**HOLL MUJI** 無印良品

#### FRAMEWORK

our competencies and approach



# LIKE A CABLE BRIDGE

NIKE's inspiration

Inspired by a cable bridge and the way that the cables provide enough structure to hold up the load of the bridge, yet flexible enough to maintain balance and adapt to forces such as wind or traffic, parts of Flyknit is knitted more dense so that it provides support for the ergonomics of running, while the laces form tension points that mimicks a bridge's cables.







































#### MUJI

Client

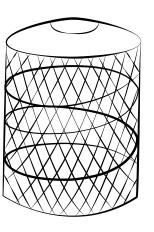
The client that we chose to design for is Muji. Muji's brand of "no brand" focuses on bringing products to its simplest form with a sense of "emptiness" so that it can speak to different people. We feel that their values resonate with our opening, as their products are "empty containers" that adapt to the different meanings people put to it, yet offers support as a product of everyday life.



#### TRASH BIN

Adapting to natural movement through form

For our first provisional form of a trash bin in a public area such as a mall. Currently, Muji designs simple household products that are functional and affordable. However, we want to extend their values of everyday living, but not within the context of the household, so we saw this as an opportunity to break through one of their competencies and instead, design for the community.



FINGER TRAP TOY

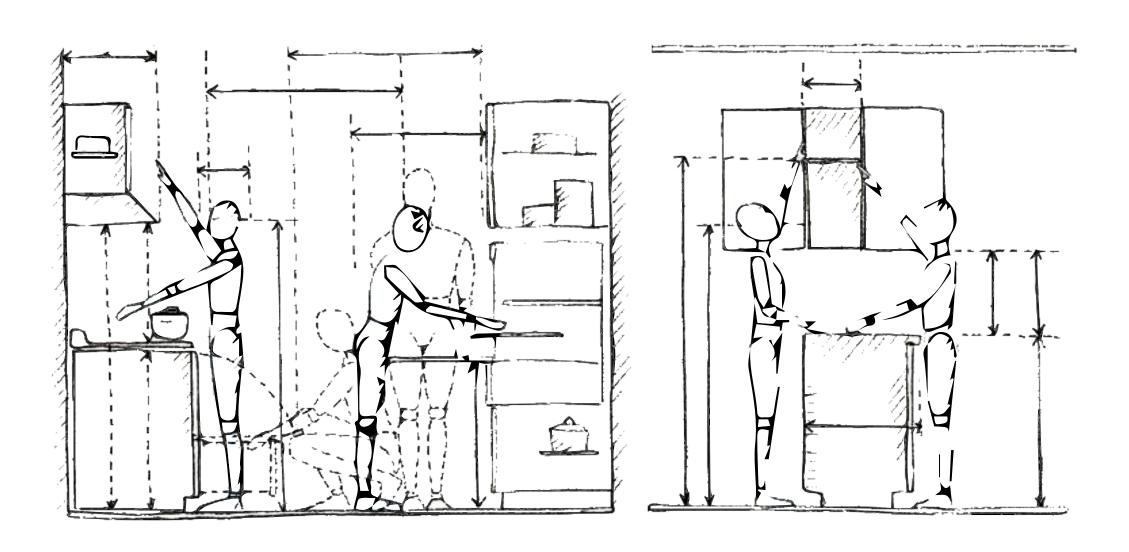
Our inspiration

The simplicity of this toy, with its ability of contracting to release and extending to hold.



Our inspiration

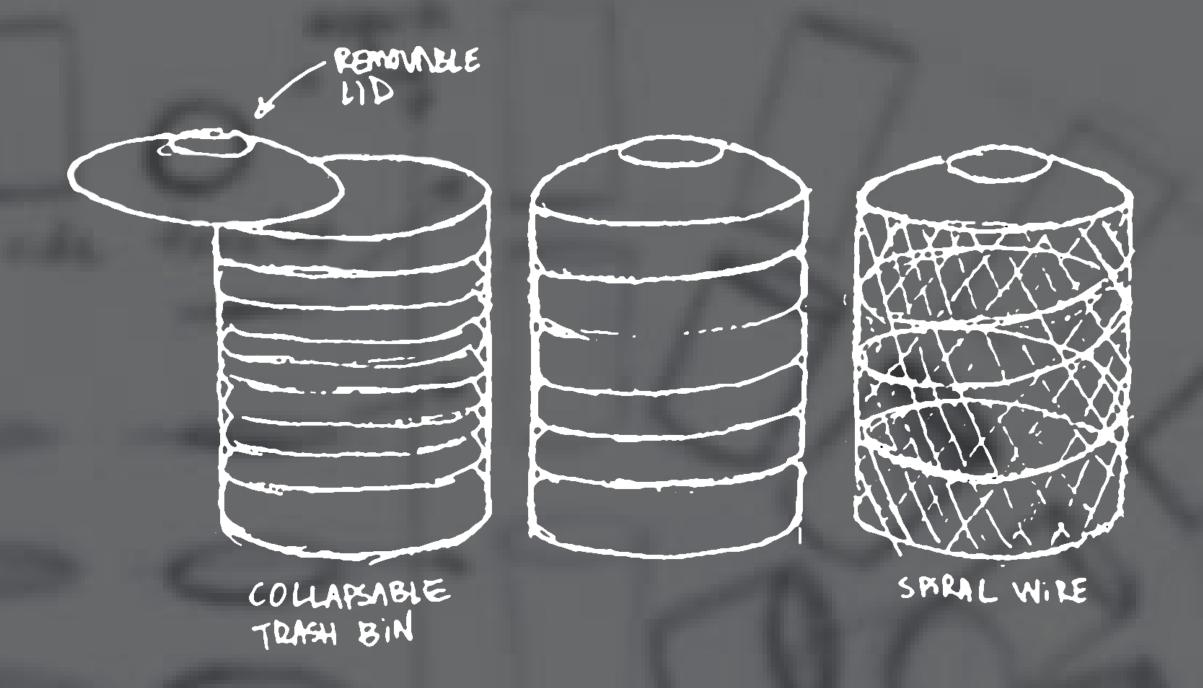
The idea of "adaptive support" through scissor like actions of its joints.



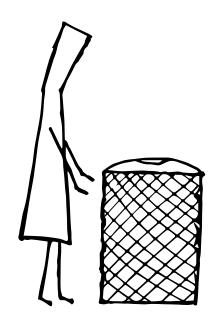
#### RESEARCH

On ergonomics in lifting

For janitorial staff, there are ergonomic hazards in repetitive actions of lifting heavy garbage out of trash cans, due to exertions on muscles and joints, which can lead to injury to the muscles and tendons in the shoulder. From observation, we noticed that the interaction of lifting something heavy above the height of your waist, so that your hand bends above your elbow or your elbow lifts up so that your shoulder shrugs up is unnatural. We took this as an opportunity to invoke behaviour in a way that offers a new interaction.



# FORM EXPLORATION



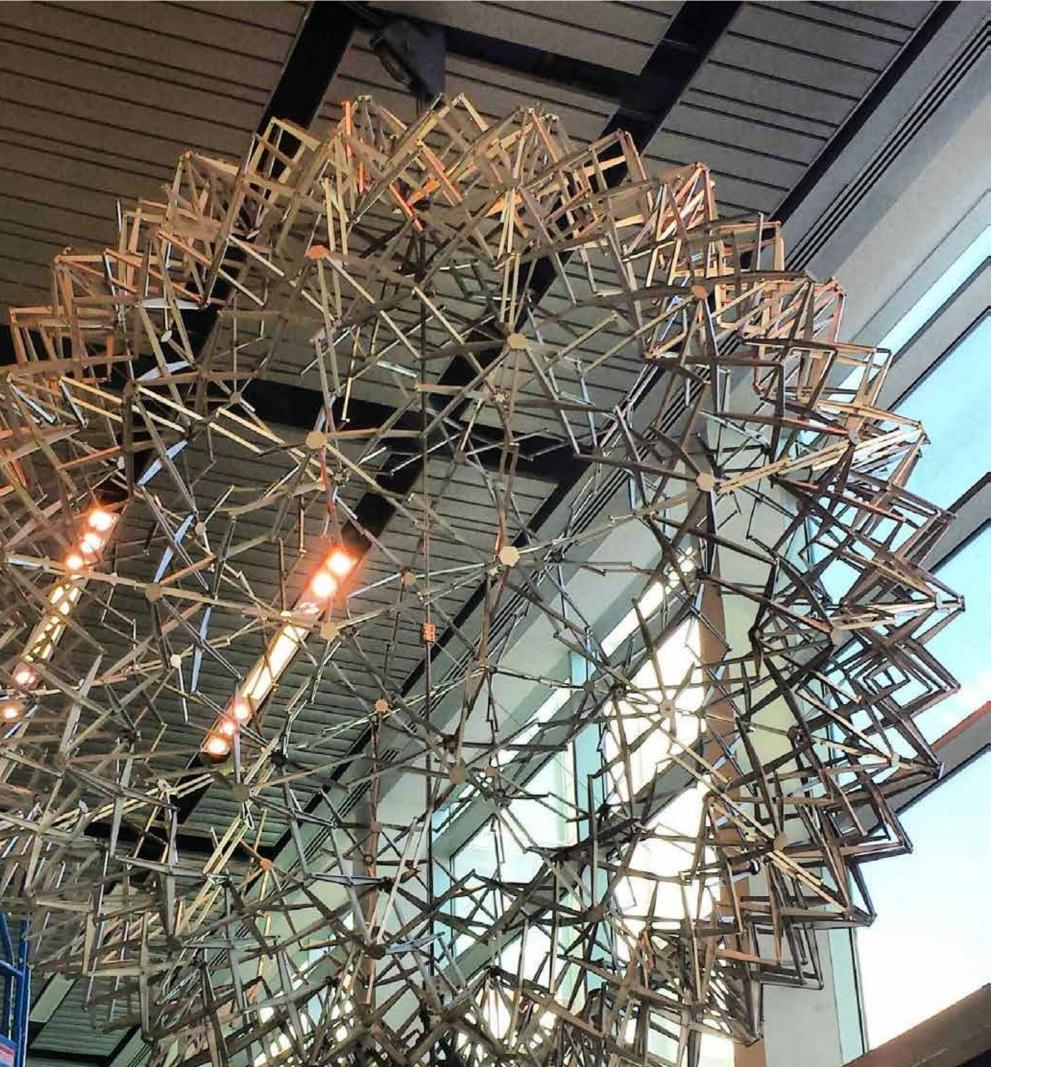




#### OUR DESIGN

Why form

We redesigned this interaction with adaptive support in mind by having a form that oscillates from a structured expanded state to a compact state which adapts to garbage that can be lifted out at a lower height to minimize the load on the joints and affords the opportunity create a more natural interaction. There is mechanical tension where each metal component folds at a crossing point. We want to stress on the interaction with the object which is the motion of pushing down and pulling up, with the final point of tension being the moment that it "snaps" back into the extended form, which goes back to the structure of the support.



#### STRUCTURE

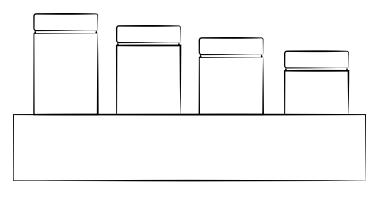
Why form

Inspired by the Hoberman Sphere and finger trap toy, our design is made from an interlocking skeleton of collapsing edges that also has the ability to form a concrete structure, which reinforces the notion of a lightweight and flexible design, just like Flyknit. Consistent with Muji's minimal yet functional design, we have also chosen to use one material—steel, to add to the efficiency of how it folds and fits together.



#### SET OF JARS

Bringing awareness to habitual nuances

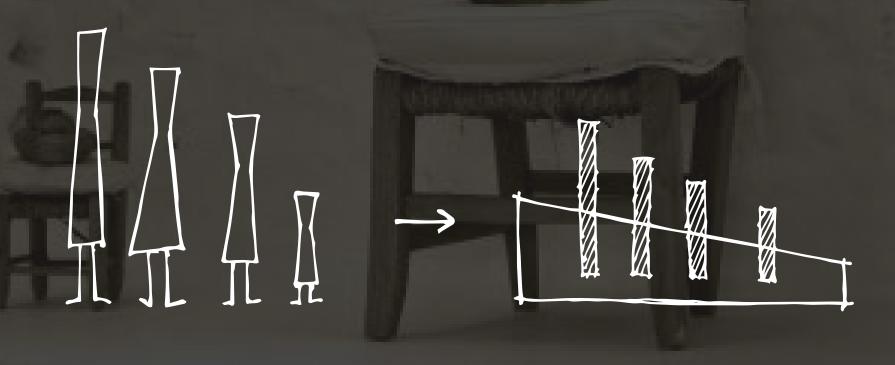


One of Muji's competencies is to design products that are predominately angled at 45 or 90 degrees. Our second provisional form is a set of jars aimed to provide a subtle avenue for people to notice their habitual nuaces. To play with the idea of subtlety, we've decided to incorporate a subtle angle to our product that is neither 45 or 90 degrees, breaking one of Muji's core competencies.

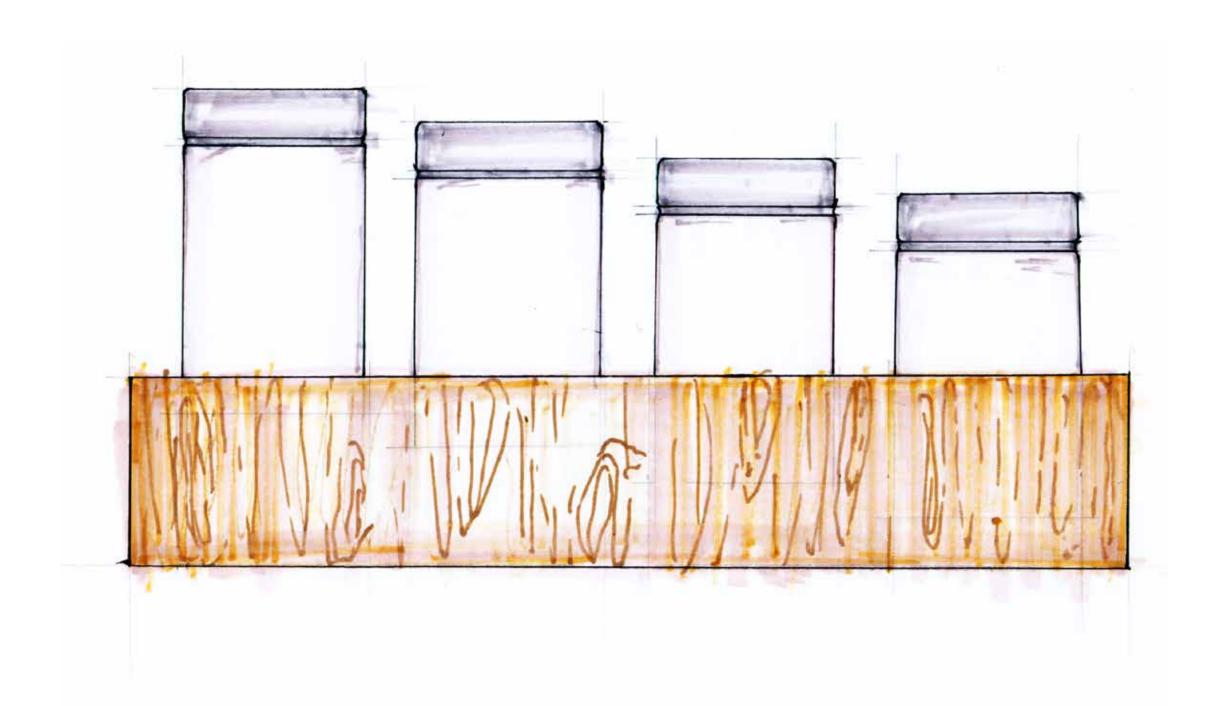
## UNSPOKEN DESIGNATION

Our Inspiration

The process we used here is the journey map, where we first identified the context (household), and as a team, we brainstormed about the familial interactions people have at home and we thought of the story of goldilocks. Traditionally, many homes have the idea of the "power seat" where the authoritative figure of the household suggests certain cues and habitual nuances that everyone else follows, such as how each family member would sit in the same spots at the dining table. The sense of "unspoken designation" that exists within households and the hierarchy of the chairs from goldilocks is what inspired our form.







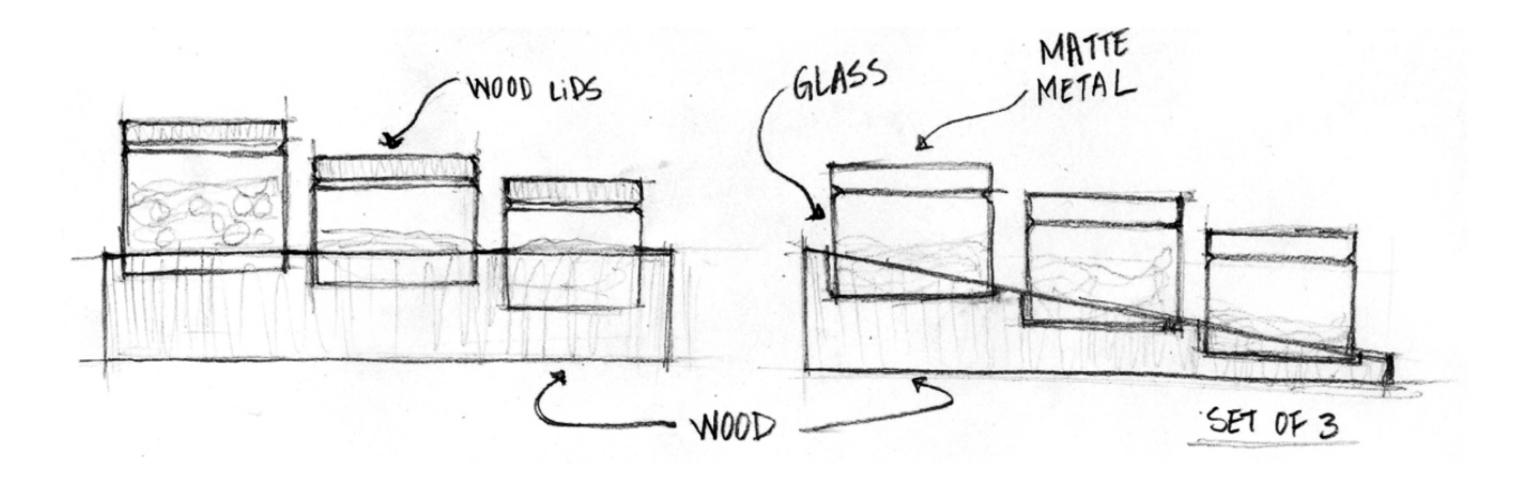
### SUBTLETY

Adaptive support and tension

#### FORM EXPLORATION

Tension and hierarchy

After exploring with various forms, we went with the design where the jars lined up to a slope because this created an interesting, yet subtle visual tension. This sense of visual adaptation also implies that the most revealed jar is also the one that gets used most, therefore creating a hierarchy in the pattern of how much an individual uses the contents of each jar. This pattern can easily be altered by rearranging the uniform jars because it's not fixed in place and therefore offers the opportunity of adaptation.



# MATERIALS Thinking like Muji

WOUD LID

CLEAP
GLACS