Assignment 1 - Algorithmic Art - Christopher Heiden

Necessary Materials:

- One blank sheet of white paper (max DIN A4)
- One ruler
- Two pencils (lighter and darker)
- Two favourite colour pens
- One triangle
- Small other paper

Algorithm:

- 1. Mark the upper left corner and the lower right corner of your paper and connect those marks with the darker pencil.
- 2. Now use the ruler and align it with the short page line. Do a mark every 3 centimetres the line.
- Use the geometric triangle and align it on every single mark. The angle between the pencil line you have just made and the line of the geometric triangle should be 45°. Then draw a line.
- 4. Use the geometric triangle and align it on the darker line you made in the first step and move it 3 centimetres to the right side. Mark that space and go on with this step till the triangle isn't on the paper anymore.
- 5. Use one of your favourite colours and paint the left side of the darker pencil line you made in the first step with it.
- 6. Do the same with the other colour on the right side.
- 7. Use the small other paper and write down your birthday.
- 8. Now read the first cipher of your birthday and do as many marks in one of your areas as the first number is count. An area the defined as a space which has a border to the paper or one of the lines you just made.

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- 9. Do this again and again till every cipher of your birthday is used.
- 10. Now if the mark is on the left side of the darker pencil line you have drawn in the first place, draw a line again. Therefore, the triangle has to be placed with an angle of 180° to the darker pencil line. The point of origin and the endpoint is border of the area. Do this with every single mark.
- 11. Now if the mark is on the right side of the darker pencil line you have drawn in the first place, draw a line again. Therefore, the triangle has to be placed with an angle of 45° to the darker pencil line. The point of origin and the endpoint is border of the area. Do this with every single mark.