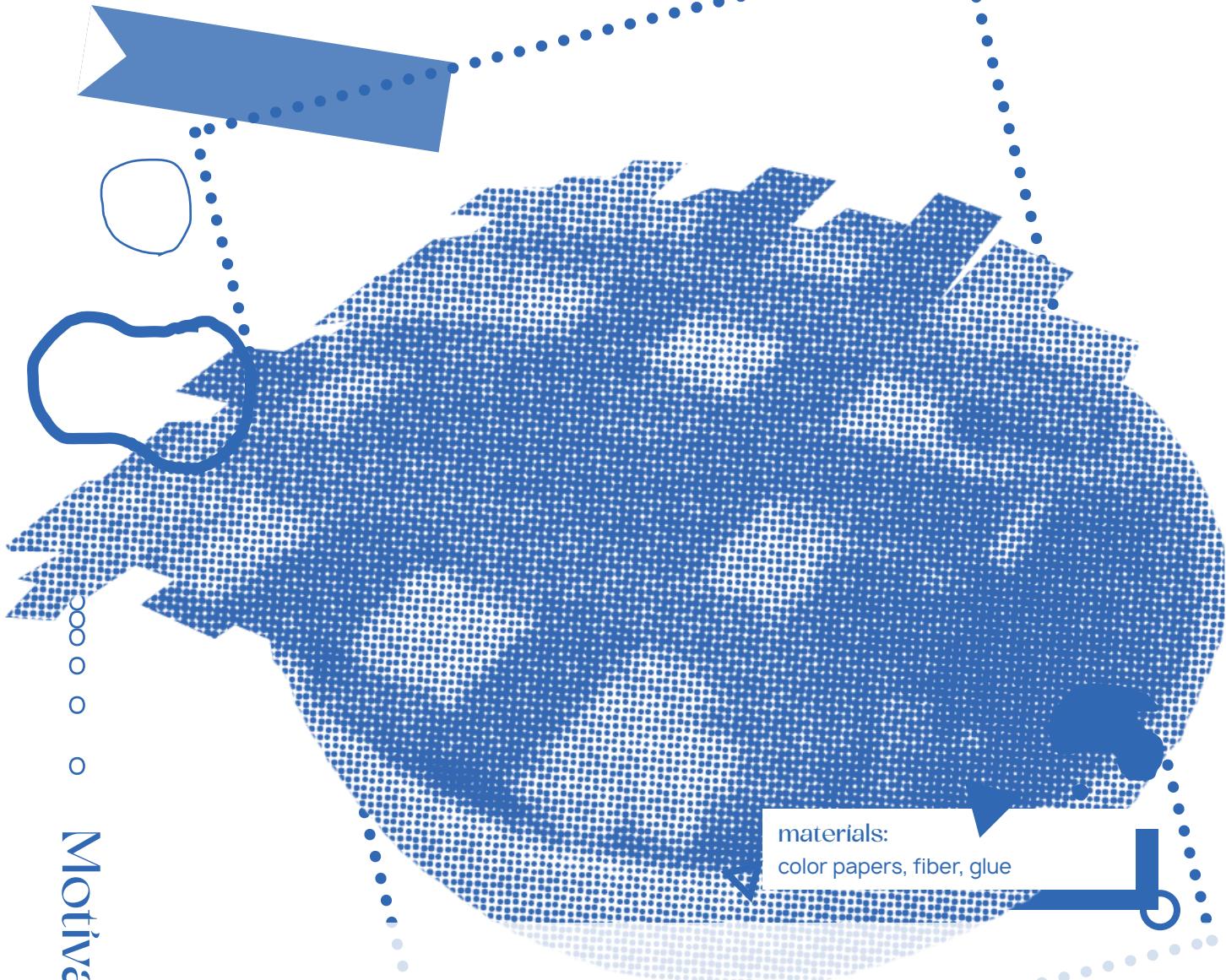
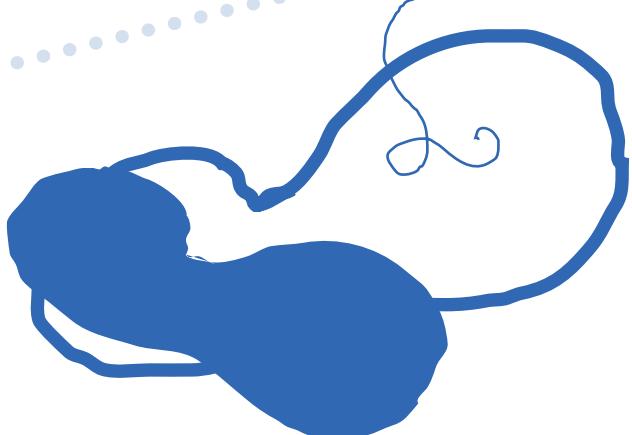
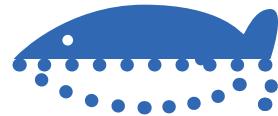
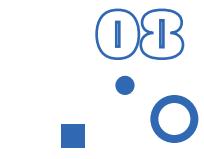
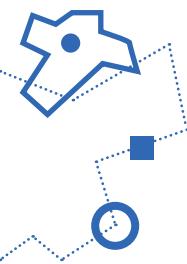


02 Basketry

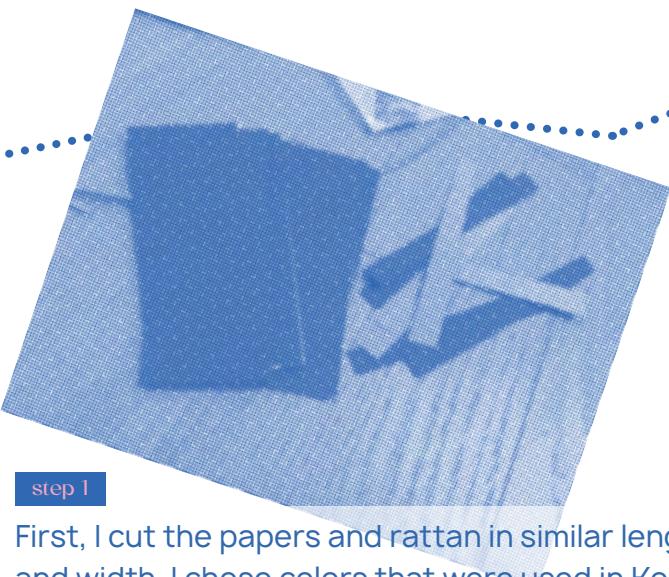
Motivation

I was inspired by the artist Youngmin Lee, who works with textiles to create Korea's traditional wrap clothes named 'Bojagi'. Her works reminded me of the basketry project and I wanted to make that might have Korea's traditional color schemes and style into my project.

materials:
color papers, fiber, glue

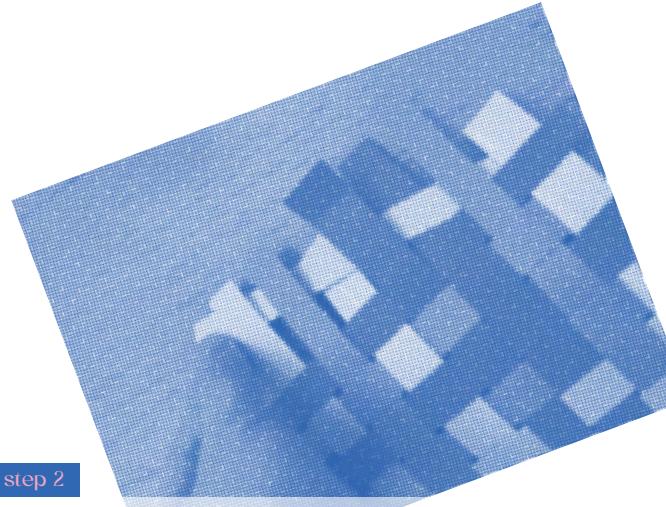


Process



step 1

First, I cut the papers and rattan in similar length and width. I chose colors that were used in Korea's traditional clothes and architecture.



step 2

I weaved the papers and fibers together. While weaving, I glued some edges to make sure they won't fall apart.



step 3

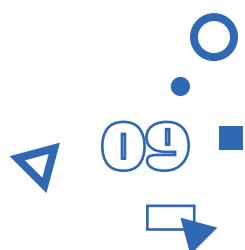
I cut the edges of the bojagi out to make it feel more like a square shape wrapping clothes.

Reflection

Compared to the digital artworks I created in the past, I guess what's so tricky about handmade crafts is that it is much harder to move or undo your process while making. While I'm making artwork digitally, it is easy to go backward and move things around and test them.

However, I should plan more clearly and accurately when doing handcrafts. Although this might take longer than working digitally, that is also the appeal of handmade crafts.

Even though it's not so clean on the edge or has some mistakes, it makes the work somehow look charming. The imperfection that it has is one of the personalities we can find.



03 Plushies

Motivation

For this project, I was inspired by the dream catchers and decided to make one for myself. I was inspired by how my grandfather remembered the ocean when he operated ships around the earth. He talked about how his ship used to cleave through the water and gentle waves that he loved. After my grandfather passed away, the beach and ocean became where I can recall the

moments with him and the days of sailing I heard from him. Remembering the days when my grandfather read some story books and told me the places that he visited before I go to sleep, I wanted to make something that would remind me my grandfather. He was the one who used to put me to sleep since my parents were often out of Korea because of their work. I created wavy patterns with threads and added some bubbles on it. The numbers of the bubbles are inspired by my grandfather's name, 'Oh GongYeol', which use same letters that stands for 5,0,10 in Korean.

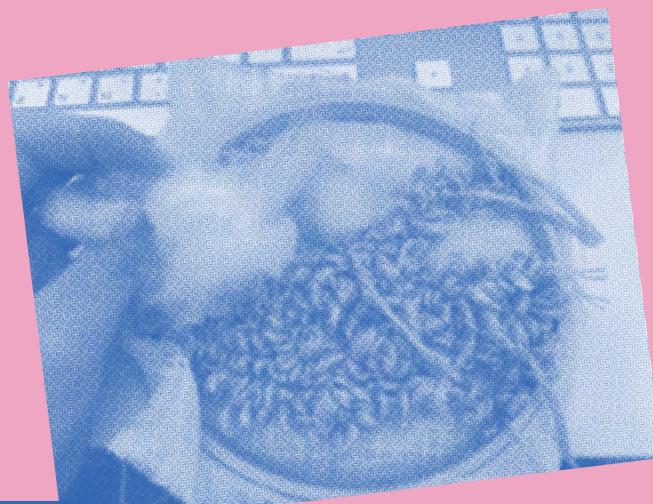
materials:
yarn, cotton filler, tufting frame

Process



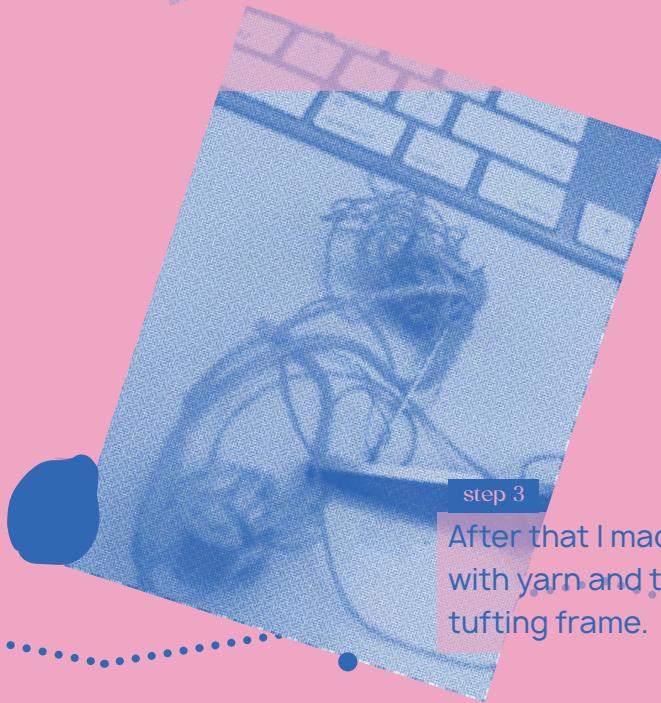
step 1

First, I sketched the waves on the tufting frame that will be the guide for the tufting. And then I did tufting with the yarn on the tufring frame.



step 2

After finishing tufting, I added some cotton fillets here and there.

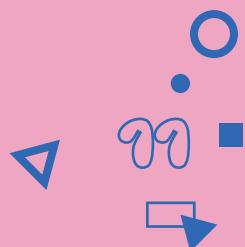


step 3

After that I made some small rolls with yarn and then glued them on the tufting frame.

Reflection

Hand tufting was not an easy work to do for me at first, so I struggled a lot to make it stand in the place where I tufted. After making the wavy patterns, I added some details with threads and filler materials that seemed like sea foams. Since I added some objects that are a bit heavier, it was not possible to take it out of the loop and hang it on the wall not ruining the original form. Therefore, I decided to put it in the loop. I want to hang the miniatures of the objects that reminds me of my grandfather if I had more time.



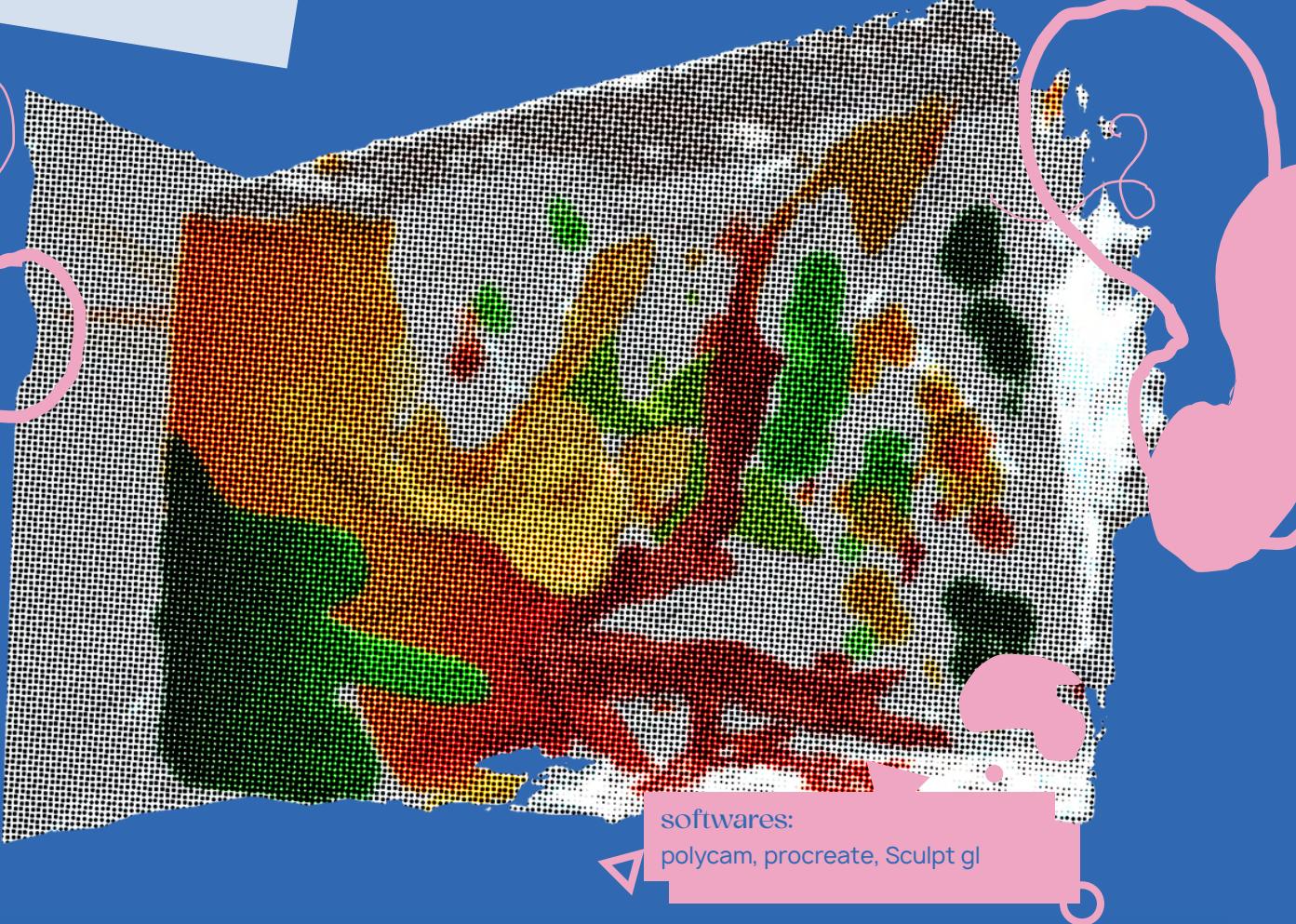
④ 3D scanning

Motivation

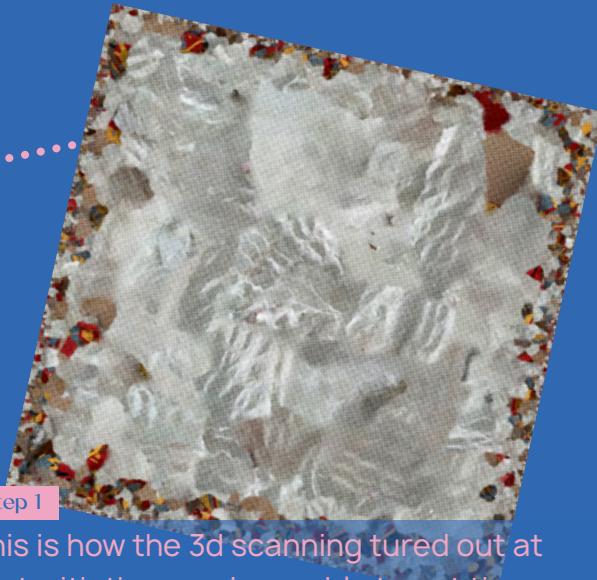
I had a experience with Sculpt gl software before, and when I saw the 3D scanning assignment, I wanted to use the software again this time. Sculpt gl is easy to fix the shape and color the scanned object so I imported my object into the software and

fixed some shapes that were lost and painted on it with the similar color schemes that the original object had.

softwares:
polycam, procreate, Sculpt gl

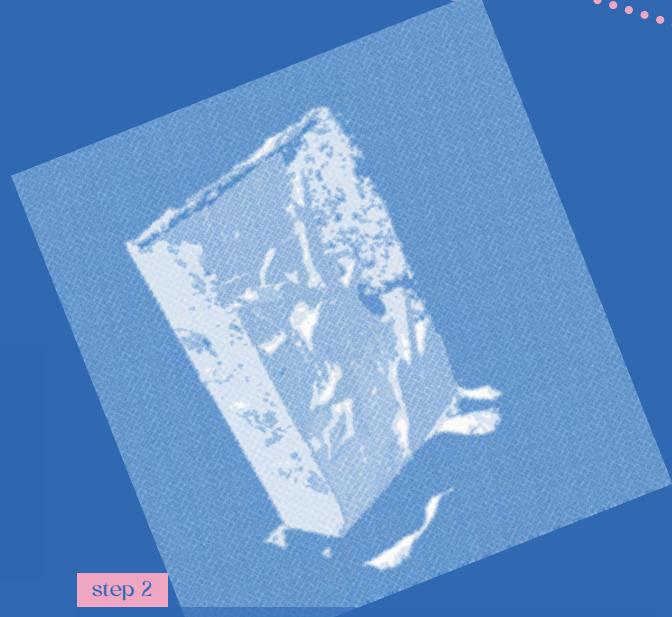


Process



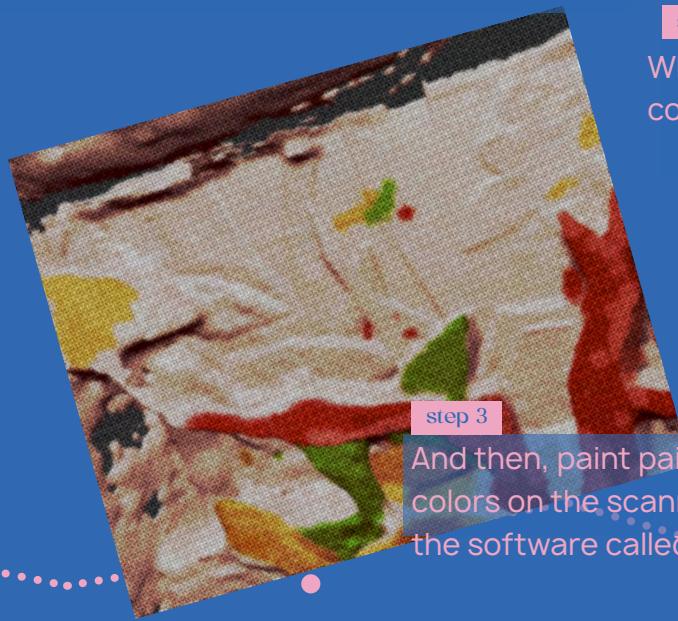
step 1

This is how the 3d scanning turned out at first with the app. I was able to get the texture and the colors of it correctly.



step 2

When I imported into sculptgl, it discarded all the color information like this.



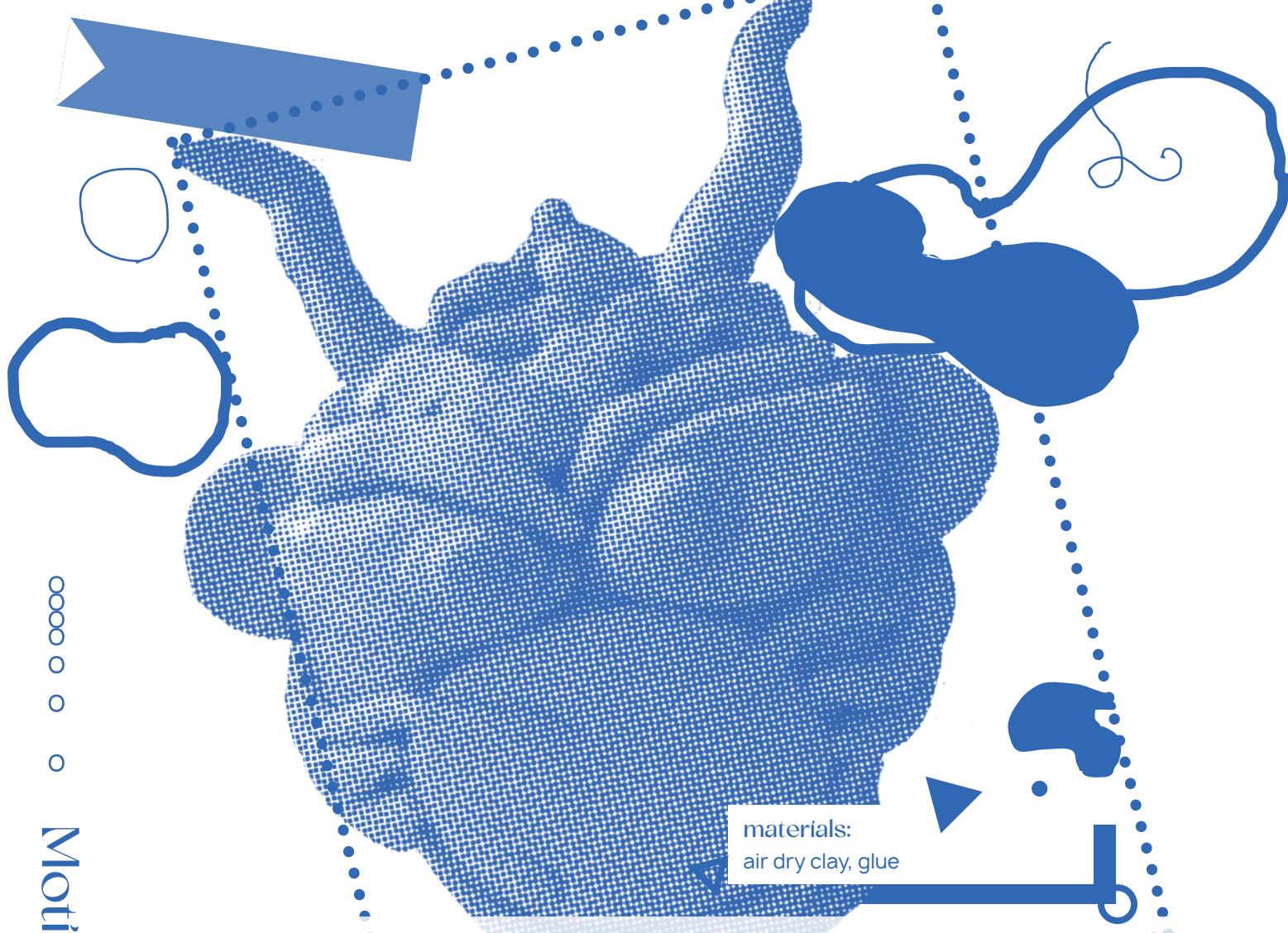
step 3

And then, paint paint paint...! I added colors on the scanned object with the software called sculptgl.

Reflection

When I imported the model in the Sculptgl, the colors were missing and it filled the empty space automatically so it was not easy to distinguish the parts. However, it also made this model look somewhat different from the original, which is also nice.

OS additive making



Motivation

I was motivated by Lee Jungseob, one of the famous artist from Korea. His paintings of cows are one of his major works, and I wanted to bring the style of his work to my object. Since he is using lots of bold organic lines, I decided to apply this style into my object.

When Lee Jungseob was born, 'Cow' represented the image of Koreans' racial emotions, so it was special for us. At that time, it was not allowed to bring the cow's image into artworks because of political issues.

materials:
air dry clay, glue

However, Lee Jungseob brought the image of the cow in many of his paintings, which shows the peoplehood and patriotism through his works.

His paintings was the portait of Korea and Koreans, that reflects the situation of the era and the strong-willed people of the time.

Process

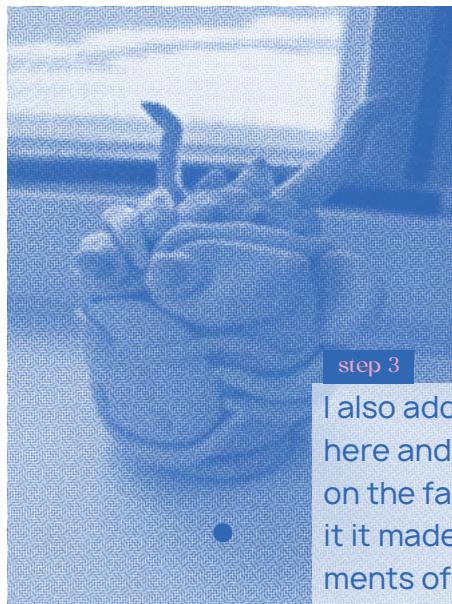
step 1

I first shaped the clay into a ball which is going to be the base of the face of a cow.



step 2

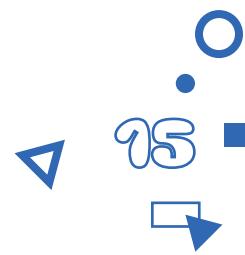
Then, I added the eyebrows, eyes, ears, nose, horns and other face parts after shaping the clay. I attached them together and connected the edges with engraving tools.



step 3

I also added some organic lines on the face here and there. I thought that those bold lines on the face are creating dynamic image since it made me think as if I'm seeing the movements of muscles.

It was harder than I think to make the exact shape that I wanted it to look, and I ended up getting lots of creases and cracks, but it was fun trying to adopt the style of the 2d painting to a 3d object. Next time, I would definitely use some water to make it look cleaner and to make sure they are attached together so they won't fall apart.



⑥ Hybrid craft

Motivation

Recently I read a novel 'Lord of the Flies'. Many objects represent different parts of human culture. In the novel, the conch symbolizes civilization and harmony. The conch structure relationship between the boys on the island coordinates their behaviors and mindset.

materials:
air dry clay

In contrast, the spear represents oppressive tactics and brutality of humanity. While reading the book, it made me think about how mankind has been using these natural objects as their metaphor that symbolize something that can easily resonate with people. Also, it is surprising that they become the tools to structure the system of society.

Process



step 1

First off, I made the bottom of the conch first and then made the support that can hold the upper parts of it. Then I added the layers around the support to make the shape of the conch and made texture with the engraving tools.

step 2

And then, I made the support for the conch in the middle and then cover them with more layers.

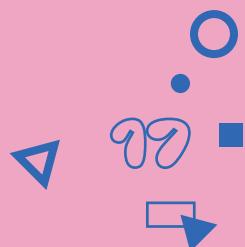


step 3

After finishing the form of the conch, I carved the conch's surface with graver to make it feel more like a conch.

Reflection

Since I failed to make my object stay together for the last project, I tried to connect all the parts together with engraving tools and hands this time. It was not easy to make it look clean but it went way better than the last week's object. I tried to make some texture by carving the surface with engraving tools. I'm satisfied the result of the object this time, the texture that I made for the conch make it look more like a natural object.

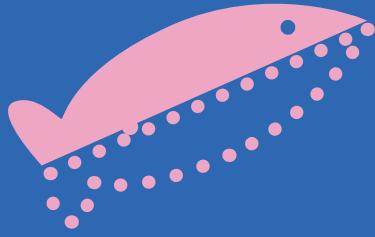
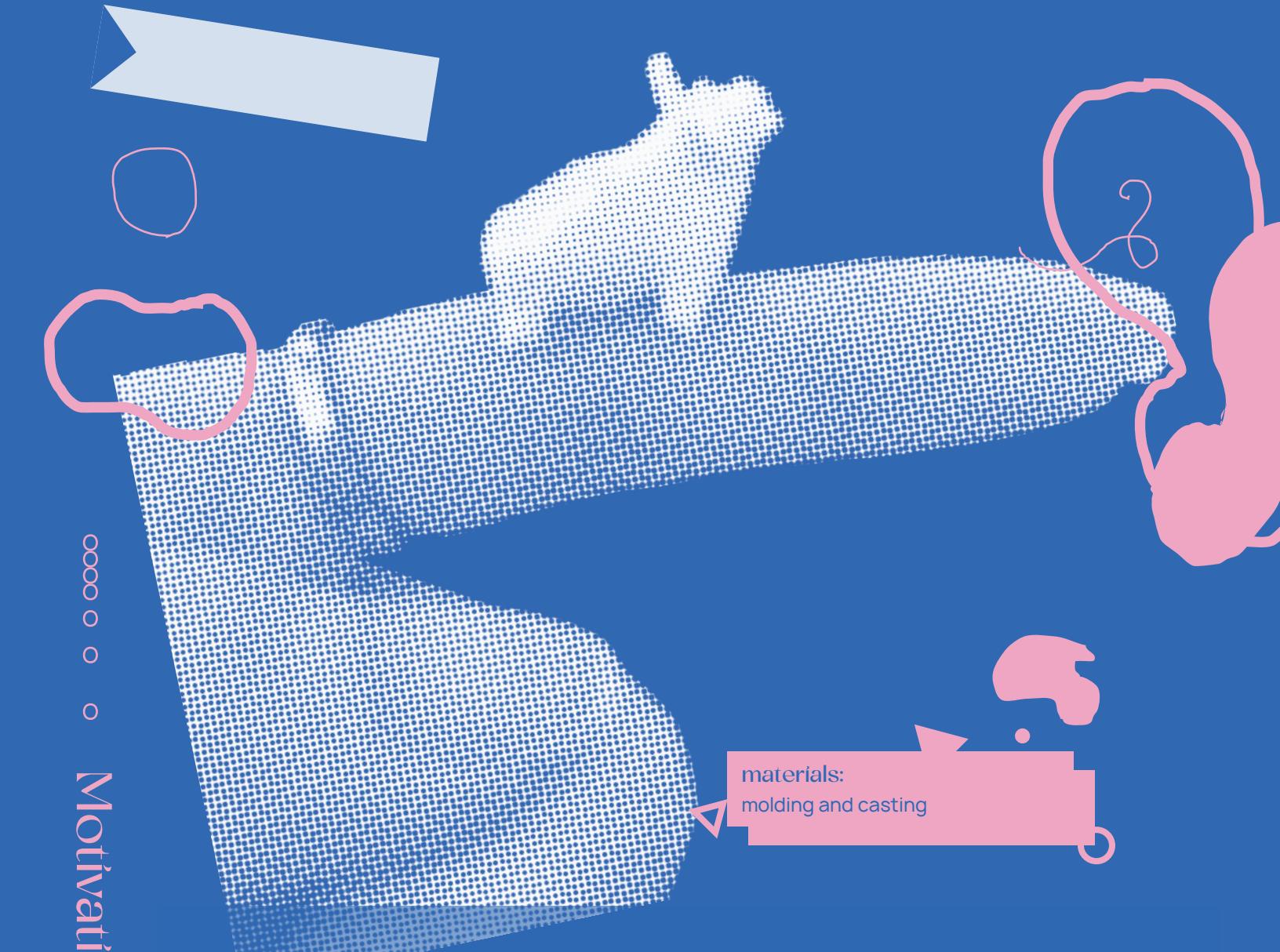
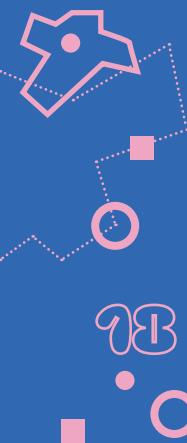


⑦ Molding & Casting

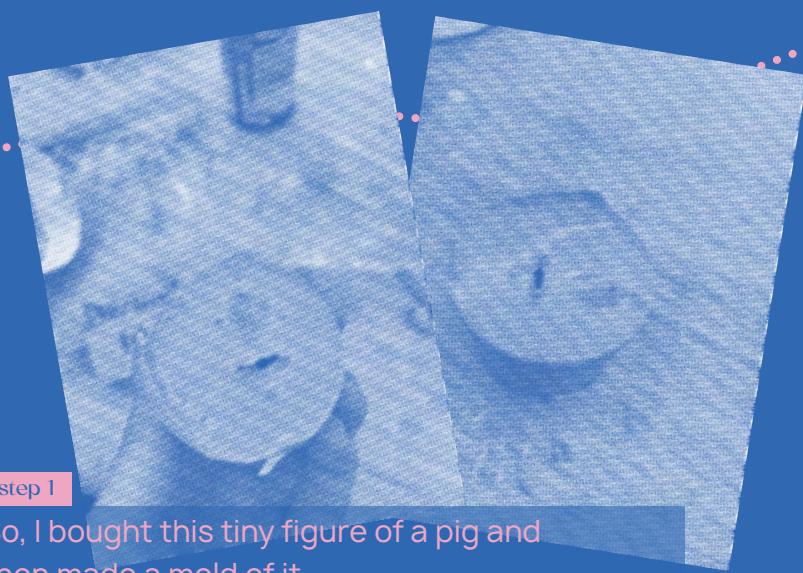
Motivation

As a series of conch that I made with clay, I wanted to make a set piece for this week's assignment. Since so many objects have symbolical meanings, I picked a pig's head this time. The pig's head surrounded by flies shows the misguided beliefs, that have a close relationship and connection with the bible.

materials:
molding and casting



Process



step 1

So, I bought this tiny figure of a pig and then made a mold of it.

These are photos of the process of making the mold and putting the figure inside. After making the mold, I poured the liquid into it and the casted pig is now here! I just cut the top of the mold with scissors to keep the back of the pig's figure while casting.



step 3

Got a tiny pig!



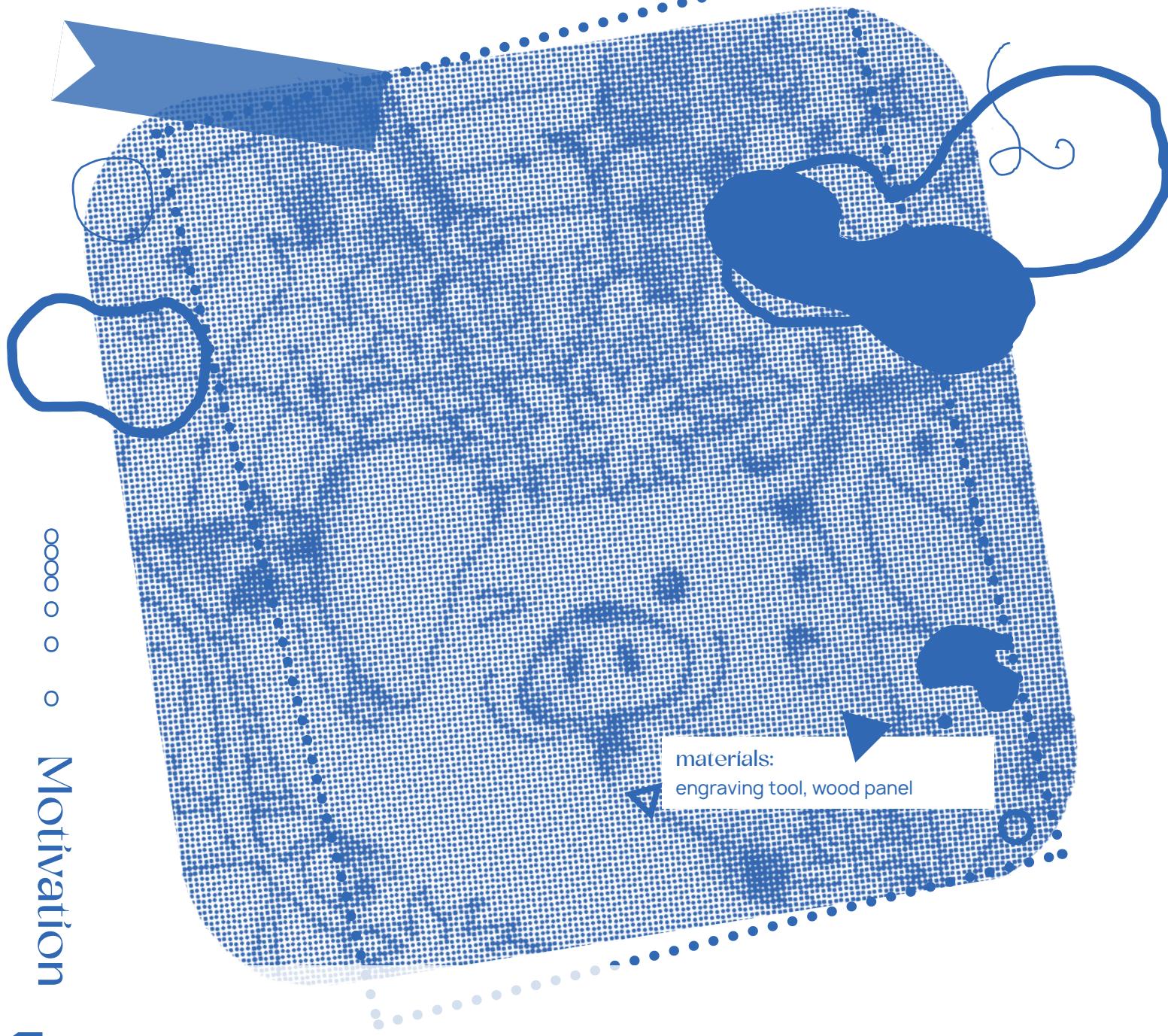
step 2

Wait until it's dried...It took about 40 minutes for it to get completely dried and ready to cast.

Reflection

It was kind of hard to get the perfect casting, and unfortunately, half of the back was not cast. Also, the liquid became solid so fast I lost almost 95% of the liquid that I had, so I couldn't try casting multiple times. I would not use the whole liquid next time when casting.

08 Etching + Engraving



I was motivated by last week's molding project, and expand the idea of embracing and loving all the creatures in this earth. Wilbur is 'terrific', and 'radiant' 'SOME PIG'! I loved this book showing how friendship is valuable and how all lives are precious.

09

Process



step 1

First off, I sketched the illustration for the book with a pig and some flowers on it's head and drew the spider web with a tiny spider on it. I drew the flowers and some stars on the background showing how Charlotte made Wilbur's life beautiful and full with love and dreams. I wanted to depict the message and the overall mood and tone of the book.



step 2

I engraved the lines first and then added some details (shades, backgrounds) afterwards.



step 3

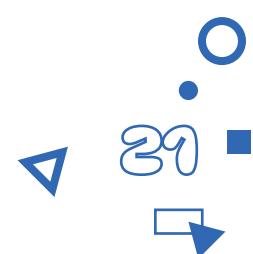
Refining edges and some blurry parts and then it's done!

Reflection

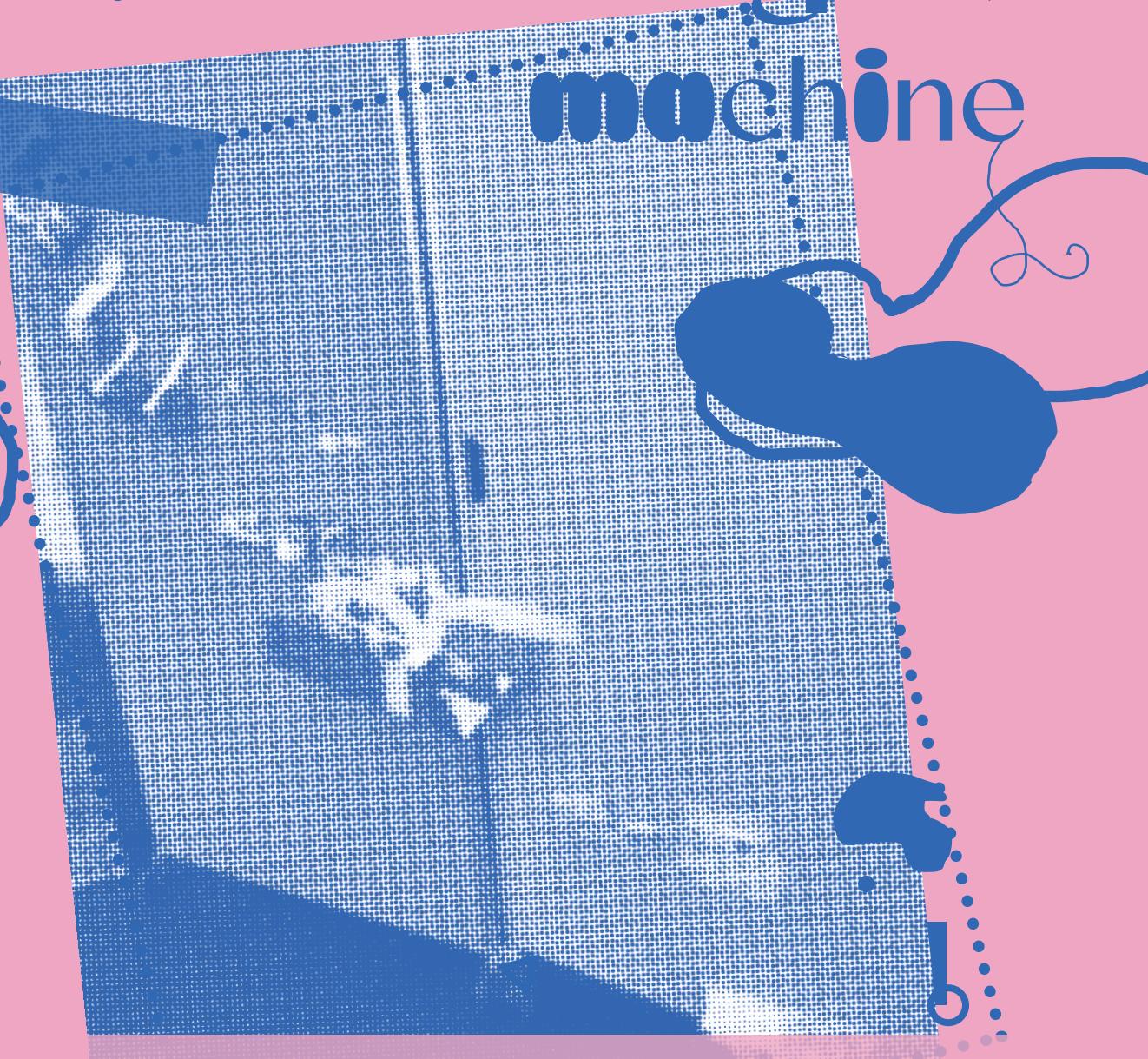
It was difficult at first knowing how much time that I need to stay and move. However, it didn't take that long for me to get used to the process, so it was not a torturing process at the end. I really wanted to make straight patterns between the webs, but it was hard to make it go straight.

I think for next time, I should use narrower tips if I have to fill narrow spaces. Since it

was first time for me doing this, it was kind of a experiment so I'm sure I can do this better next time. It was a fun project, and I'm happy with the outcome.



09 Rube Goldberg



machine

Motivation

For this project, the whole class in my section worked as a team, and we used the objects that we have. We had to use various materials for this assignment to meet the requirements for the machine.

The lists of materials that we used are: cardboards, tapes, clay, wooden panel, yarns, balloons, plastic cups, compass, wooden sticks, pins, and magnetics.

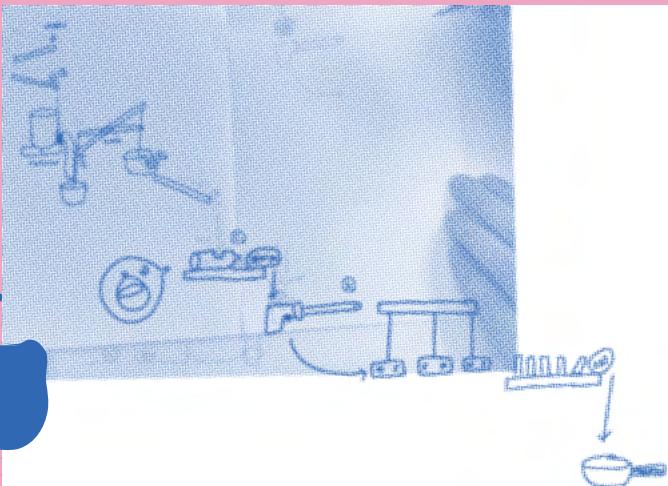
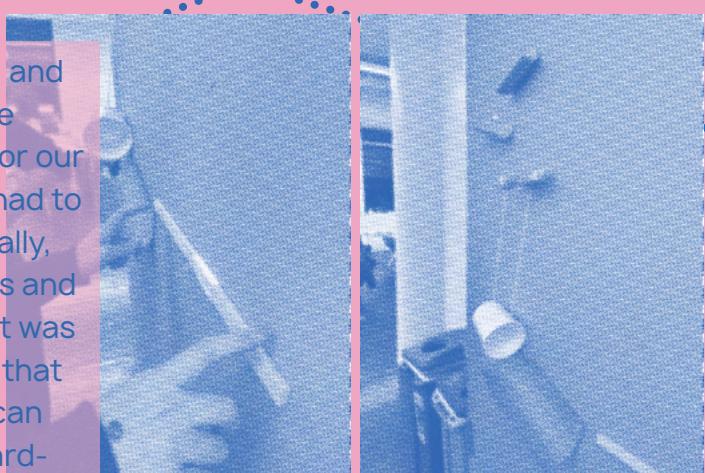
First, we sketched our Rube Goldberg machine on iPad. We tried to meet all the

requirements for the machine and had hard time coming up with what to do with magnetic toggles or interaction. We first made the sketch and decided to change and incorporate the things as needed while making, so the sketch for the Rube Goldberg was like this at first. We started with this sketch and with the materials that we have, we started making our machine on the wall in D12. We used lots and lots of cardboards and wooden sticks.

Process o o ooooo

oooo o o
Reflection

This was the very first part of the machine, and we used pins and tapes to attach these. We used cardboards for the most of the part for our machine. We taped them all over since we had to use liquid in some part of our machine. Initially, we were planning to use thicker cardboards and wooden sticks to make it more stable, but it was hard to put them on the wall since the pins that we had were not having long needles that can hold them. So we decided to use thinner cardboards.



- step 3
- The compass will fall and make the balloon burst, and then the water came out from the balloon is going to hit our lollipop, and finally, the lollipop is going to hit the dominos and yay! That's the last part of our machine.

...And it finally worked! We had to try multiple times testing it, and we were glad that it worked at the end. It was not easy to stick all the things together, and we had to make lots of supports to hold those since our machine was in a big scale.

Also, since we used water, the tapes that we attached here and there were falling apart every time, so we needed to fix it every single time we are testing. It was an extra job to do, but at the end, we finally made it.

A blue-toned photograph showing a person's lower body from the side as they walk. They are wearing light-colored shorts and dark shoes. A small blue box in the bottom left corner contains the text "step 2". The background is a blurred outdoor scene with trees and a building.

This is from the middle to the end of our machine. The lollipop-like thing in the middle is supposed to kick the dominos to fall. At first, we thought it would be nice to make pendulum with magnetics in the middle, but our magnetics were not strong enough to make the thing that we thought happen, so we decided to make it directly kick the dominos.

It took longer than I expected at first since not all the things that we planned perfectly worked. However, we learned a lot through the process and it was a nice experience making this machine.



10 Sensing & Actuation

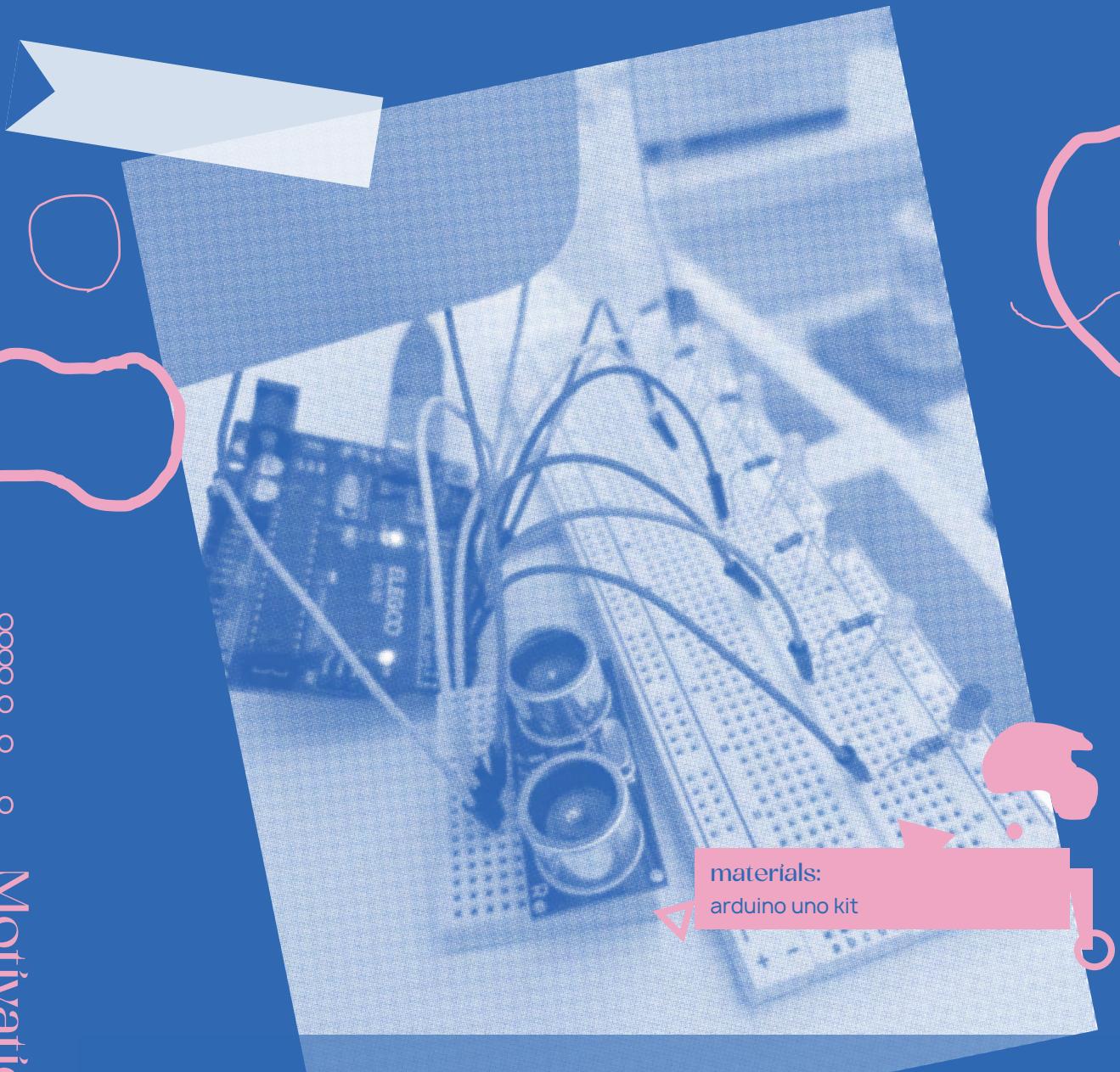
Motivation

Recently, my boba drinks were stolen by someone in my floor, so I was thinking of making a sensor that can tell when the drink is dropped off in front of the door. Then, I found a reference of lights that light up when something gets close to the sensor.

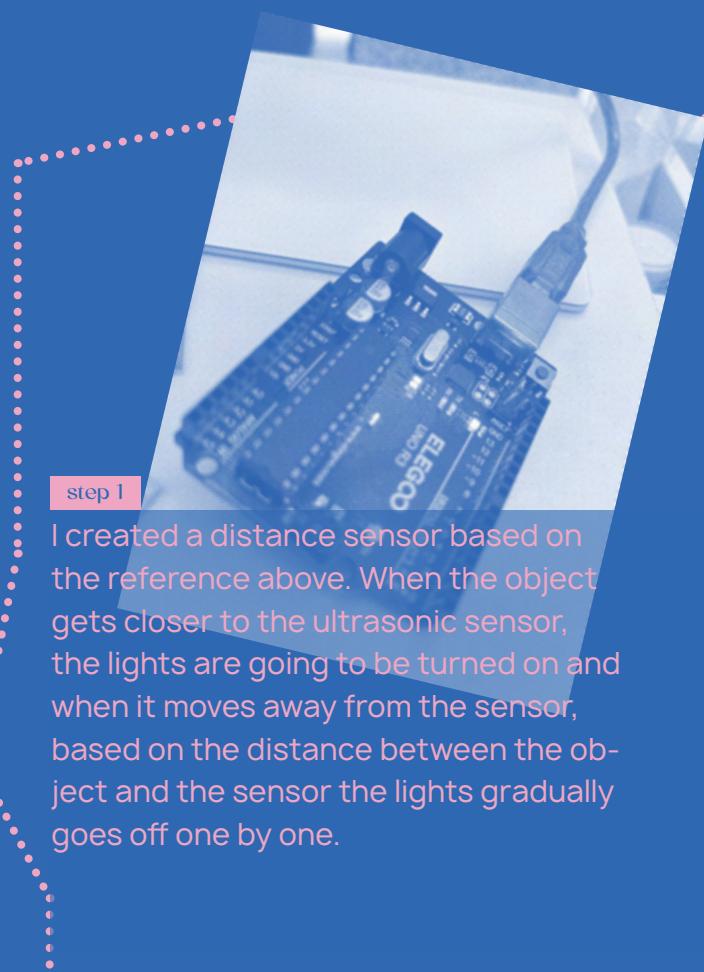
Following the tutorial, I created the sensor with arduino uno kit that lights on when something is close the sensor. I imagine installing this where dashers leave the

materials:
arduino uno kit

package and the p5js sketch that I created would tell if something is dropped off in front of the door with color changes and scale changes of the circle.



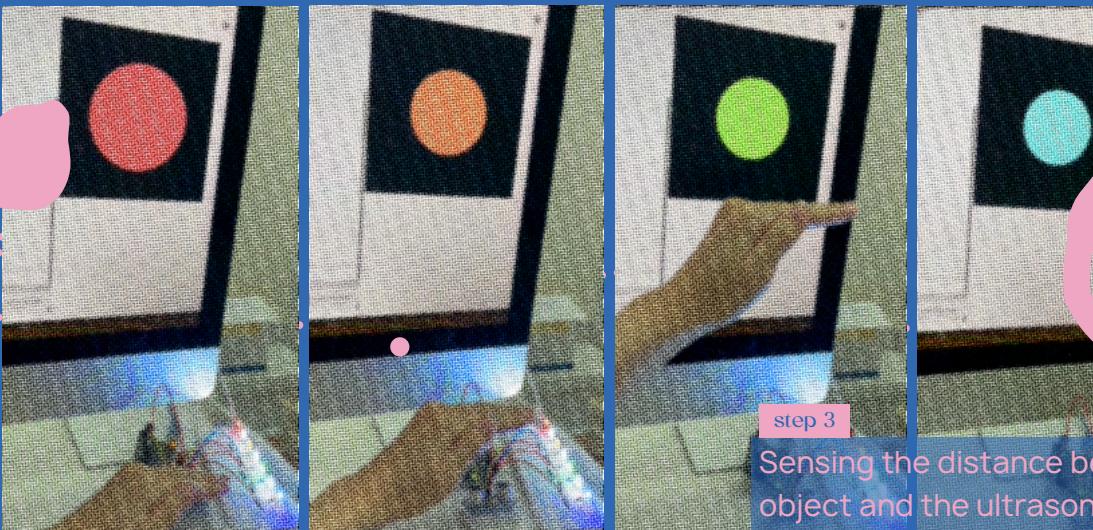
Process



step 1

I created a distance sensor based on the reference above. When the object gets closer to the ultrasonic sensor, the lights are going to be turned on and when it moves away from the sensor, based on the distance between the object and the sensor the lights gradually goes off one by one.

Reflection



step 3

Since it was first time using arduino uno kit for me, it was hard to figure out when something goes wrong. It was fun bringing the data from arduino to p5js. It was interesting seeing it working and how they sense the data and import it to the p5js sketch.

Here is the p5.js sketch of the project. Based on the distance between a hand and the ultrasonic sensor, the color and the scale of the circle at the center of the canvas changes. When the hand gets closer, the circle gets bigger and the circle's color gets closer to red.

Sensing the distance between the object and the ultrasonic sensor, the lights and the scale and the color of the circle in p5js sketch will tell us when the package arrives!



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xFab zine 2024

yay!

2024 Fall xFab Zine
Seungyeon Lee

Parsons School of Design
Design and Technology