

STRANGE LITTLE
BITS I CALL HOME
(ALSO KNOWN AS A
MONDAY)

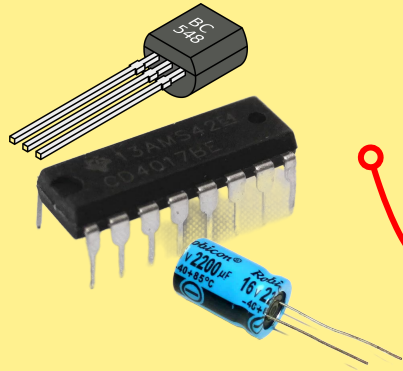
Marissa Renteria

WHAT DOES “HOME”
MEAN?



Frankie Cosmos' Next Thing; an album
very dear to me

Synthesizer Component



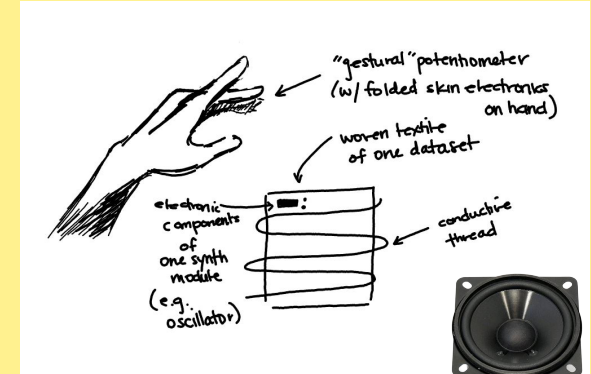
Comprised of CMOS ICs, capacitors, and transistors

Textile/Paper Inputs



Binary woven pieces and folded circuits on skin act as resistors or potentiometers through which a person can interact with synth

Synth + Textile



Electronics and textile merge w/ resistive and gestural interaction

What is happening

DATA → BINARY → WEAVING PATTERN

EX

"Hello world!" → "0100100
01100101..." → MAPPING IN PYTHON

0s - NORMAL TWILL
1s - SHIFTED TWILL

PATTERN &
WEAVING
INSTRUCTIONS
PRINTED ON
EXCEL

SHAFTS
DOWN
0 1234
1 3456
0 3456
0 4567
⋮

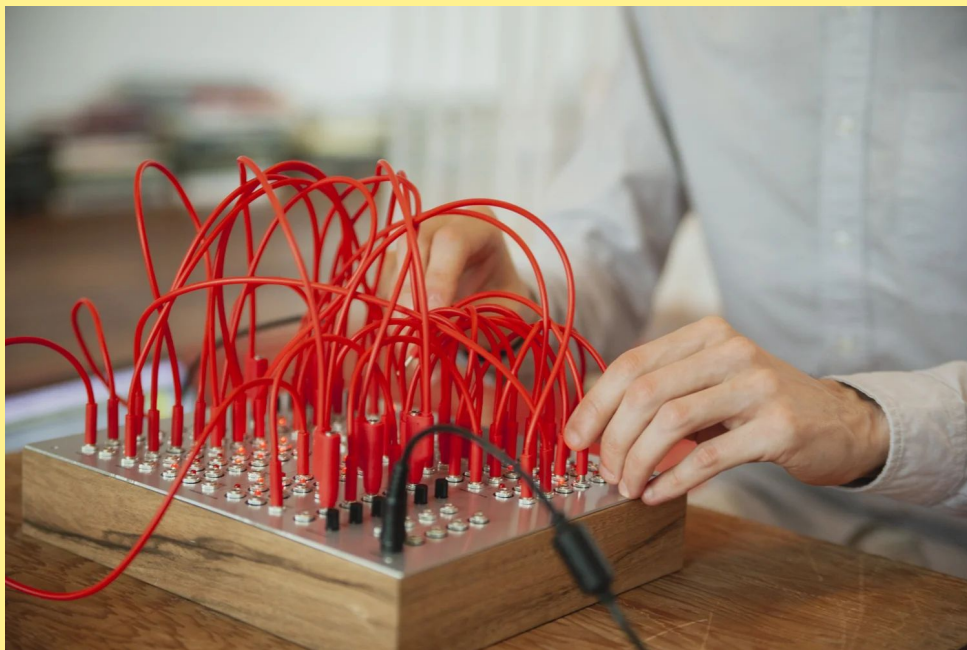


↓
WEAVE PATTERNS
ON LOOM (8 SHAFTS)

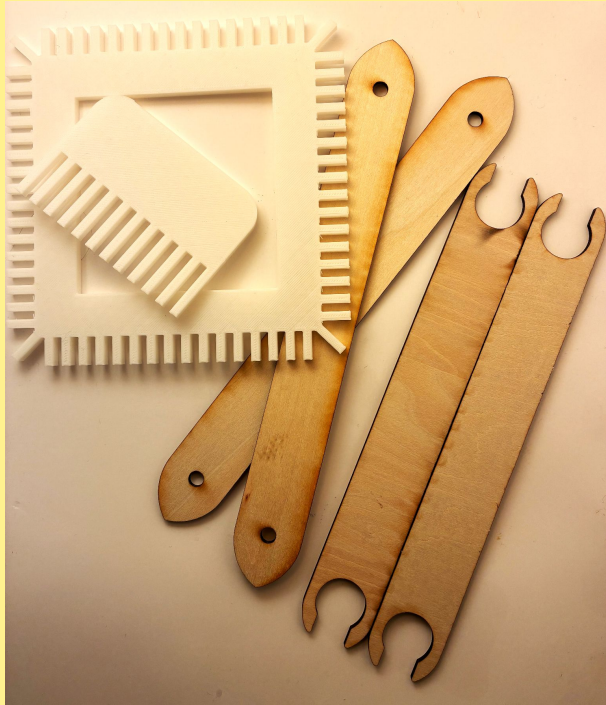


Icelandic artist
Hekla and her
theremin

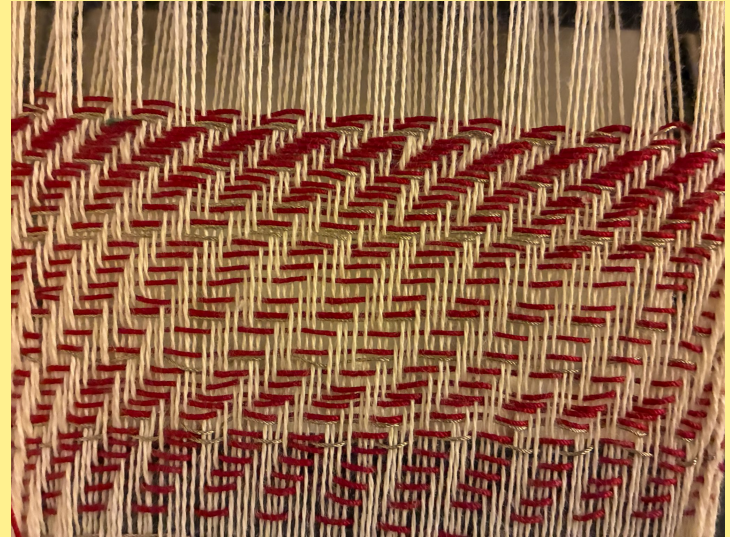
Passepartout
Duo's 40xx Synth



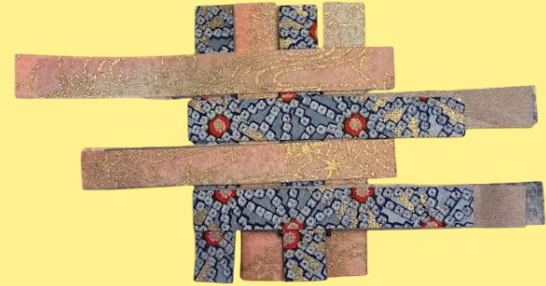
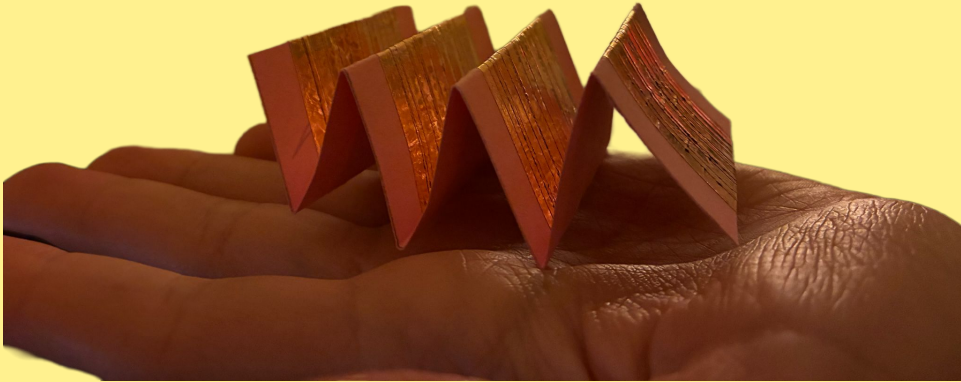
WORK + PROTOTYPE



Shaft Lifts	1	2	3	4	5	6	7	8
1 2 3 4	Black	Black	Black	Black	White	White	White	White
3 4 5 6	Red	Red	Red	Red	Red	Red	Red	Red
3 4 5 6	White	White	Black	Black	Black	Black	White	White
4 5 6 7	White	White	White	Black	Black	Black	Black	Black
5 6 7 8	Black	Black	White	White	Black	Black	Black	Black
1 6 7 8	Black	White	White	White	White	Black	Black	Black
1 2 7 8	Black	Black	Black	White	White	White	Black	Black
1 2 3 4	Red	Red	Red	Red	Red	Red	Red	Red



Potential
foldable/skin
potentiometers



- 8 ohm speaker
- 9V battery
- Synth modules:
 - ◆ Oscillator
 - ◆ LFO
 - ◆ VCA Mixer
 - ◆ Binary Counter
 - ◆ Multiplexer
 - ◆ Envelope

