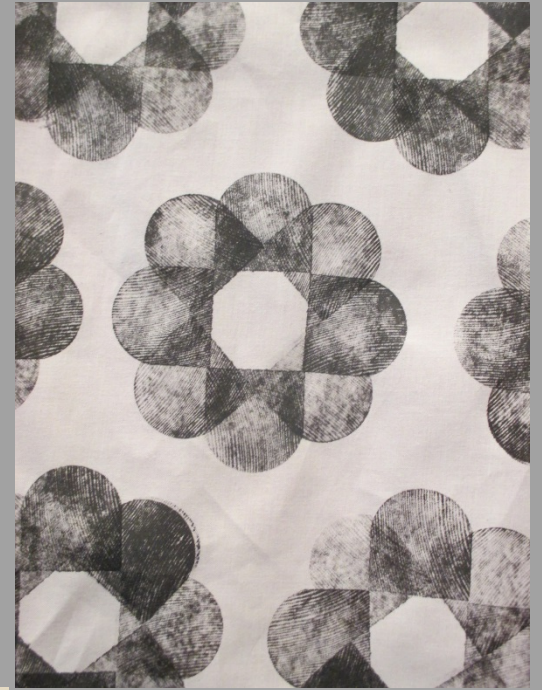




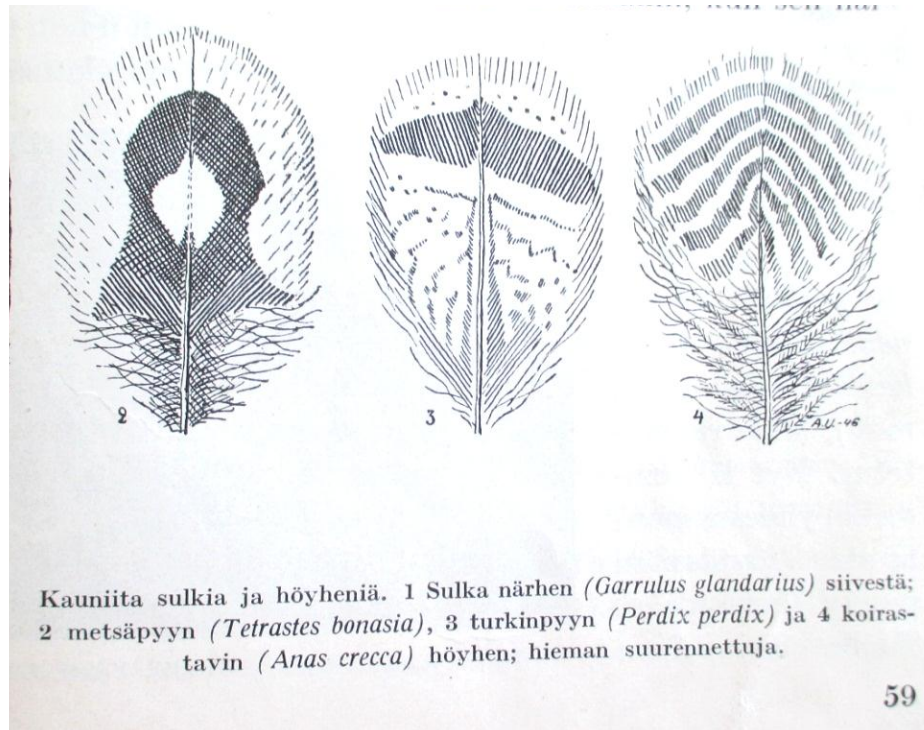
Rhythm Repetition Surface



Shapes In Action
Aalto University
Laura
Isoniemi
12.9 2018

Repetition and symmetry in nature

- Trees and branches
- Animals
- Plants



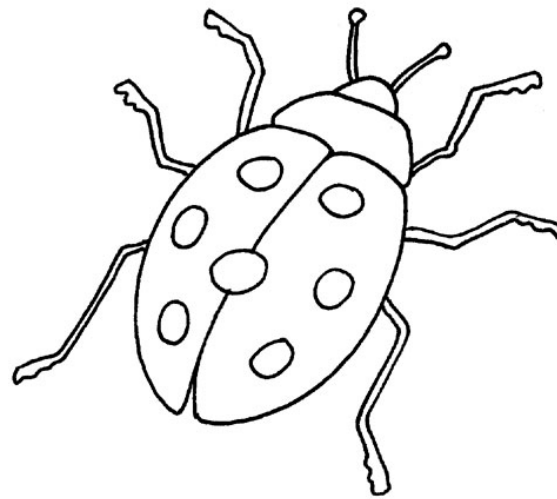
- Symmetry in plants



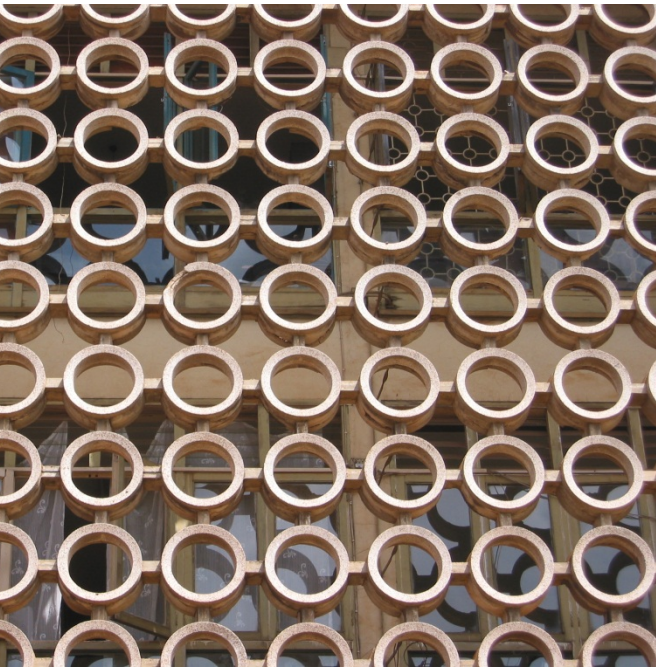
- Symmetry in trees and branches



- Symmetry in animals



Repetitions in built architecture





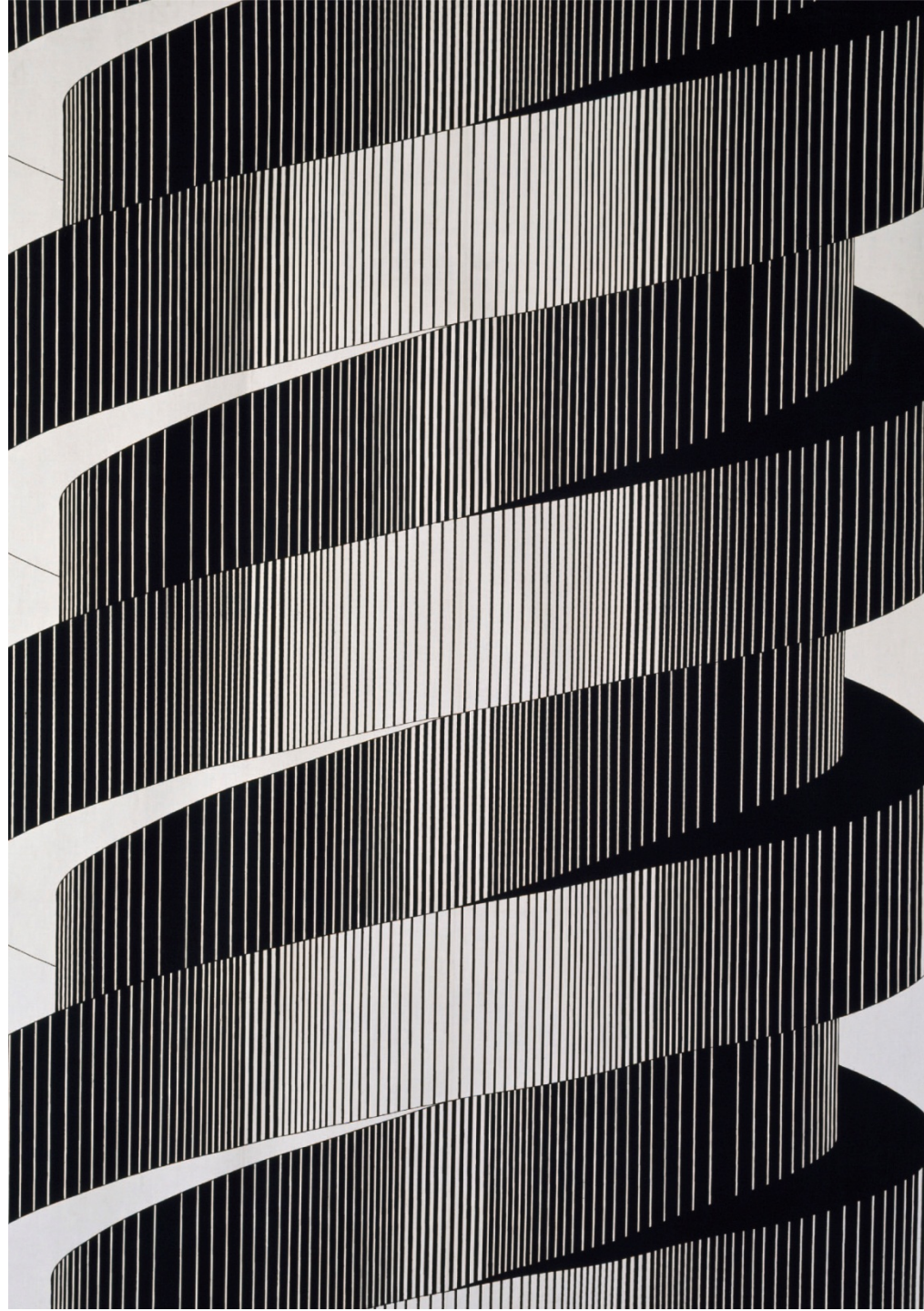
Repetition and symmetry in fabrics.

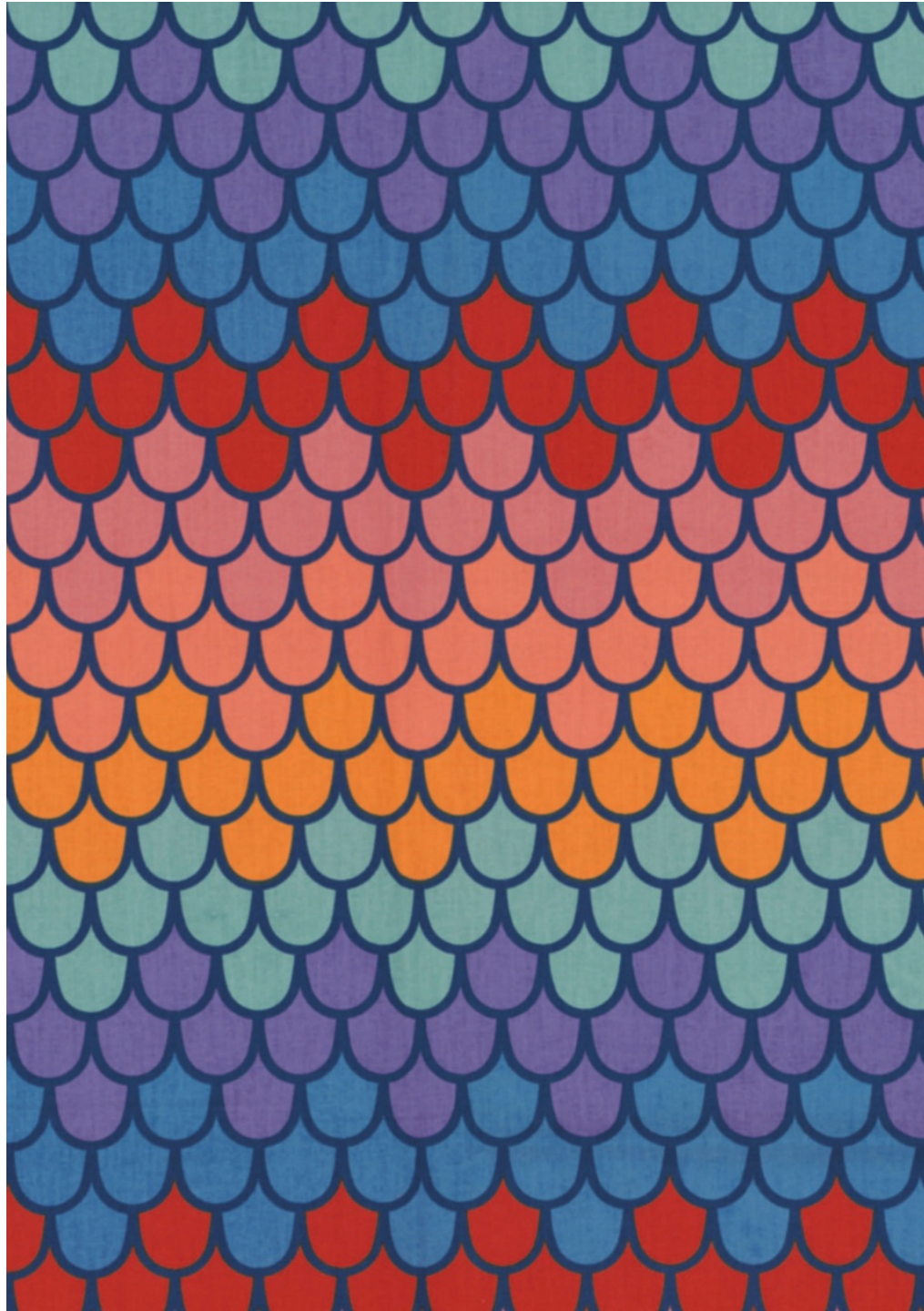
Time can be seen in the composition of the textiles.

British textiles from the 40', 50' and 60'. Heals.

Victoria and Albert Museum.

Barbara Brown for
Heals ,1969.

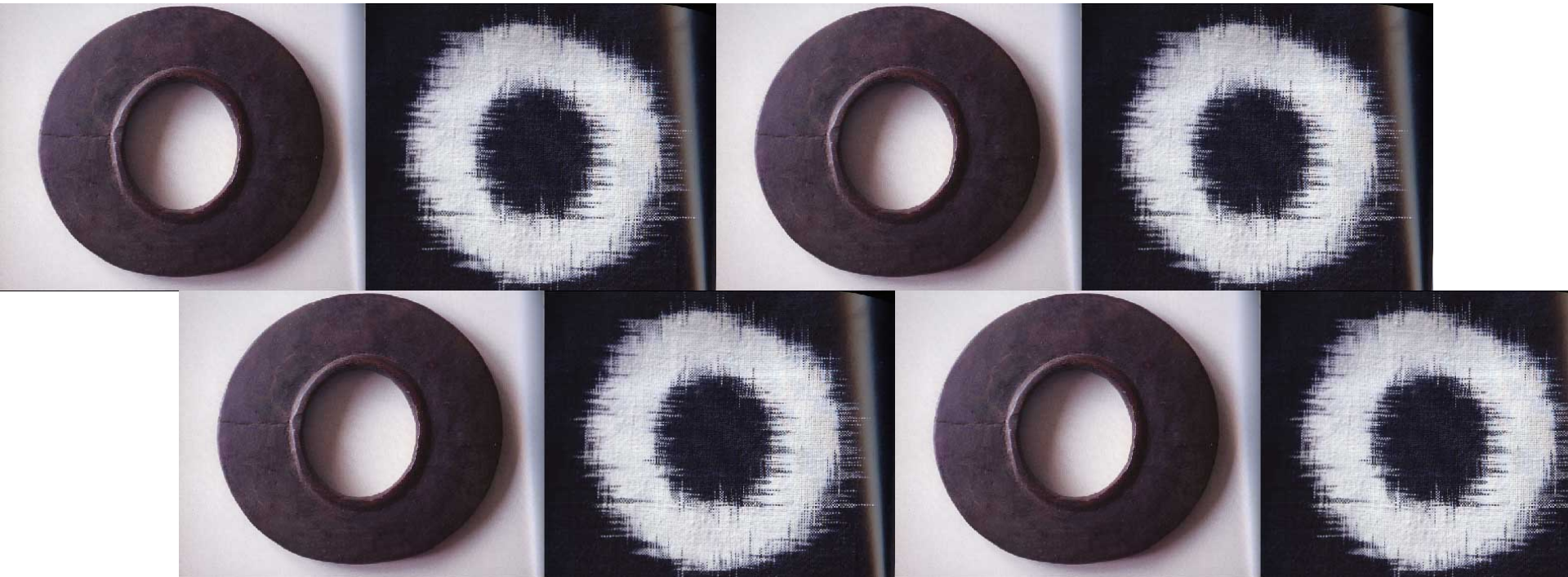


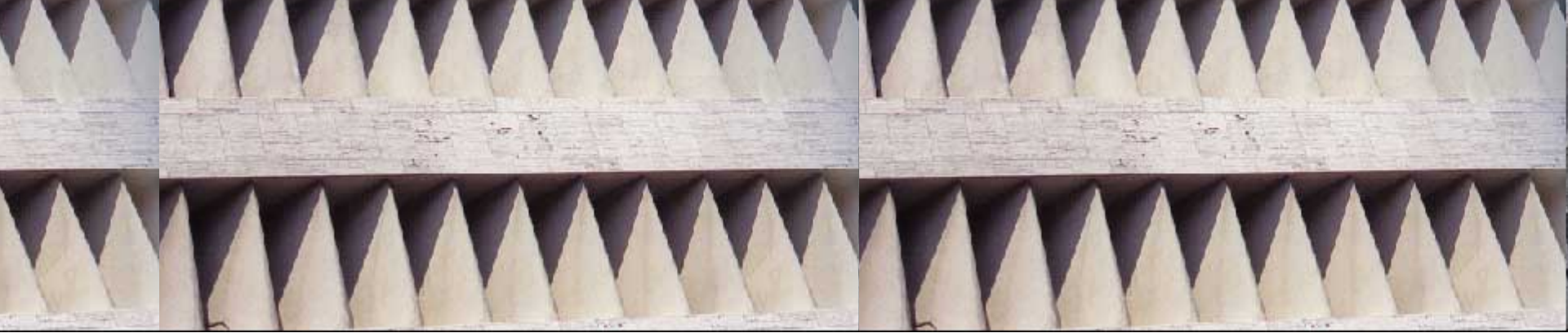


Surface design

- Surfaces that seem to be continuous are created by repeating the module or wanted figure element systematically .
- The surface is consisted together out of the printed elements and the empty space in between the elements. Unprinted and printed areas together create the rhythm to the surface.

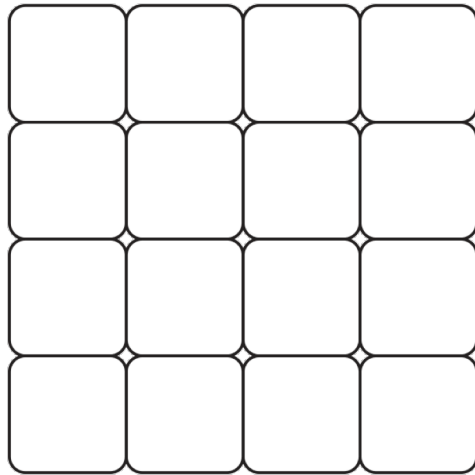
- The **rhythm between the figure elements** is born from the changes and **variations between the unprinted and printed parts.**



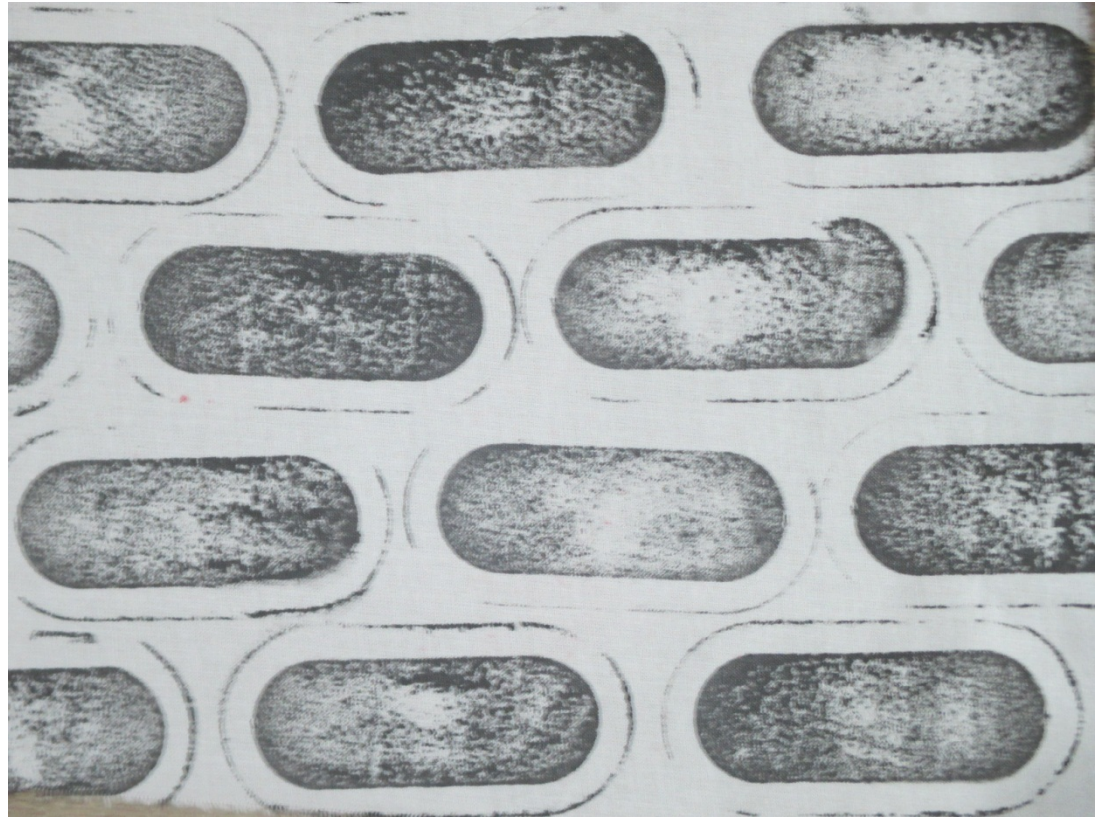
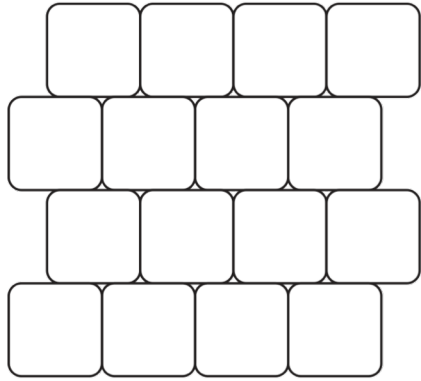


- When building the surface , note:
 - To what **direction** you repeat the figure
 - How **often** you repeat the figure(density)
 - Horizontal, diagonal ?
 - As an ornament
 - Movement in the surface

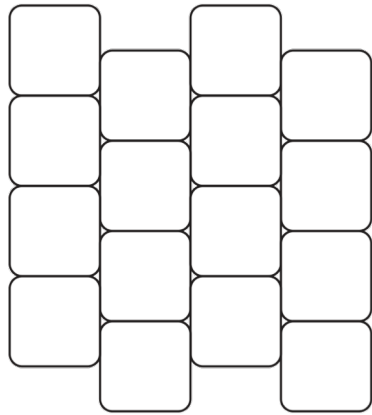
Even repetition



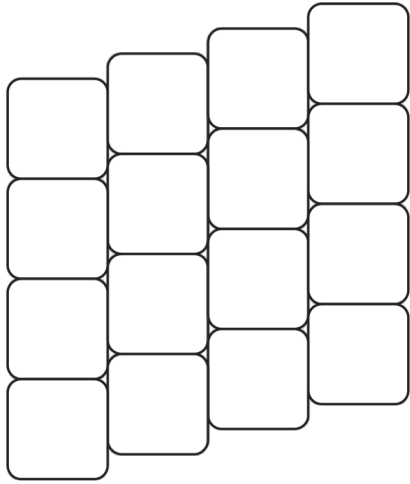
Sideway repetition



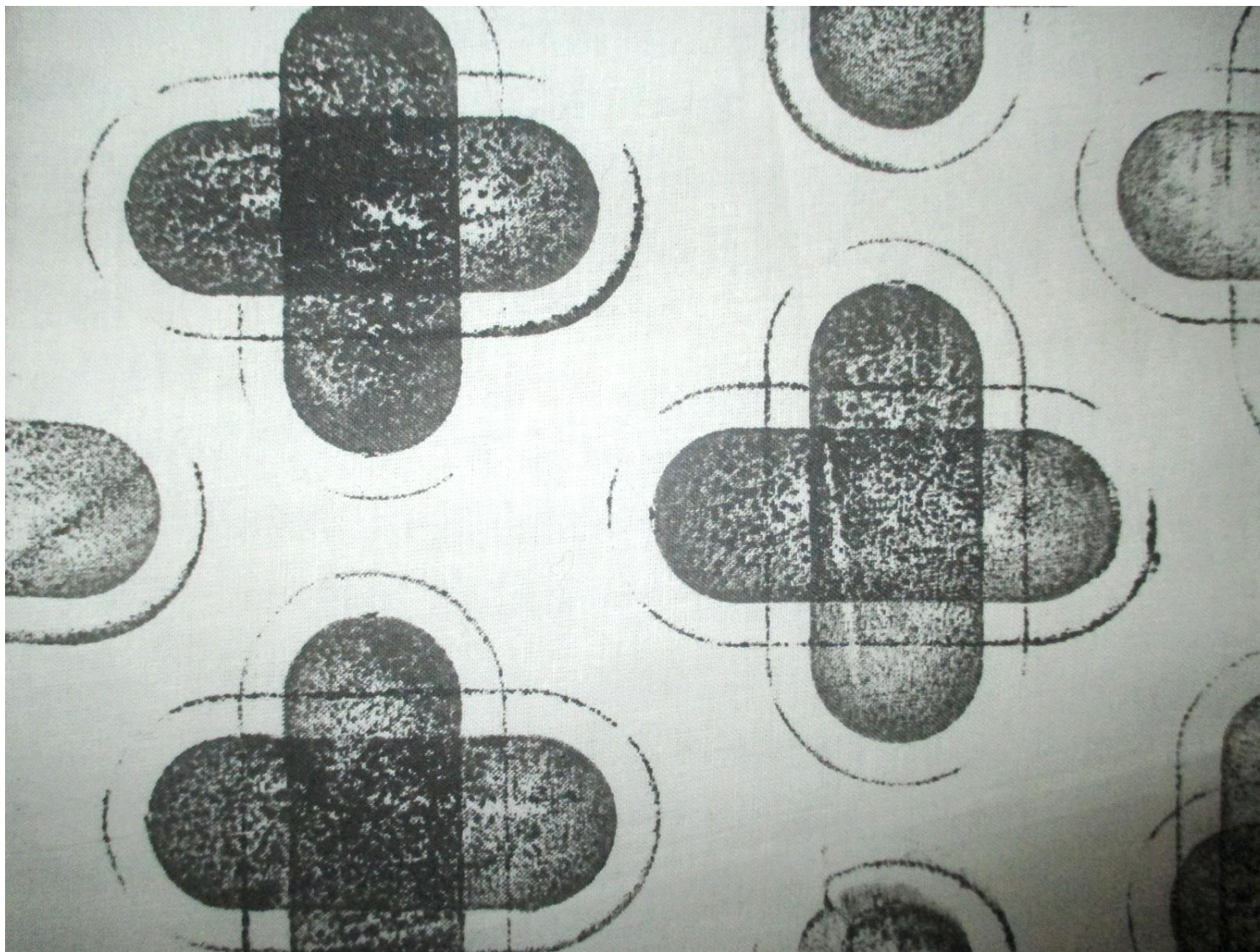
Upwards repetition

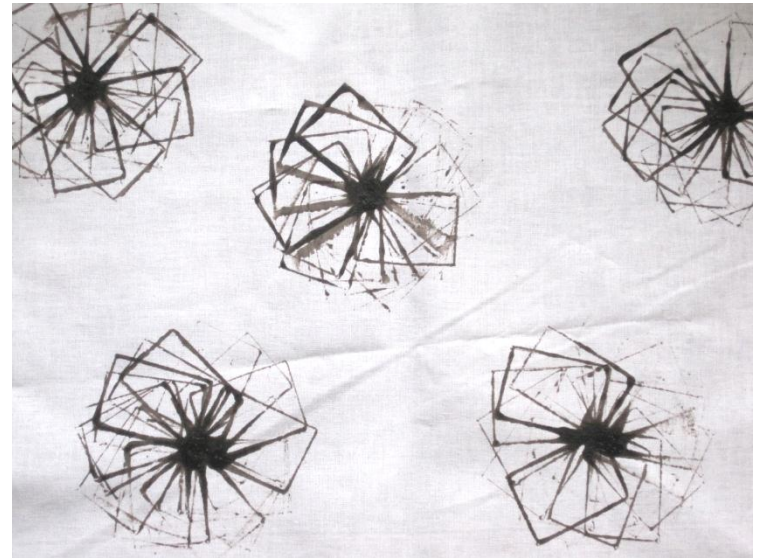
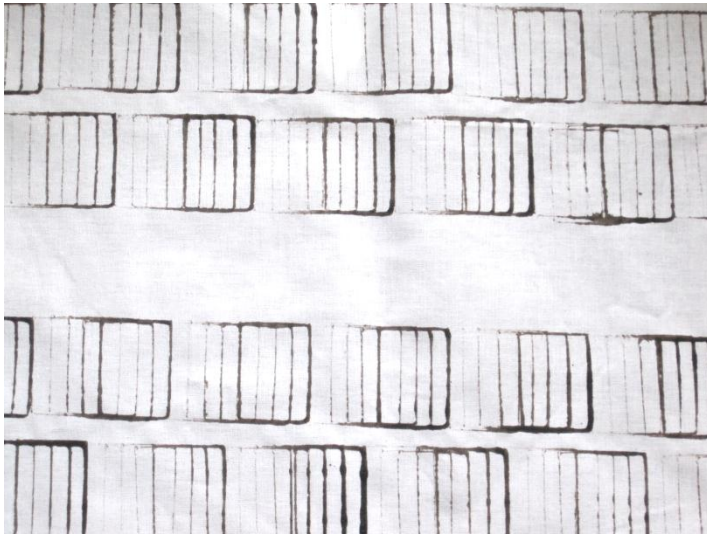
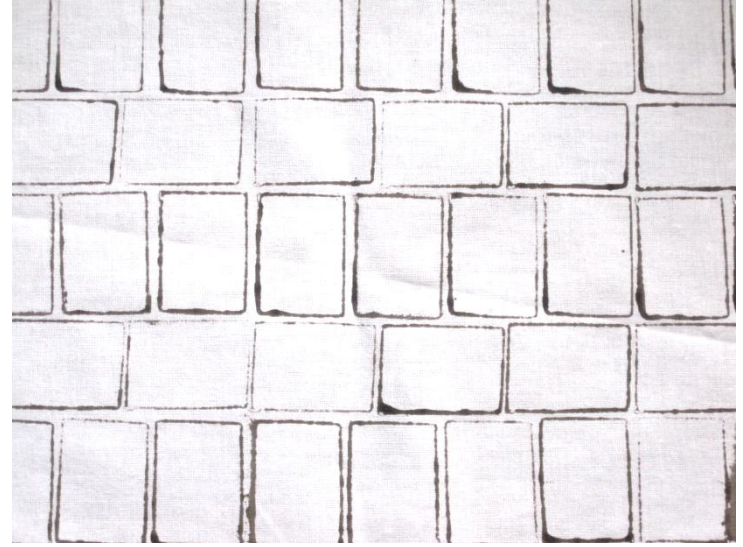
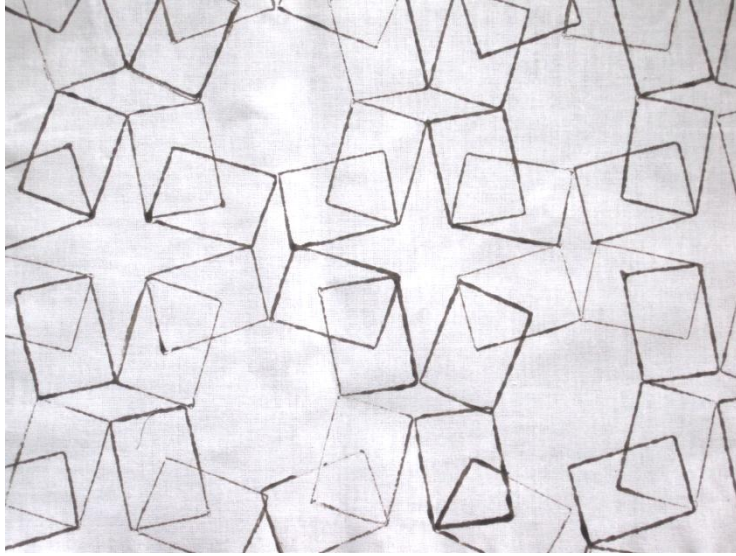


$\frac{1}{4}$ drop repetition

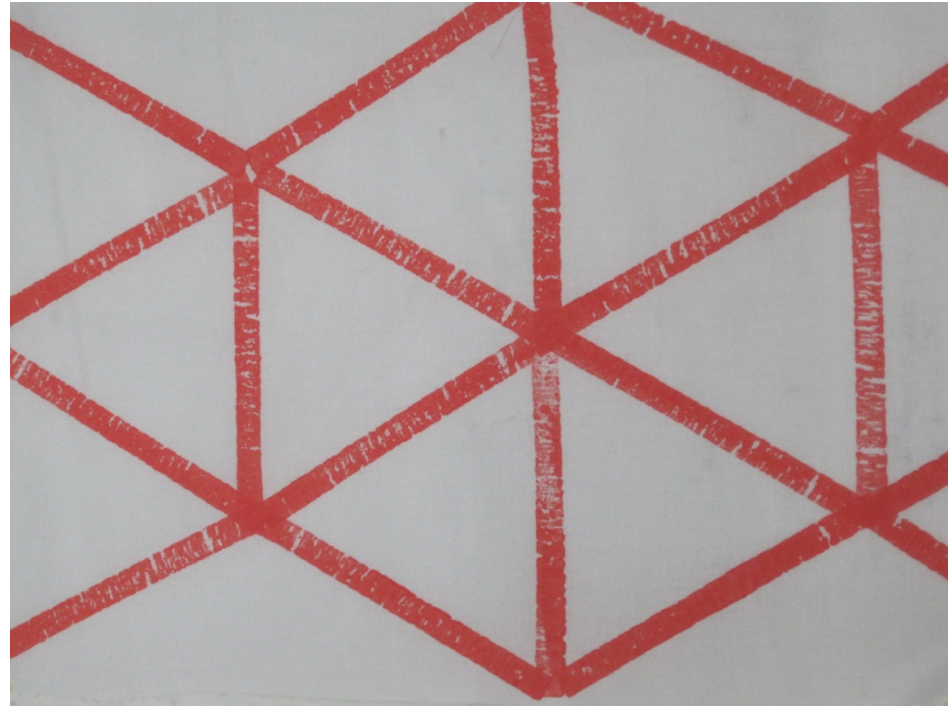


Even repetition, crossed





Examples



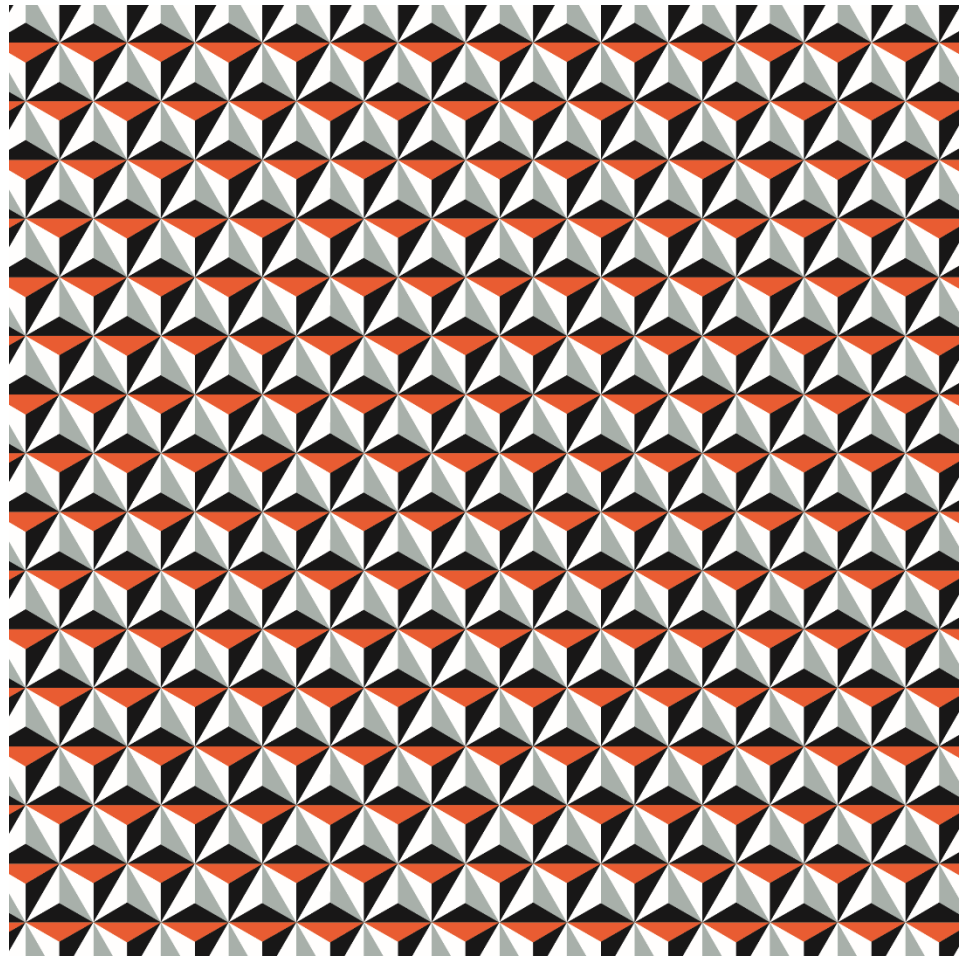
Note the **density** of the figures as a possibility

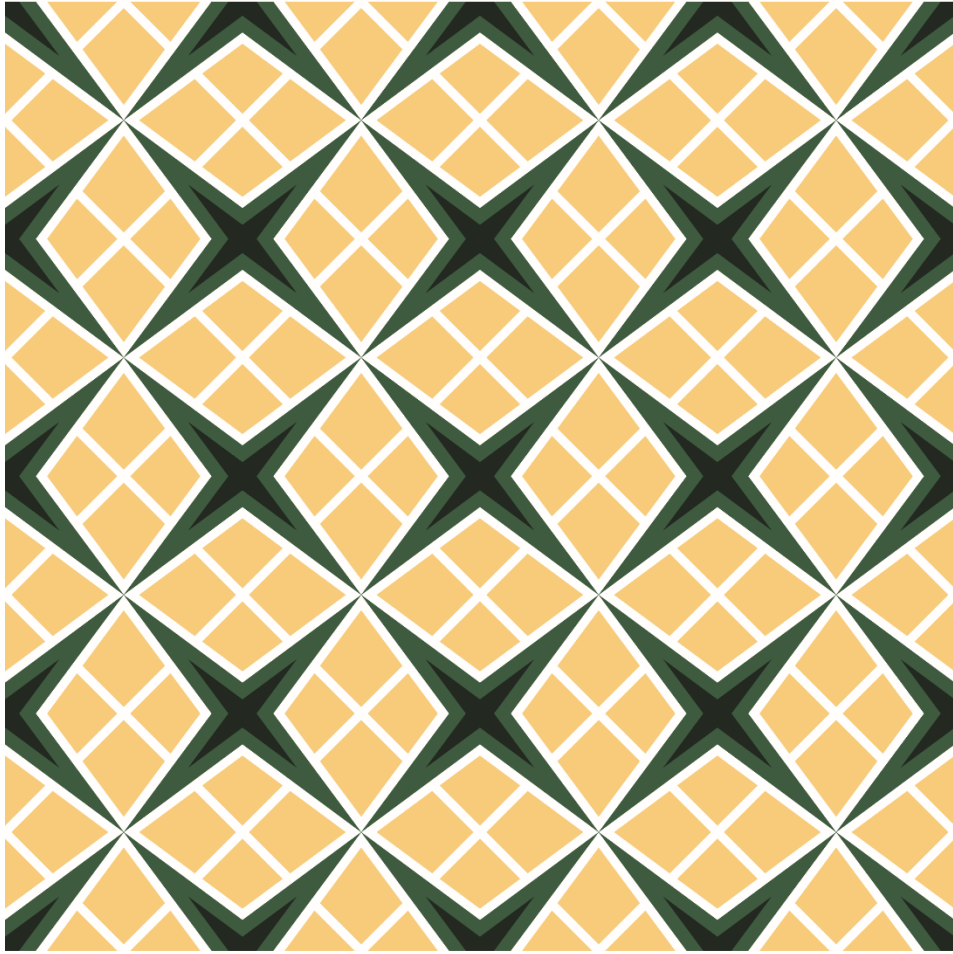


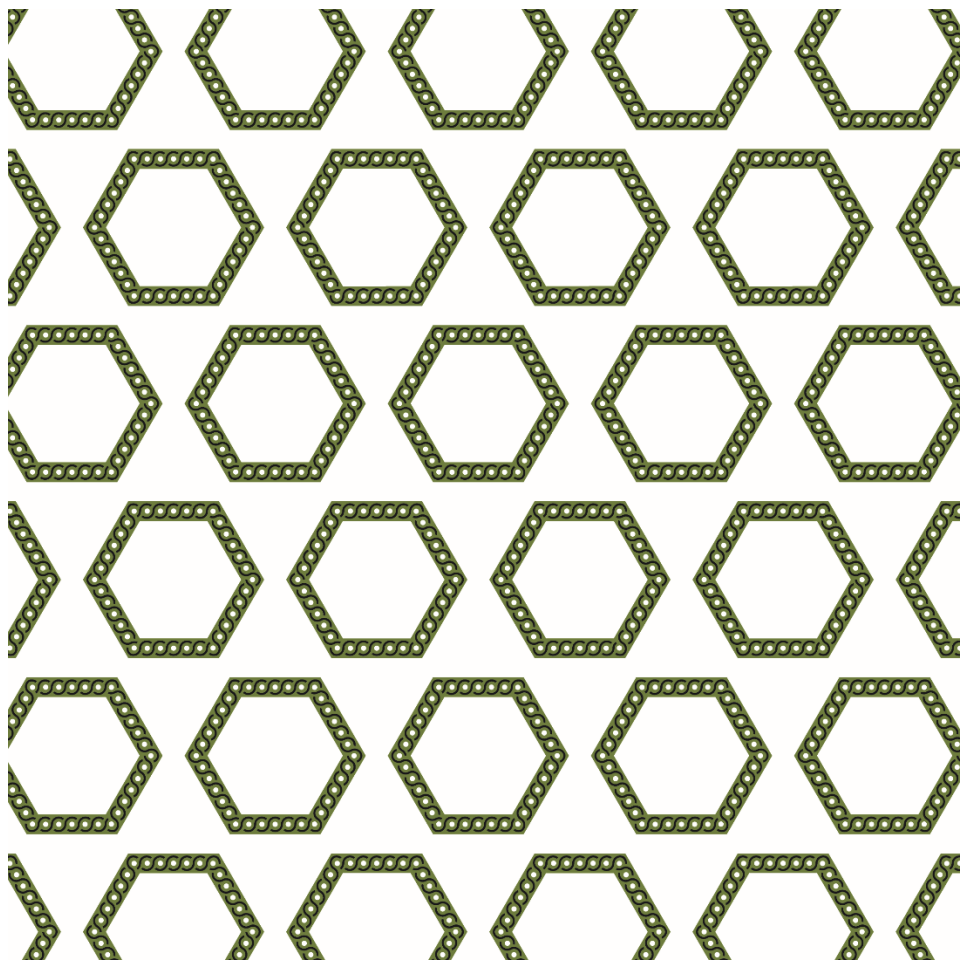
Repetition in tiles

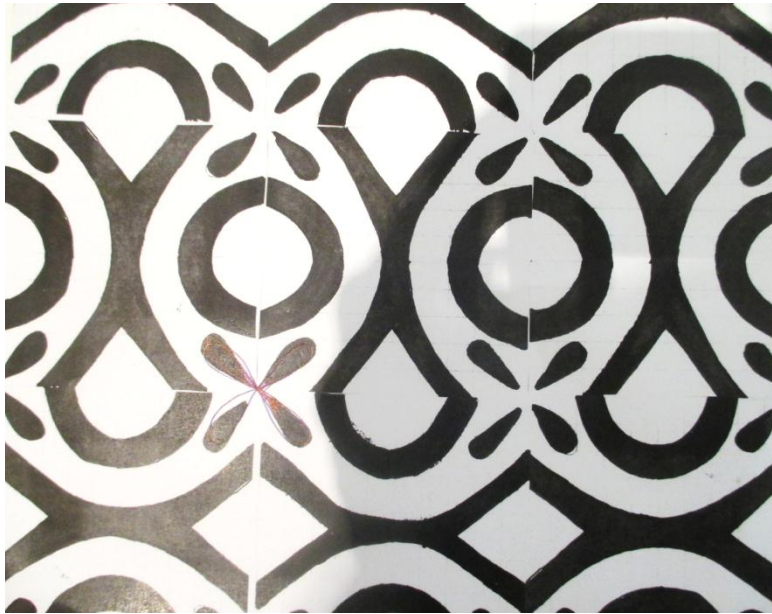


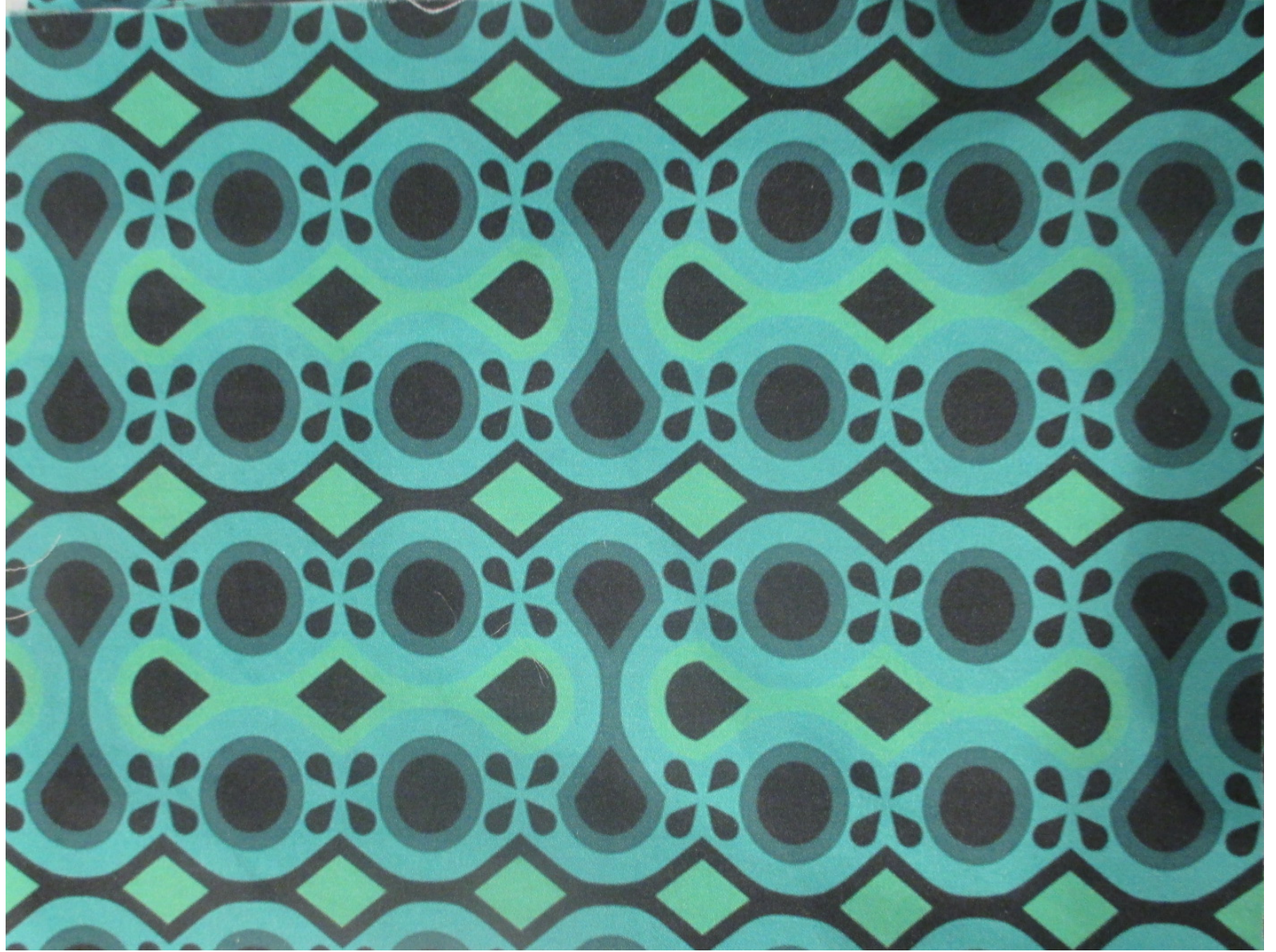


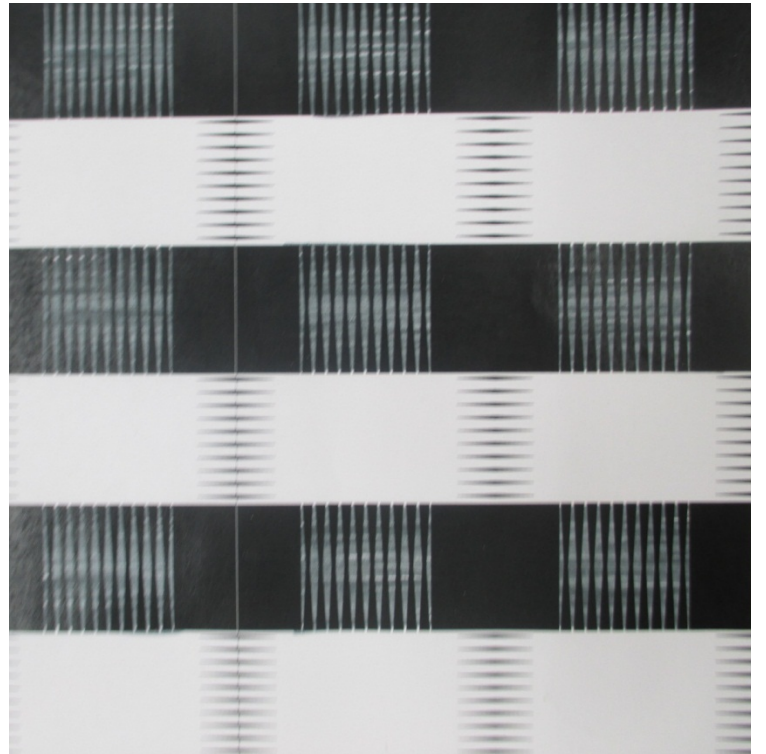
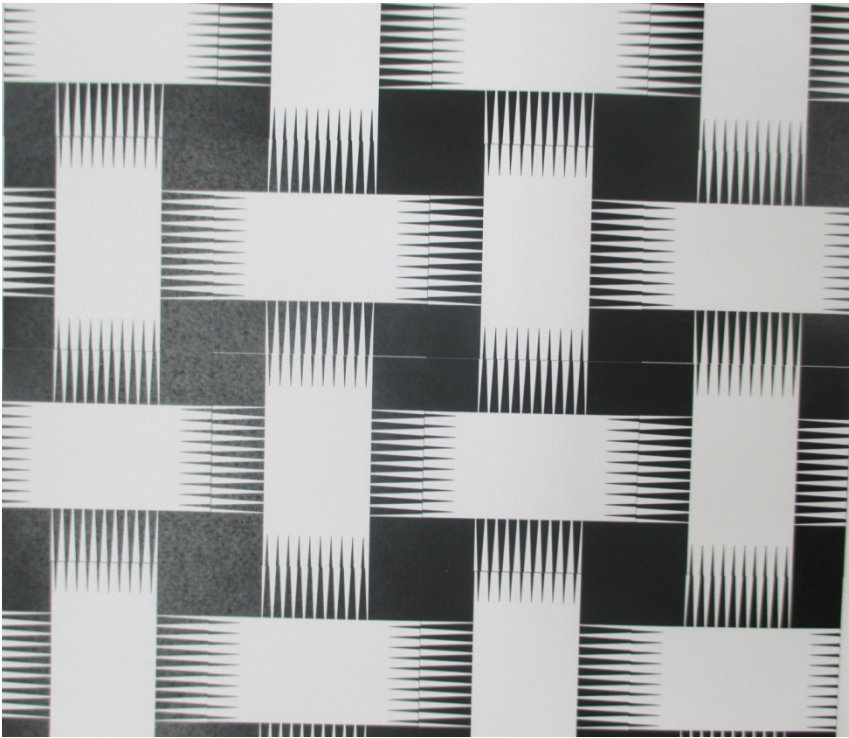
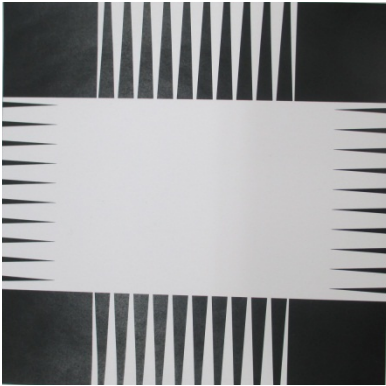


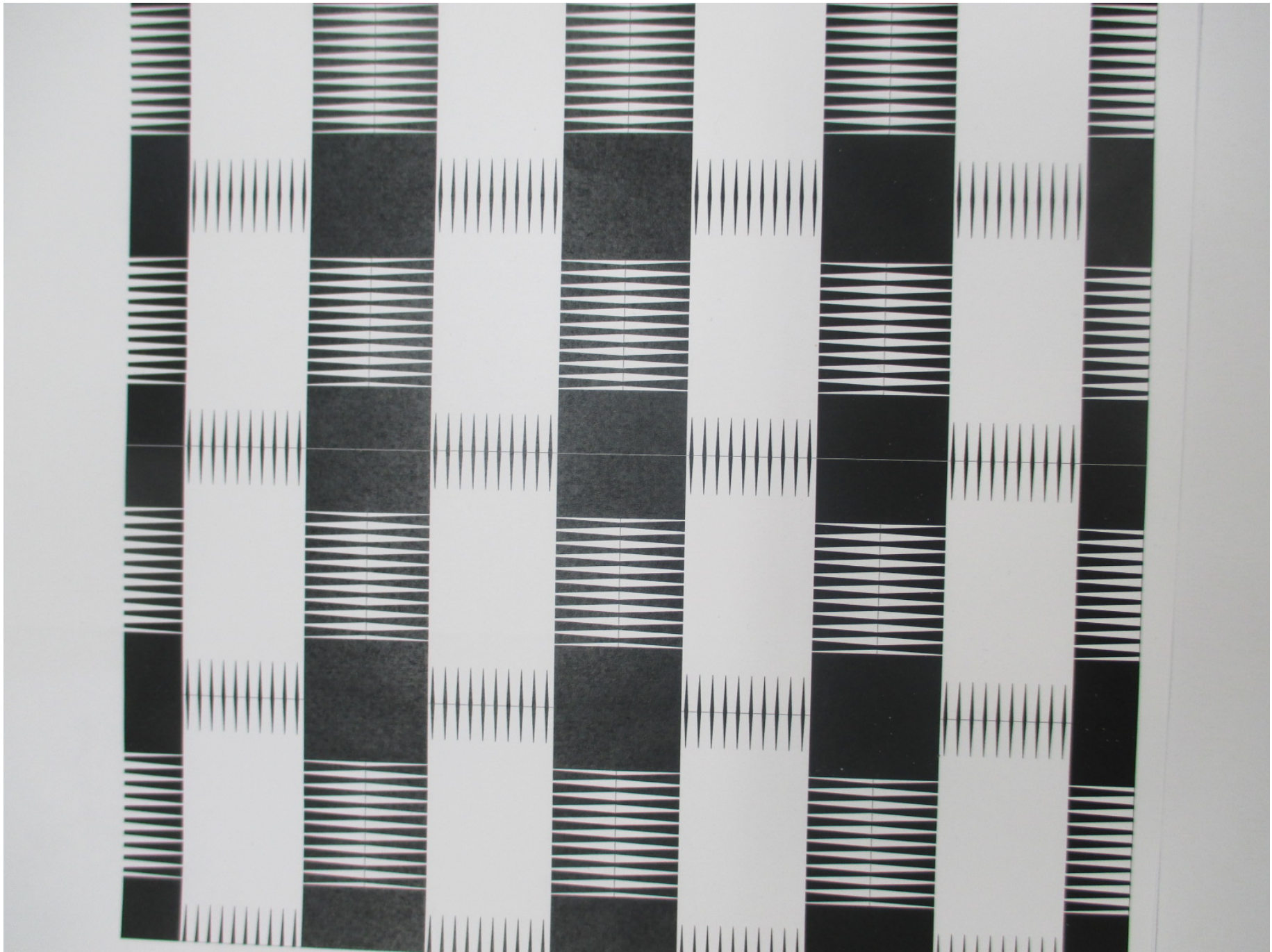








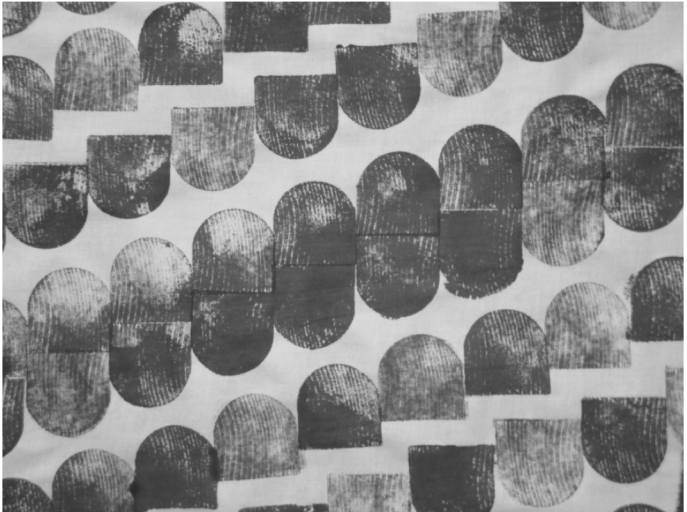
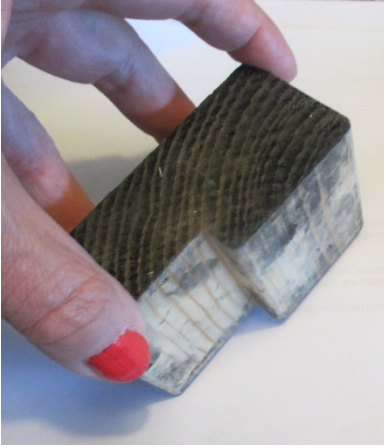




Wooden block

Exercise 14.92018

- Each of 7-8 group get their own wooden **block form**
- Each student print 3 **different printed versions** with the given wooden block print tool
- Use **one color** and **one tool** only (do not change the tool or colour)
- Do thinking/drawing/planning in advance.
- Work as a team. After all have done their versions in the group, choose in the group **6 most different repetition versions** to the presentation 28.9.
- Send to my courses your presentation and analyses of the group by 25.9 .



Target of the task:

- Create your own systems in surface design.
- To understand the mathematical actions by making them and making visible the beauty of it at the same time.
- To make visible the power of repetition and the different possibilities to use repetition
- Use symmetry and mirror effects in many ways and to study, what the printed form matter there in the system

- Design the surfaces by changing the distances, rhythms, **density of the prints** and changing the direction of the print.
- Trough opposites you get easily started:
- Upwards –downwards
- Mixed- in order
- Send to my courses your presentation and analyses of the group by 25.9 .