

Intro to Data Weaving

The origin of the algorithms goes back further than the creation of the computer. Heros like Annie Albers and Gertrude Preiswerk were weaving patterns at the Bauhaus akin to computational outputs well into the early 1940's. Today, with the popularity of data visualization, many modern weavers are incorporating basic code into their practice as a way to embed and encode messages or information into their textiles.



Anni Albers in Florida, circa 1938, photograph by...



Anni Albers, Design for a rug, 1925



Bauhaus gouache weaving design by Benita...



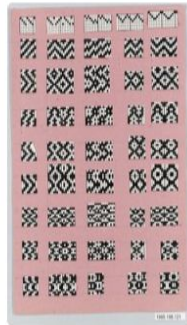
Otti Berger c. 1935



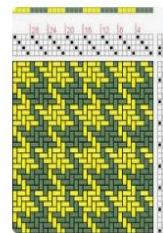
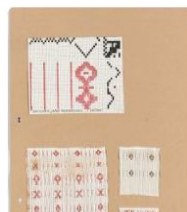
stanleyvogel: ruth hollós-coi semuller, bauhaus...



Margarete Willers | Bauhaus archive | Germany



BAUHAUS ARCHIVE



Hand Weaving Draft: Houndstooth Twill, , 4S, 4T...



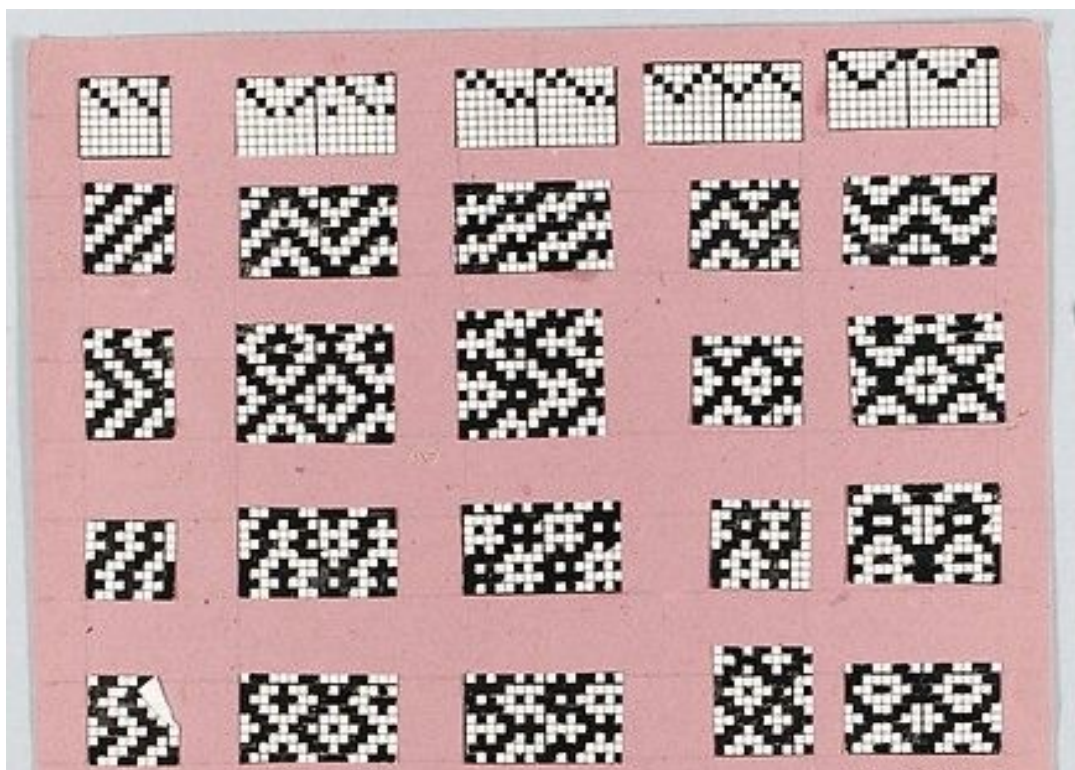
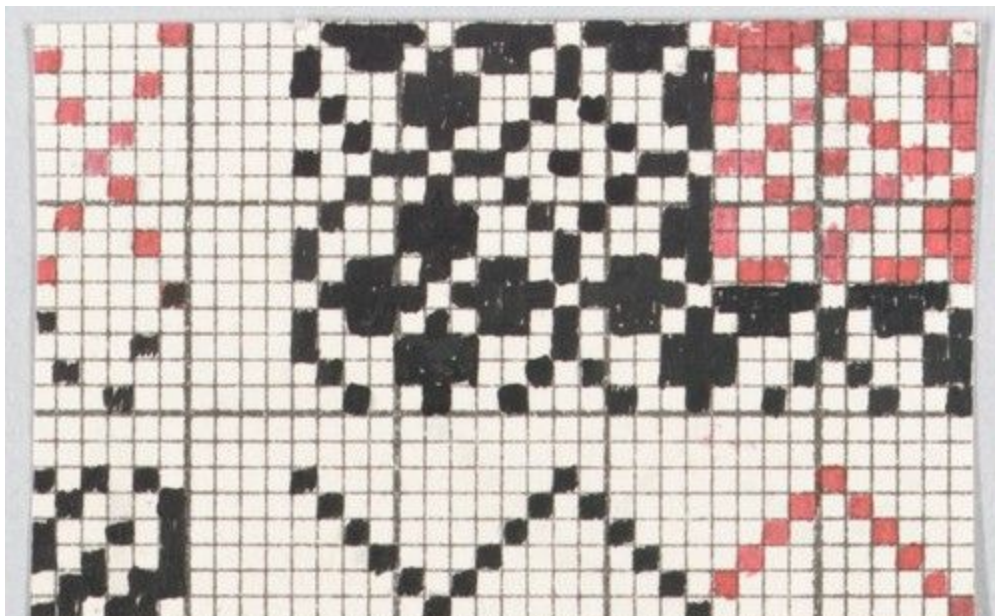
In this beginner friendly workshop, you'll learn how to work with p5.js to take simple data sets and turn them into digital patterns. Then, on a laser cut pocket loom, you'll learn the basics of weaving in order to translate your data from the screen to the skein. Each participant will leave with a woven data project!



Image from <https://www.textiellab.nl/nl>

Binary Code

A	100 0001	H	100 1000	O	100 1111	V	101 0110
B	100 0010	I	100 1001	P	101 0000	W	101 0111
C	100 0011	J	100 1010	Q	101 0001	X	101 1000
D	100 0100	K	100 1011	R	101 1010	Y	101 1001
E	100 0101	L	100 1100	S	101 0011	Z	101 1010
F	100 0110	M	100 1101	T	101 0100	a	110 0001
G	100 0111	N	100 1110	U	101 0101	b	110 0010



**Target Audience**

Graduate participants of all genders who have, ideally, had an introductory level to computation.
People who are interested in new ways to represent data.

Timeline for Planning the Workshop:

Sat Feb 23rd - laser cut looms
Sun Feb 24th - test techniques
Mon Feb 25th - finalize p5 pattern generating code
Tue Feb 26th - test workshop
Wed Feb 27th - Fri Mar 1st - get materials

Syllabus:

5 mins - introductions and historical context, with visuals
20 mins - generating p5 data set
30 mins - weaving data
5 mins - concluding statements

Budget:

- \$10 wood to laser cut 10 small “pocket looms”
- \$30 yarn, wool and string

Materials List:

- Paper
- Scissors
- 10 small hand looms

- Computers (bring your own)
- P5.js
- Some small example data sets
- Example coding framework
- Questions to prompt the creation of a small data set
- Yarn, wool and string