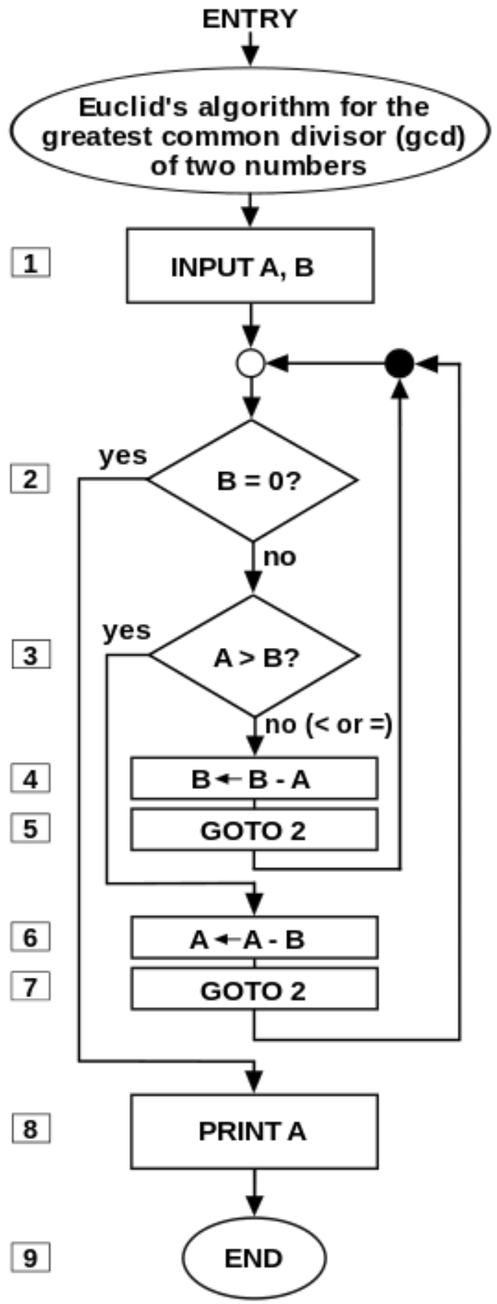
Les algorithmes, l’art et le design

Un algorithme ?

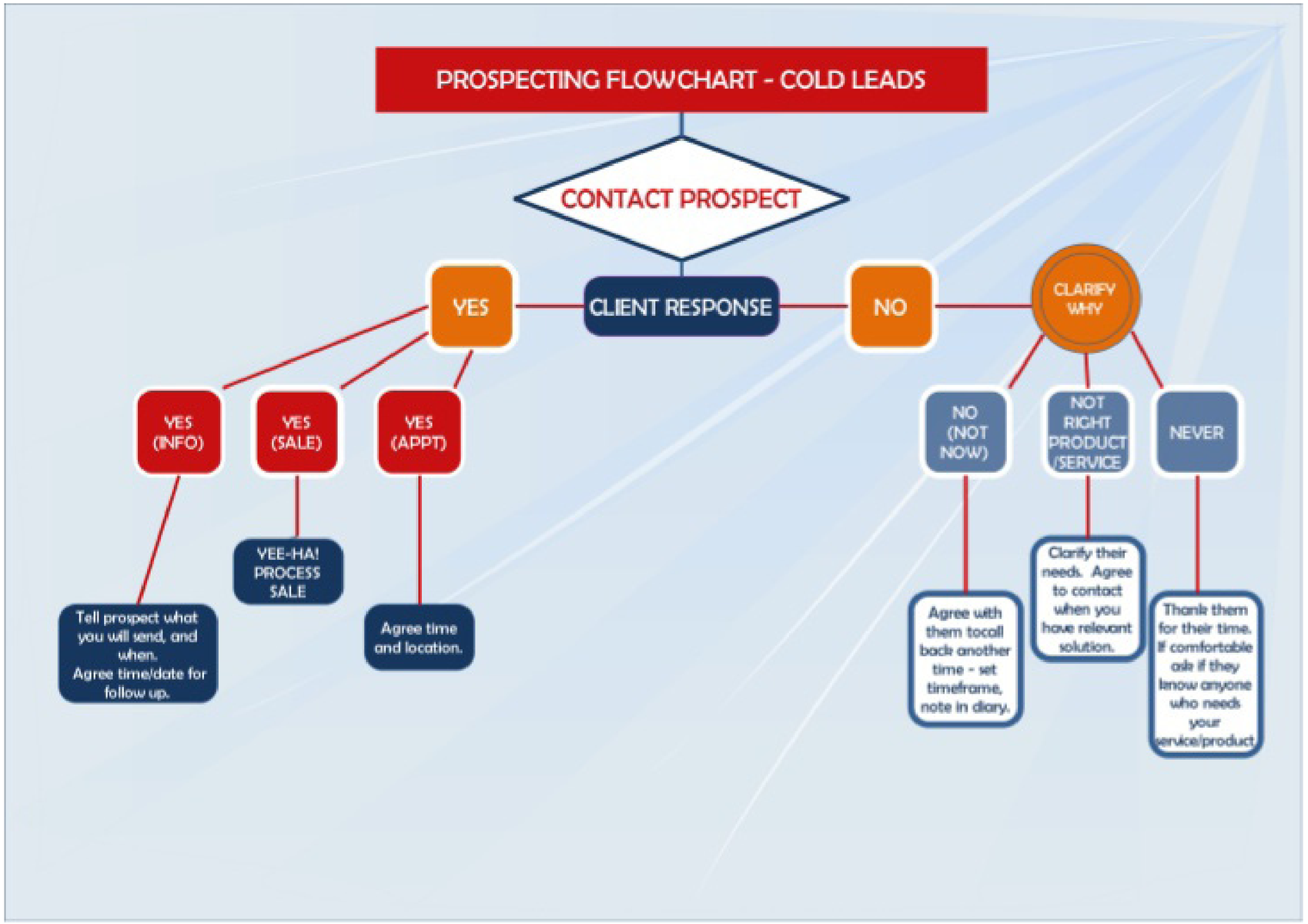
Un algorithme est une série d’instructions permettant de résoudre un problème.

Il comporte en générale des données en entrée et un résulat en sortie.

Exemple d’algorithme
Algorithme d’Euclide

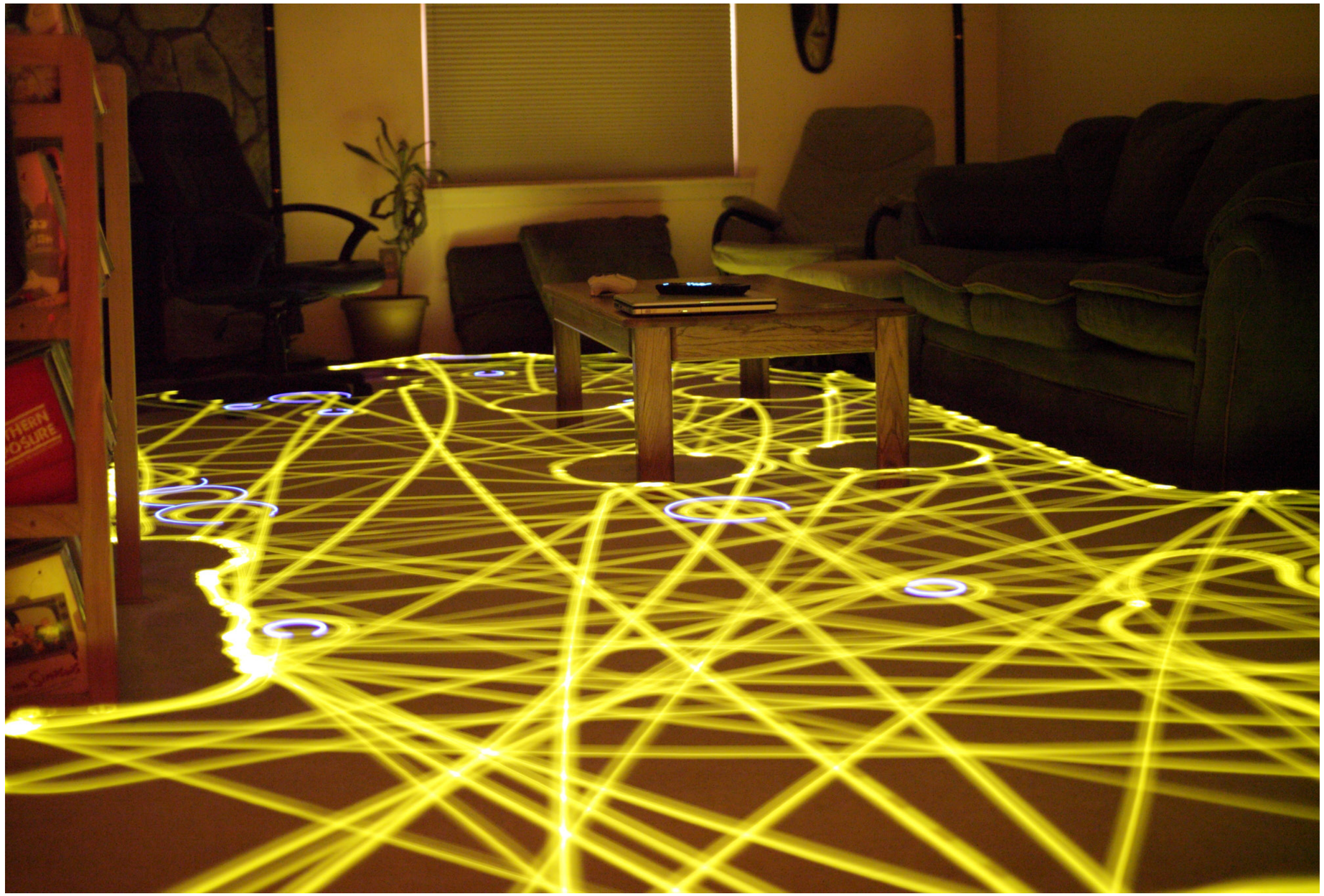


Exemple d’algorithme «humain» démarchage téléphonique

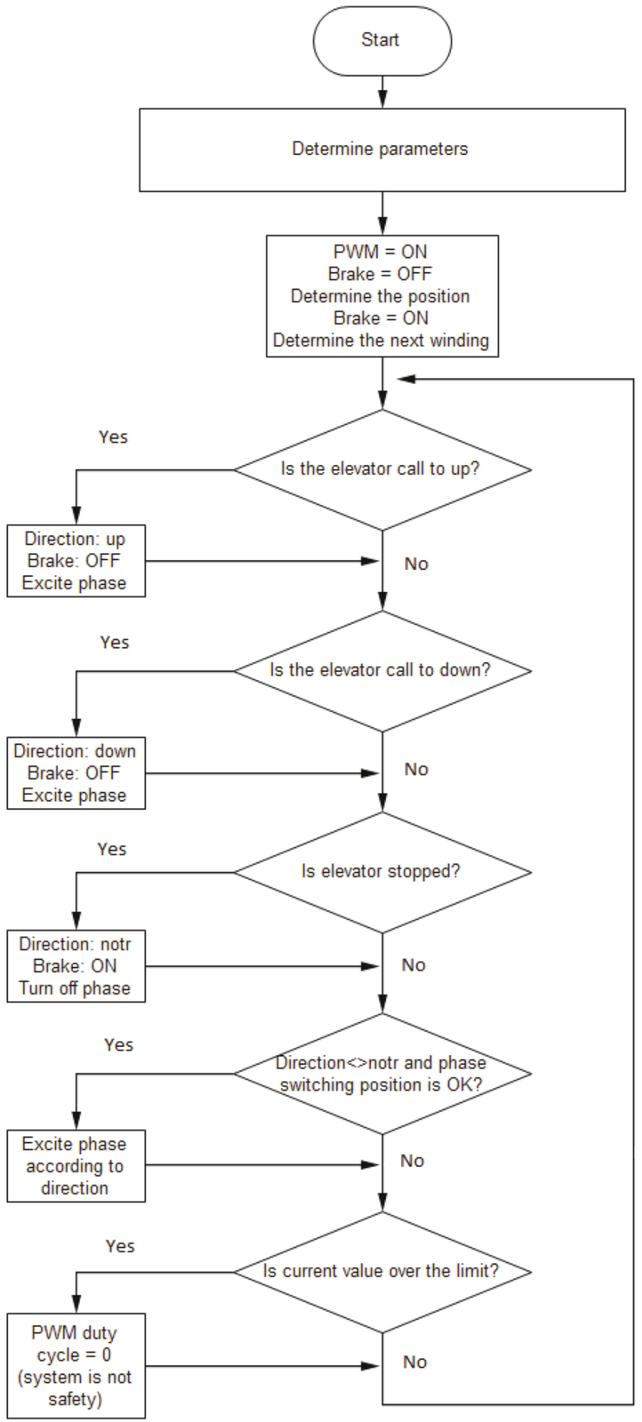


Ces algorithmes qui façonnent notre monde

Trajet
d’un robot
aspirateur



Exemple d’algorithme d’ascenseur

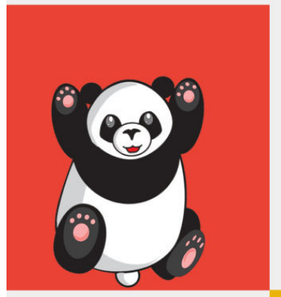


Algorithmes de trading

Algorithmes
de recherche
Google

Google ALGORITHMs

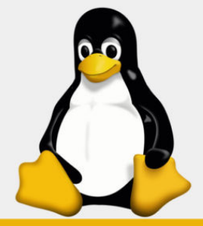
As of March 2019



Panda

Panda 4.2 Update: July 18, 2015

This update was released to focus on spammy links and low-quality content. This update was welcomed by all the sites that were penalized by Panda 4.1 however rectified the issues to get out of the pack. Panda 4.2 did a recheck of all the sites and the sites that performed well were stopped being triggered.

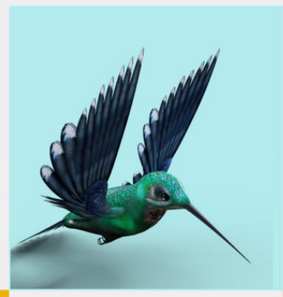


Penguin

Penguin 4.0 Update: Sep 23, 2016

The update was integrated into Google's core ranking algorithm used to evaluate the site(s) while crawling it. The site started gaining its rank back after the issues that were responsible for a dip in their rank were resolved.

The second change was that it stopped penalizing the entire website for the spam signal and started the individual page analysis.



Hummingbird

Hummingbird Update: Aug 21, 2013

This update was released for the motive of focusing on the semantic search. The specific goal is to offer more relevant and personalized results on the basis of trends/pattern, location, and online behavior.

Fred

Google Link Quality Update: Mar 09, 2017

The update was related to the link quality. This update targeted sites that were over advertising. This used to attack the sites with more ads advertised to collect extra revenue and gave the inferiority complex to the content.

Pigeon

Google Local Algorithm Expands: Dec 22, 2014

Pigeon Google search algorithm aimed to offer better local search results by rewarding local businesses that have a strong organic presence with better visibility in traditional search, similar to the visibility a business may have seen previously in Google Maps.

RankBrain

RankBrain Related Search Update (undisclosed): Dec 10, 2015

This update boosted Google's special SERP features resulting in an increase in the number of SERP's containing related search as well as the improvement in the word count of related search phrases averagely.

Mobile

Speed Update Release (Mobile): July 9, 2018

Google thought of releasing Speed update that forces the sites to improve the page speed on mobile so that it loads faster.
This update is only for the sites that are extremely slow wherein the minor changes will not change the ranking on Google search. The markable changes need to be released so that Google notices the difference and rank the sites better.

Powered By imagitrue

Algorithme de suggestion Youtube

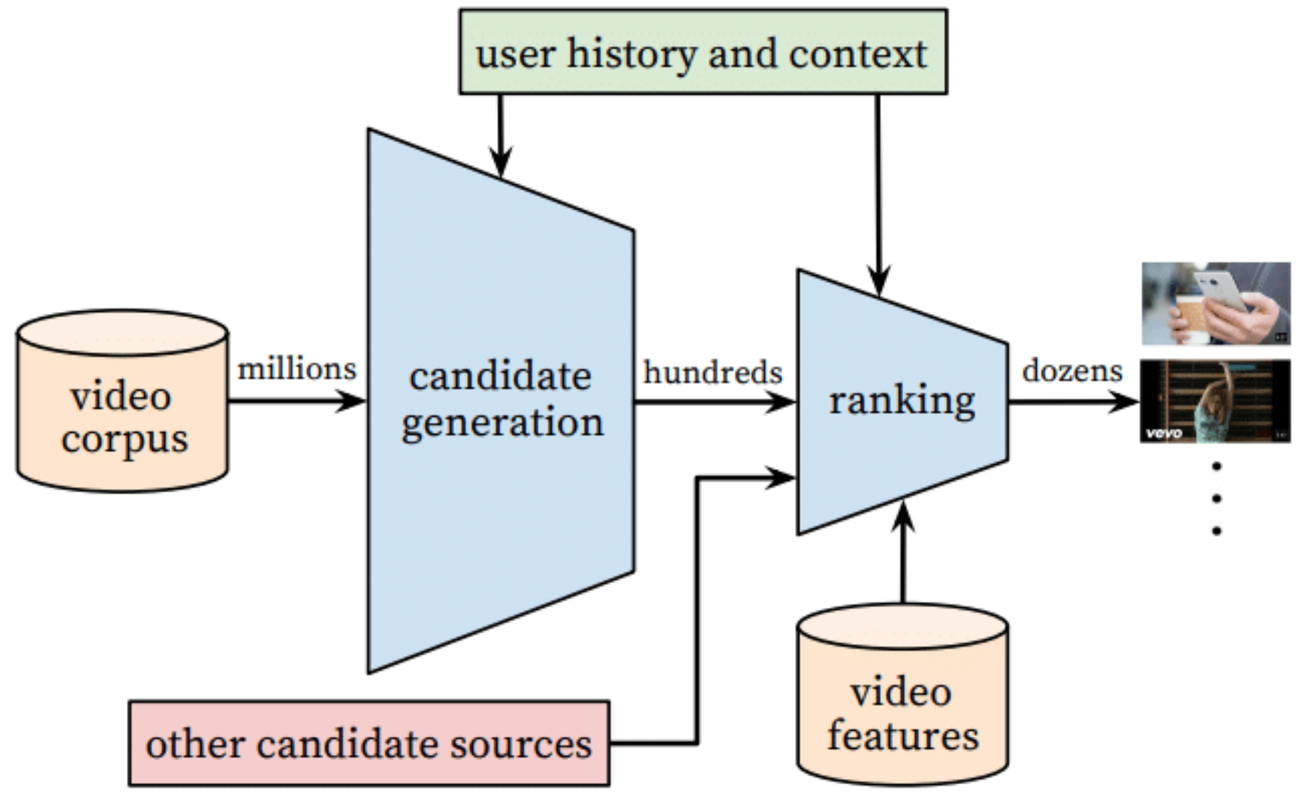
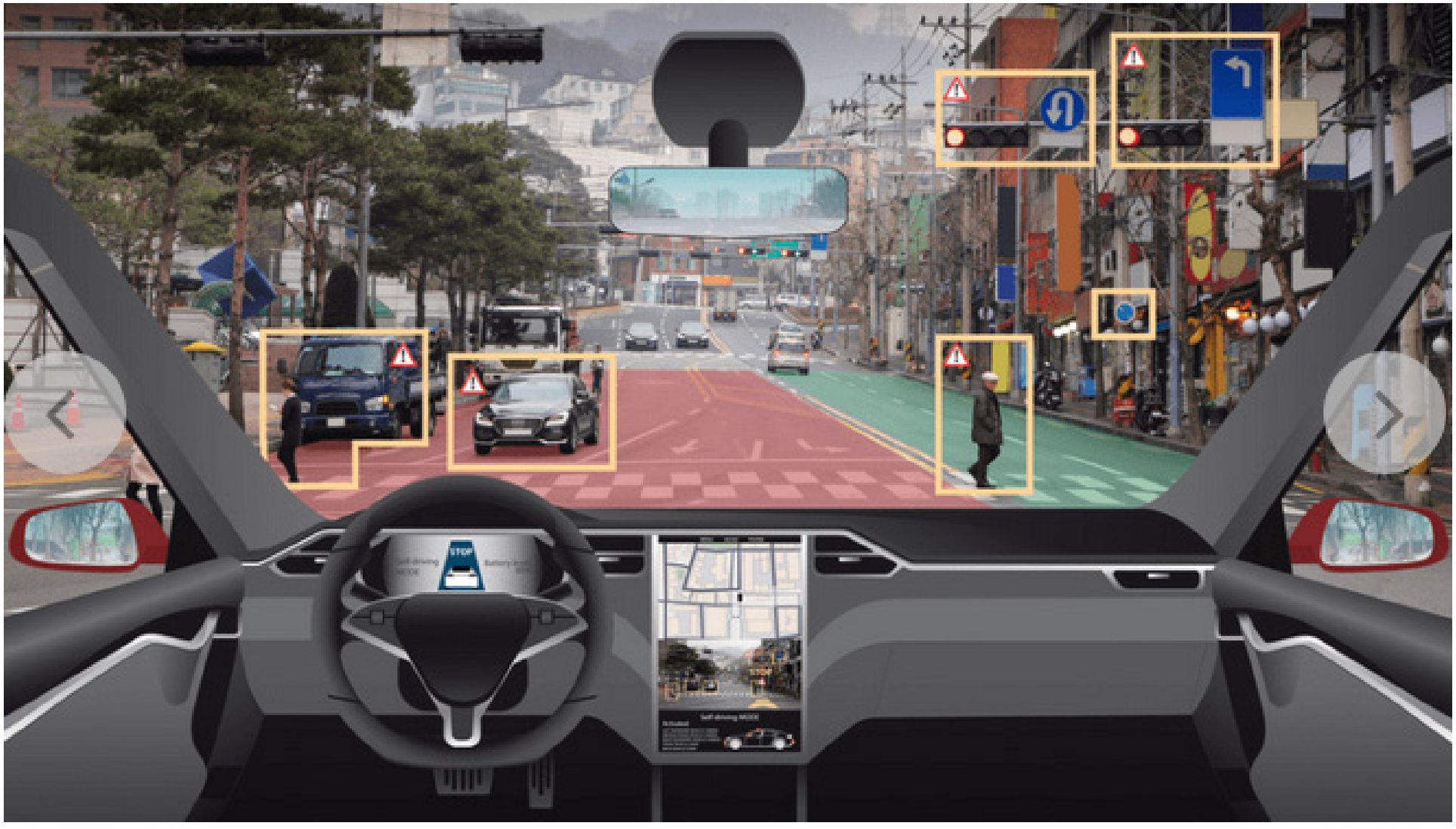


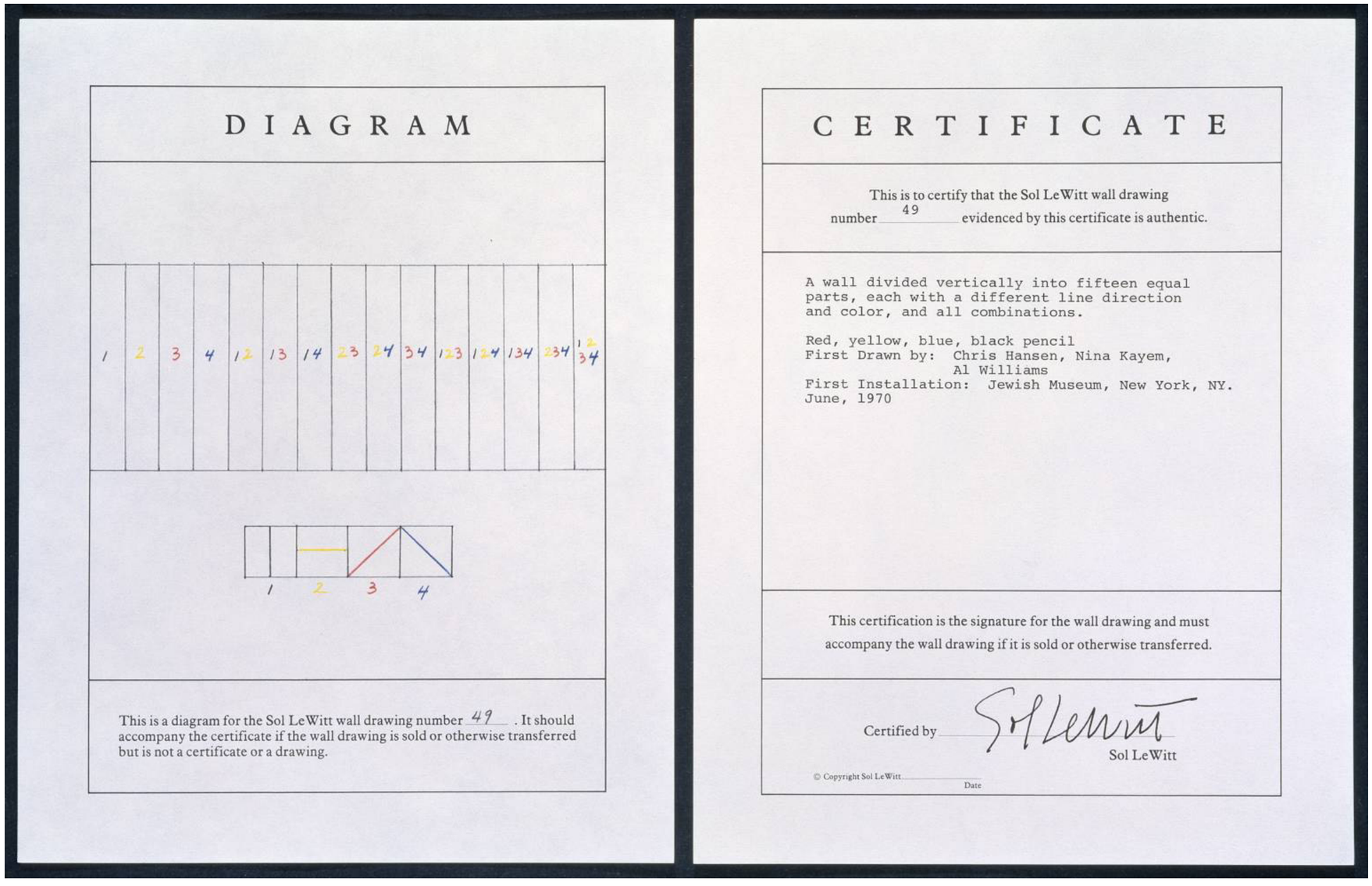
Figure 2: Recommendation system architecture demonstrating the "funnel" where candidate videos are retrieved and ranked before presenting only a few to the user.

Computer vision
Algorithme pour
voiture sans
chauffeur



Les algorithmes en art

Sol Lewitt
Wall Drawing #49
Diagram and Certifcate (1970)



DIAGRAM

1 2 3 4 12 13 14 23 24 34 123 124 134 234 1234

1 2 3 4

This is a diagram for the Sol LeWitt wall drawing number 49 . It should accompany the certificate if the wall drawing is sold or otherwise transferred but is not a certificate or a drawing.

CERTIFICATE

This is to certify that the Sol LeWitt wall drawing number 49 evidenced by this certificate is authentic.

A wall divided vertically into fifteen equal parts, each with a different line direction and color, and all combinations.

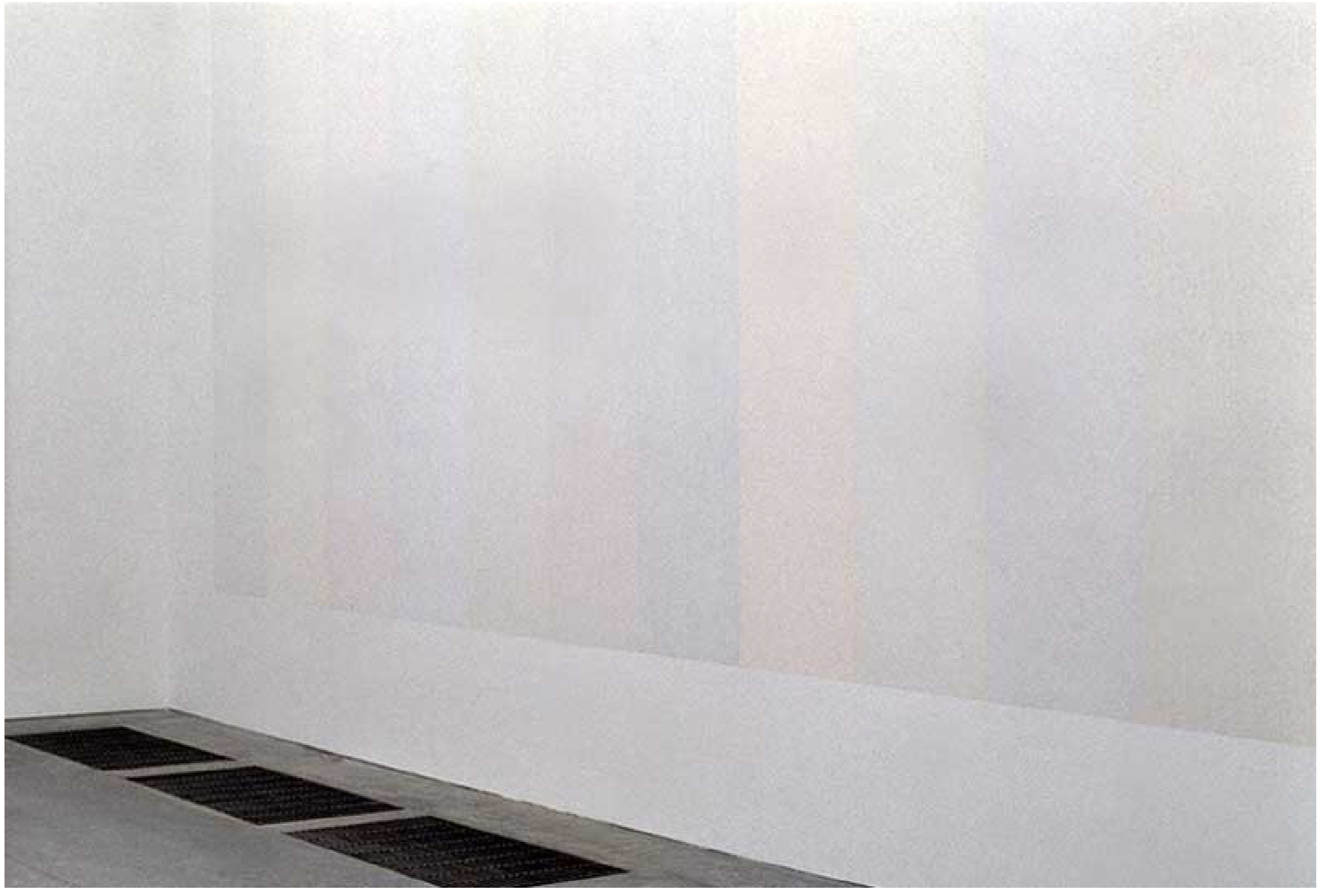
Red, yellow, blue, black pencil
First Drawn by: Chris Hansen, Nina Kayem, Al Williams
First Installation: Jewish Museum, New York, NY. June, 1970

This certification is the signature for the wall drawing and must accompany the wall drawing if it is sold or otherwise transferred.

Certified by Sol LeWitt
Sol LeWitt

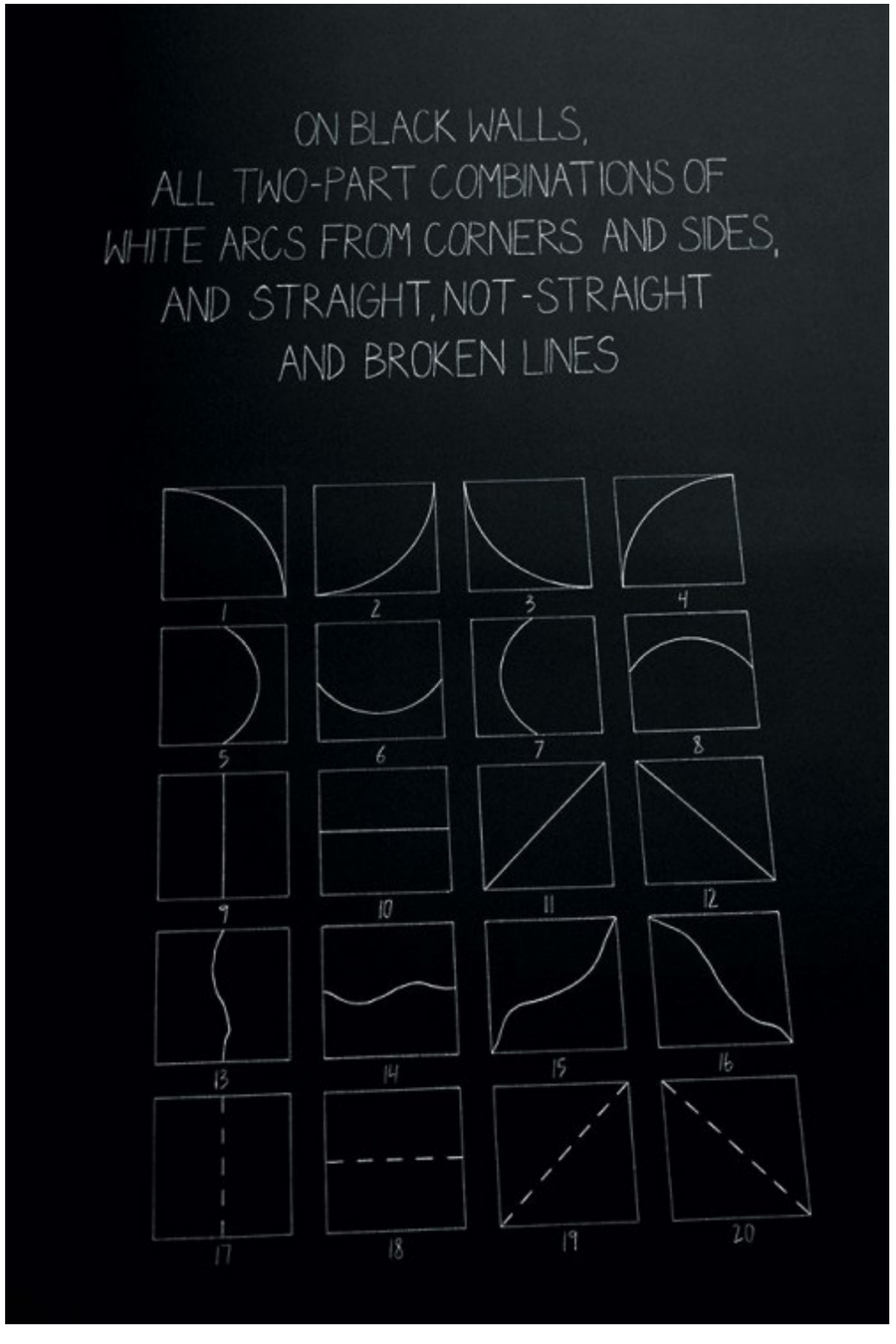
© Copyright Sol LeWitt
Date

Sol Lewitt
Wall Drawing #49
Installation view,
Tate Modern,
London
(2000)



Sol Lewitt
Wall Drawing #260

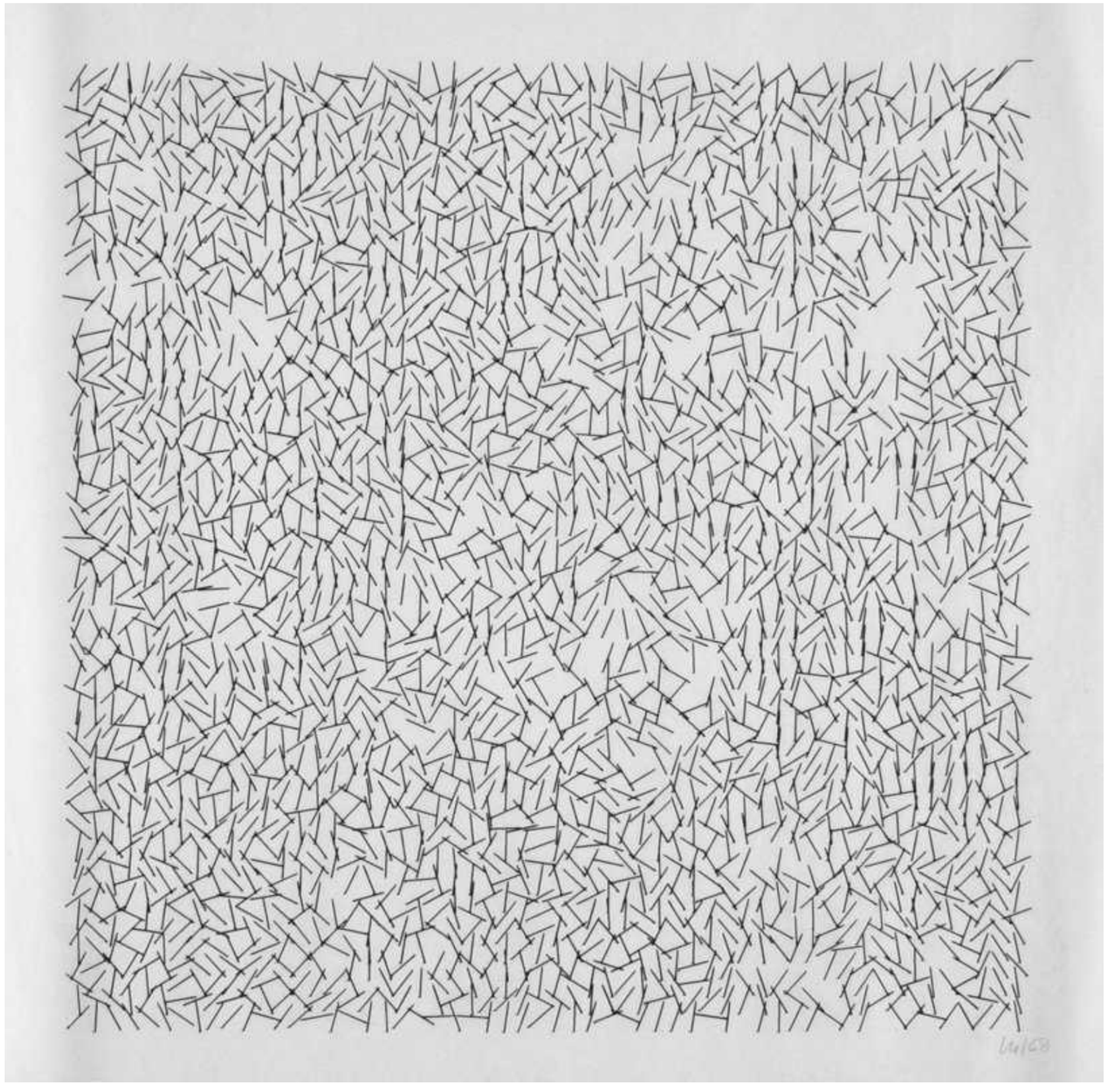
Sol Lewitt
Wall Drawing
#260



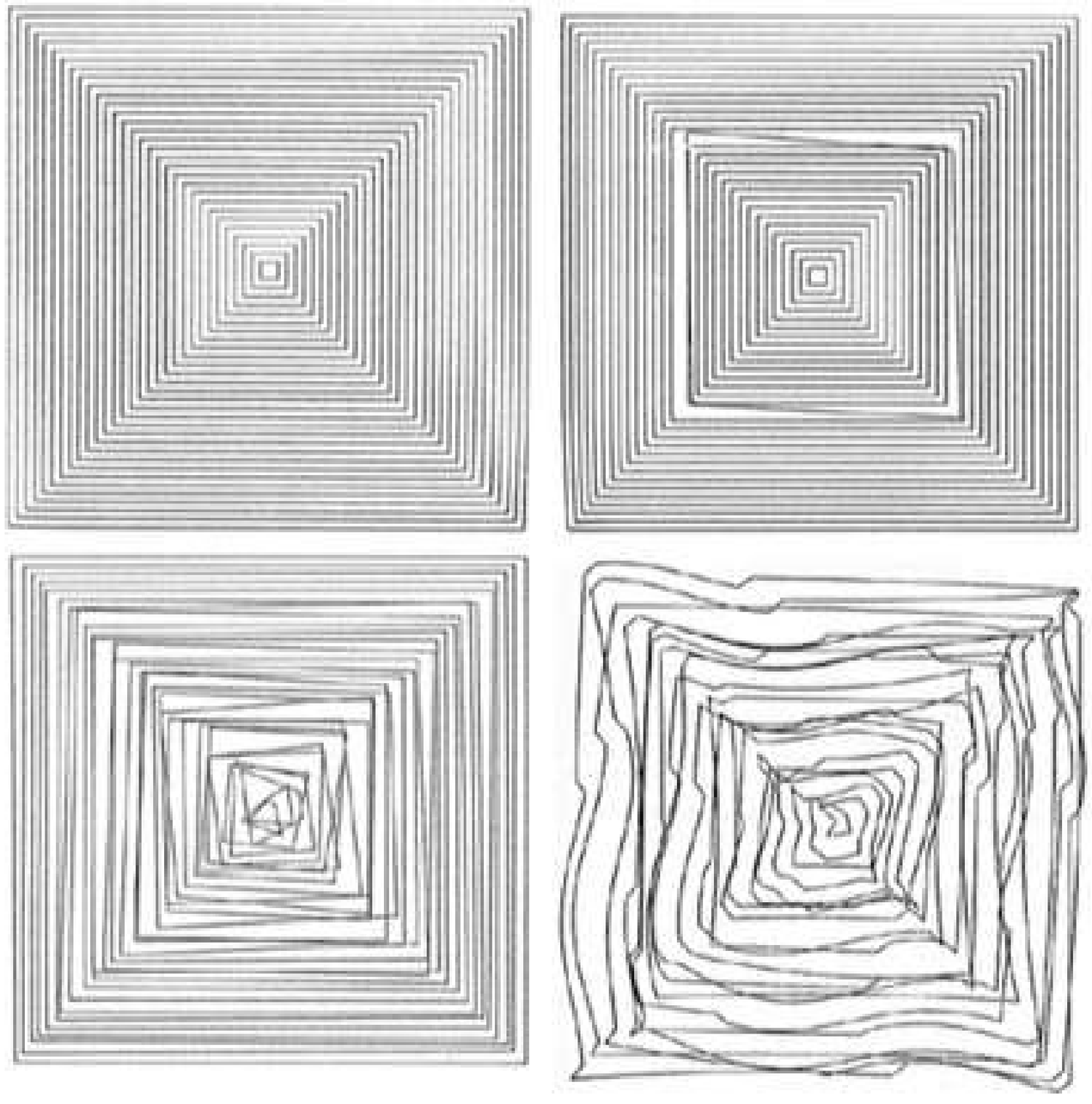
Vera Molnar
La machine Imaginaire

I imagined I had a computer. I designed a programme and then, step by step, I realized simple, limited series which were completed within, meaning they did not exclude a single possible combination of form. As soon as possible I replaced the imaginary computer, the makebelieve machine by a real one.

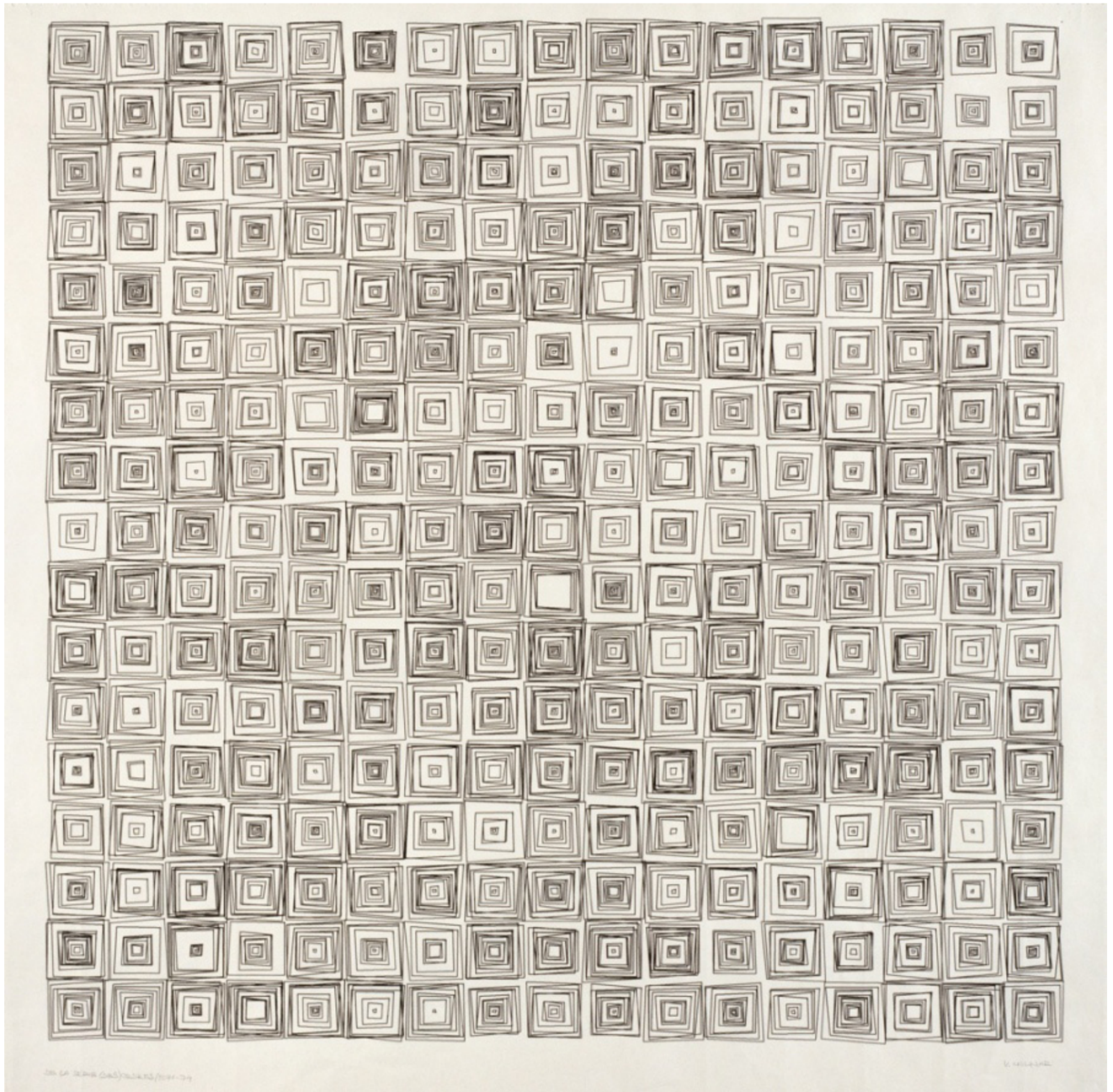
Vera Molnar
Interruptions
(1968)



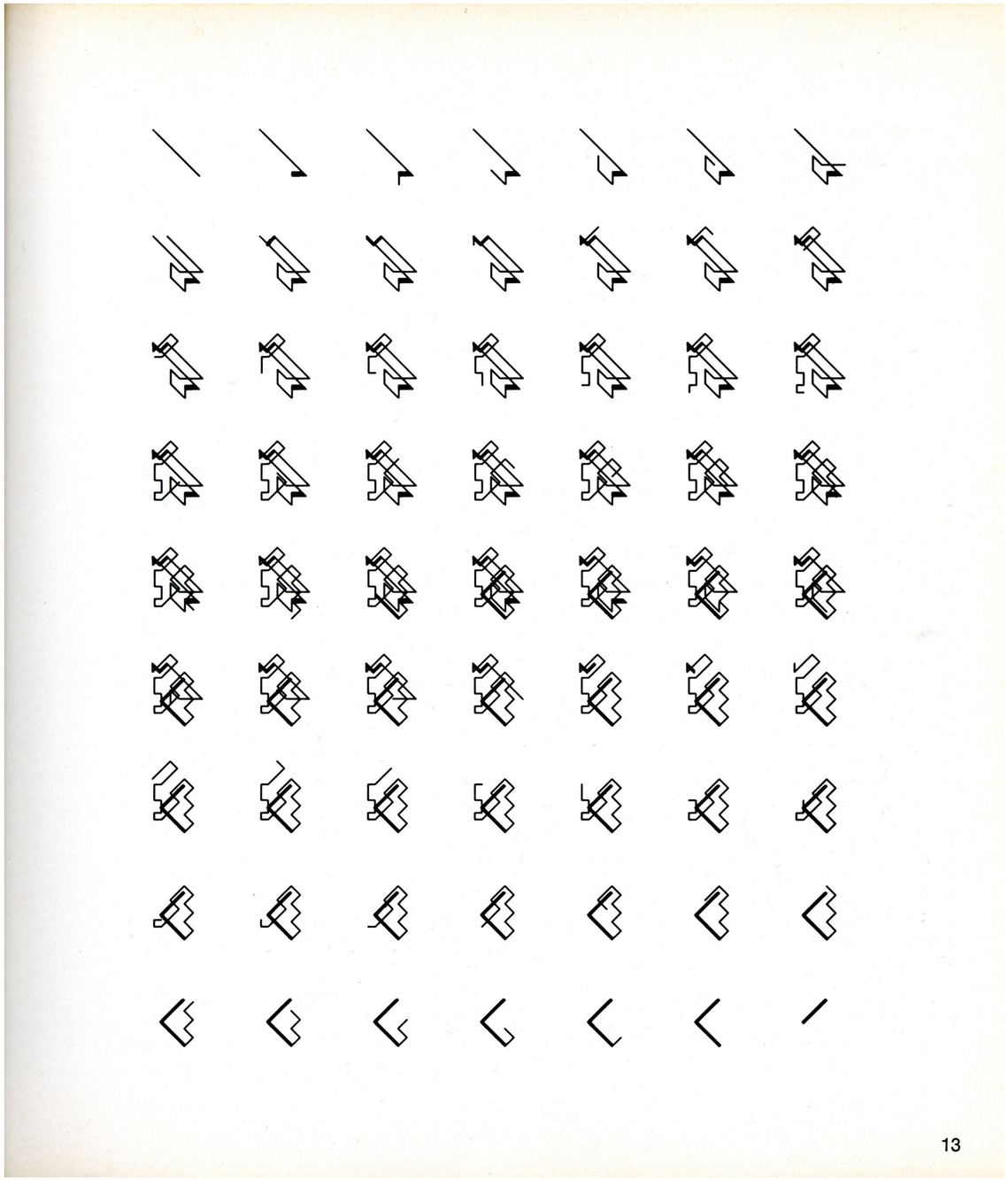
Vera Molnar
Computer rosace-series
(1974)



Vera Molnar
(Dés)Ordres
(1974)

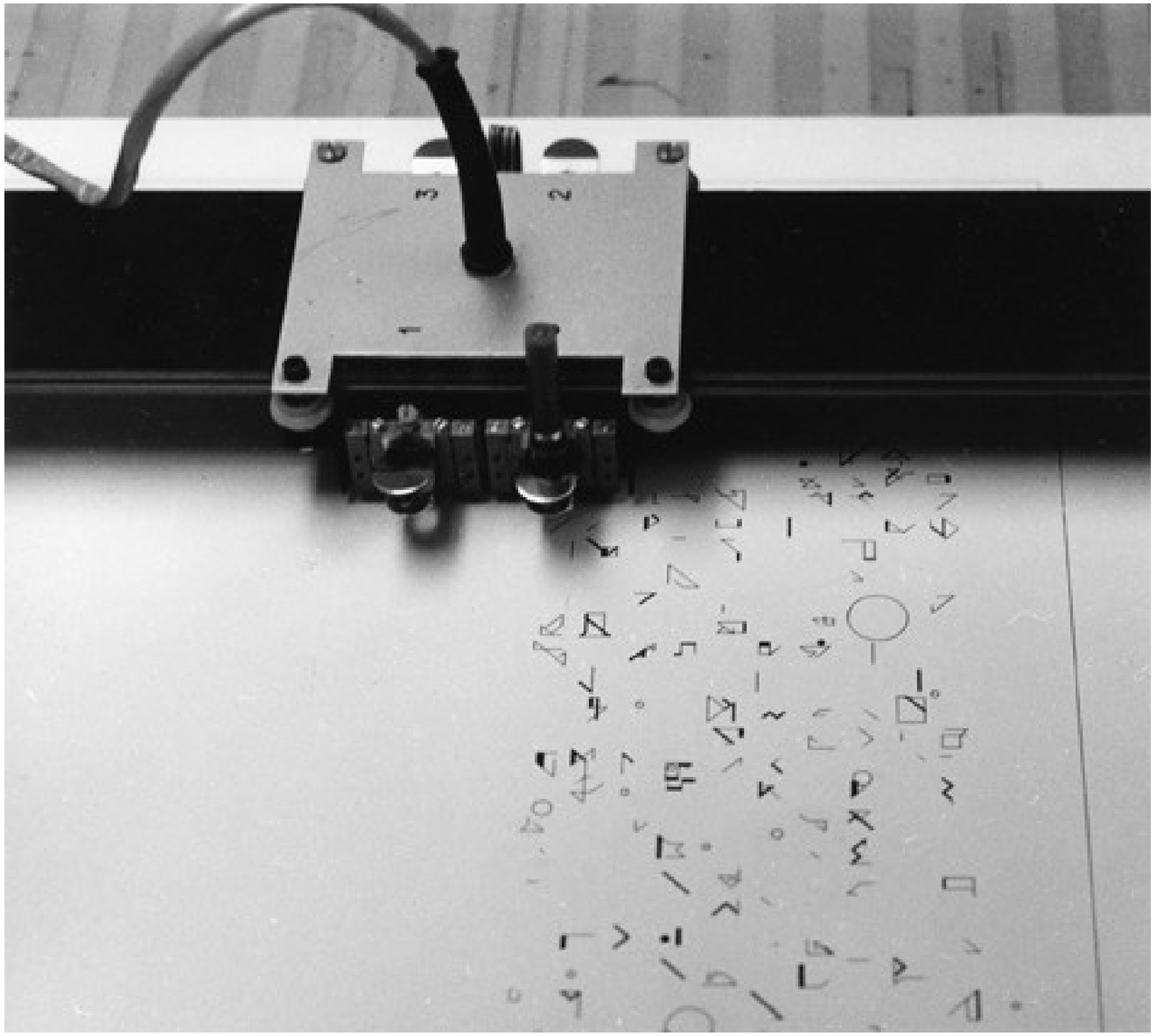


Manfred Mohr
1970

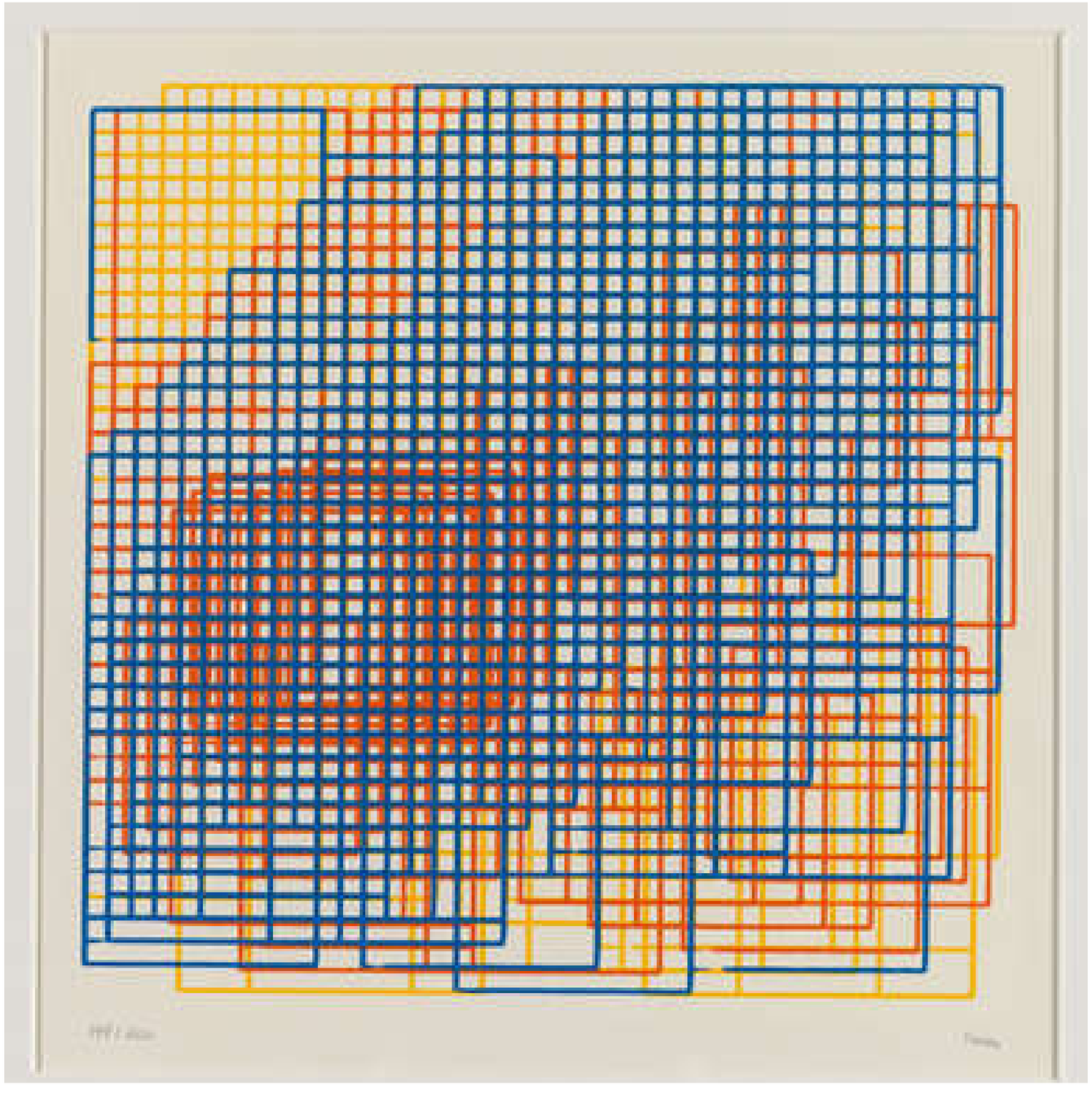


Manfred Mohr

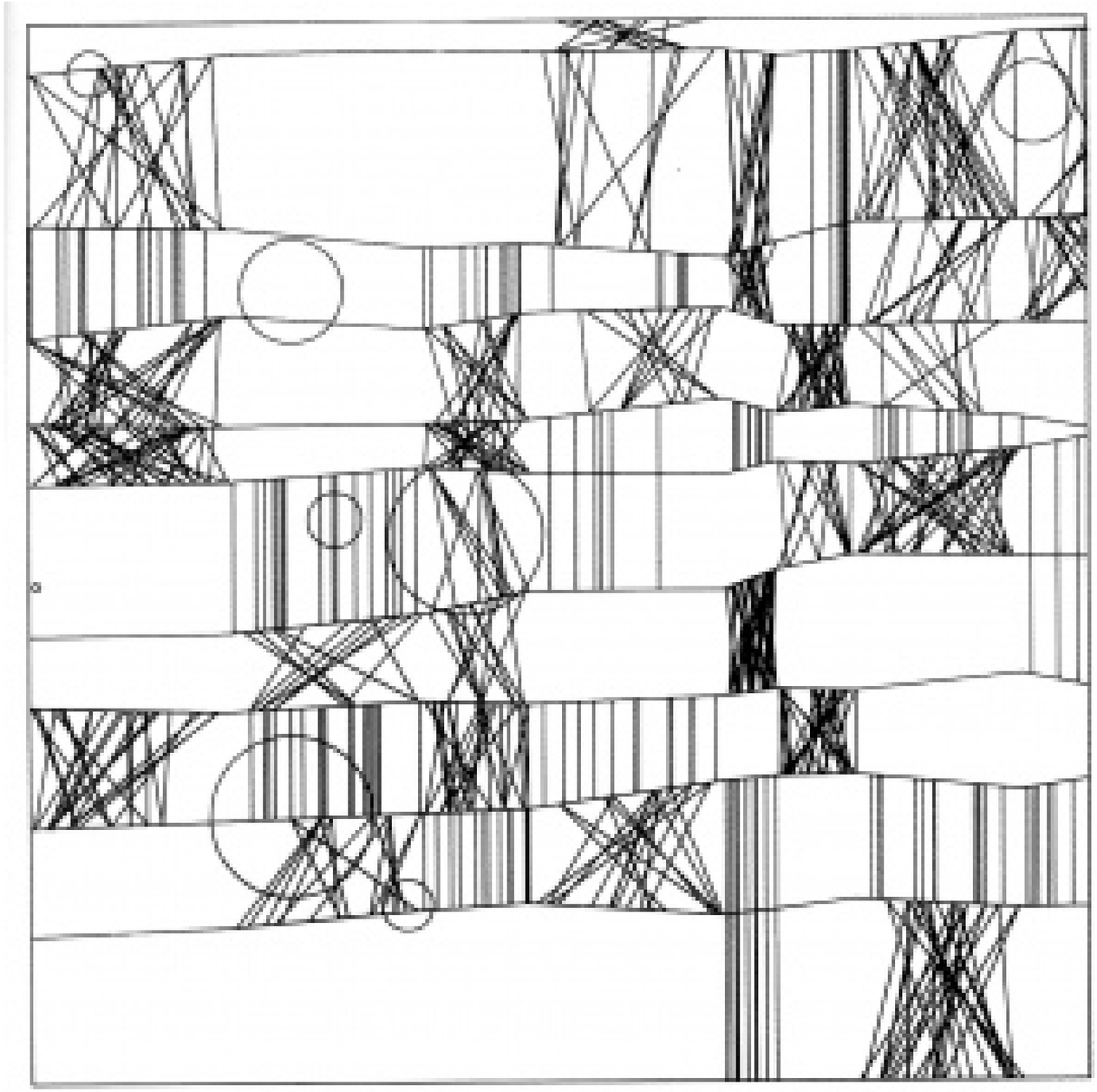
Manfred Mohr



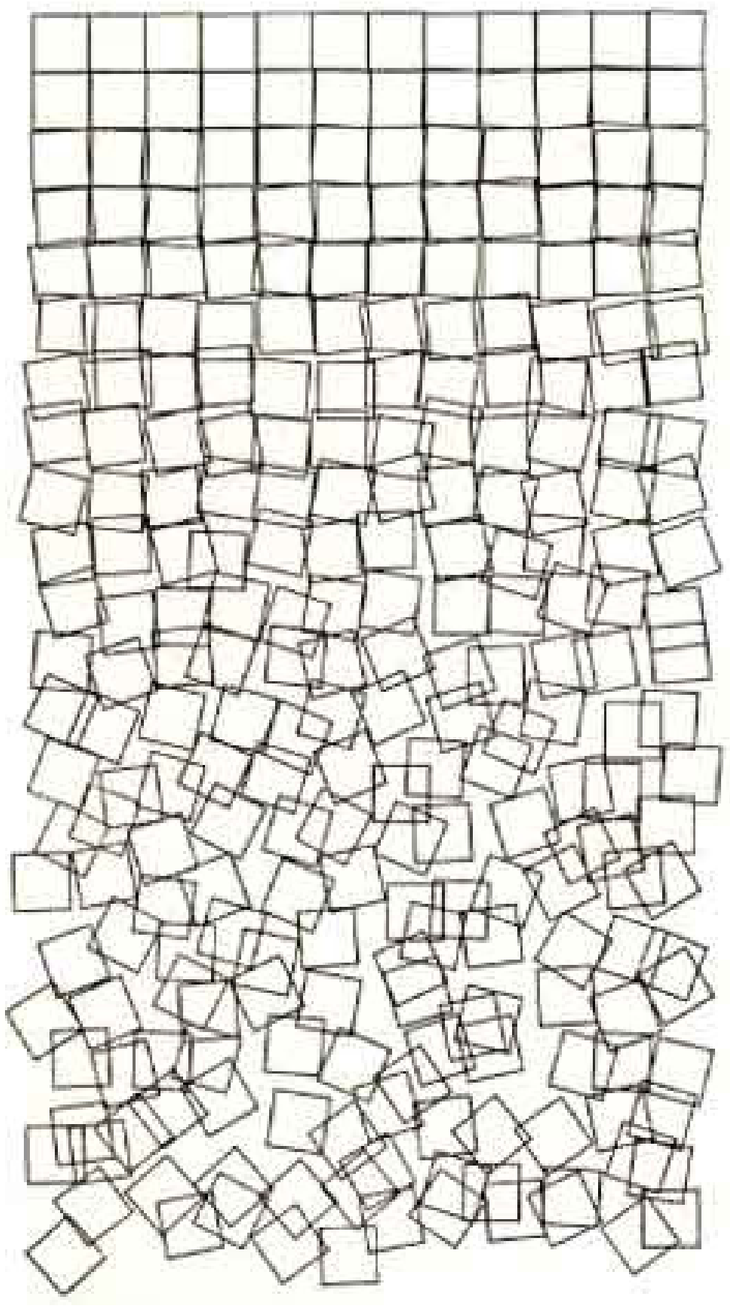
Frieder Nake
Walk-Through Raster
(1972)



Frieder Nake
13/9/65 Nr. 2
(13.09.1965)

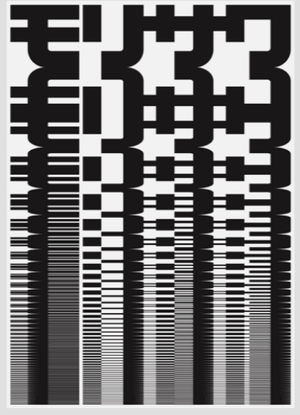


Georg Nees
Schotter
(1968-1970)

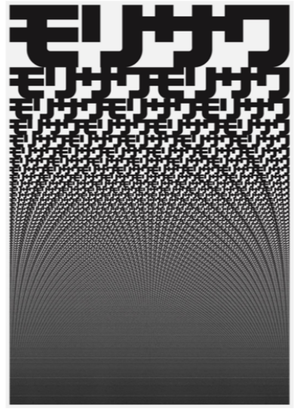


Les algorithmes en design (ou design génératif)

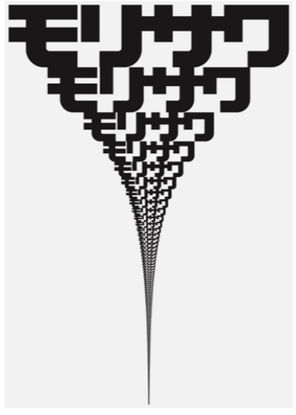
John Maeda
The 10 Morisawa Posters -(1996)



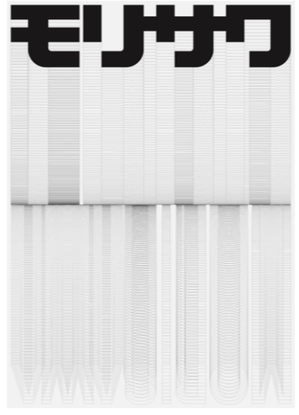
mori1.jpg



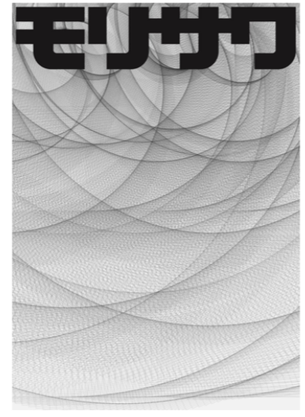
mori2.jpg



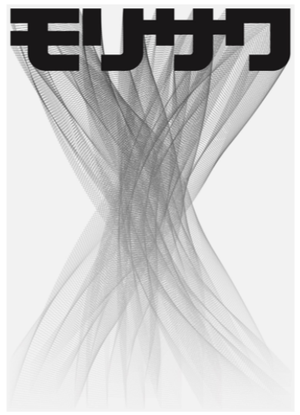
mori3.jpg



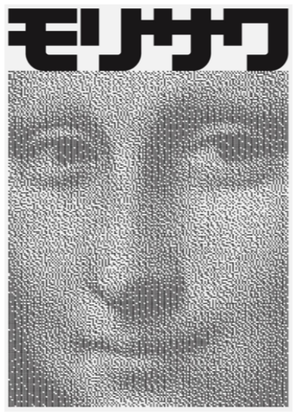
mori4.jpg



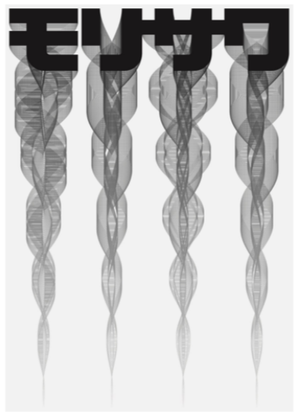
mori5.jpg



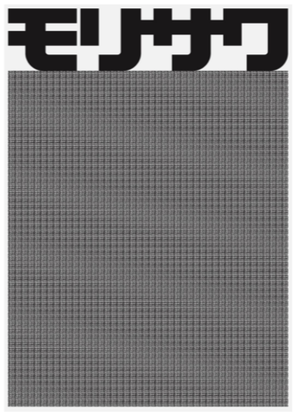
mori6.jpg



mori7.jpg

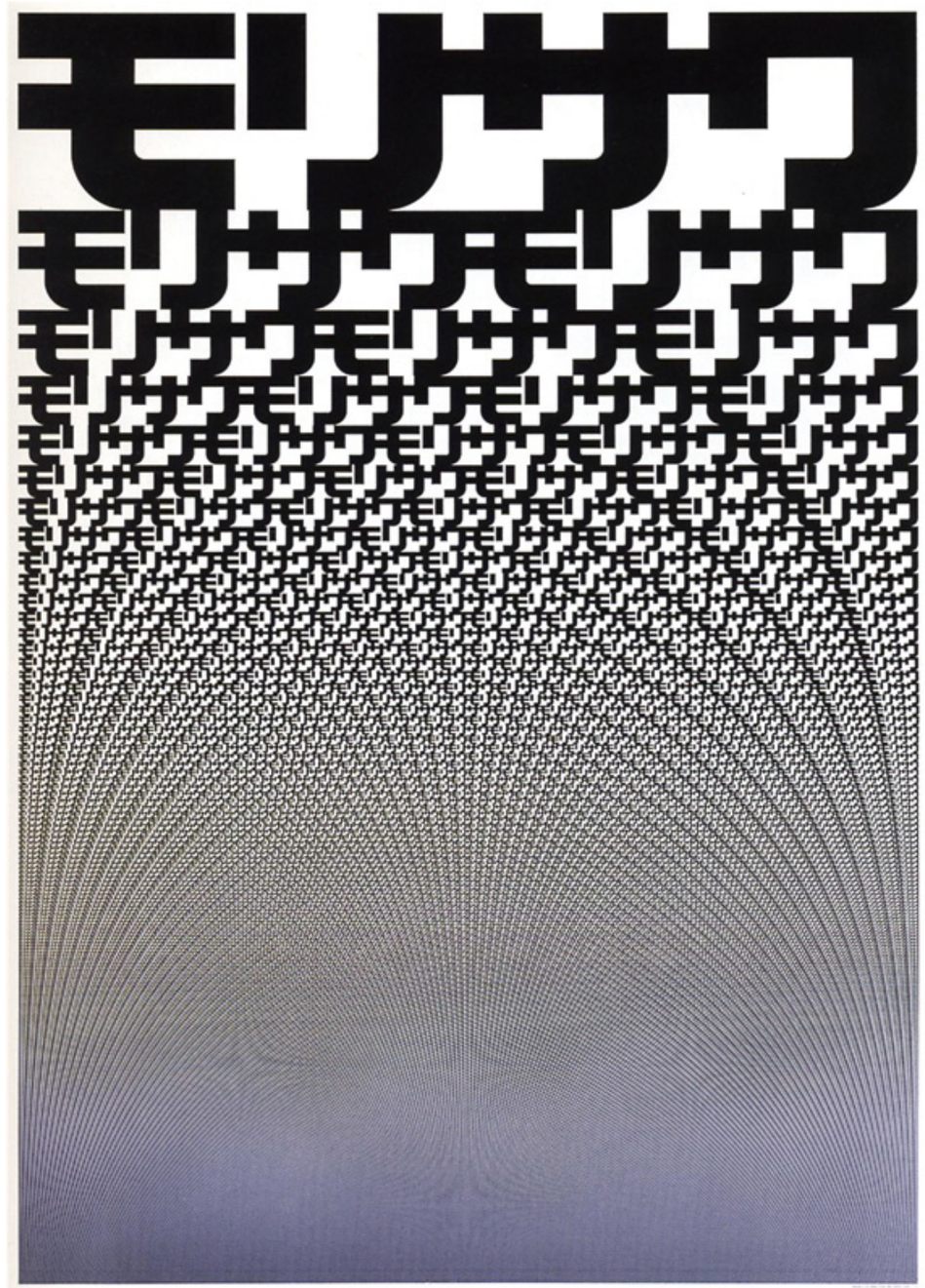


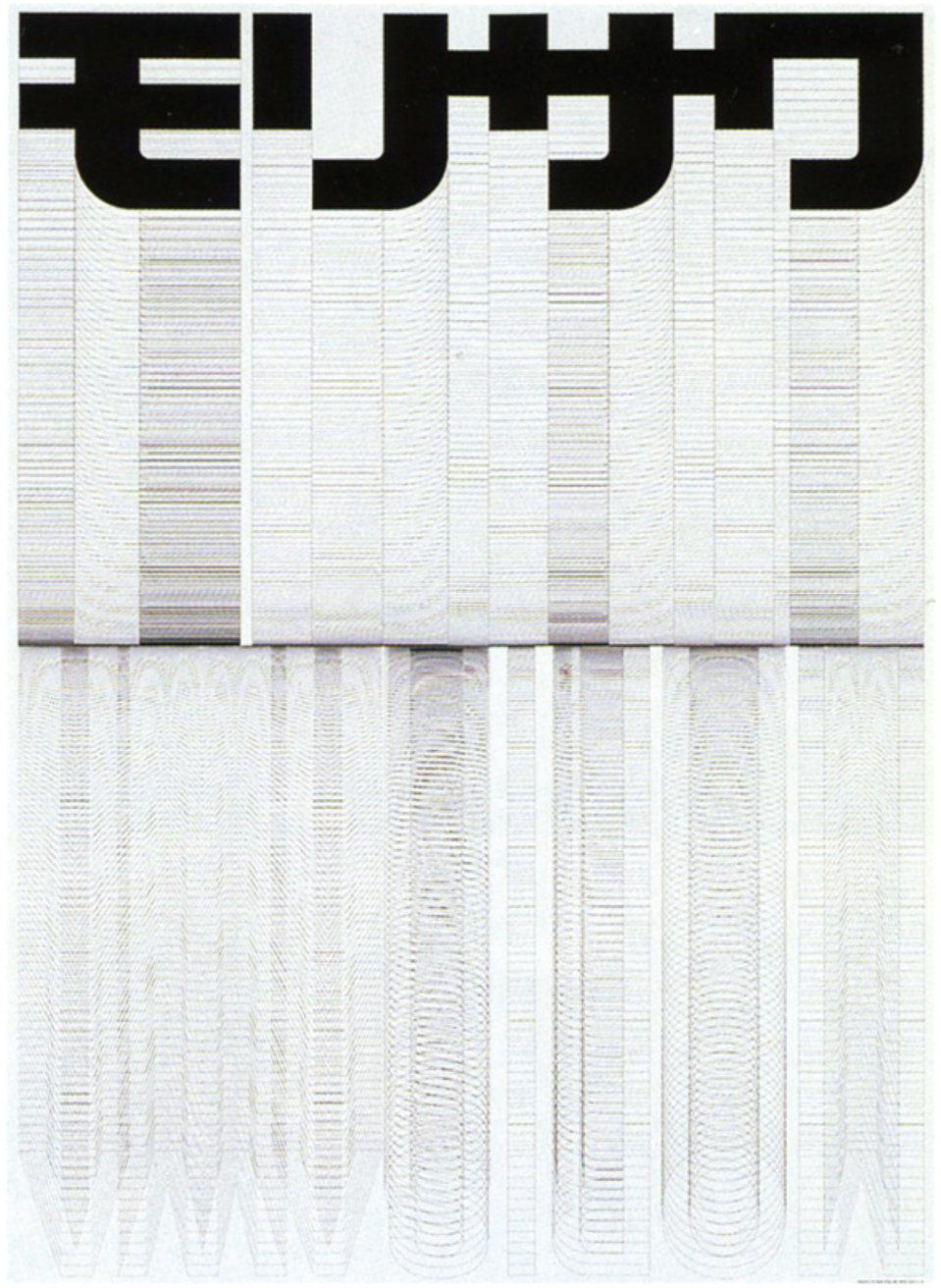
mori8.jpg



mori9.jpg

mori10.jpg



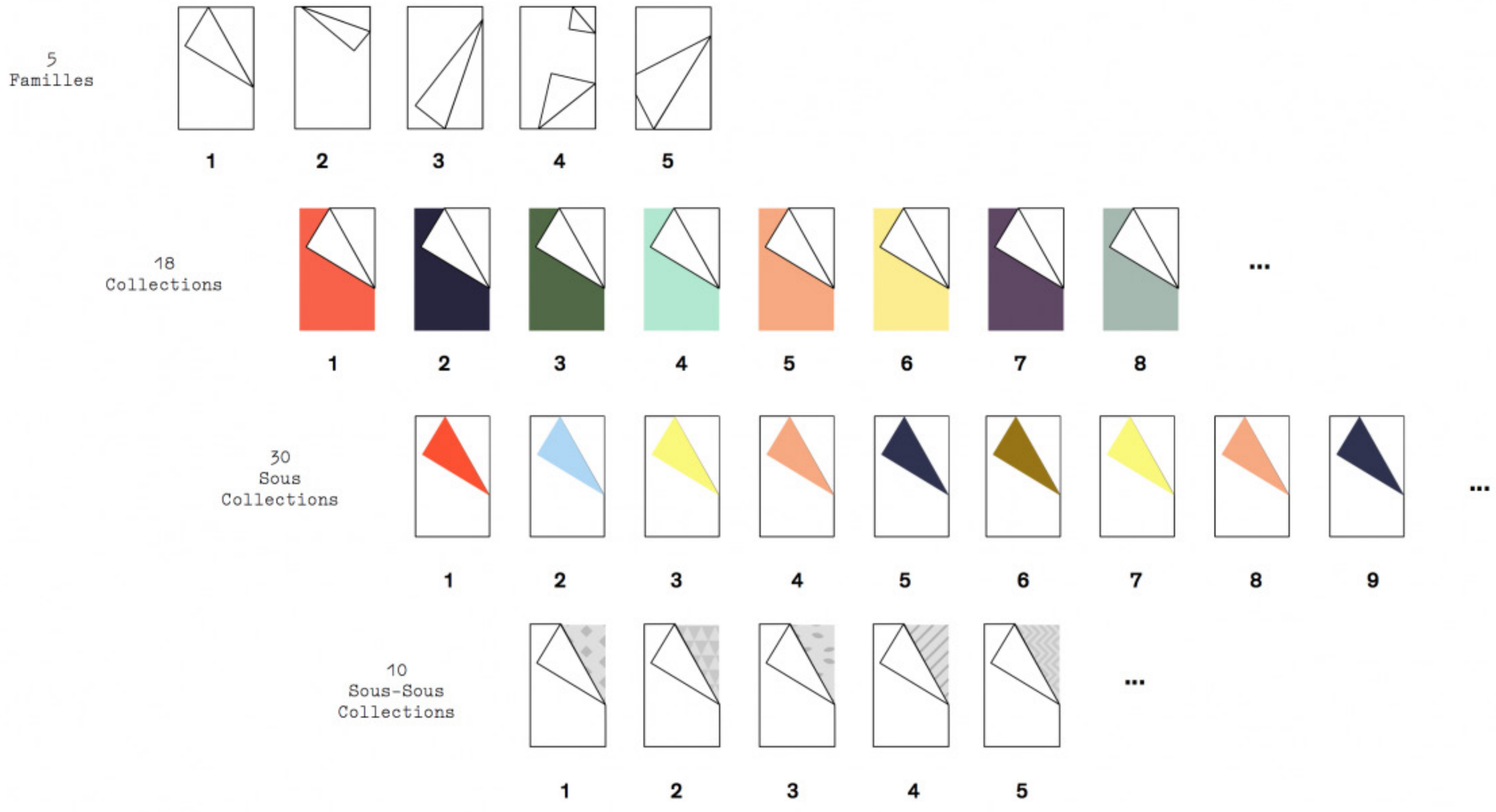


EVO

Field
10 000 digital paintings
(2013)

Print Test
Digital Paper
from GF Smith
Digital Samples
from GF Smith
The proof is in the printing.
These samples demonstrate
the outstanding quality of the
latest digital print technologies
and their brilliant performance
on GF Smith papers.
Paper from GF Smith
Colorplan
Pristine White
270gsm
Peregrina Majestic
Anthracite
290gsm
Mohawk Navajo
Brilliant White Smooth
148gsm
Mohawk Options
PC100 iTone
148gsm
Accent Fresco
Gesso
270gsm

Louis Eveillard et Coraline Mas-Prévost
Couvertures Génératives
(2016)



Rebecca Van Derhalen

Les larmes de Tarzan

PRESSES UNIVERSITAIRES DE FRANCE

Pauline réage

Histoire d'O

PRESSES UNIVERSITAIRES DE FRANCE

PRESSES UNIVERSITAIRES DE FRANCE

Paul Racine

J'ai servi Petain

Le dernier témoin

PRESSES UNIVERSITAIRES DE FRANCE

Maurice Lafontaine

Jeux de cartes en famille

Joachim Du Bellay

Mensonges à deux

Quand l'histoire se répète et dure jusqu'à n'en plus pouvoir

PRESSES UNIVERSITAIRES DE FRANCE

PRESSES UNIVERSITAIRES DE FRANCE

Jean Lafontaine

Hippocrate aux enfer

Les médecins des camps de la mort

Joachim Du Bellay

La science de l'eau

Étude approfondie des milieux acquatiques salés et doux

PRESSES UNIVERSITAIRES DE FRANCE

PRESSES UNIVERSITAIRES DE FRANCE

Jean Lafontaine

La politique des aveugles

Aveugle, arabe, homme et politique, ça vous étonne ?

export

Rechercher

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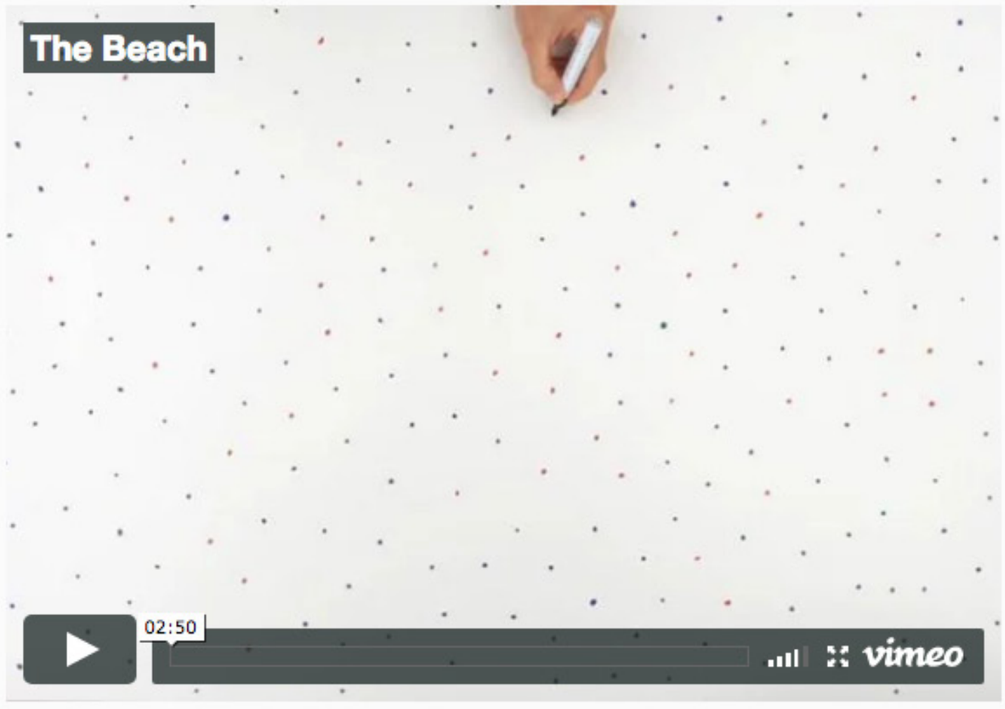
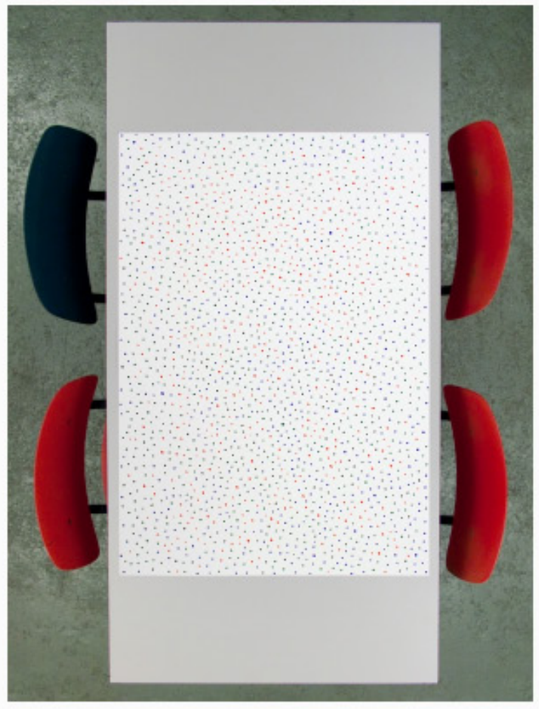
Conditional Design
(2013)

On the 2nd of June, 2009, we went to the beach



We did a workshop simulating a beautiful day at the beach.
(at night, at Lunas kitchen table)

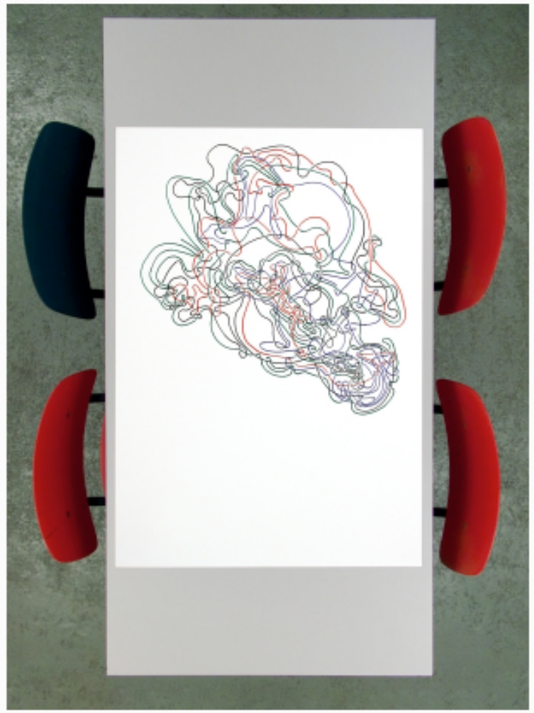
Roel: "entering the beach on a sunny day you will look for an empty place and position yourself right in the middle". - A fascinating form of self organization.



Instructions

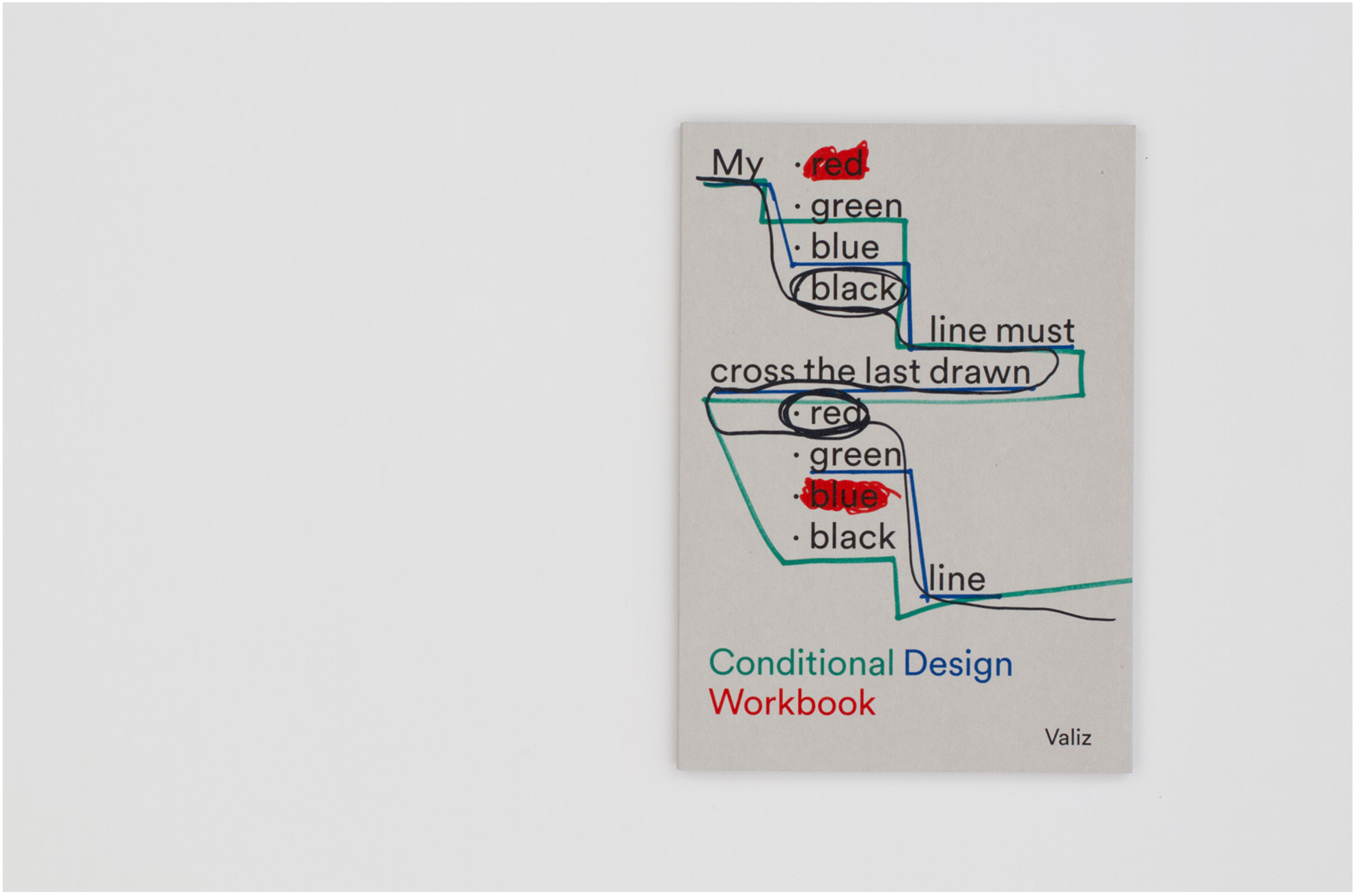
Each turn, find the most empty space on the paper and place a dot in the middle of it.

we knotted



Knots

1. Elongate your line on both sides by looping it over and under a line of another color.
2. You may not loop your own line or the line you looped in your last turn.
3. If you have no options left on one of the sides, that side is dead.
4. When both sides are dead, you may place a new line.


My · red
· green
· blue
· black
line must
cross the last drawn
· red
· green
· blue
· black
line
Conditional Design
Workbook
Valiz

1.3,
Do not cross
any other
lines.

V