

PRESENCE · RHYTHM · INTELLIGENCE

# *Gratitude Loom*

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*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

**Groq**  
*a distant intelligence — it listens, it chooses, it speaks*

*listens* to your gratitude and the rhythm of your weaving  
*chooses* the next pattern — from the matrix, or one newly born  
*speaks* the words back, as a voice that has heard you

The Weaver



the source of presence

PRESENCE

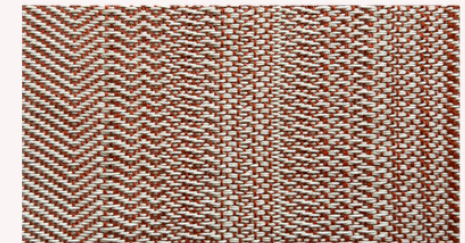
OFFERINGS

- a spoken gratitude
- an intention named
- the motion of weaving

spoken word + woven data

sounded voice + chosen/generated pattern

Woven Cloth

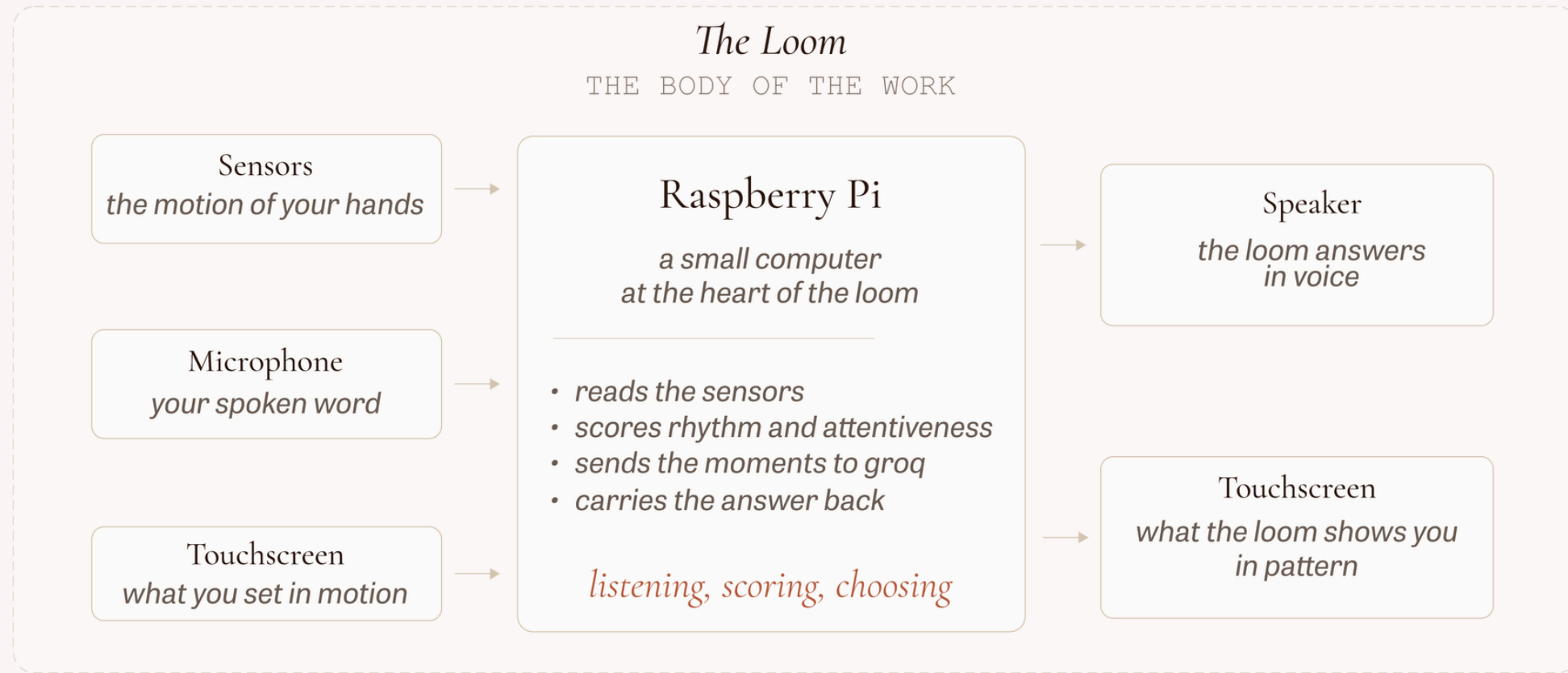


a record of presence

TRACE

GUIDANCE

- shaft combinations
- sequences woven
- words spoken aloud



The Pattern Deepens  
with sustained steadiness

The Pattern Softens  
when continuity drifts

CO-REGULATION LOOP

weaver and loom, settling into one another

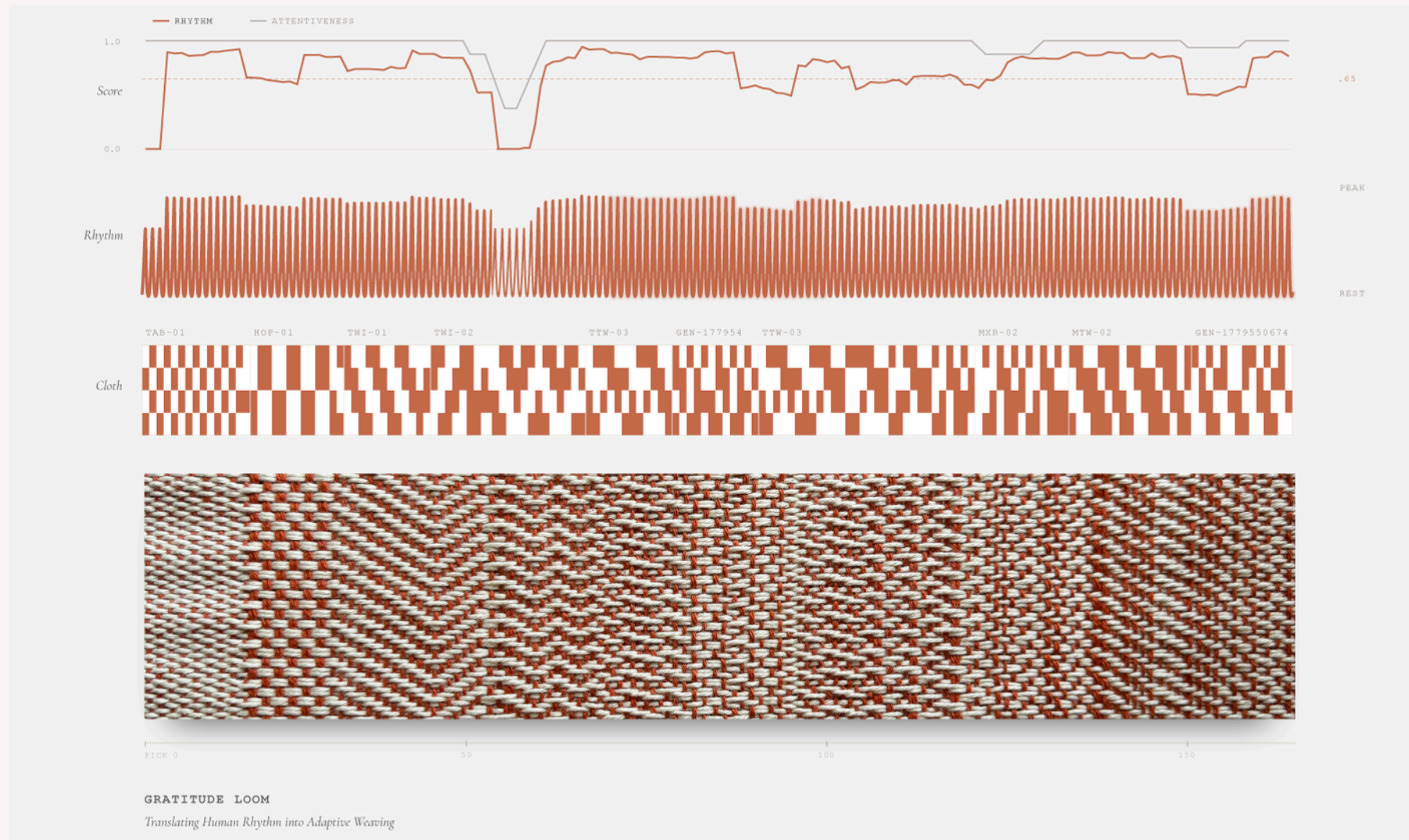
Gratitude Loom  
System Overview

*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

### *Arrival*

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.

# *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


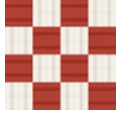















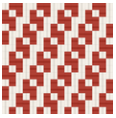
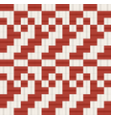
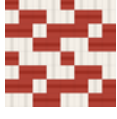
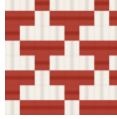
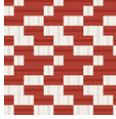

*“You noticed the light this morning. That’s a kind of stillness most people walk right past.”*



# Pattern Matrix

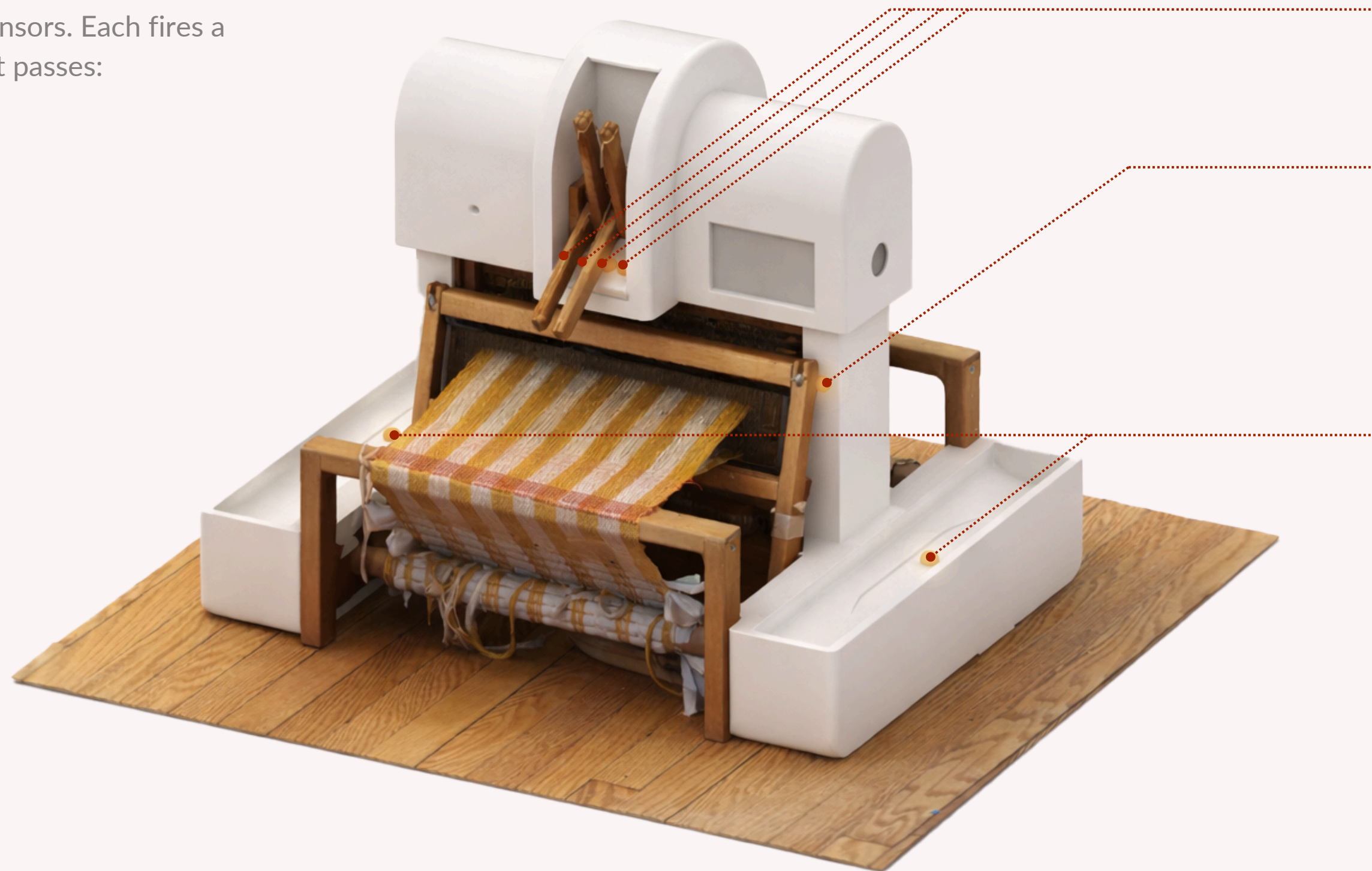
pattern memory →

embodiment depth ↓

	TRESHOLD 2-4 pick cycle	SETTLING 4-pick cycle	SUSTAINED 6-pick cycle	ABSORBED 8+ pick cycle
<b>AUTOMATIC</b> Automatic 2 hand shapes, body automates	 TAB-01 Standard tabby Regular	 HOP-01 Hopsack 2/2 Regular   RIB-01 Warp rib Regular	 HOP-02 Extended hopsack Asymmetric	 HOP-03 Asymmetric rib Asymmetric
<b>STEADY</b> Consistent grip, directional	 TWI-07 Weft twil Directional	 TWI-01 2/2 S-twill Directional   TWI-02 2/2 Z-twill Directional	 TWI-03 Point return Turning   RIB-02 Alternating rib Turning	 TWI-04 Twill diamond Turning   RIB-03 Rotating rib Directional
<b>ATTENTIVE</b> Grip families switch within cycle	 TTW-01 Tabby-twill alt Broken	 TTW-02 Weft tab+twill Broken   TWI-05 Step-jump Broken	 TTW-03 Ext tabby-twill Broken   MTW-01 Crow's foot Broken	 TTW-04 Full tabby-twill Broken   TWI-06 Reset jump Broken
<b>IMMERSIVE</b> Shaft count varies, cloth surface shifts	 SRF-01 Surface shift Broken	 MXR-01 Contrast shift Broken	 MXR-02 Twill-weft alt Broken	 MTW-02 Mixed twills Broken

# *Sensor Integration*

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



Beat Rhythm

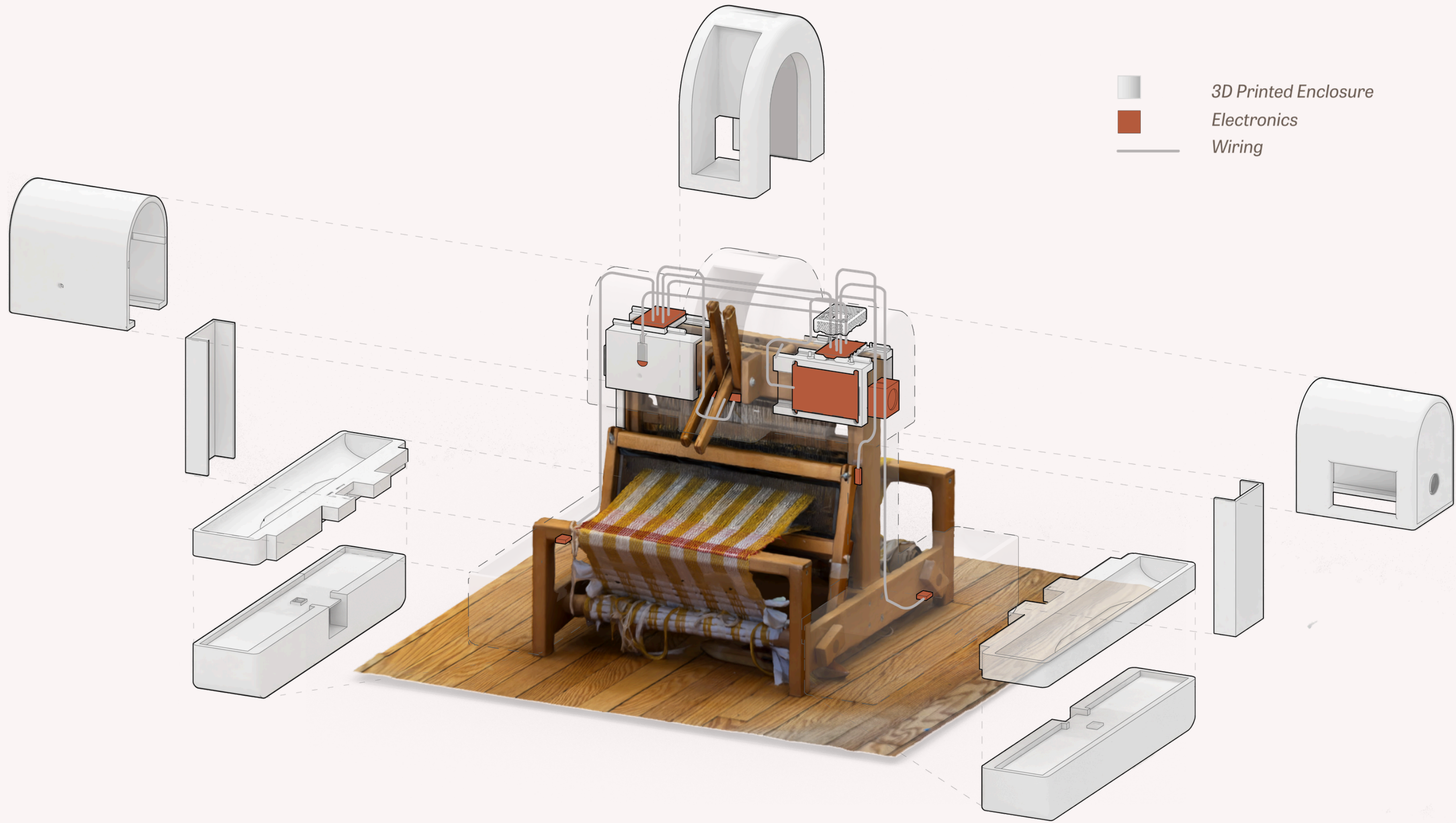
*Shaft Levers x 4*

Shuttle Rhythm

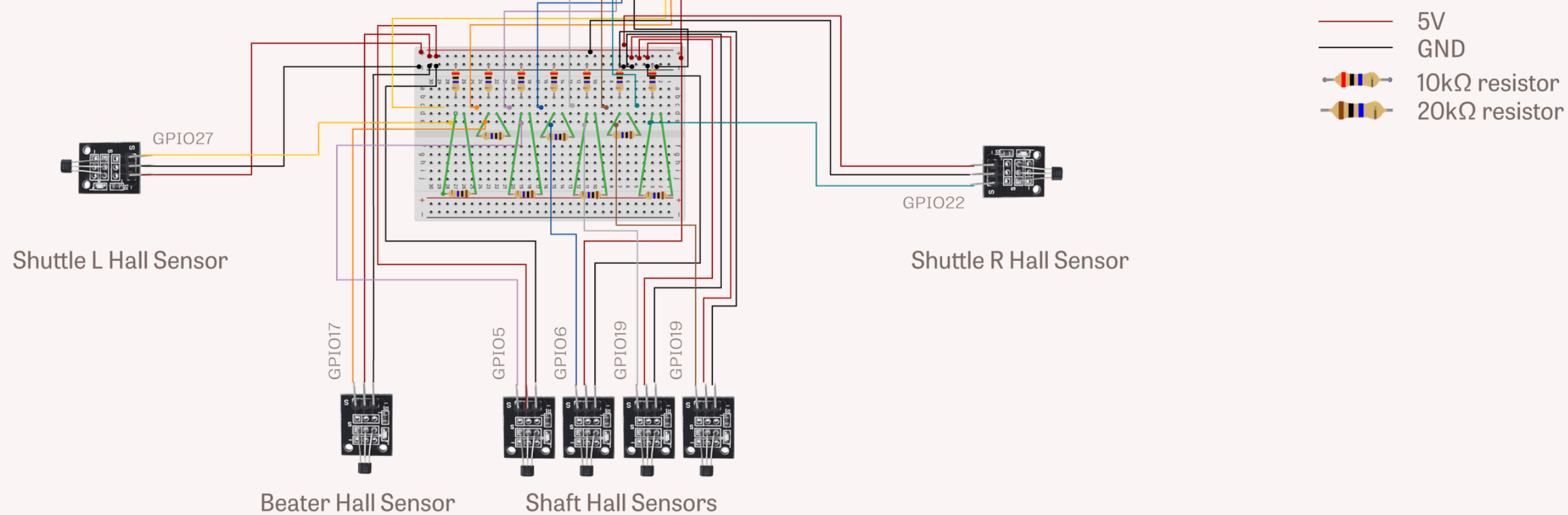
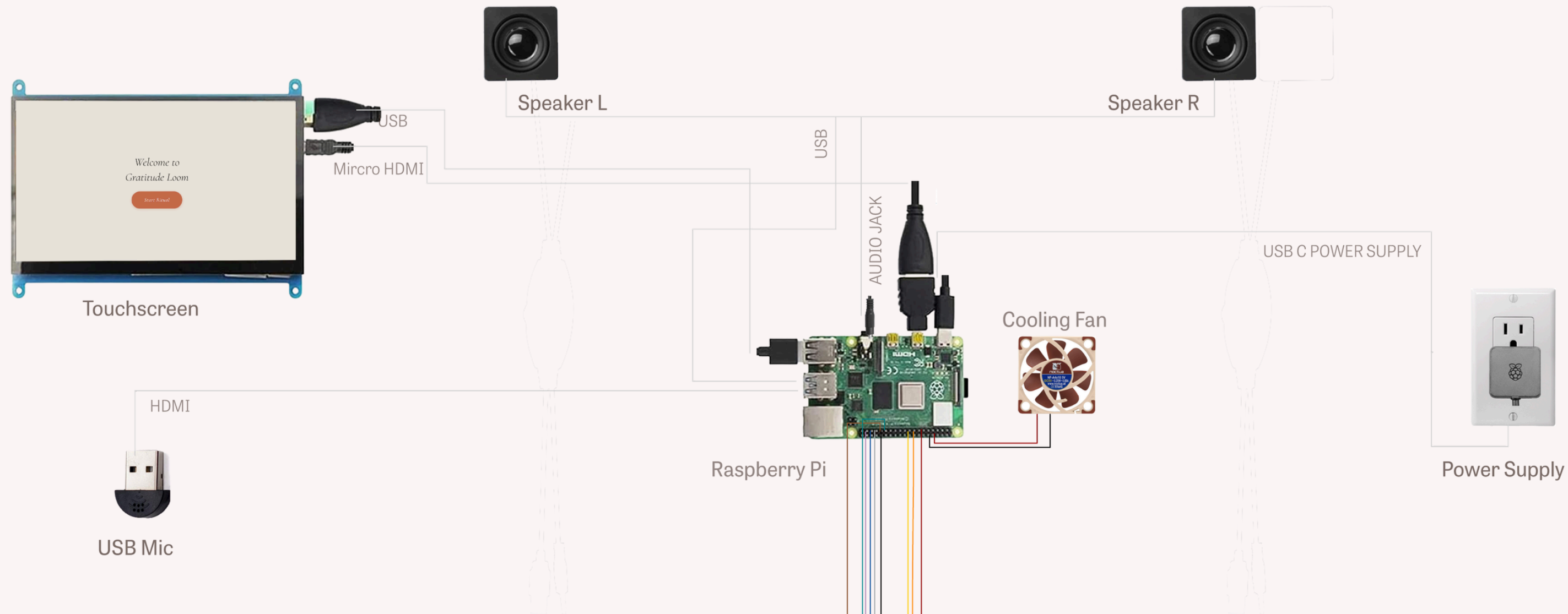
*Beater x 1*

Shaft Rhythm

*Shuttle Dock x 2*



*Gratitude Loom*  
*Enclosure Assembly*



# Gratitude Loom

Hardware System

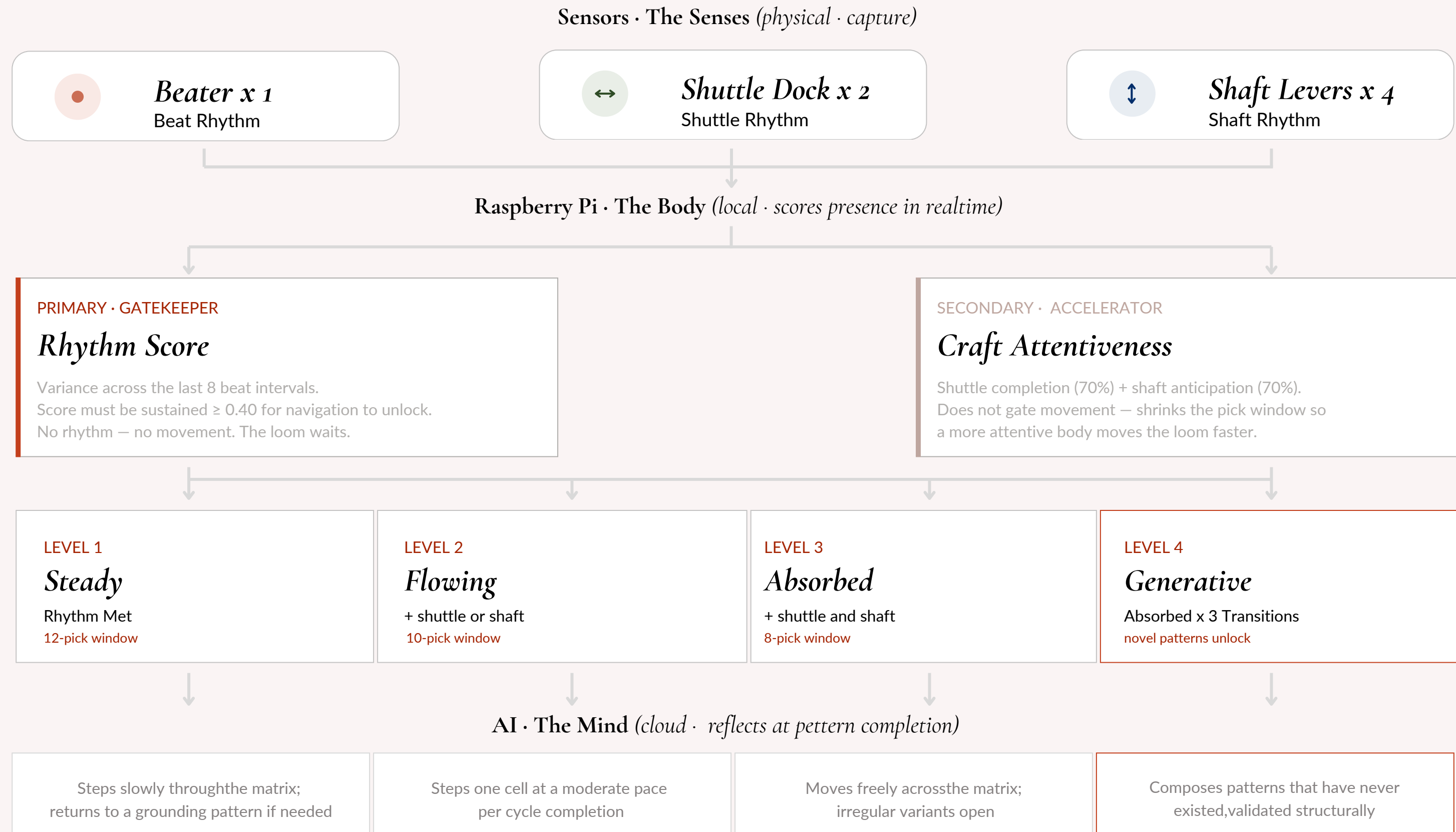
# Pick-by-Pick Workflow

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

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

# 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  $\geq 0.40$  across the rolling 8-interval window for any movement to be eligible.

#### No rhythm — no movement.

The loom holds whatever pattern is current and waits for 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*

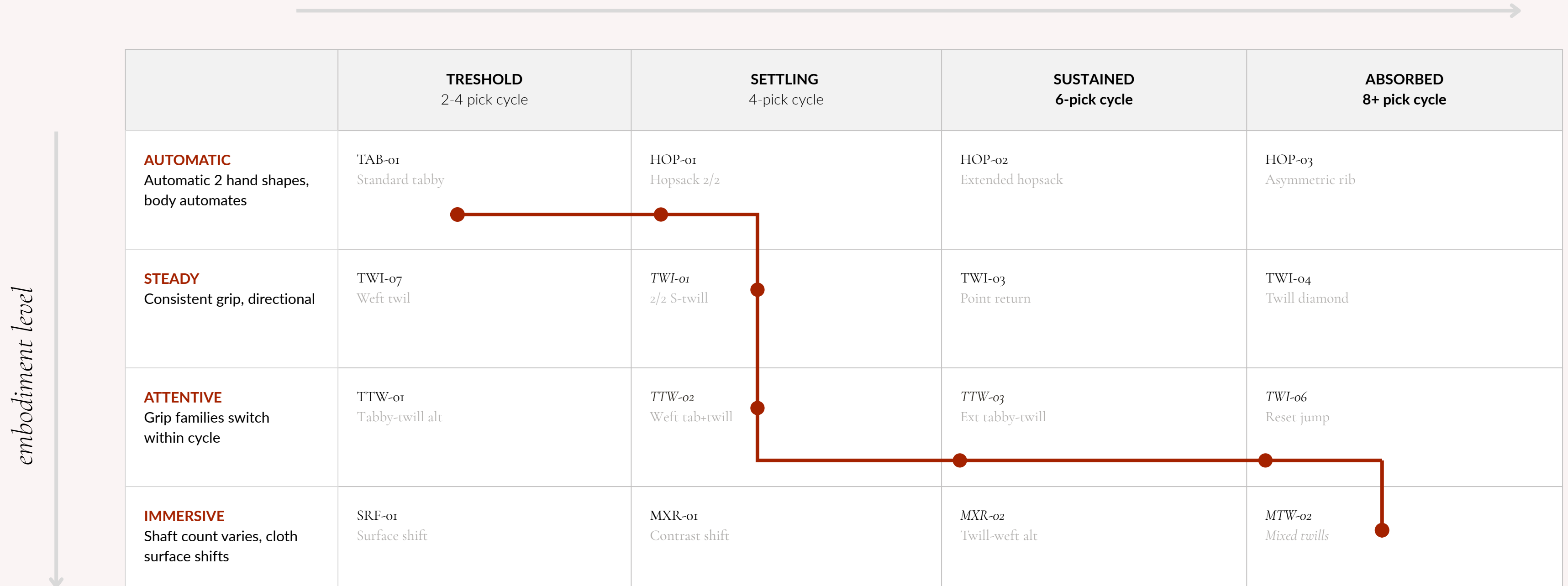
When the window opens, the Loom reads the live scores, recent history, and the weaver's intention. It proposes one adjacent cell — never diagonal.

↑     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.

*pattern memory*



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

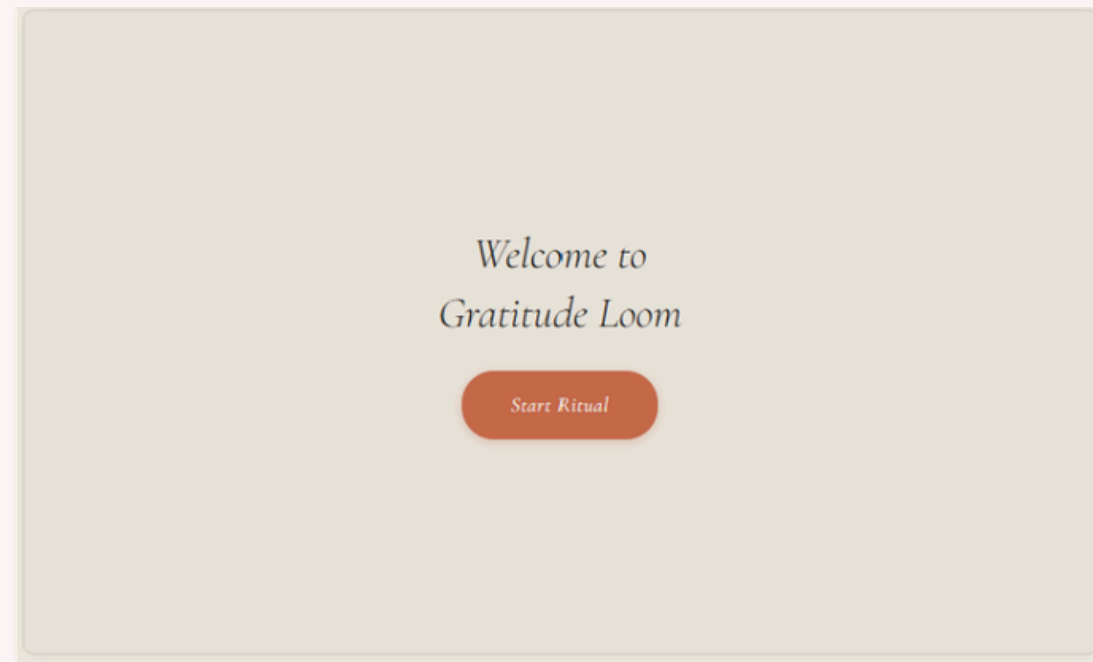
# Weaver Authority

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

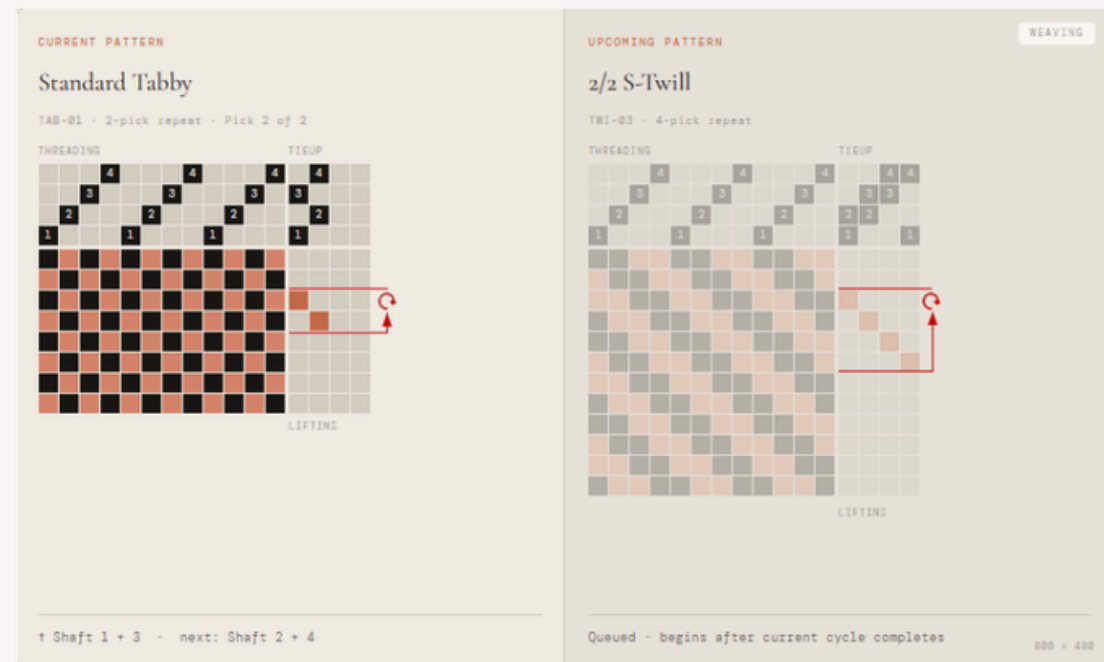
WEAVER SAYS	SYSTEM RESPONSE	RULE
<i>"Stop" / "I'm done" / "End"</i>	Completes current unit. Generates a brief closing reflection. Saves session.	Immediate. Always honored.
<i>"Continue" / "Keep going" / "Stay here"</i>	Holds current pattern regardless of eligibility. Resumes after one full repeat. Rule: 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

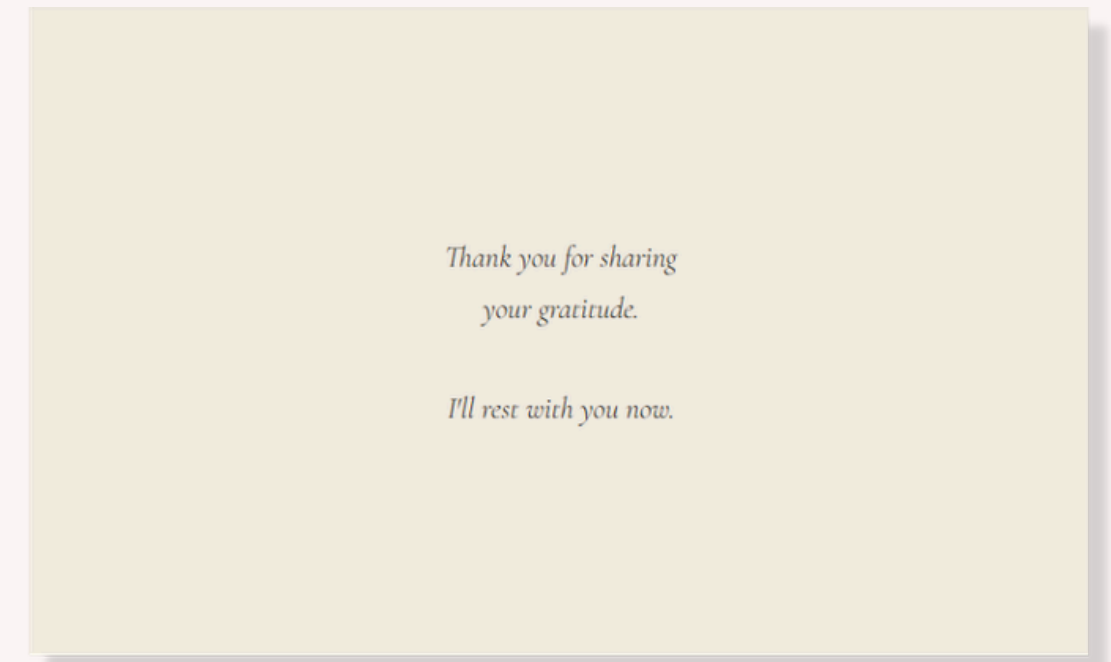
Screen UI Design



Session Begin State



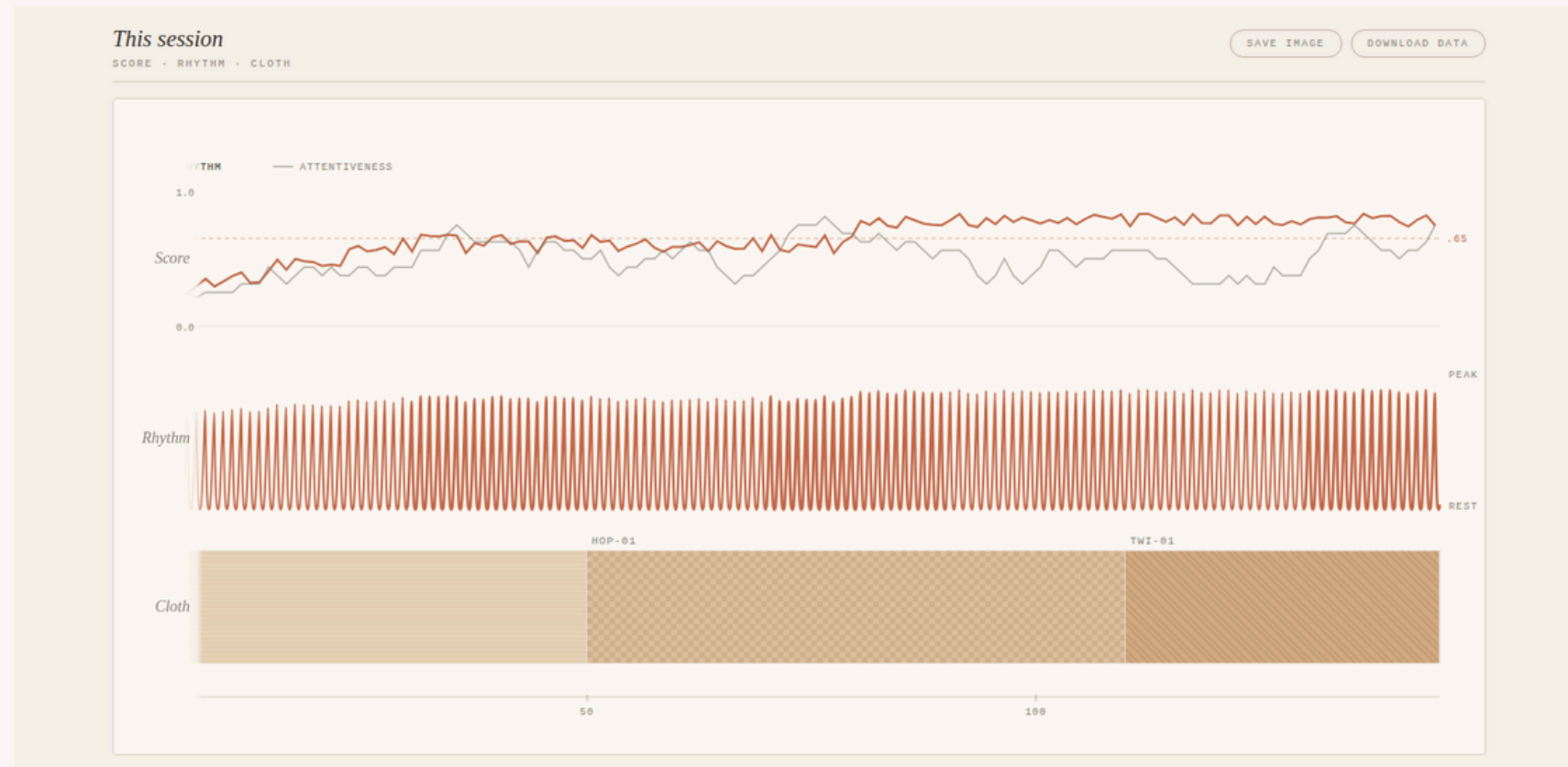
Ritual State



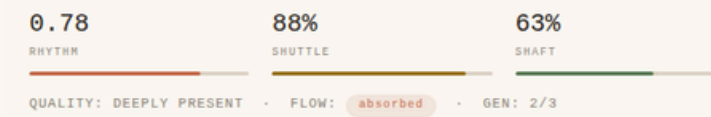
Session End State

# The Backend

## Web Dashboard



### Scores



### Shafts



### Journey

	EXPECTED				ACTUAL			
	Thresh	Settle	Sustain	Absorb	Thresh	Settle	Sustain	Absorb
Auto	+	-	-	-	-	-	-	-
Steady	-	+	-	-	-	-	-	-
Attent	-	-	+	-	-	-	+	-
Immers	-	-	-	+	-	-	-	-

TOWARD: IMMERSIVE / ABSORBED · STRAIGHT 2/2 TWILL PICK 3

### WHAT YOU OFFERED

*For my mother's hands, for the time she taught me to wind warp.*

### INTENTION

*To sit longer than I think I can. To listen for the moment the pattern wants to change.*

### Conversation

- LOOM**  
*Sit with me for a moment. Speak something you are grateful for.*
- WEAVER**  
*For my mother's hands.*
- LOOM**  
*She gave you patience. Now choose what you carry forward.*
- WEAVER**  
*To sit longer than I think I can.*
- LOOM**  
*Your rhythm is settling. Begin with the plain weave you remember.*

# 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.*