Communicating through movement

How can an inanimate object express expectations through movement patterns, and trigger certain behaviors in the spectator?



01_Conceptual base

02_Related works

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Conceptual base

Basic interaction





interaction

observation
interpretation
anticipation
convention
trial-and-error

entity 2



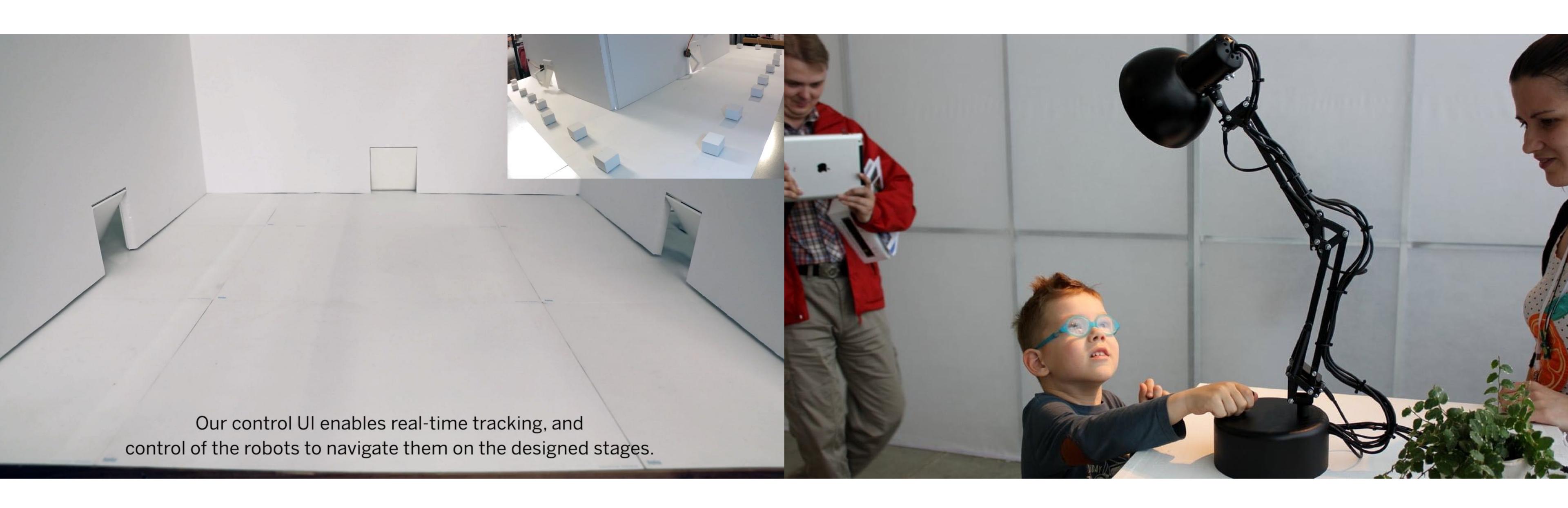
Questions

Human nature allows us to observe, interpret and adapt to another (potentially foreign) entity's behavior.

- → When we want something from somebody/something we don't understand, what do we do?
- → How minimal can communication be for us to understand basic needs of another entity?
- → How sensitive are we to minimal nonverbal signals, like movement? How do we read movement?

Related works

Related works



(Dis)Appearables MIT Tangible Media Group

Pinokio Adam Ben-Dror

Scenario



Technical setup

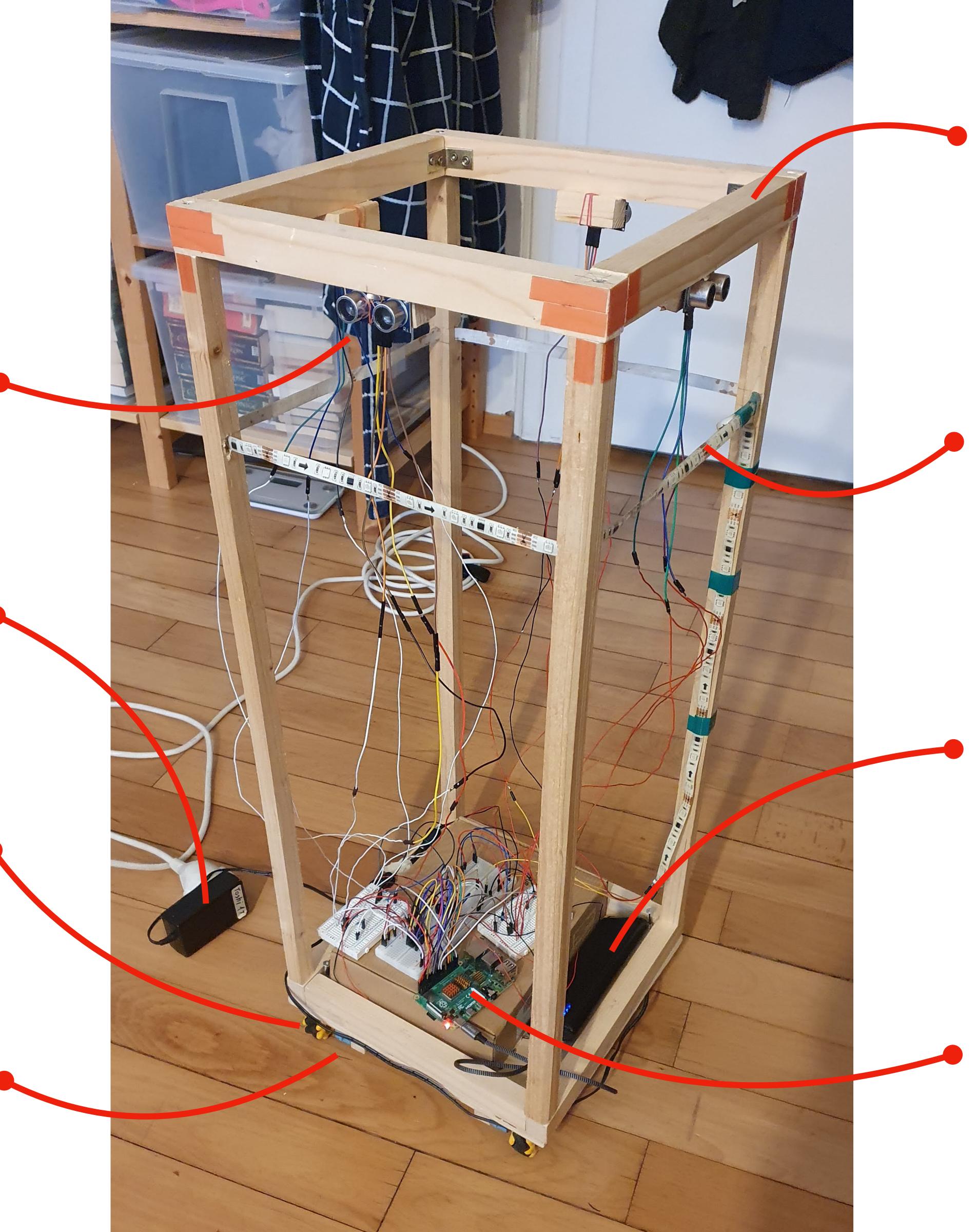
Setup

ultrasonic distance sensor

12-V power supply

omnidirectional wheels

Adafruit TT Motors

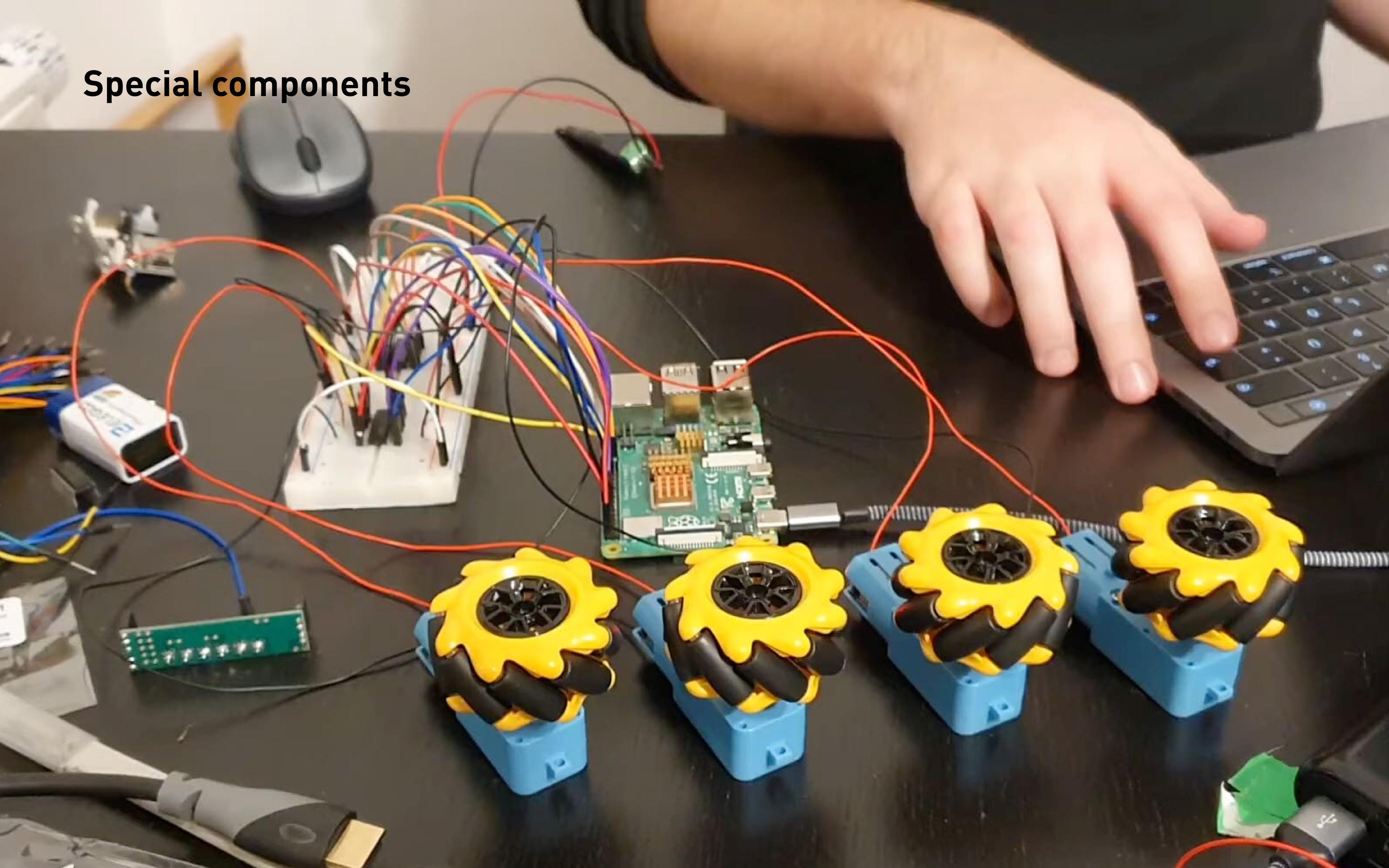


wood frame

LED strip

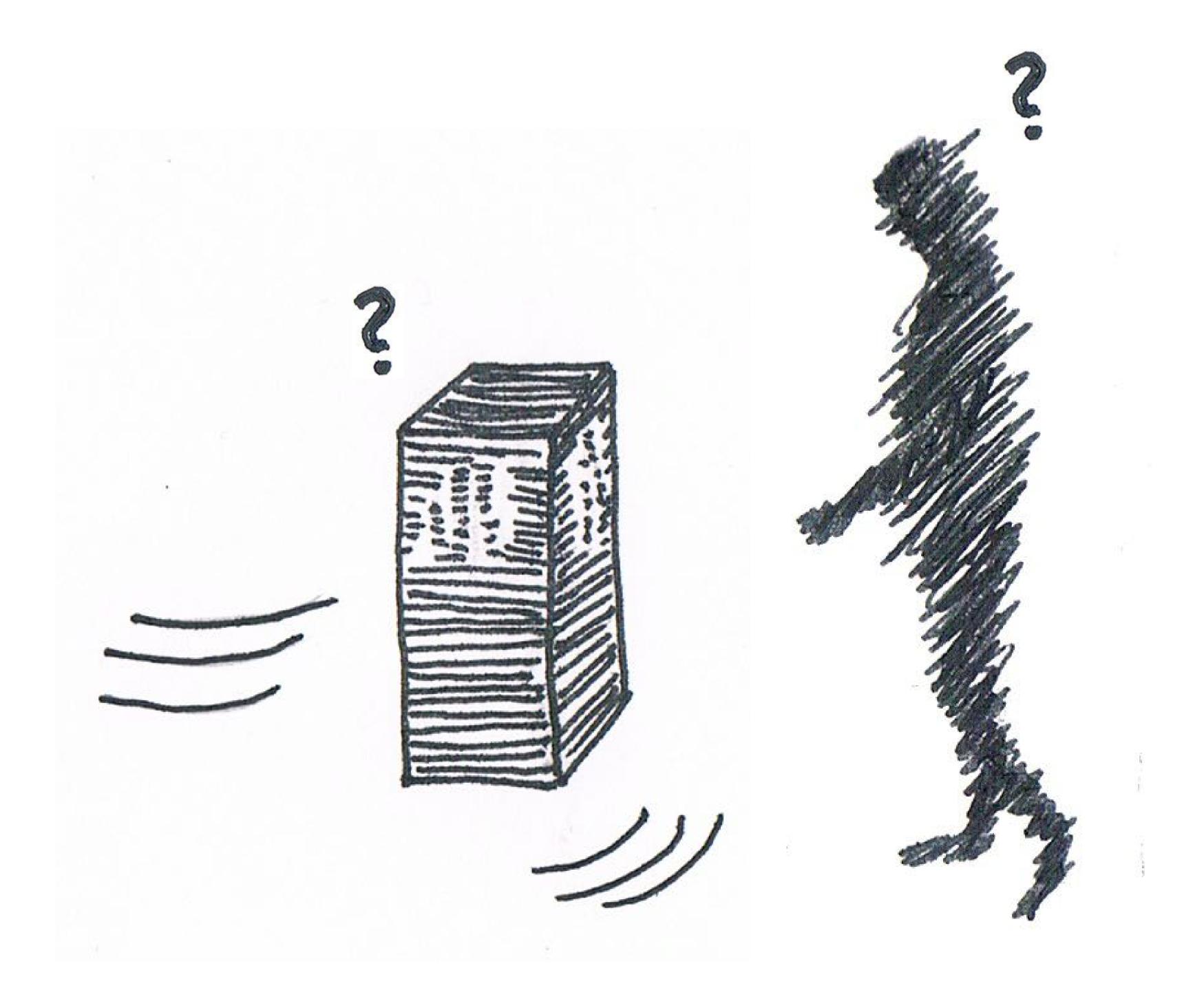
power bank

Raspberry Pi 4



Interaction

Interaction



Entity feedback:

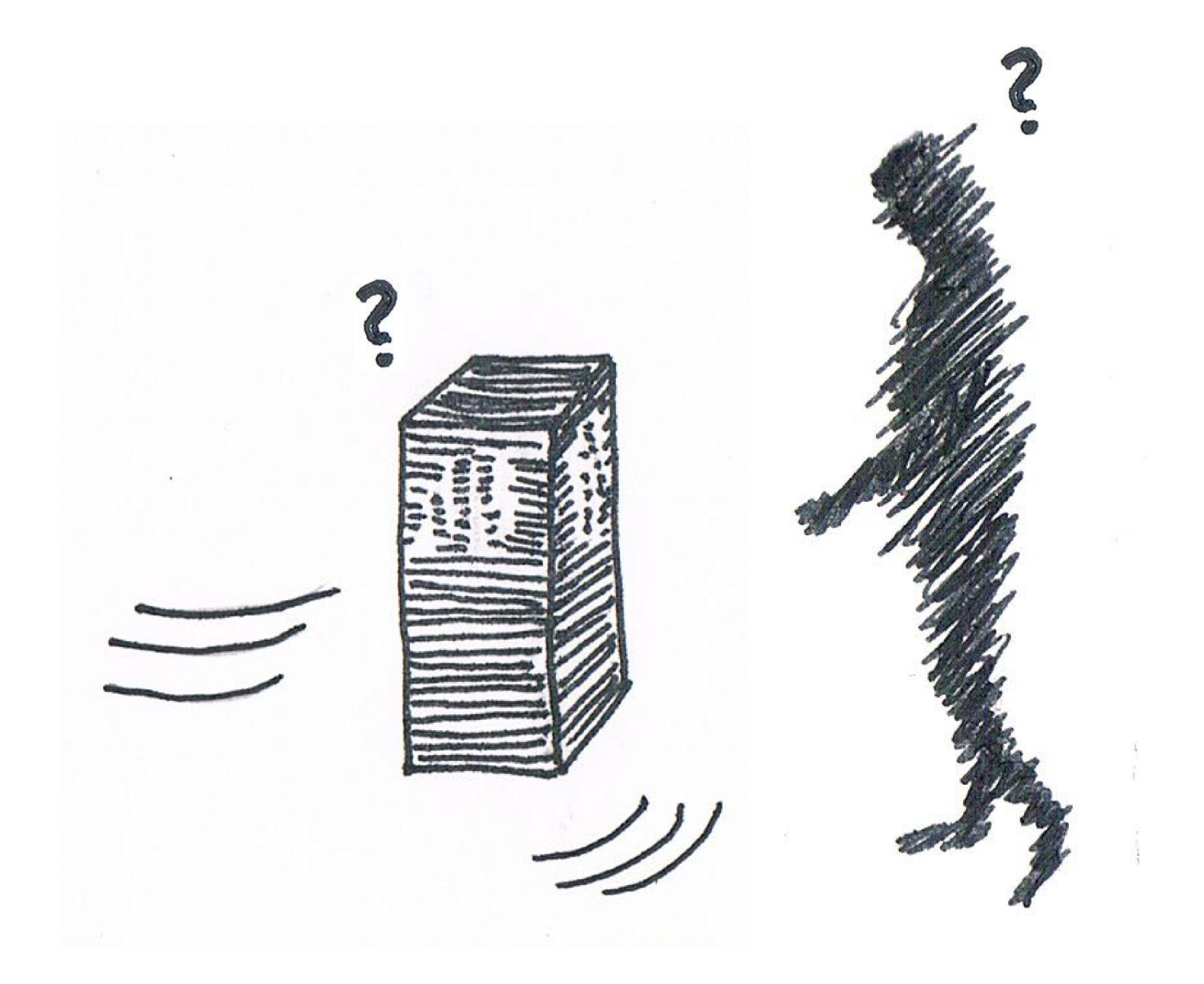
movement, lights

3 modes | 5 reactions

- 1) ...
- **(2)** ...
- (3) ..
- **(4)** ...
- **(5)** ...

What attributes do you isolate?

Interactions



Entity feedback:

movement, lights

3 modes | 5 reactions

- 1) attack / defensive / intimidation
- 2) shyness / sadness
- (3) excited / happy / outgoing
- 4 fear / flight
- (5) disinterest / disregard

What did you see?

