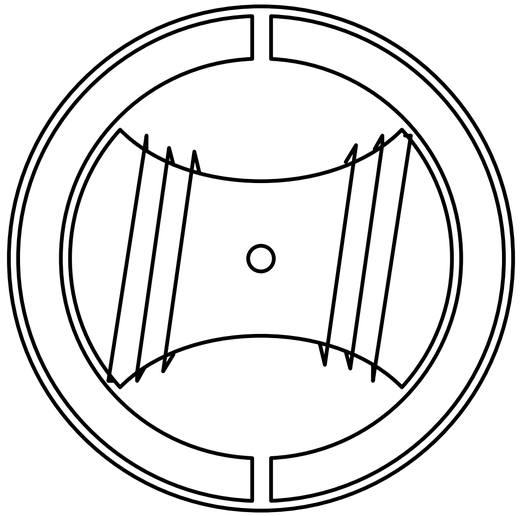
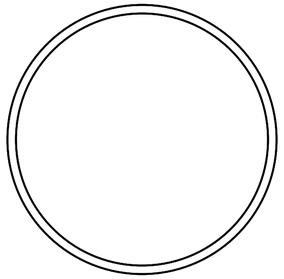
computational sensation

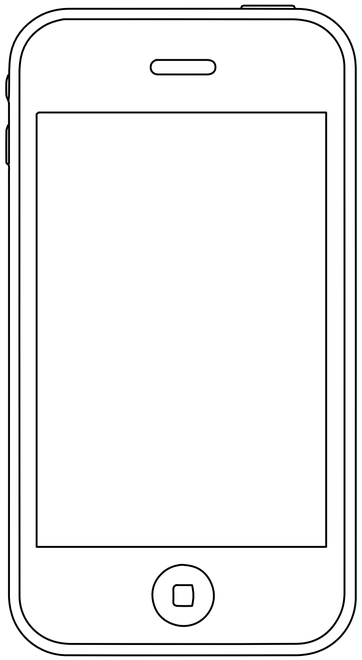
ACTUATORS
a list



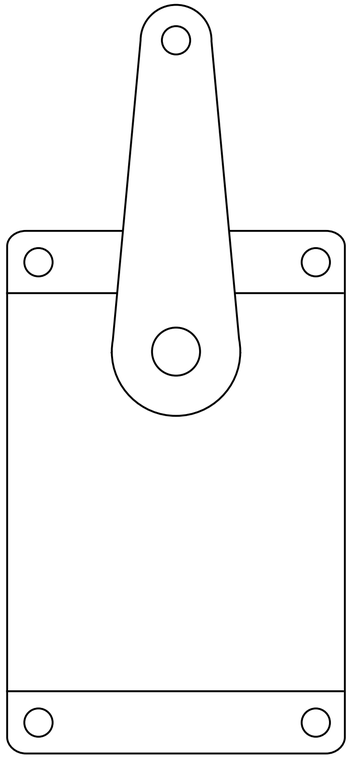
DC Motor



Vibration Motor

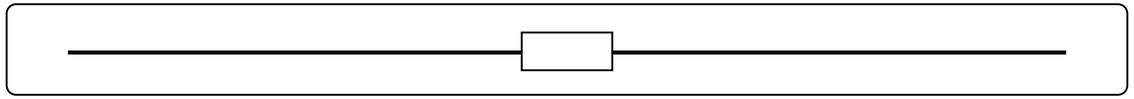


Notifications

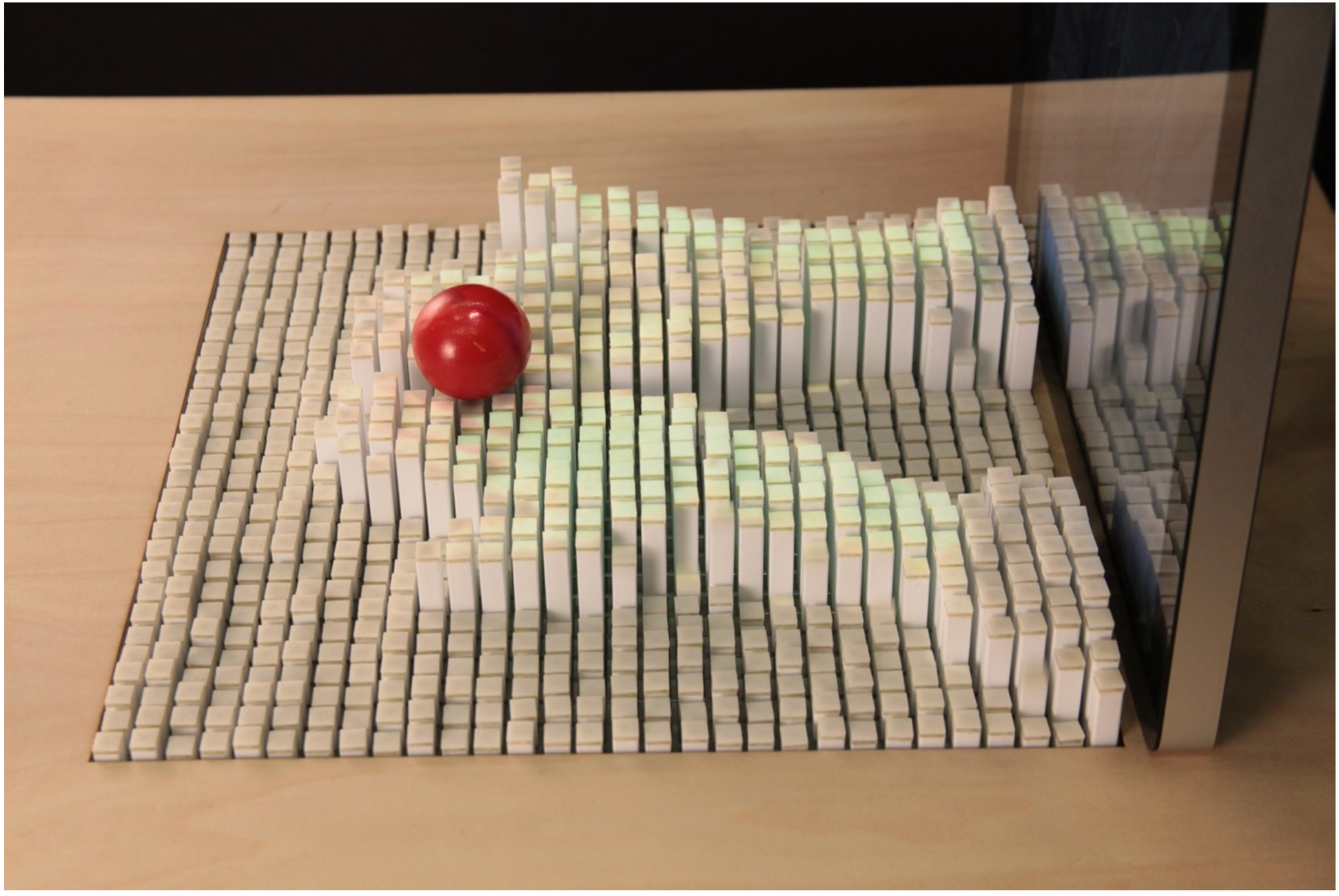


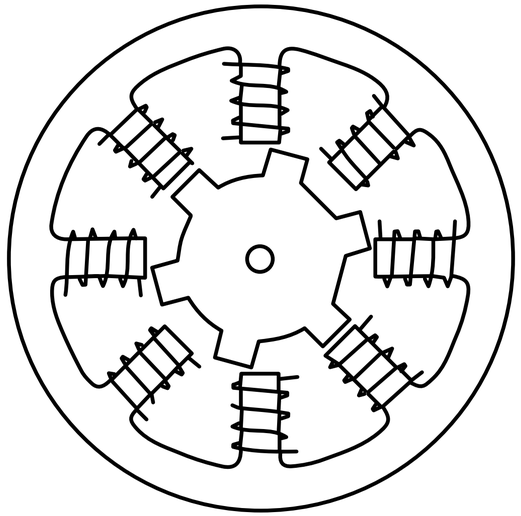
Servo Motor

Topobo

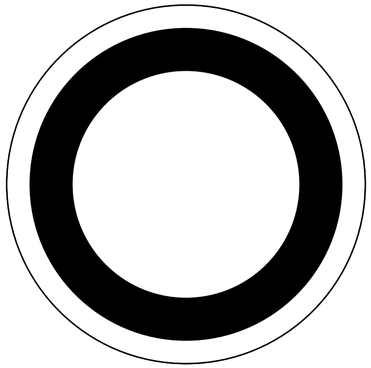


Linear Slider

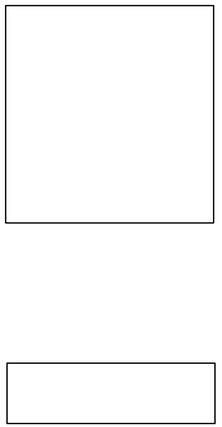




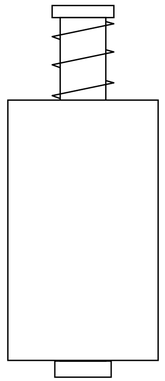
Stepper Motor



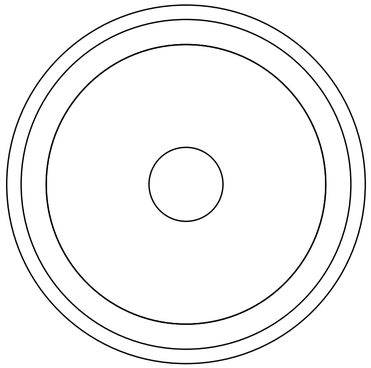
Electromagnet



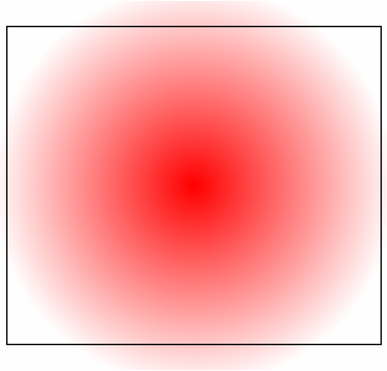
Electromagnet



Solenoid



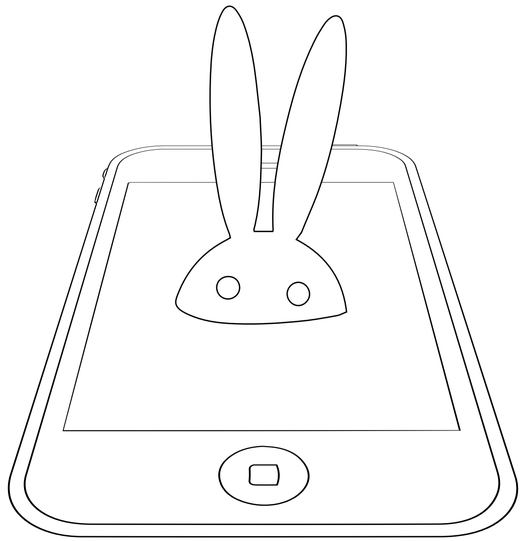
Speaker



Peltier

“A sufficiently advanced technology is indistinguishable from magic”

Arthur C. Clarke
Clarke’s Three Laws

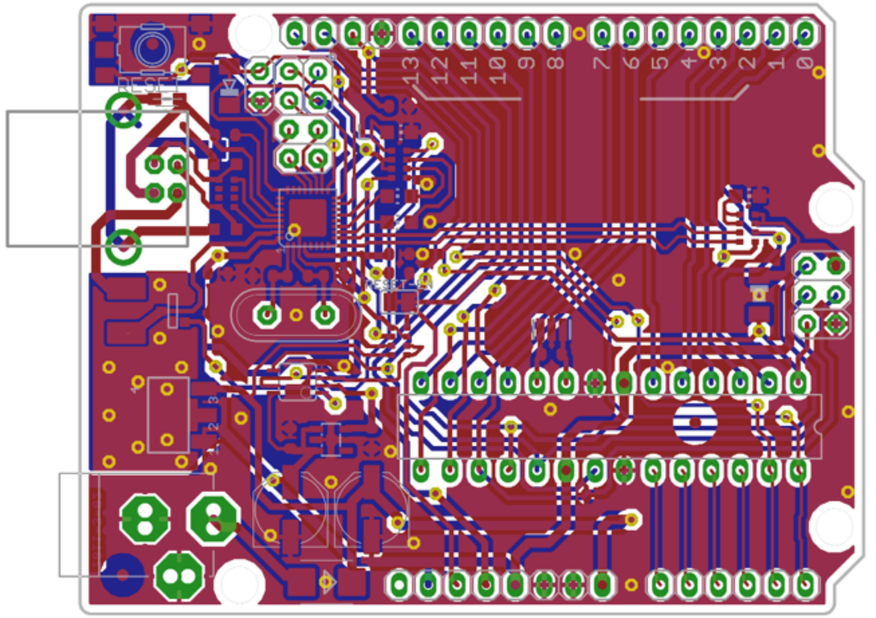


Magic?

“When a machine runs efficiently [..] one need focus only on its inputs and outputs and not on its internal complexity.
Thus, paradoxically, **the more science and technology succeed, the more opaque and obscure they become**.”

Bruno Latour

input
blackbox
output



Blackbox

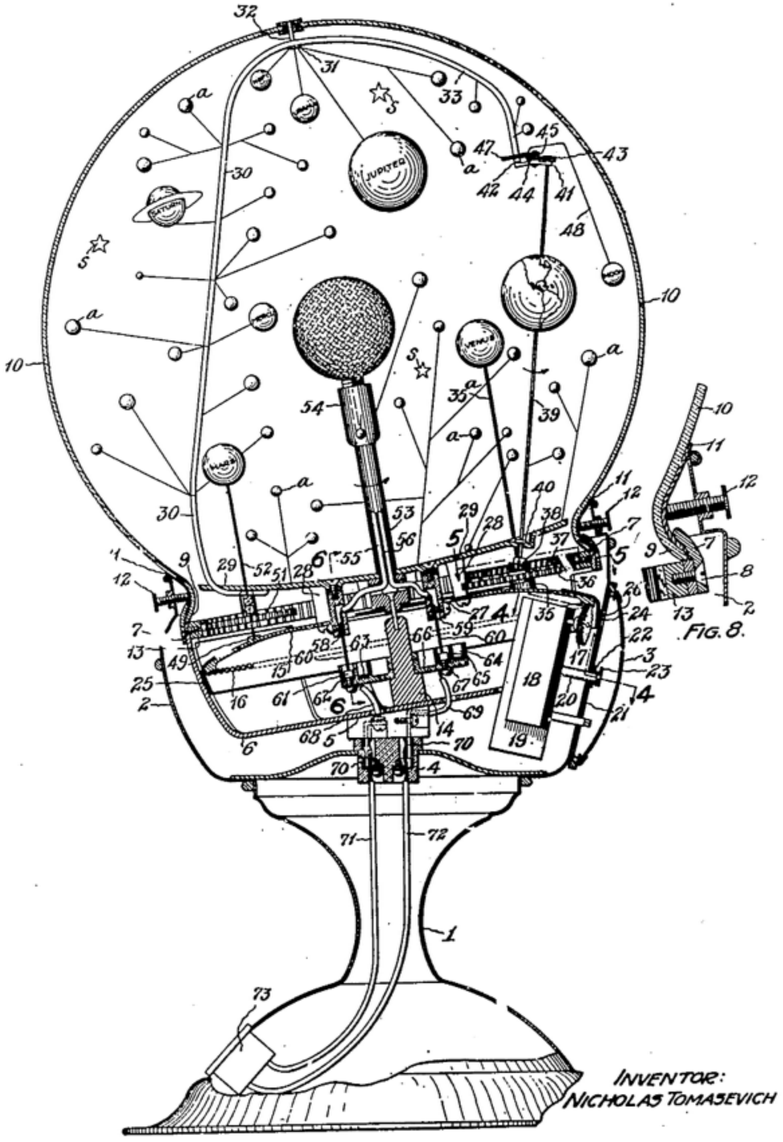
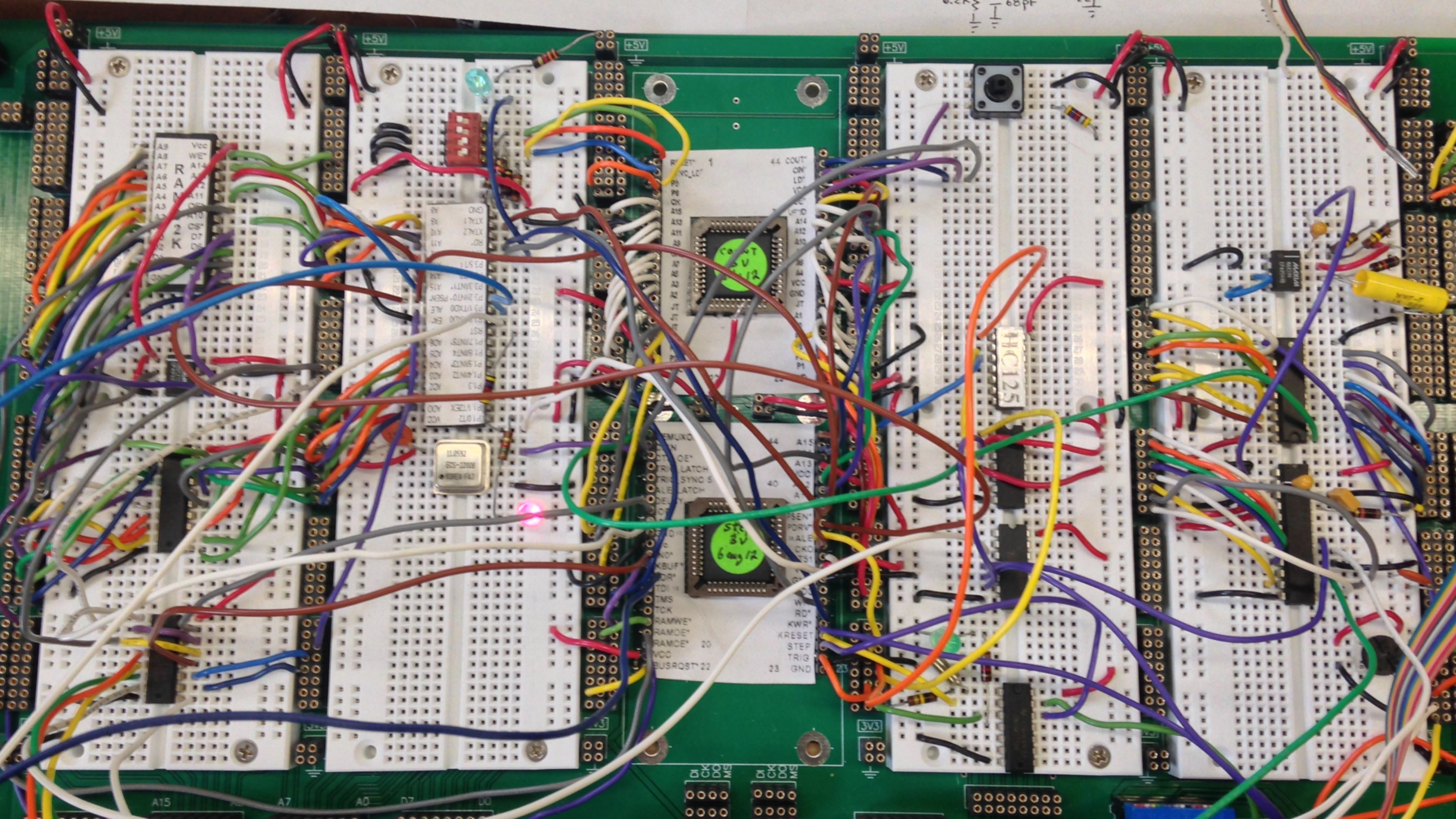
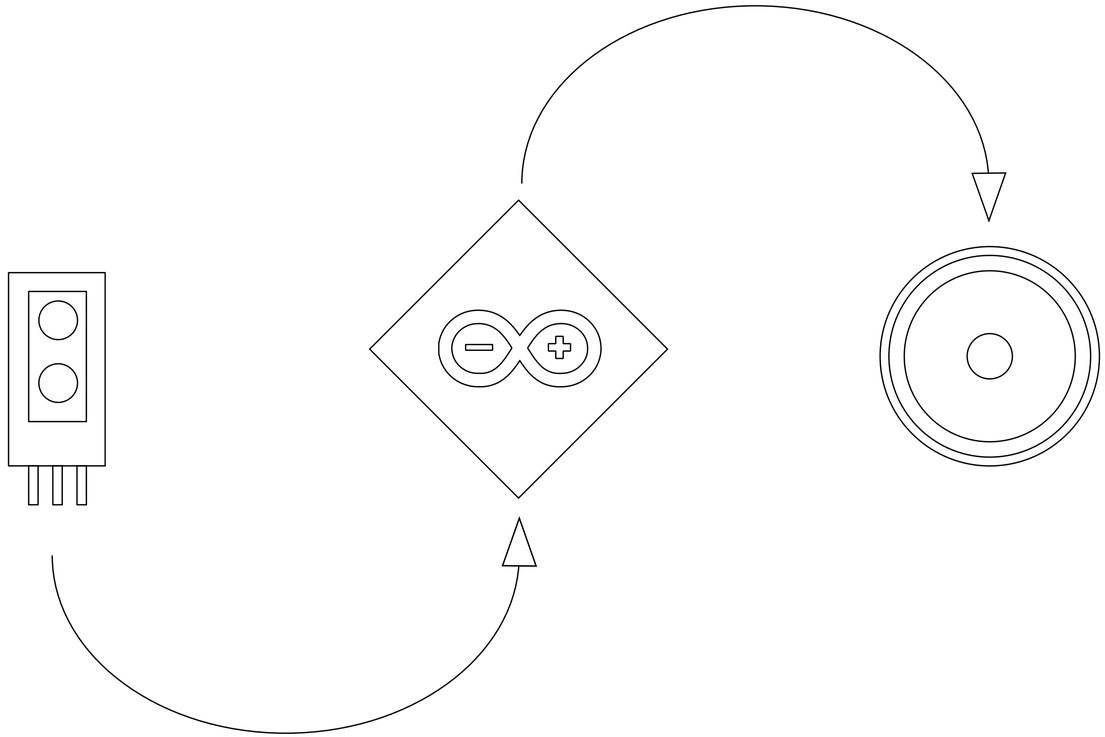
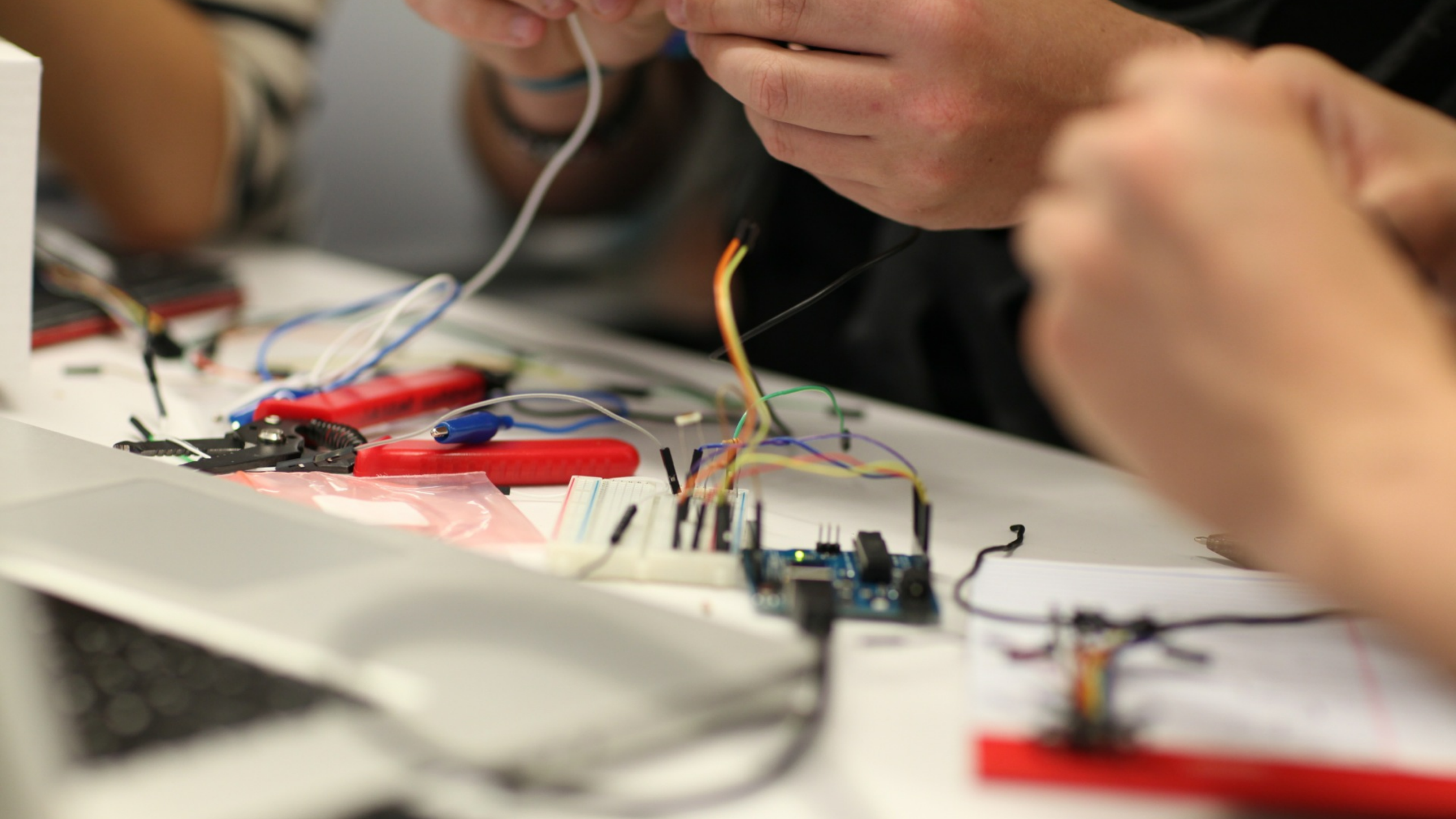


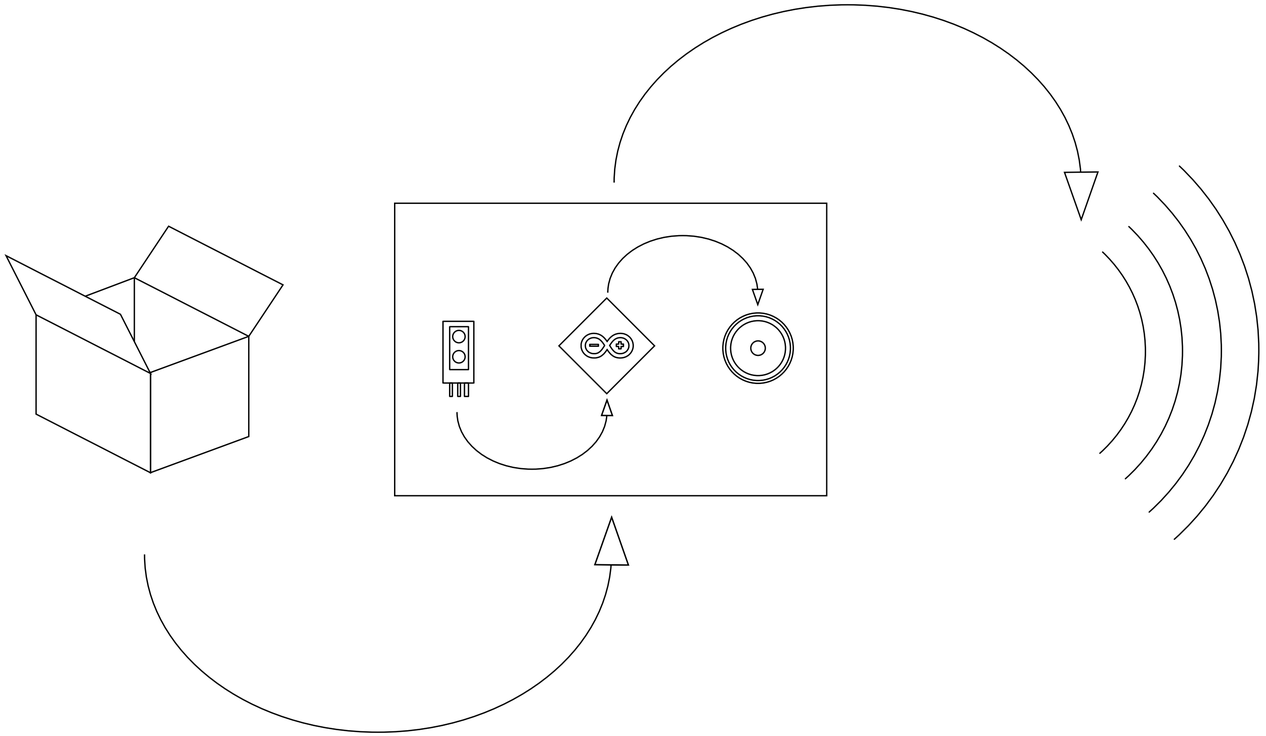
FIG. 8.


+5V
3V3
HC125
A15
A7
A0
D7
D0

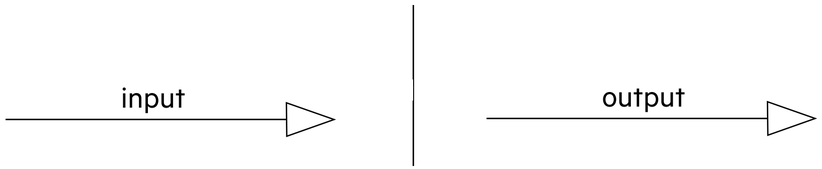


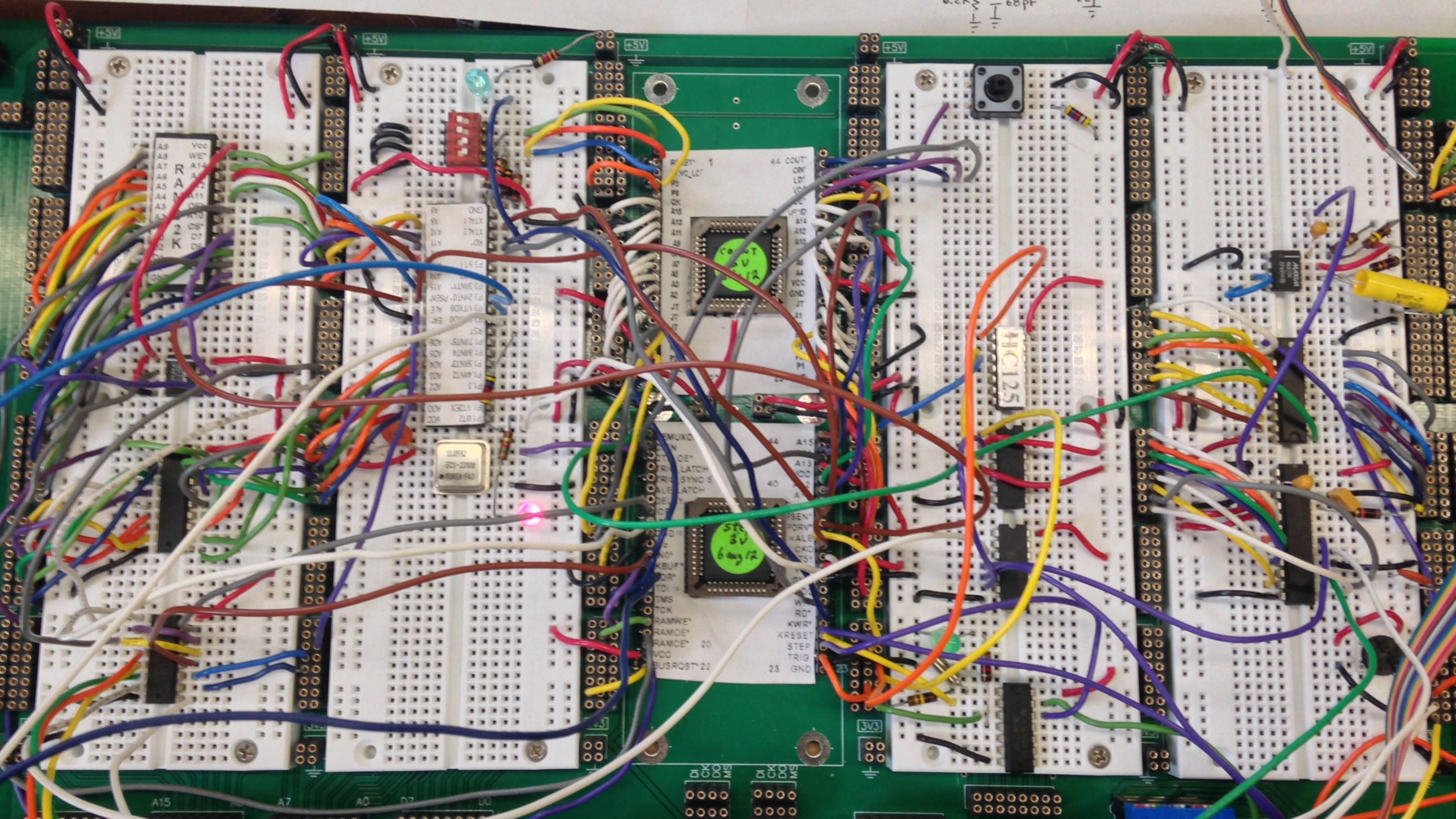


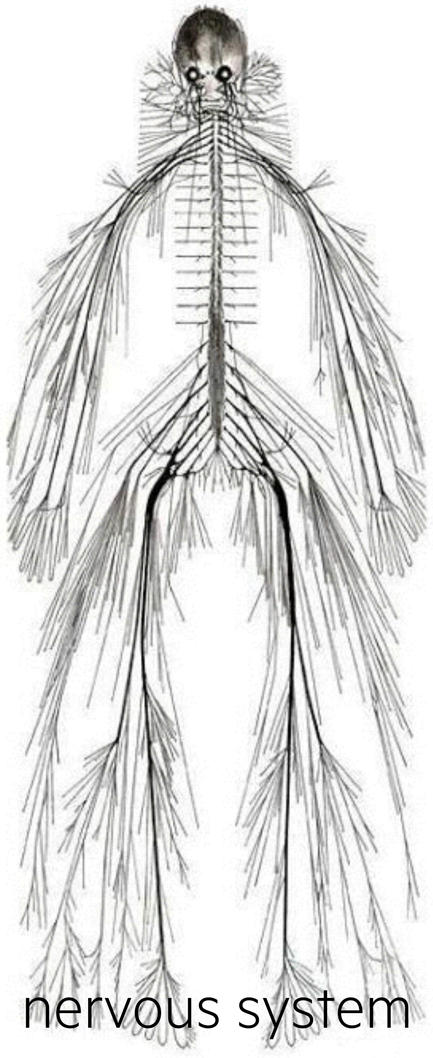
Class of 2013



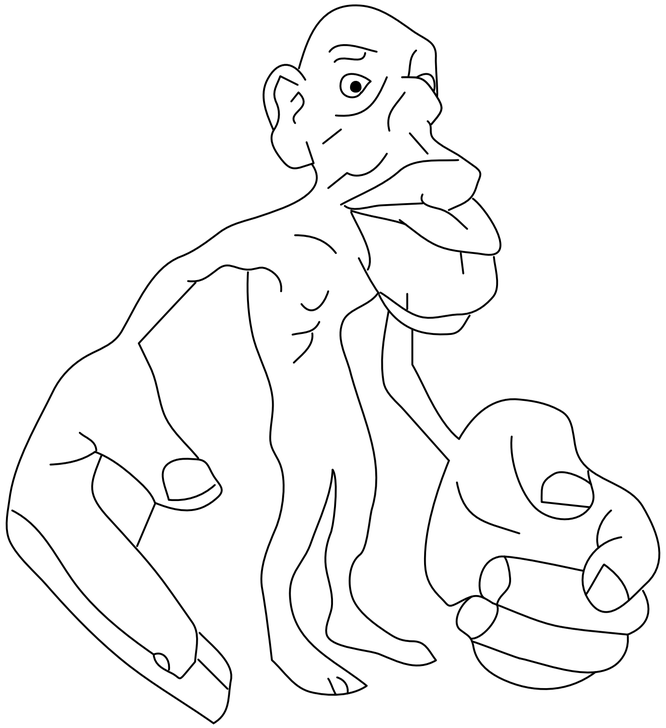
input
blackbox
output


input
output

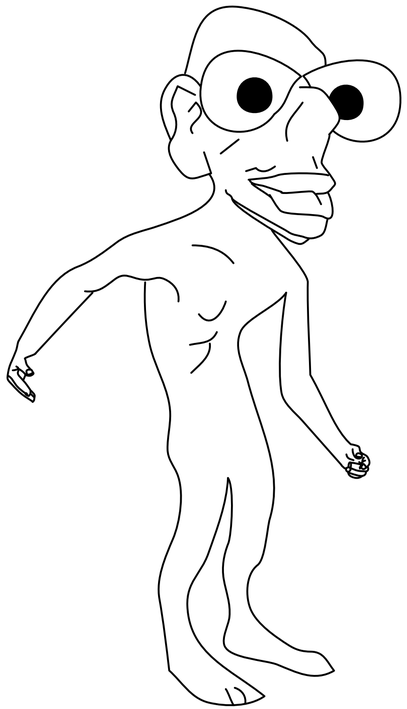

+5V
3V3
HC125
A15
A7
A0
D7
D0



nervous system



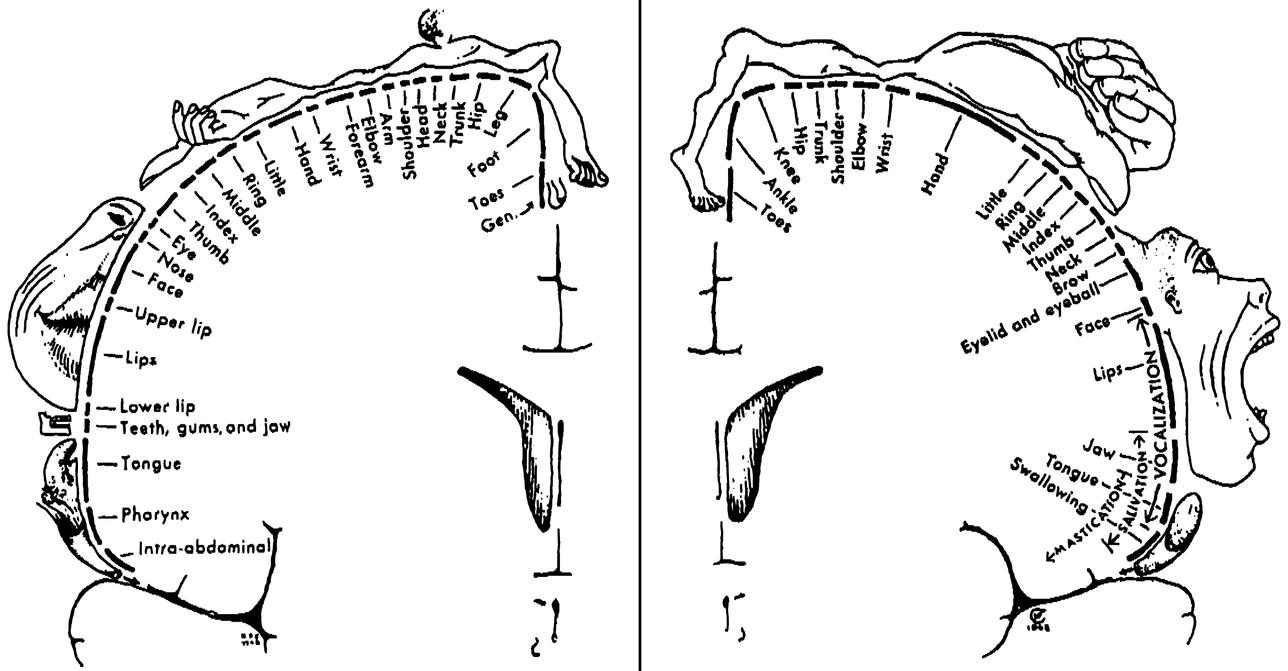
sensory homunculus



GUI homunculus

sensor

motor



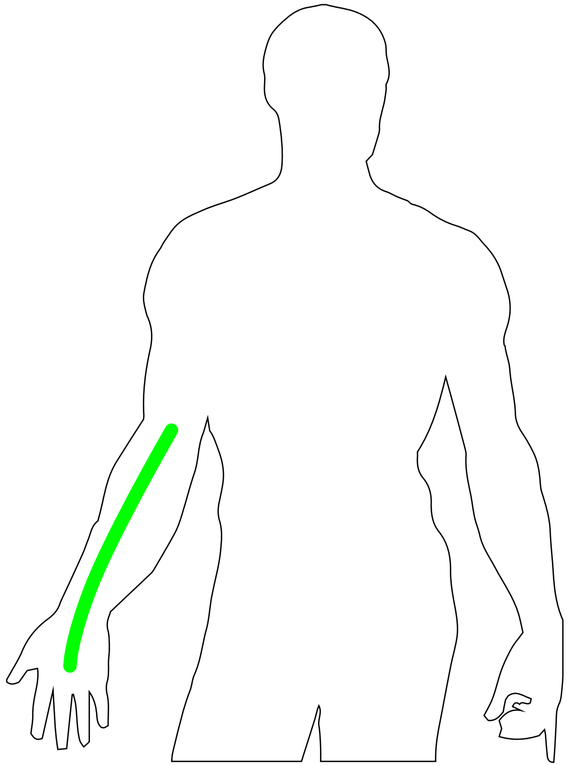
homunculus

Wilder Penfield (1951)

The Human Loops

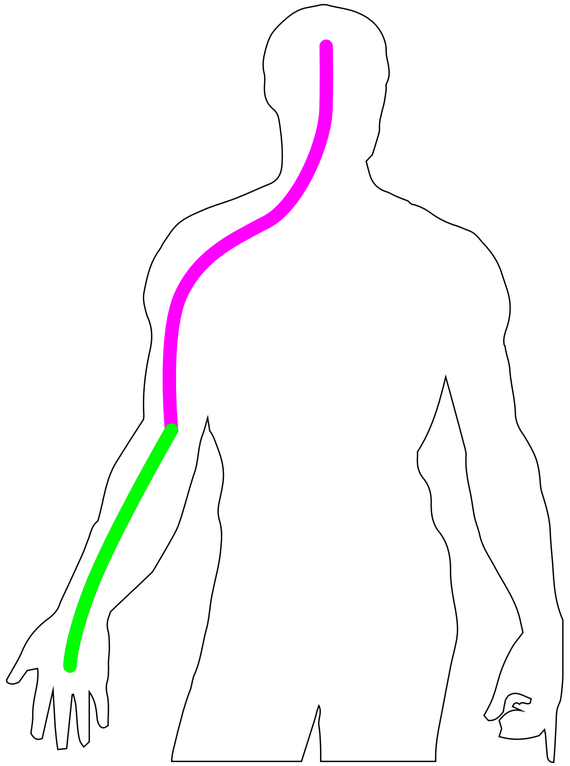
The Human Loops

- first touch



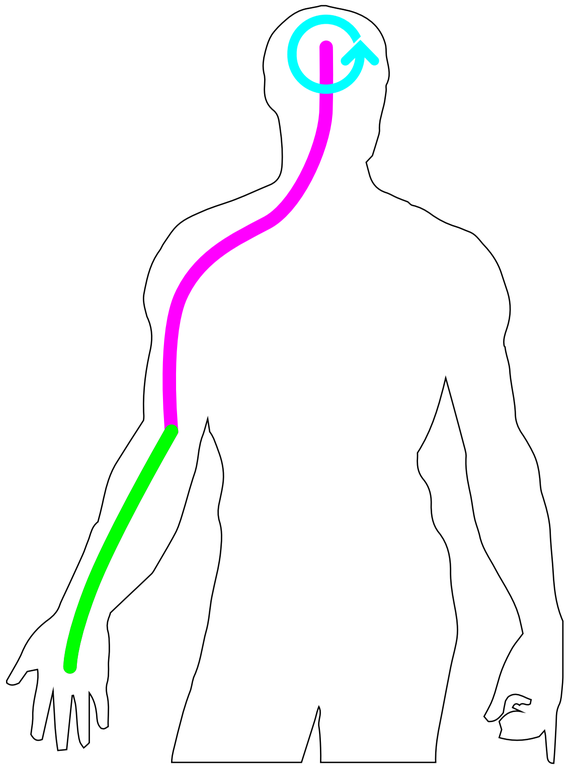
The Human Loops

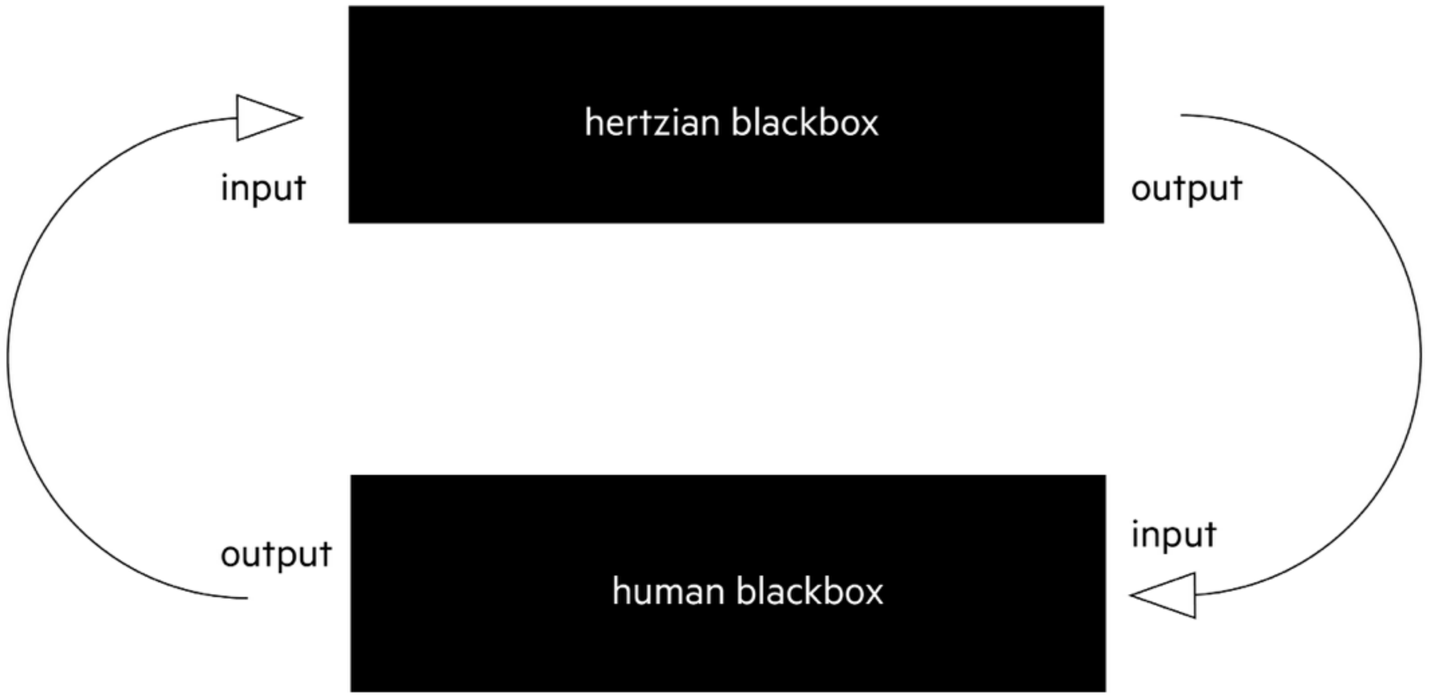
- first touch
- human augmentation



The Human Loops

- first touch
- human augmentation
- complex interaction



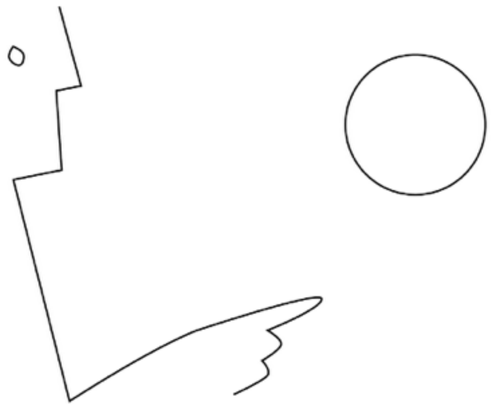

hertzian blackbox
input
output
human blackbox
output
input

connected experience

3 Questions of Interaction Design

by Bill Verplank

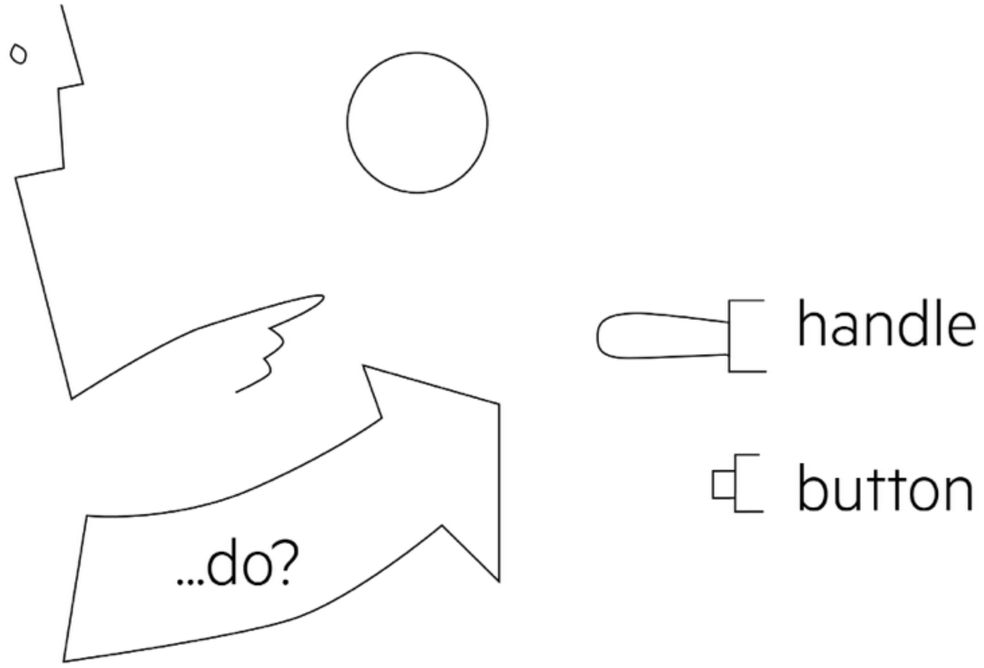
How do you...



3 Questions of Interaction Design

by Bill Verplank

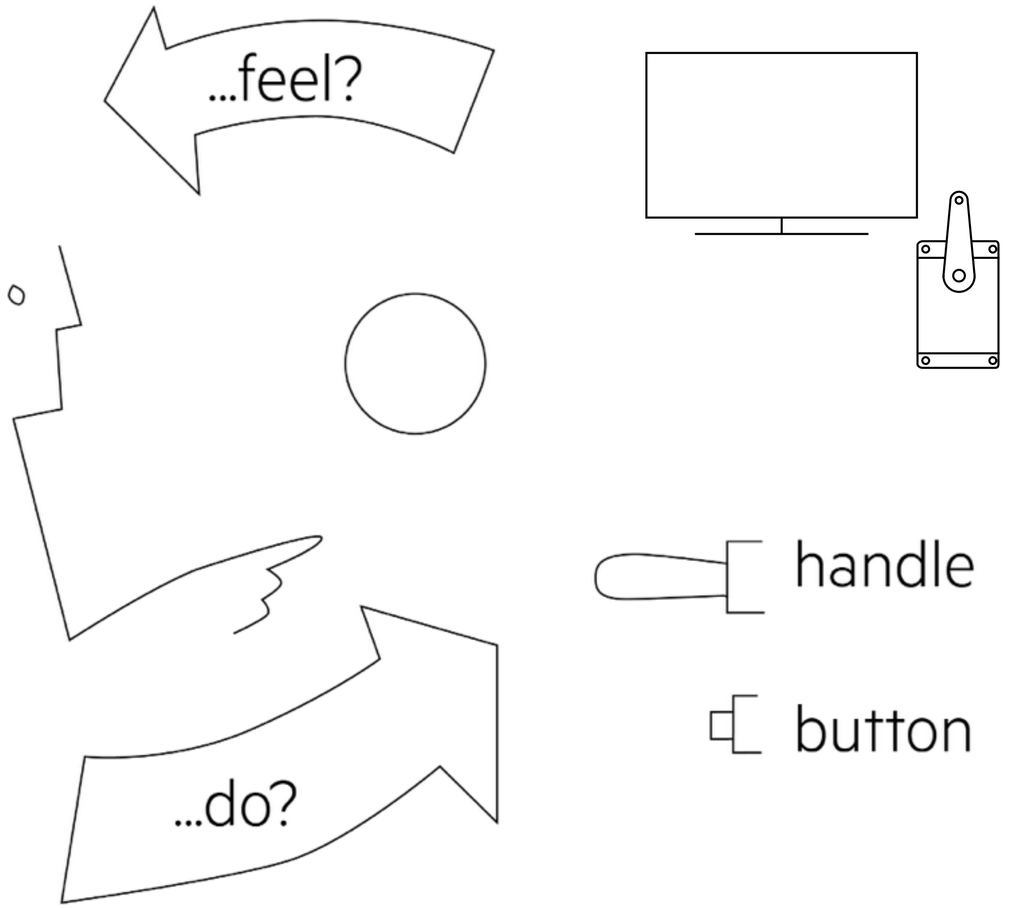
How do you...



3 Questions of Interaction Design

by Bill Verplank

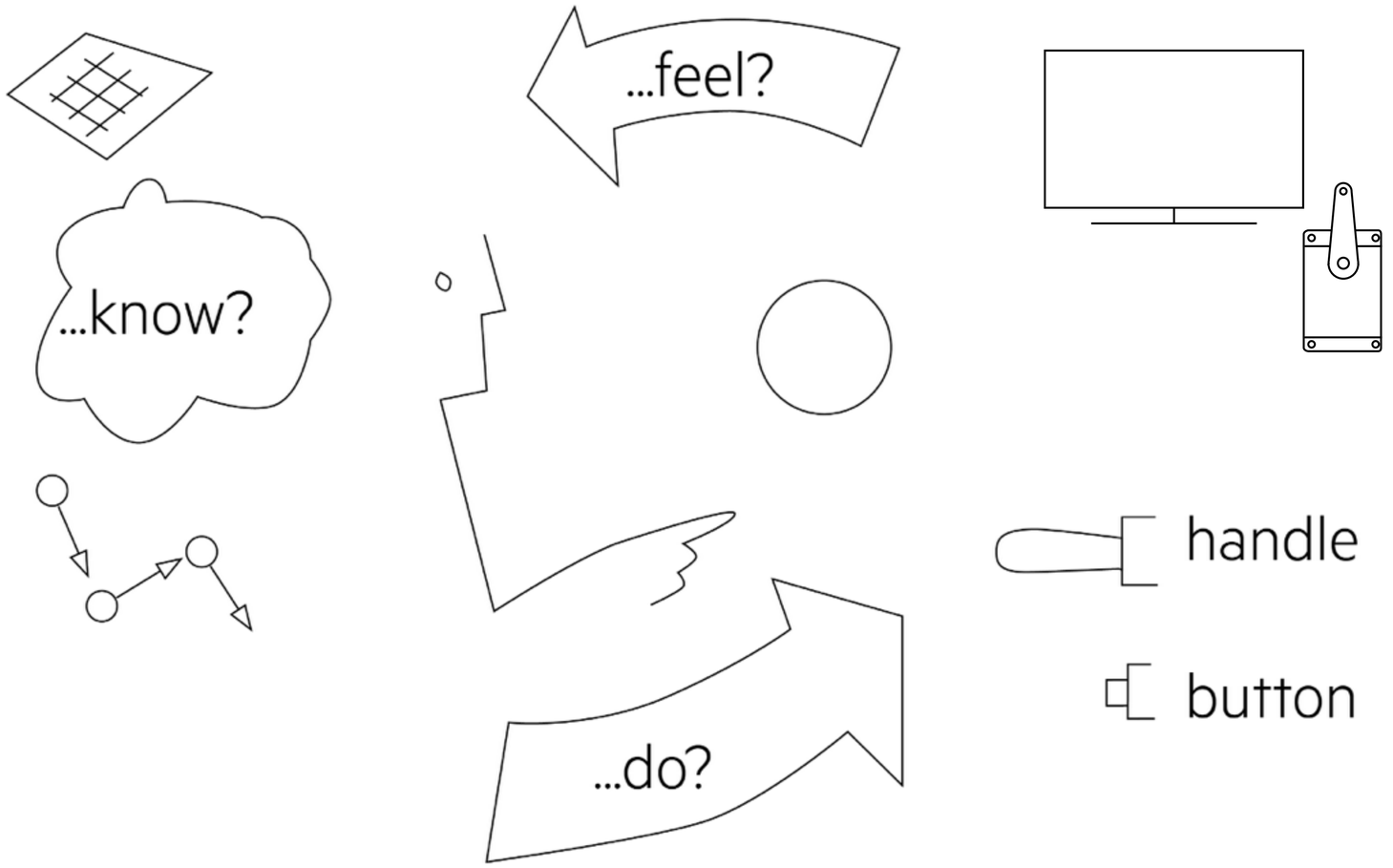
How do you...



3 Questions of Interaction Design

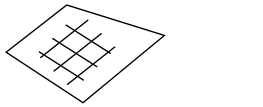
by Bill Verplank

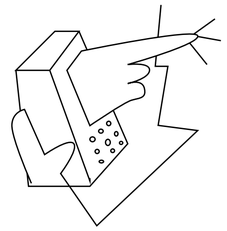
How do you...

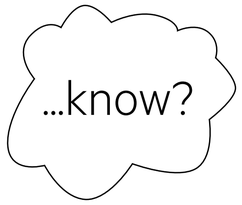


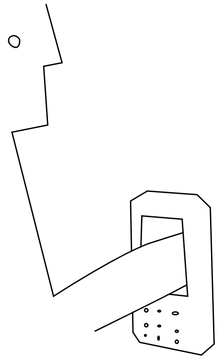
3 Questions of Interaction Design

by Bill Verplank



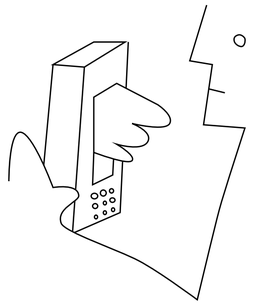


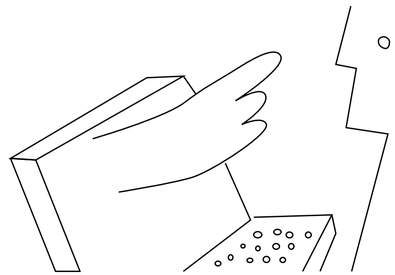




I am not really using my device

I am using your devices.





Connected Tangibles

today

Sit together in your groups.

3:20pm : short presentations of what you want to do

Get feedback

???

profit