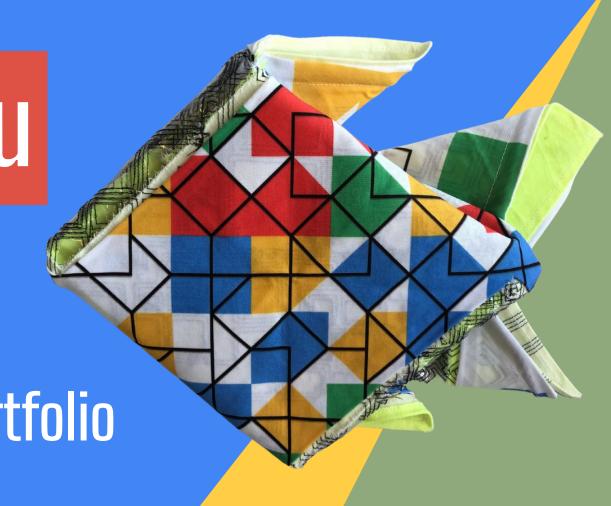
Oribaggu

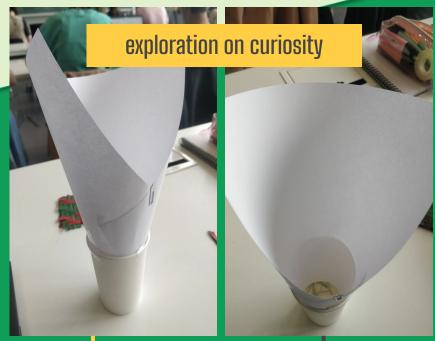
Group 12 Annotated Portfolio

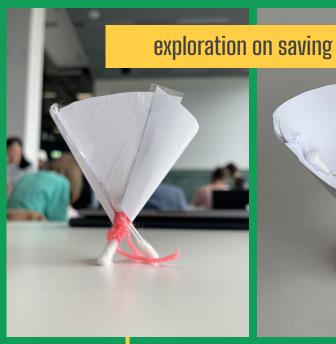
Digital Craftsmanship - DCB150



#1. Explorations on values

commonalities between our explorations

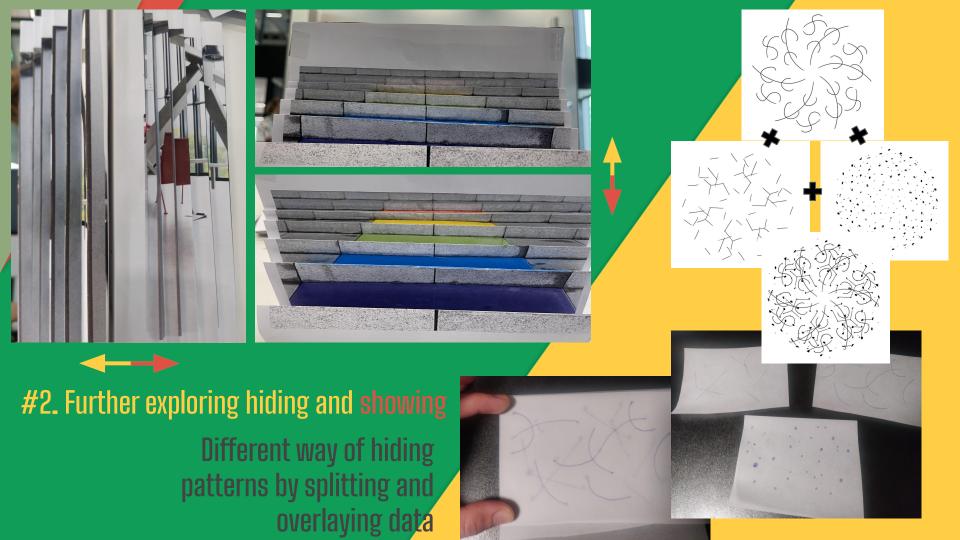






from one angle contents are hidden

from another angle openness is embraced, contents are visible



#3. Connecting hiding & showing with data & coding

Coordinate data

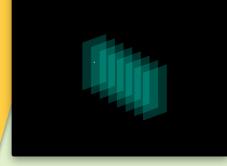
Using Longitude and Latitude of landmarks to visualize locations of interest

MappingSimple XY-plot



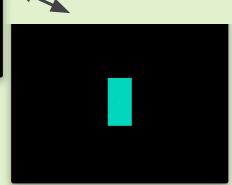
Layering

Using several planes of data visualization in combination in order to create a new pattern. The layering could be done for an endless amount of possibilities using different sets of data.



Waveforms

Length of lines based on size of longitude and latitude integers.



#4. Picking a theme: Curiosity

- Hide
- Show
- Openness
- Different view angles
- Explore
- Discover

(sub themes that came out of the previous explorations)

Curiosity /,kjv8.ri'ps.8.ti/

- 1. an eager wish to know or learn about something
- 2. something that is interesting because it is rare and unusual

~Cambridge Dictionary



Rare and unusual objects.



Where did the folds come from? Where could they go?

Image retrieved from http://www.siambag789.com/product/466/

Desire to know what is held

inside.

Vision Bags

Concept bag features

Flexibility of the shape it holds

Furoshiki Japanese cloth wrapping techniques

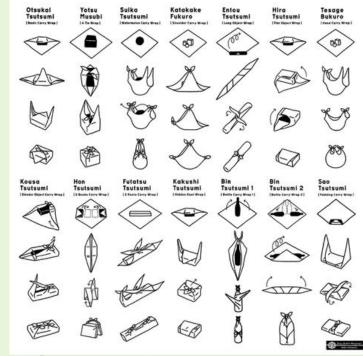
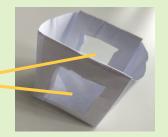


Image retrieved from

#5. Shape exploration with paper

Transparency - Sparking looks from viewers. What is in there? Why can I look inside?



Paper template
Proving foldability of single plane in different shapes







More "flat" options possible















Folds create a pattern on their own

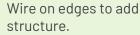




#6. Folding fabric



Paper/Fabric Layering
Adding rigidity





Wire between Fabrics, a lot of wire needed adds weight

Wireframing

Creating structure, but only on limited fold locations



Full overlay vs Segmented (Limited folds)









Stitching
Creating
designated fold
lines, which are
limited. Users
can't explore more



Gluing
Added rigidity and
stiffness, without
restrictions



#7. Extra mechanisms for holding the bag in shape











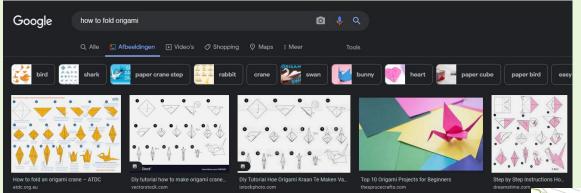
Gym bag style Scrunch up an edge of the material in order to form a container.



Attach Velcro on commonly folded sections in order to retain folds or shapes.



#8. Incorporating data & technology



To explore curiosity, to discover something you that is unknown, the internet is used. Linking this technology to the theme.

For this reason Google's search engine data is used in order to compute our patterns and designs.

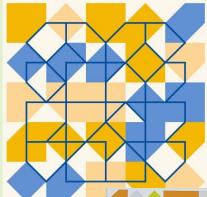
Taking the data from the curiosity of others to be able to explore our own, through the bag, with use of the digital visualization of this data. In the process creating contrast compared to it's the functionality.





#9. Sublimation printing

Template used from Roni Kaufman (https://openprocessing.org/sketch/1535204)



Pattern represent the same ratio of the population of daily google searches.

pattern

```
let n = 11;
let s = (width-2*margin)/n:
```

Code generates an 11x11 pattern.

```
let d1 = 0;
let d2 = s*1.5;
```

11x11 pattern starts at the edge of the sketch. 2^{nd} pattern starts 1.5 squares inwards in x and y direction.

```
nostroke();
for (let x = margin+d1; x < width-margin-d1; x += s) {
    for (let y = margin+d1; y < height-margin-d1; y += s) {
        fill(random(palette));
        makeTile(x, y, s);
    }
}</pre>
```

noFill();
stroke('∎#000");
strokeWeight(4);
for (let x = margin+d2; x < width-margin-d2; x += s) {
 for (let y = margin+d2; y < height-margin-d2; y += s) {
 makeTile(x, y, s);
 }</pre>

In the case of 11 squares wide the inner pattern is then 8.

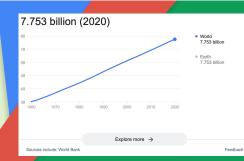
Relation between pattern and data: width of colourful pattern (=11) / width of inner pattern (=8) = world population (=7.7 billion) / google searches per day (=5.6 billion).



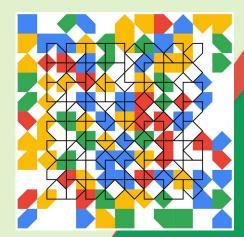
There are 5.6 billion Google searches per day

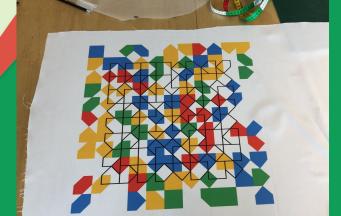
Google runs around 63,000 search queries per second, which adds up to 5.6 billion searches per day or 2 trillion per year. 4 Aug 2021

https://fitsmallbusiness.com > google-search-statistics *



Colors were adjusted to link with those used by Google. Creating a subconscious connection with technology to the viewer.







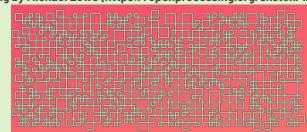
Embroidery testing Effect of stitching pattern and distance on foldability of the fabric.







Original processing by Michael Lowe (https://openprocessing.org/sketch/1240566)



```
function getCellSizeAt(x, y) {
 let size = map(noise(x * noiseScale, y * noiseScale) ** p, 0.18 ** p, 0.82 ** p, cellSize, maxSquareSize);
 size = constrain(size, cellSize, maxSquareSize);
 size -= size % cellSize;
  return size;
```

function getCellSizeAt(x, y) {
 let test=random(106) if (test<= 12.12){ size=80: else if (test<=20.82){ else if (test<= 34.62){ else if (test<= 54.22){

else if (test<= 78.2){

else if (test<= 106){

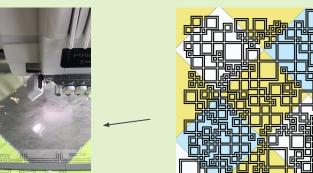
return size;

size=40:

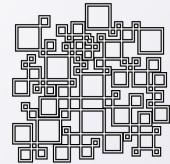
size=20:

Randomly generated size based on previous square size.

#10. Digital Embroidery Pattern & Data



Pattern laid over different bag materials



Data insertion

Square size is equal to Google search size distribution. (1 to 6+ words on search query) Color and shape corrected.











#11. Final Product Oribaggu

From Japanese:

Ori - gami Ori = Folding Gami = Paper

Ori - baggu Baggu = Bag The purpose of Oribaggu is to allow the user to fully explore their curiosity through the bag.

The two patterns were fitted on the two sides of the bag. No limited folding materials were used, so any form is possible.



What can be seen when a new animal/object is created?
An unusual and rare object can be formed by wanting to explore new shapes and forms.





Note the vibrant colors of the fabrics used, made to draw even more attention to the bag from the outside, to spark interest and mystery for viewers.



Functionality

Bag shapes can be formed displaying or hiding the inside



Different folds combine both data types



