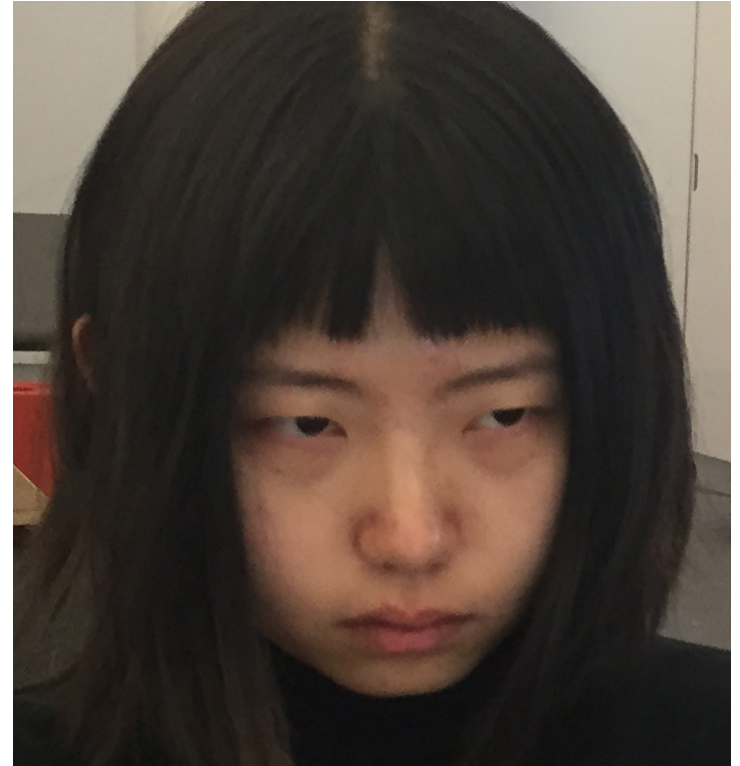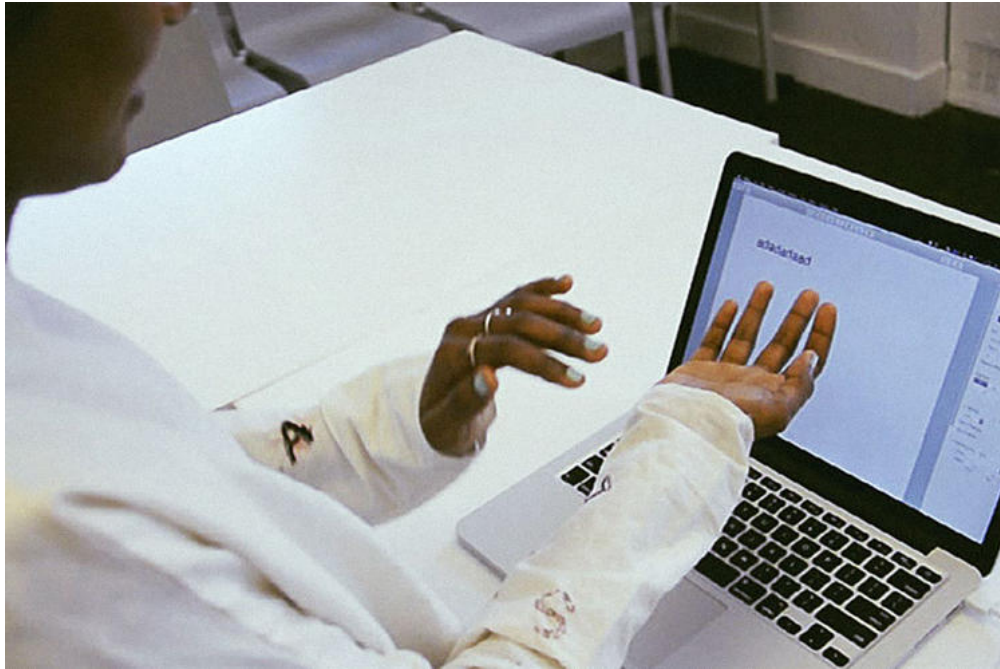# Click Twice

A system that transfers the online experience to real life…
and uploads it back online

Yumeng Wang
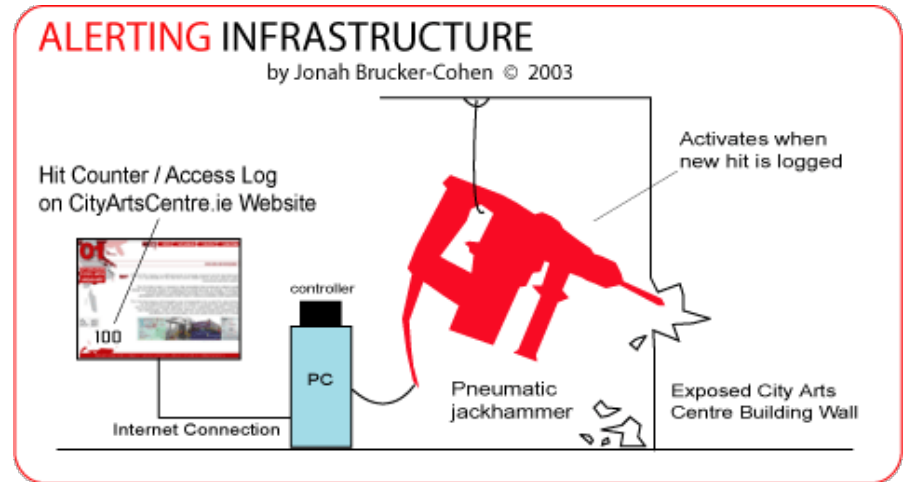Core Studio/Lab: Systems, Midterm

Too Much Time Online?

Reference

keyBod - Nitcha Fame Tothong, 2015

Wearable keyboard to let the users type with their bodies
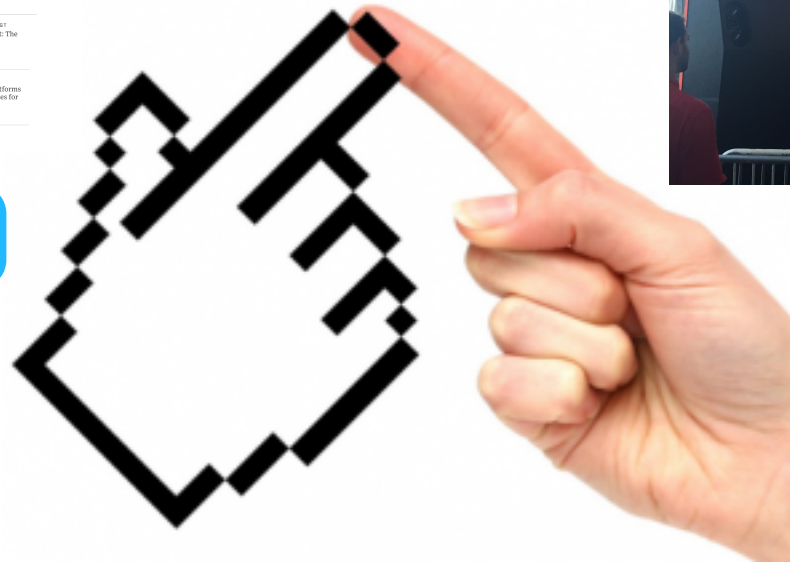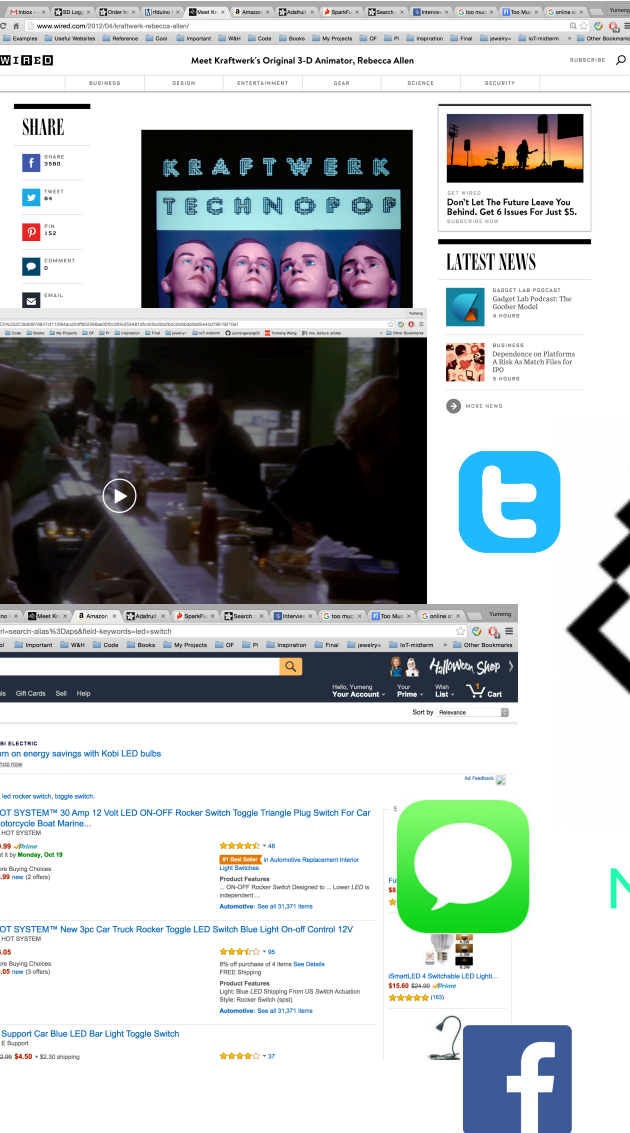and help correcting bad habits while using the computer

Reference

Alerting Infrastructure! - Jonah Brucker-Cohen, 2003

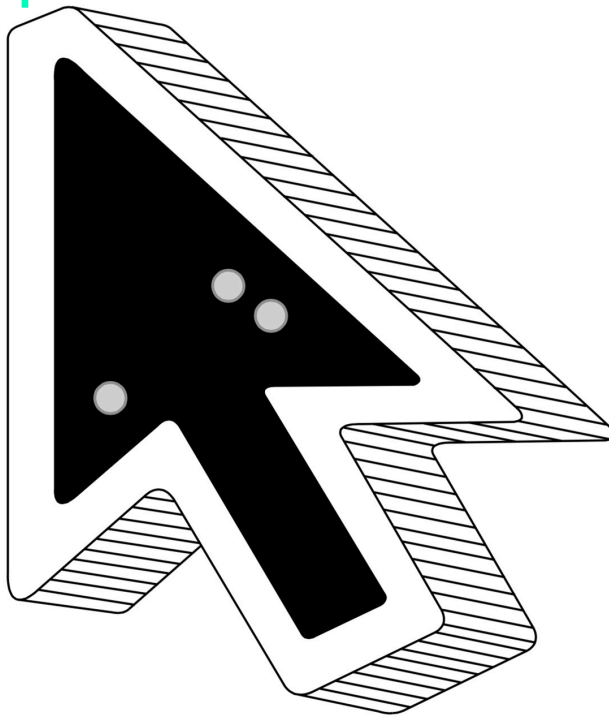A web site Hit Counter Destroys a Building

Duality - Online vs. Offline

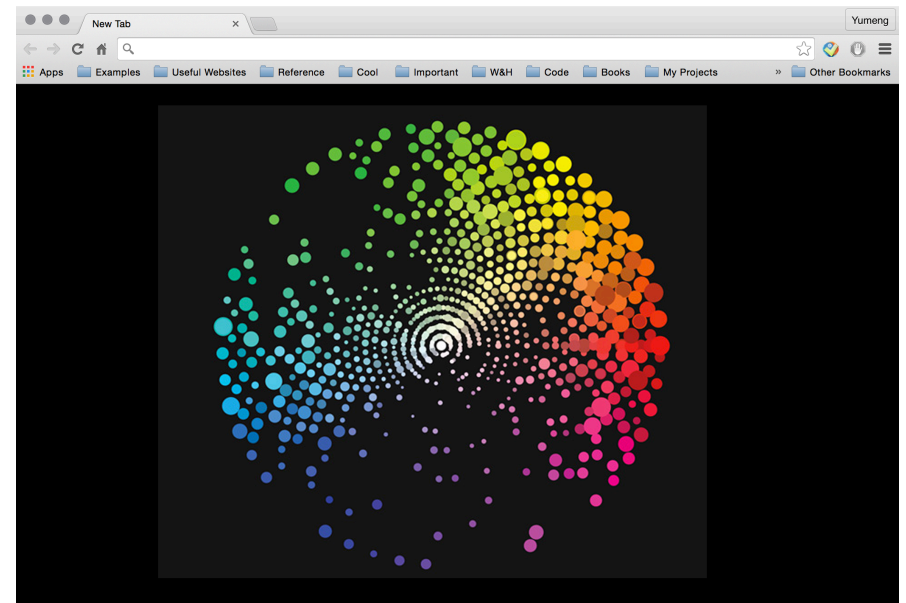Migrate the online experience to offline **literally** and transfer it back online
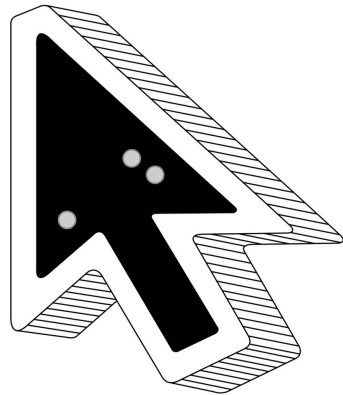
16.8cm /6.6in

UPLOAD

Laser Pointer

Color Recorder

GPS Data Logger

Components - Cursor

Body

Laser Pointer

Color Recorder

GPS Recorder

Left Button

Right Button 1

Right Button 2

Arduino Uno

RFduino

RFID tag

Battery 6v

Silicon Acrilic

Button

Laser diode
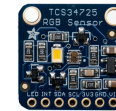
Button

RGB Color Sensor
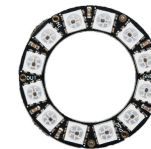
NeoPixel ring
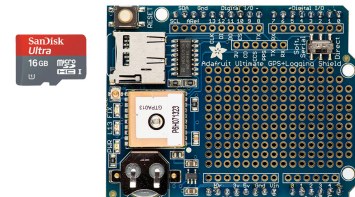
Button

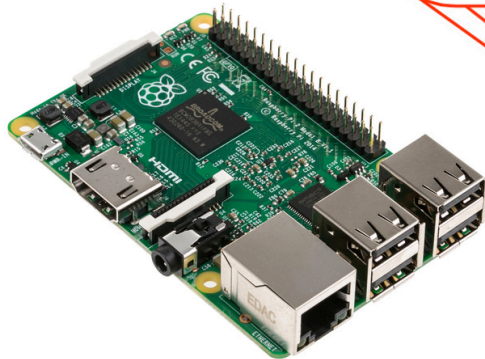GPS logger shield

Components -Upload Button

UPLOAD
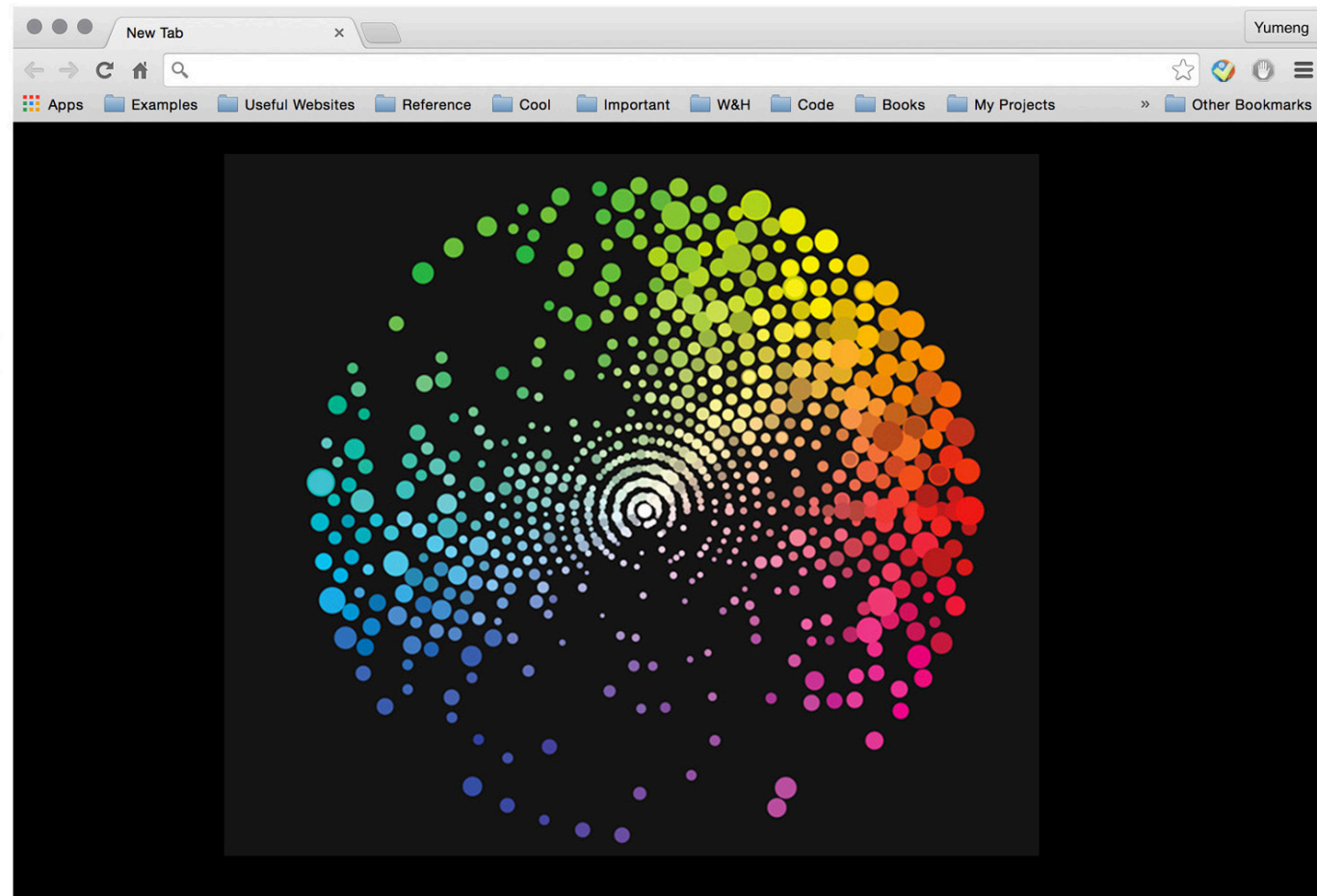
Acrylic

Raspberry Pi (server)

RFduino

RFID module

Components - Website

GPS and color data recorded from the "cursor" will be "uploaded" to the database, and then visualized on the website by using p5.js.

Parse (database)
Socket.io
p5.js

Hurdles

- Cold start of the GPS module takes 34 seconds (too long).

- Logging GPS data and color RGB data to two separate .txt files onto the SD card.

- Arduino reads the files from the SD card and send them to the RFduino connected to the Raspberry Pi.

- Having a database on Raspberry Pi to store the GPS and color data.

- The data input as variables in the p5.js sketch.

- Casting silicon for the enclosure.

- Enclosure might block or weaken the GPS signal