

PRESENCE · RHYTHM · INTELLIGENCE

Gratitude Loom

A Ritual Instrument for Weaving Presence

When was the last time you were here?

*A sense of always moving —
but never quite arriving.*

What if slowing down was the practice?

Ritual

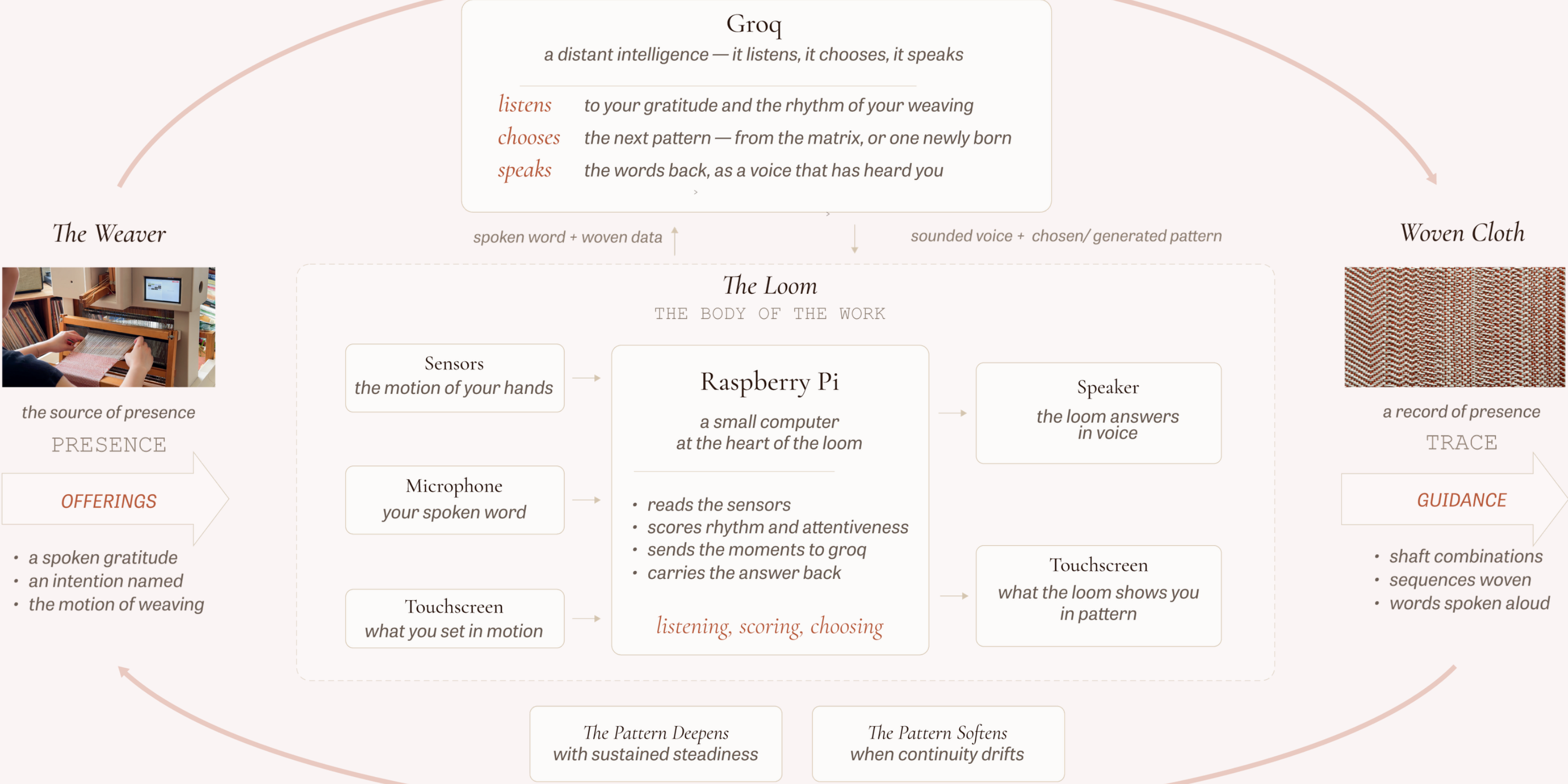
Gratitude



The loom gives the AI a body



RITUAL FEEDBACK CYCLE



Gratitude Loom
System Overview

CO-REGULATION LOOP

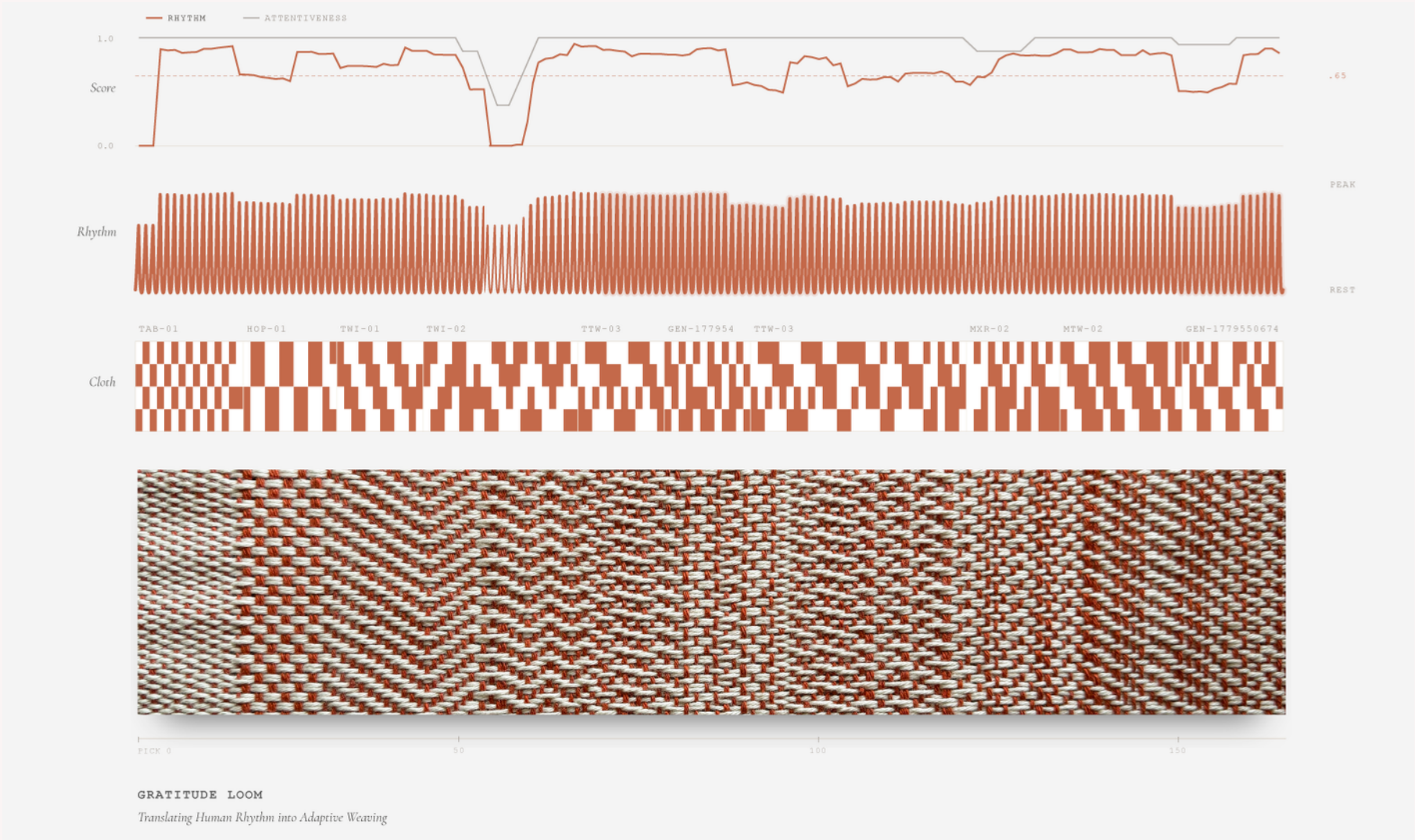
weaver and loom, settling into one another

Most AI systems are built to go faster

Gratitude Loom is Built to Hold Still

The Cloth

Material Output — A Record of Presence



The Ritual Arch

Each session moves through six phases. The arc is not a script but a container.
The weaver moves through it at their own pace. The Loom holds the structure without announcing it.

PHASE 1 Arival The weaver arrives. The ritual begins with the simple act of being here.	PHASE 2 Acknowledgement A gratitude is spoken aloud. The Loom receives it and marks the beginning of the practice.	PHASE 3 Intention The Loom asks two questions. How are you feeling right now, and how would you like to be held today?	PHASE 4 Calibration Rhythm begins to emerge. Body, breath, hands, and loom gradually settle into coherence.	PHASE 5 Deepening Attention is sustained through weaving. As rhythm stabilizes, the pattern evolves alongside the practice.	PHASE 6 Completion The ritual reaches a place of stability. The Loom may suggest an ending, but the weaver decides when they are done.	PHASE 7 Closing The Loom acknowledges the session. The cloth remains as a record of attention, rhythm, and care.
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Gratitude & Acknowledgement

Gratitude opens the ritual by anchoring the session in something real, and transforming the loom from a tool into a living presence that witnesses the weaver.

The Exchange

WEAVER

“I am grateful for the morning light”

LOOM

“You noticed the light this morning. That’s a kind of stillness most people walk right past.”

Intention Setting

After the reflection, the Loom asks one question. The weaver answers in their own words. The Loom listens, chooses a starting place, and imagines where the weaver might be going. The matrix is never shown or named. The weaver is choosing an experience, not a pattern.

THE QUESTION

“How is your body feeling right now?
And How would you like to be held today?”

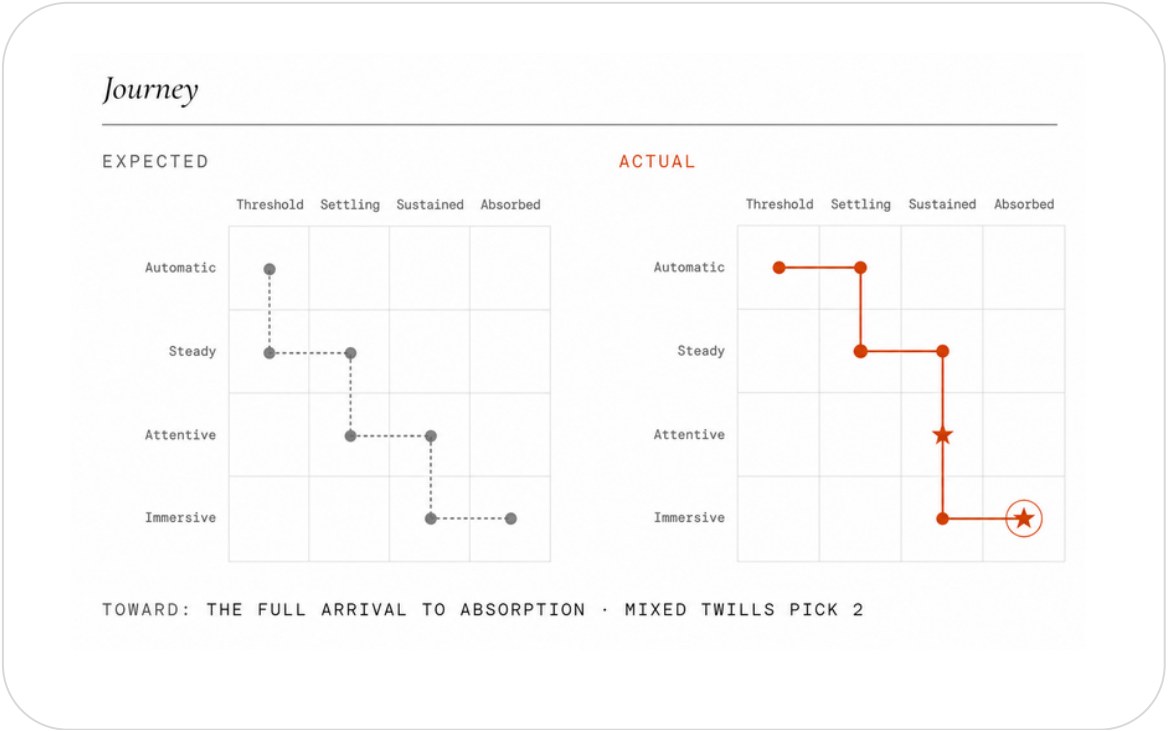
WHAT THE LOOM HEARS • *chooses a starting cell*

The Loom selects a starting position within the matrix based on the weaver’s current emotional and bodily state as expressed through their response.

AND IMAGINE A PATH • *project a destination*

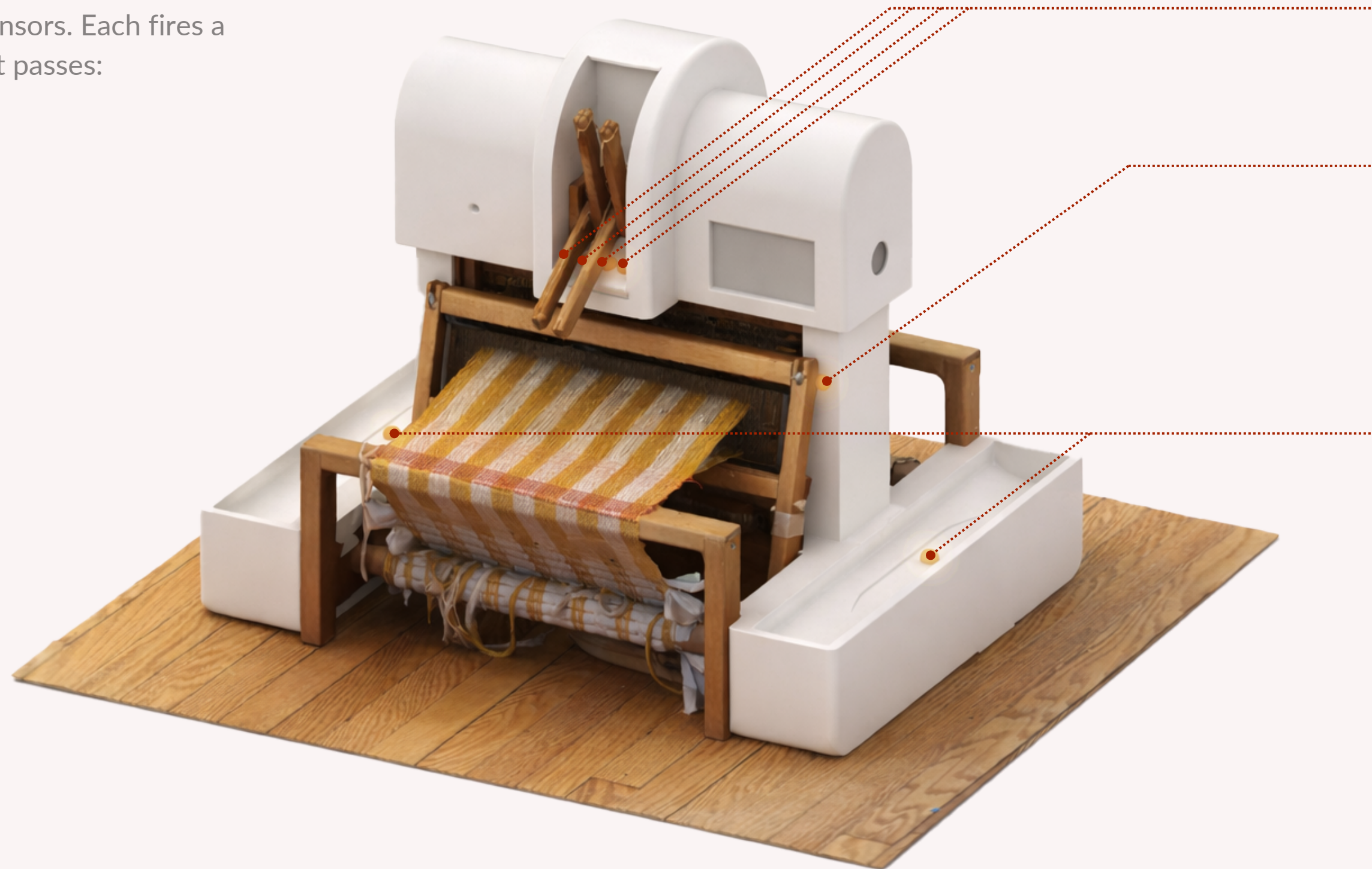
The Loom maps a potential journey based on how the weaver hopes to feel throughout the session.

**The path is only a suggestion.
the body ultimately decides whether to follow it*



Sensor Integration

All sensors are hall effect sensors. Each fires a binary event when a magnet passes: present or absent.



Beat Rhythm

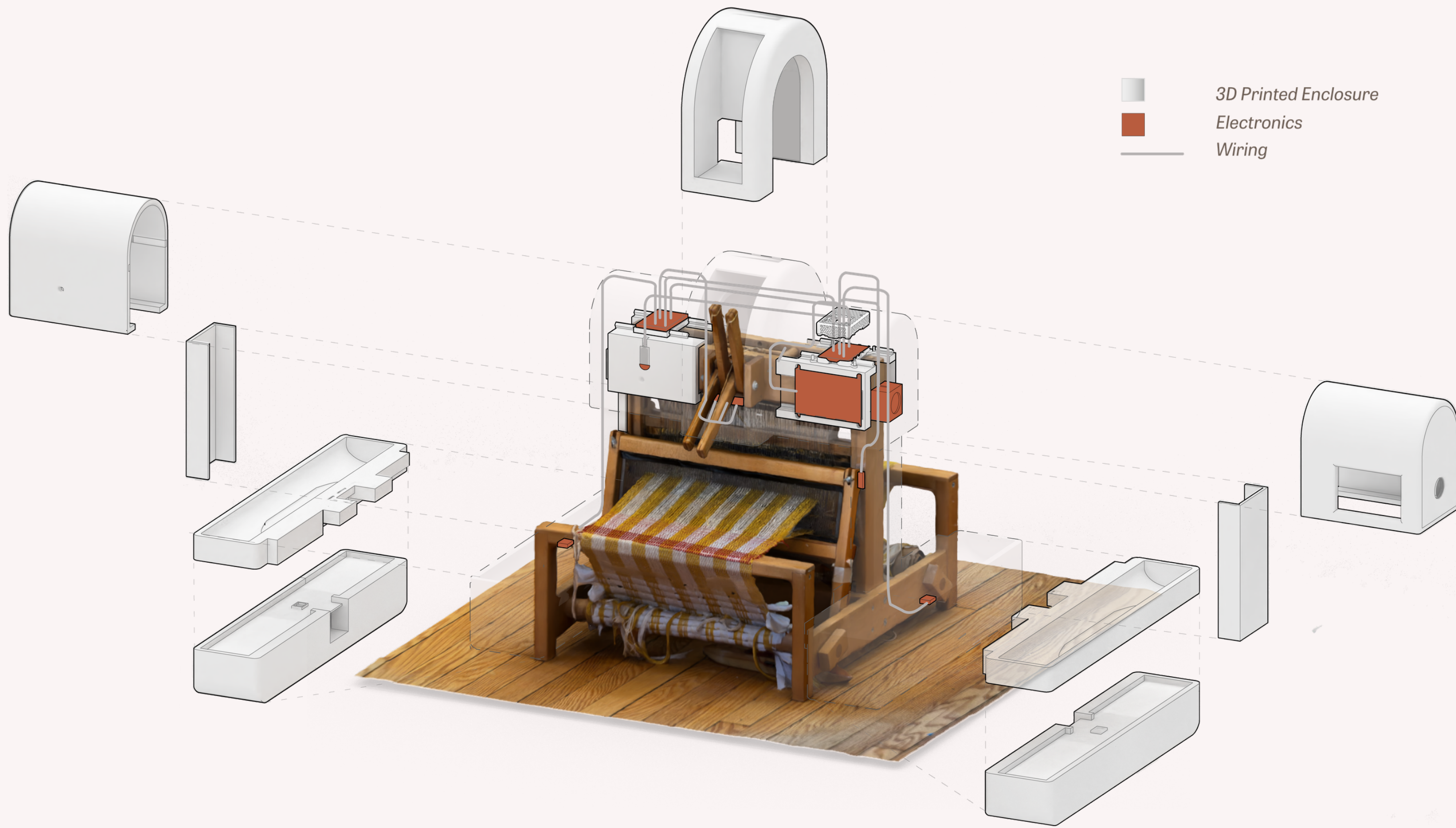
Shaft Levers x 4

Shuttle Rhythm

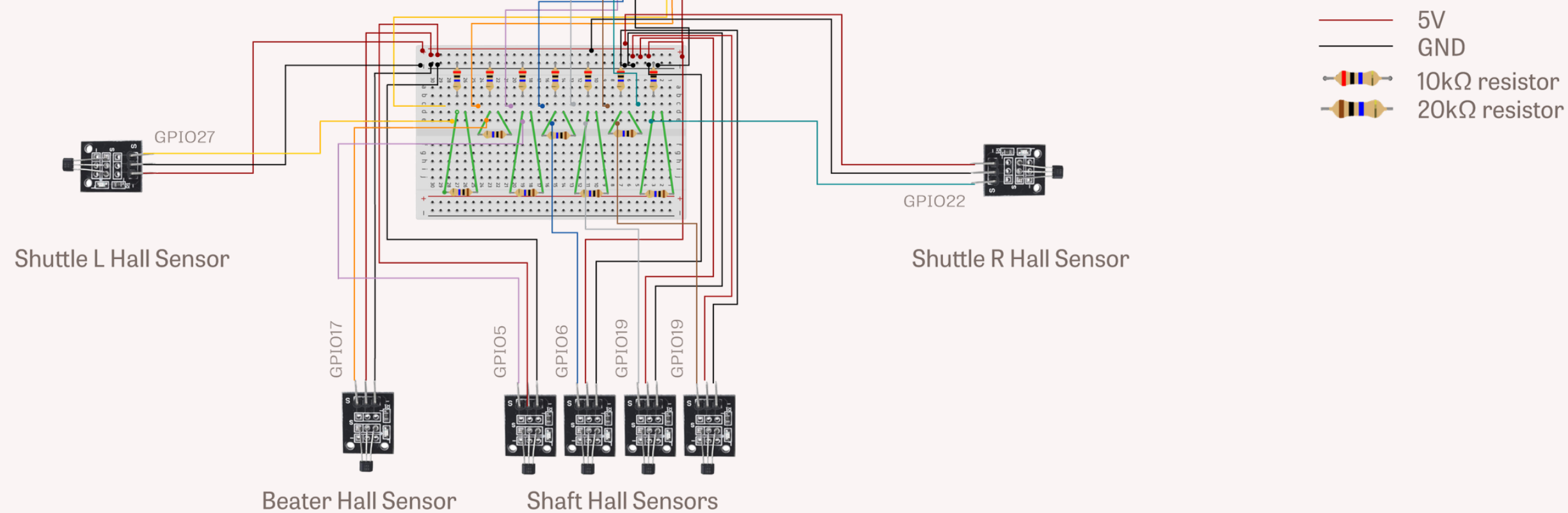
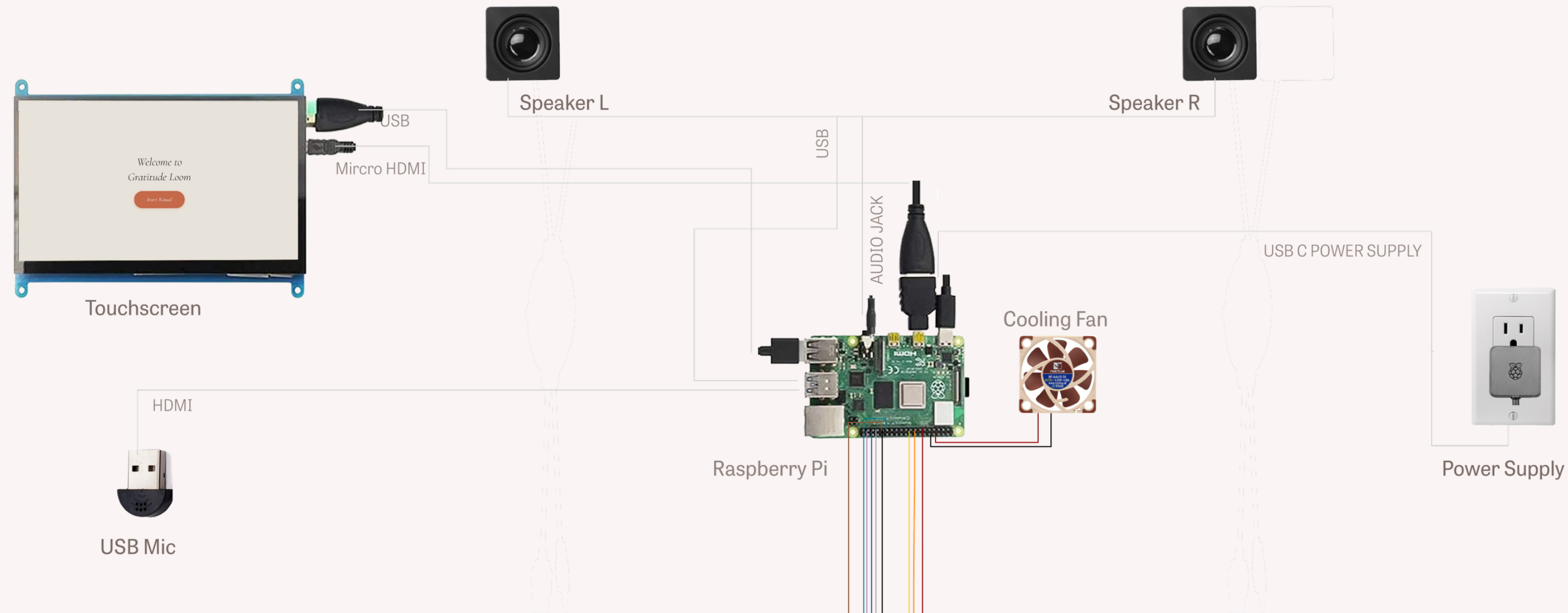
Beater x 1

Shaft Rhythm

Shuttle Dock x 2



Gratitude Loom
Enclosure Assembly



Gratitude Loom
Hardware System

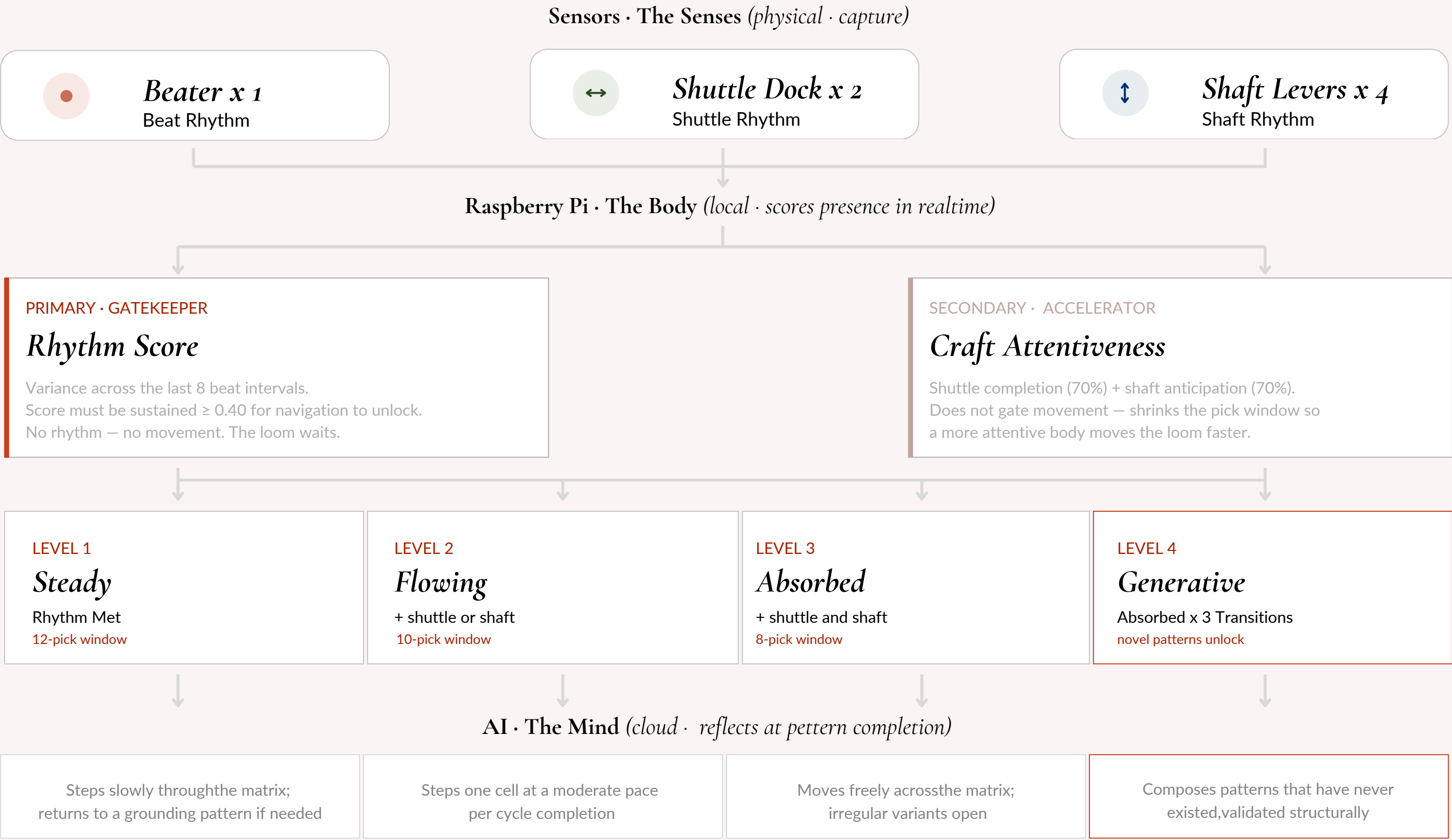
Pick-by-Pick Workflow

Every pick follows the same physical sequence. Each step is sensed, logged, and fed into the system.

Press shaft lever(s) SHAFT HALL X4	Shaft sensors fire on press. Pi logs timestamp and shaft rhythm start.
Pick up shuttle from dock DOCK HALL X2	Dock sensor fires on lift. Pi logs dock side and marks shuttle rhythm start.
Throw Shuttle NO SENSOR	No direct sensor. Movement is inferred from arrival at the opposite dock.
Place shaft on opposite dock DOCK HALL X2	Dock sensor fires on placement. Completes shuttle rhythm unit. Pi computes pass duration.
Lift the shaft SHAFT HALL X4	Shaft sensors fire on lift. Completes shaft rhythm unit. Pi computes transition timing.
Beat BEAT HALL X2	Beater sensor fires. Primary rhythm event—completes the pick cycle.
Repeat CONTINUE PICKING	Cycle continues within pattern. Pi tracks position in repeat. No eligibility check mid-cycle.

AI & Presence Scoring

Movement is captured physically, scored locally, and interpreted in the cloud.



Navigation Rules

Every pick follows the same physical sequence. Here is exactly what each component detects at each steps, and how it feed the system.

RHYTHM SCORE · THE GATE

Beater coherence opens the door

The rhythm score must sustain ≥ 0.40 across the rolling 8-interval window for any movement to be eligible.

No rhythm — no movement.
The loom holds whatever pattern is current and waitsfor the body to come back.

CRAFT ATTENTIVENESS · THE PACE

Shuttle and shaft shrink the cooldown

Once eligible, the loom waits a number of picks before considering the next transition.
Attention sets the wait.

- Steady 12-pick window
- Flowing 10-pick window
- Absorbed 8-pick window

INTERPRETATION · THE PACE

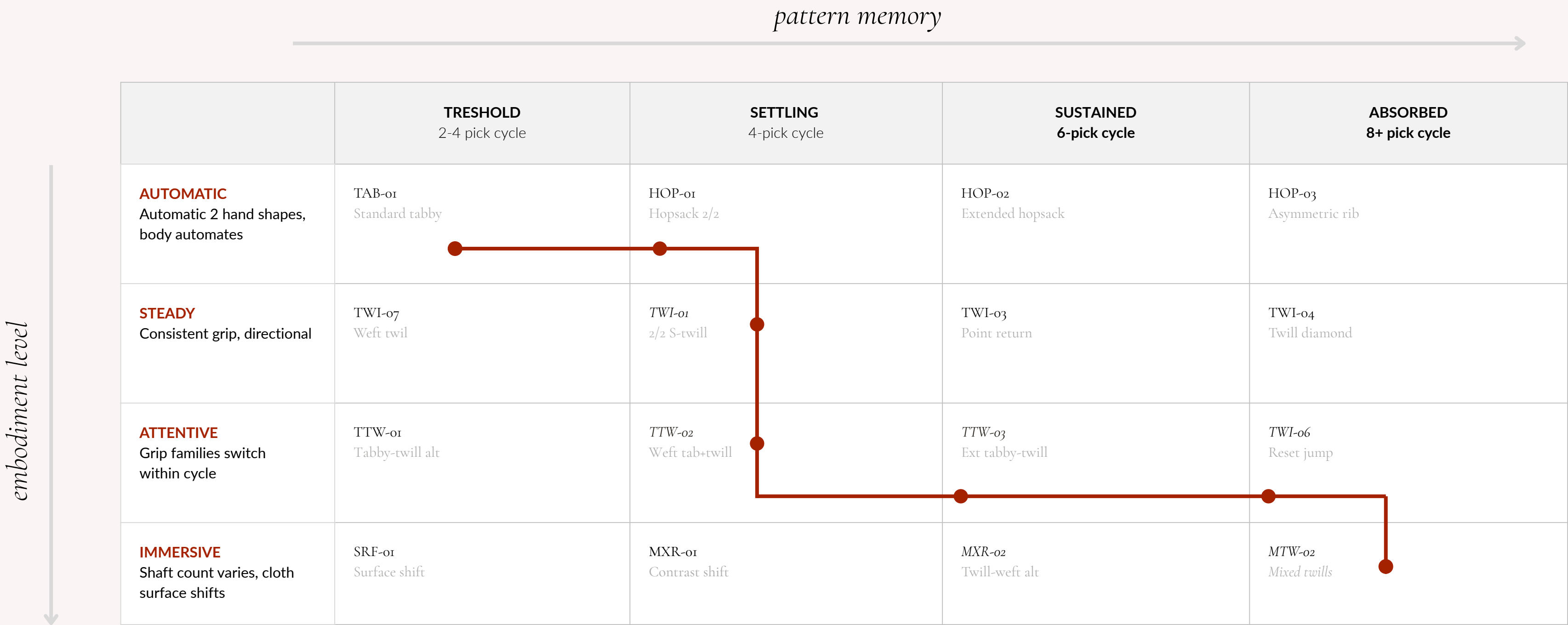
The loom listens, then turn

When the window opens, the Loom reads the live scores, recent history, and the weaver's intention. It proposes one adjacent cell — never diagonal.

- ↑ hands simplify
- ↓ hands deepen
- cycle shortens
- ← cycle lengthens

One Gratitude · Structure Overtime

A single gratitude unfolds through a sequence of structures.
The system responds continuously, but only shifts at structural boundaries.



The session begins with a 24-pick calibration to establish baseline rhythm. Movement is continuously sensed. Structure shifts only at pattern completion.

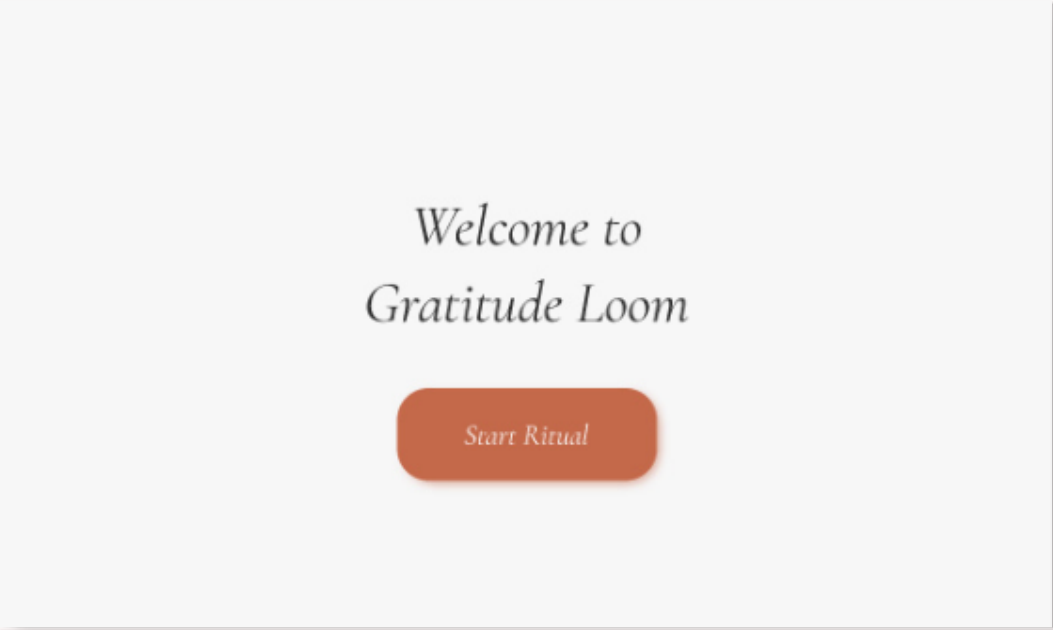
Weaver Authority

The weaver holds complete authority throughout the session. Voice is always available, never required.

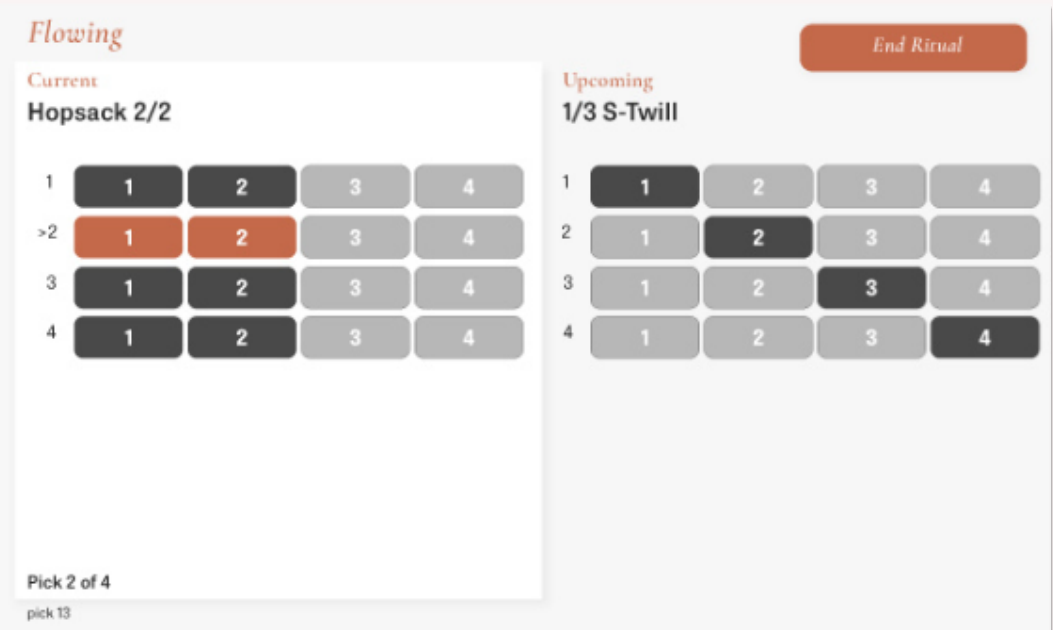
WEAVER SAYS	SYSTEM RESPONSE	RULE
<i>"Stop" / "I'm done" / "End"</i>	Completes current unit. Generates a brief closing reflection. Saves session.	Immediate. Always honored.
<i>"Continue" / "Keep going" / "Stay here"</i>	Holds current pattern regardless of eligibility. Resumes after one full repeat. Rule: Overrides AI for one repeat.	Overrides AI for one repeat.
<i>"Change" / "Something different"</i>	Pi sends immediate signal. AI selects next pattern using full context.	Completes current unit first.
<i>"Simpler" / "Ease" / "Slower"</i>	Moves one step toward simpler structure.	Completes current unit first.
<i>"Deeper" / "More" / "Challenge me"</i>	Moves toward more complex structure if coherence permits. Otherwise holds.	Only if coherence permits.
<i>Frustration or distress in vocal tone</i>	Shifts to simpler structure quietly. The cloth eases.	Tone detection. Immediate.

The Interface

Screen UI Design



Session Begin State



Ritual State



Session End State

The Backend

Web Dashboard

Data

Scores

0.86

RHYTHM

0%

SHUTTLE

0%

SHFT

QUALITY: DEEPLY PRESENT

FLOW:

GEN:

Shafts

1

2

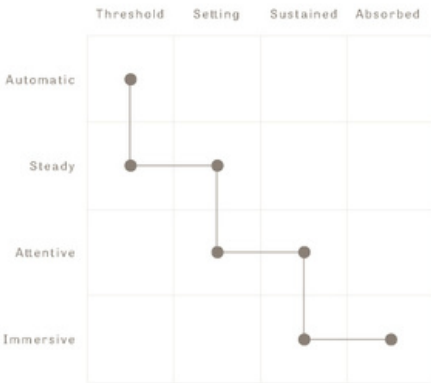
3

4

UPCOMING: NONE

Journey-

EXPECTED



ACTUAL



Gratitude Loom Journal

TODAY'S DATE: 2025-05-23 • 08:30 am • 25 mins

TODAY I'M GRATEFUL FOR

I'm grateful for my family

TODAY'S INTENTION

My body is feeling a bit tense and I would like to take

Conversation

PORPLA

I'm grateful for my family.

LOOM

You named your family. There's a quiet strength in naming the people who hold you.

LOOM

How's your body feeling right now? And how would you

LOOM

My body is feeling a bit tense and I would like to take

Data

Scores

0.86

RHYTHM

0%

SHUTTLE

0%

SHFT

QUALITY: DEEPLY PRESENT

FLOW:

GEN:

Shafts

1

2

3

4

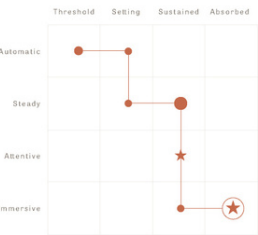
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Journey-

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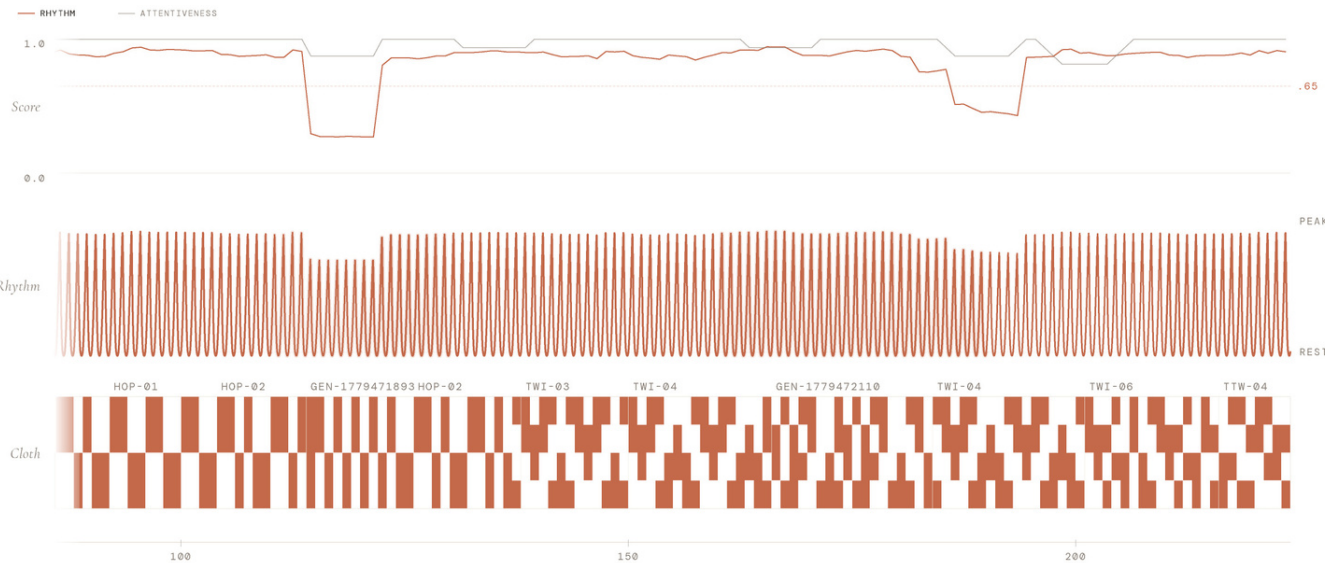


ACTUAL



Visualization

SCORE • RHYTHM CLOTH



With Gratitude

This project is built on many hands, many voices, and many quiet acts of support.

*Thank you to **Fabricademy** for creating a space of generosity—of knowledge, resources, and shared curiosity.*

*I am especially grateful to my local mentor, **Louise Massacrier**, who helped strengthen the project's conceptual foundation while continually encouraging me to stop thinking and start making. Later, she suggested that the video itself should become the ritual. Both interventions fundamentally changed the project.*

*Thank you to my global mentors **Anoush Arshakyan** and **Emma Pareschi**'s for their guidance, for meeting every technical question with patience, and for opening pathways for where this project might go next.*

*To **my cohort**—especially **Marissa Renteria**—who patiently answered countless questions about dressing the loom, openly documented her own weaving journey when I had nowhere else to look, and generously exchanged ideas with me as we each developed our projects.*

*To **Patricia Pérez Vizcay**, **Alexandra Sargent Capps**, and **Heaven Whitby**—thank you for the weekly check-ins, encouragement, and thoughtful conversations. Thank you for moving through this journey together from the very beginning.*

*To my sister, **Nid Kittisapkajon**, who was the body at the loom in the film, and who rethreaded it with me at midnight the week before the final review. To **Kevin Sathapornchaisit**, who took time out of his free time to help my sister and me dress the loom. To my husband, **Thanarat Kasikitthamrong**, who filmed and held everything else together.*

*Thank you to **Penny La Croix** for her generosity, for opening her space, for sharing her wisdom as a weaver, and for helping me find the loom that made this project possible.*

Gratitude Loom would not exist without these people—and many others, seen and unseen.

This work is not made alone.