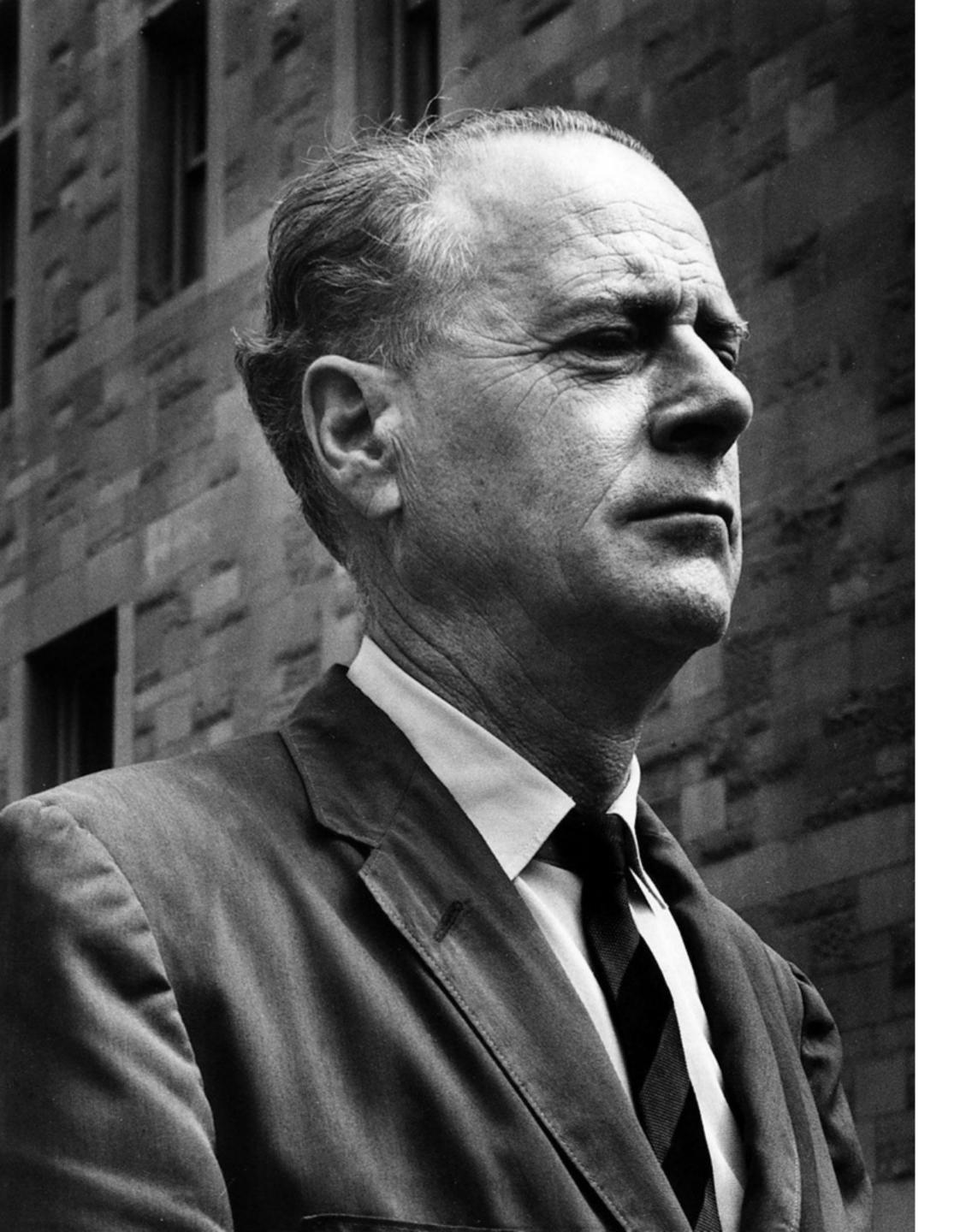
HYBRID ECOLOGIES:

Disobedient Objects, Unexpected Landscapes, and Human Wonderment

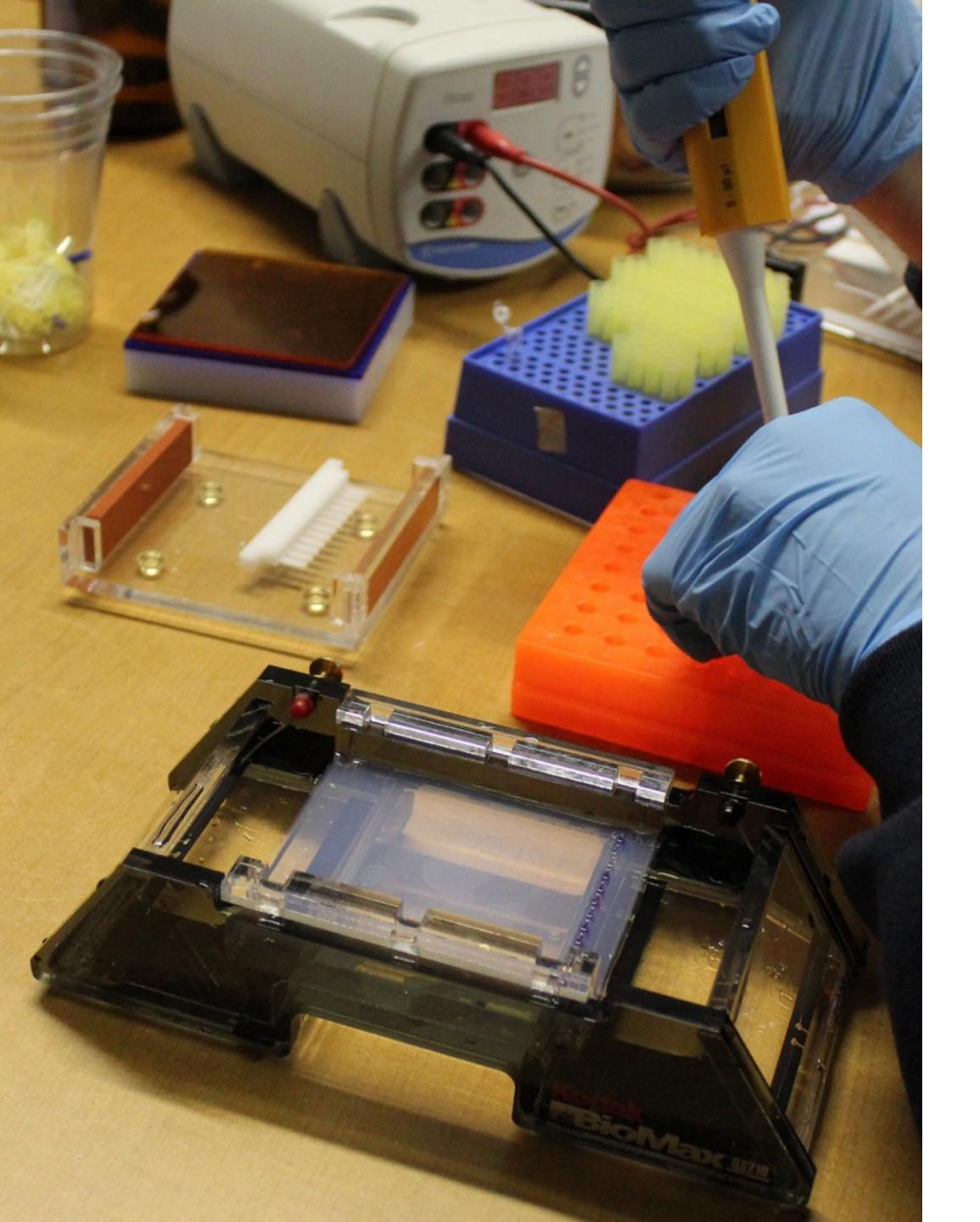




HYBRID

The hybrid or the meeting of two media is a moment of truth and revelation from which new form is born

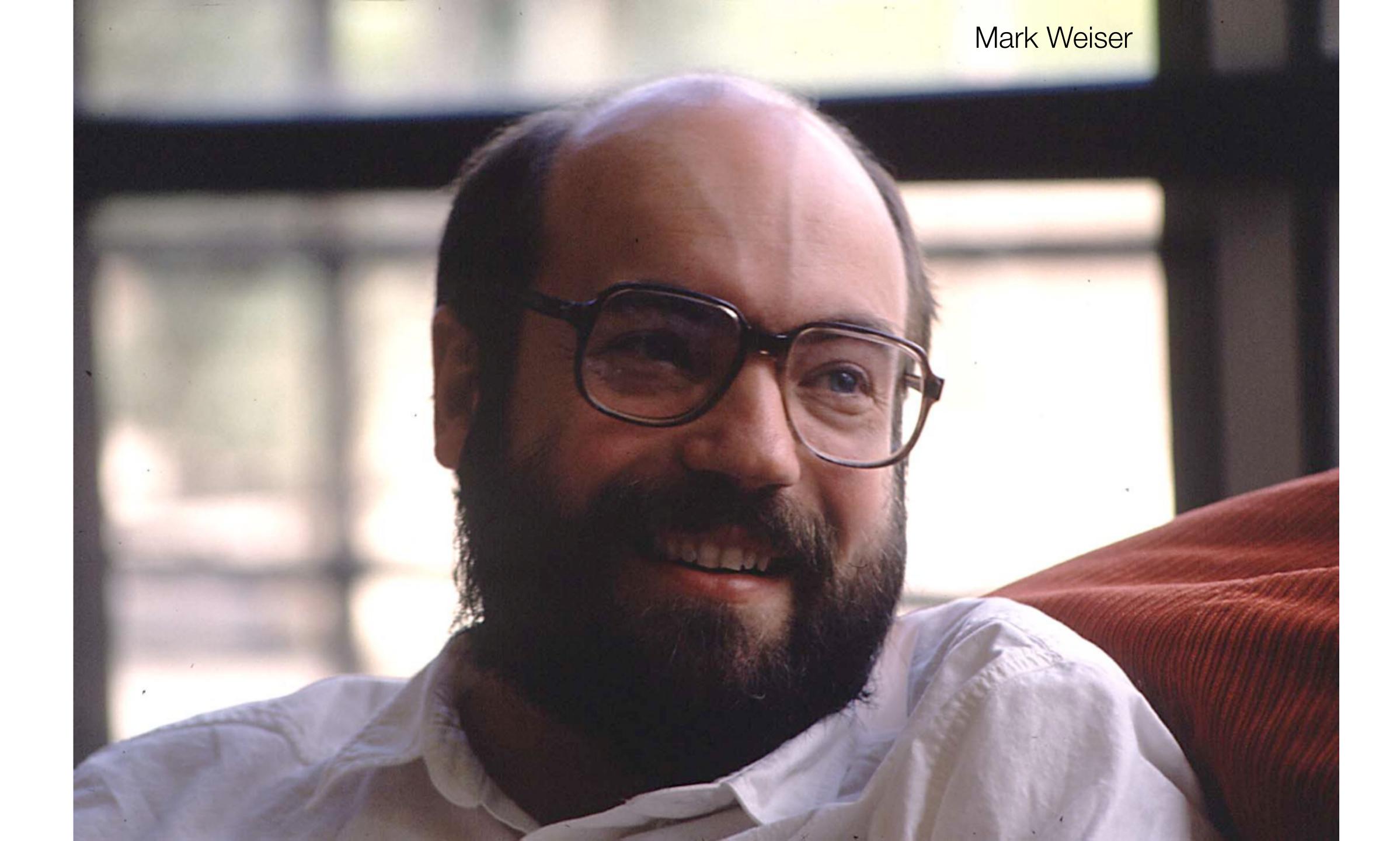
- Marshall McLuhan



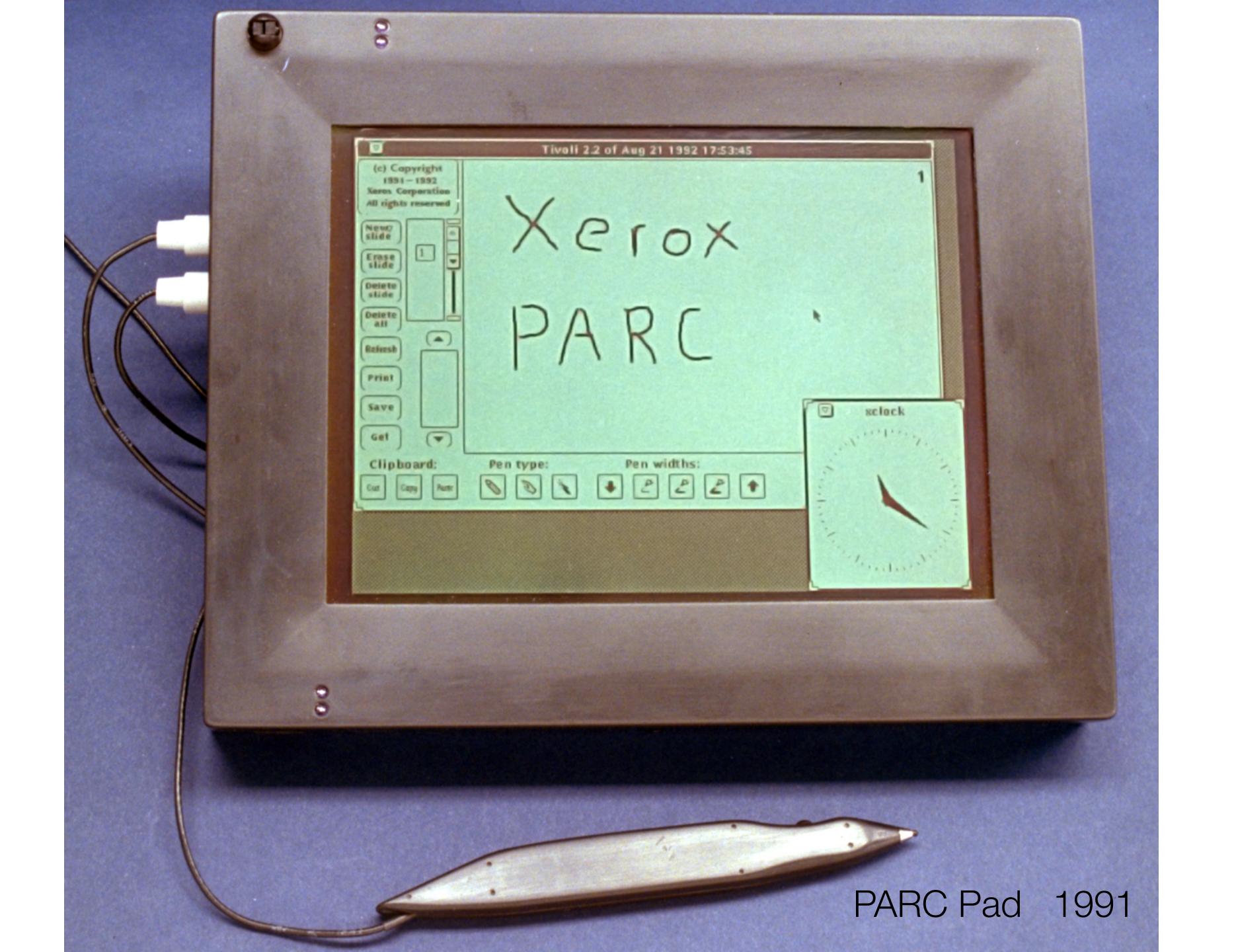
ECOLOGIES

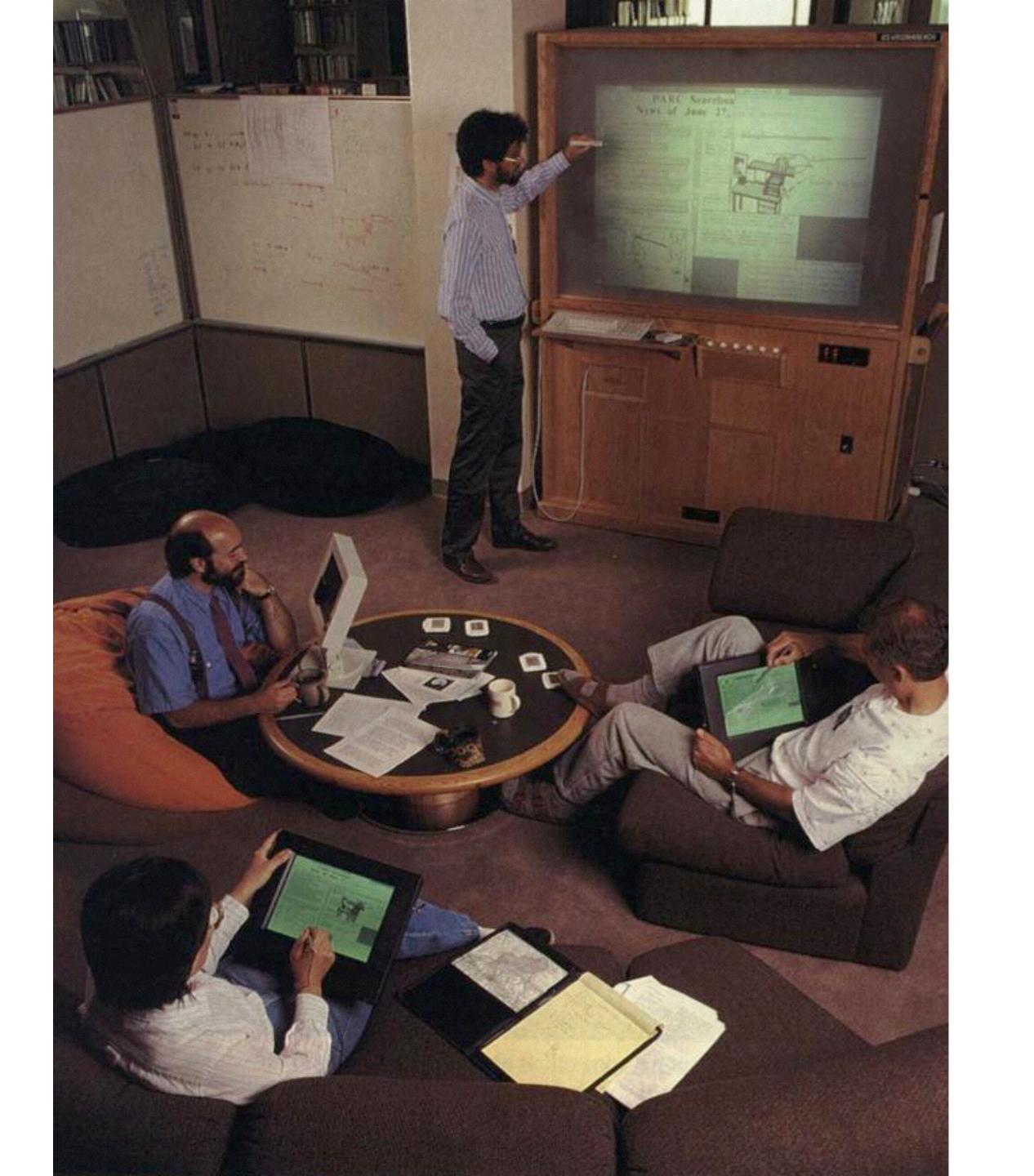
The scientific analysis and study of interactions among organisms and their environment, such as the interactions organisms have with each other and with their abiotic environment











Building Invisible Interfaces

Mark Weiser
Computer Science Lab
Xerox PARC
November 2, 1994

How to Build Invisible Technologies?

start from arts and humanties: Philosophy, Phenomenology, Anthropology, Psychology, Post-Modernism, Sociology of Science, Feminist Criticism, Your own experience...

This is the most important part of the talk. You may not get it on first hearing. Patience.

When I am done you'll know what is wrong with:

creating an entertaining and dramatic user interface computers magically meeting our desires a computer idealized as an assistant virtual reality as the ultimate user interface

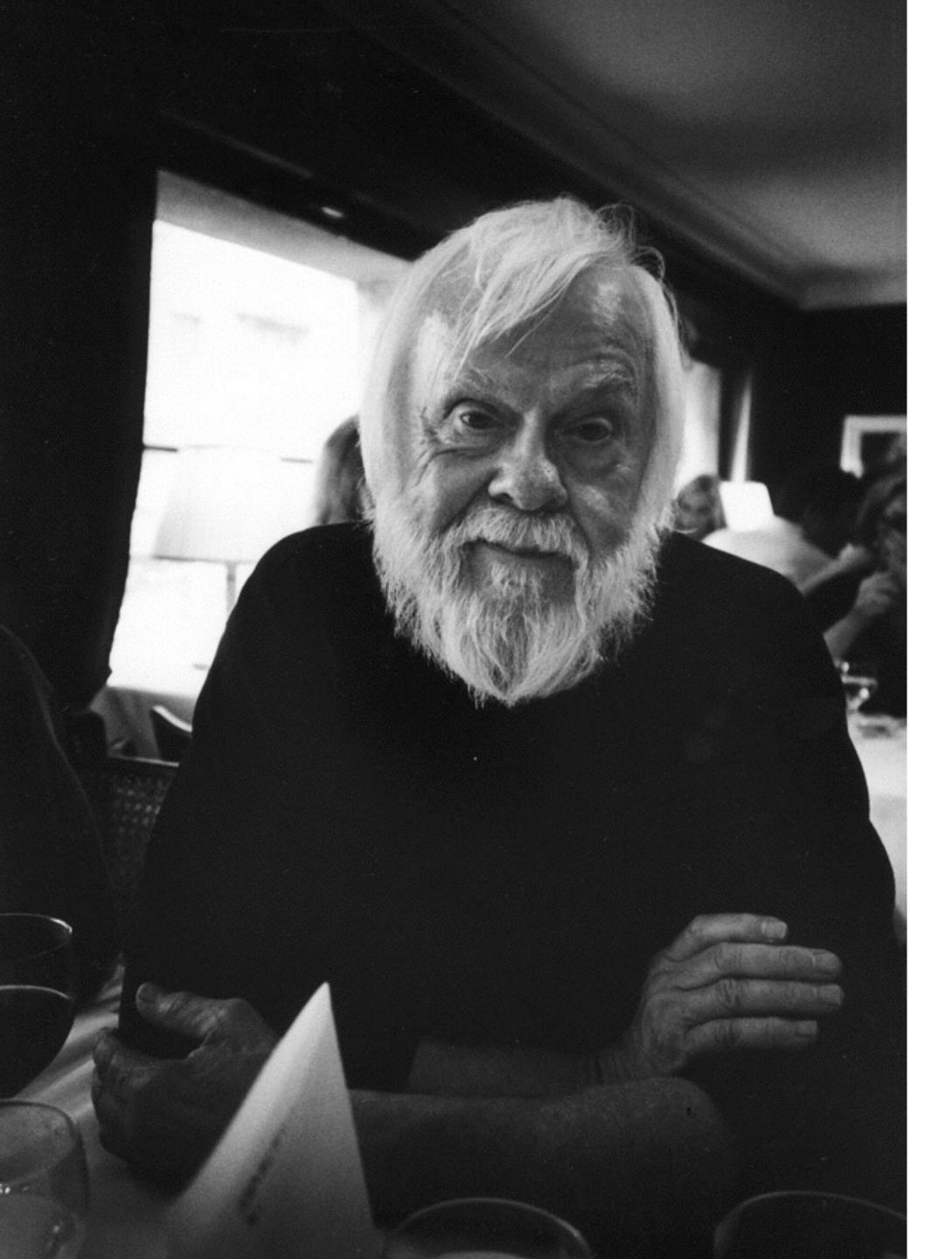
How to Build Invisible Technologies?

start from arts and humanties: Philosophy, Phenomenology,
Anthropology, Psychology, Post-Modernism, Sociology of
Science, Feminist Criticism, Your own experience...

This is the most important part of the talk. You may not get it on first hearing. Patience.

When I am done you'll know what is wrong with:

creating an entertaining and dramatic user interface computers magically meeting our desires a computer idealized as an assistant virtual reality as the ultimate user interface

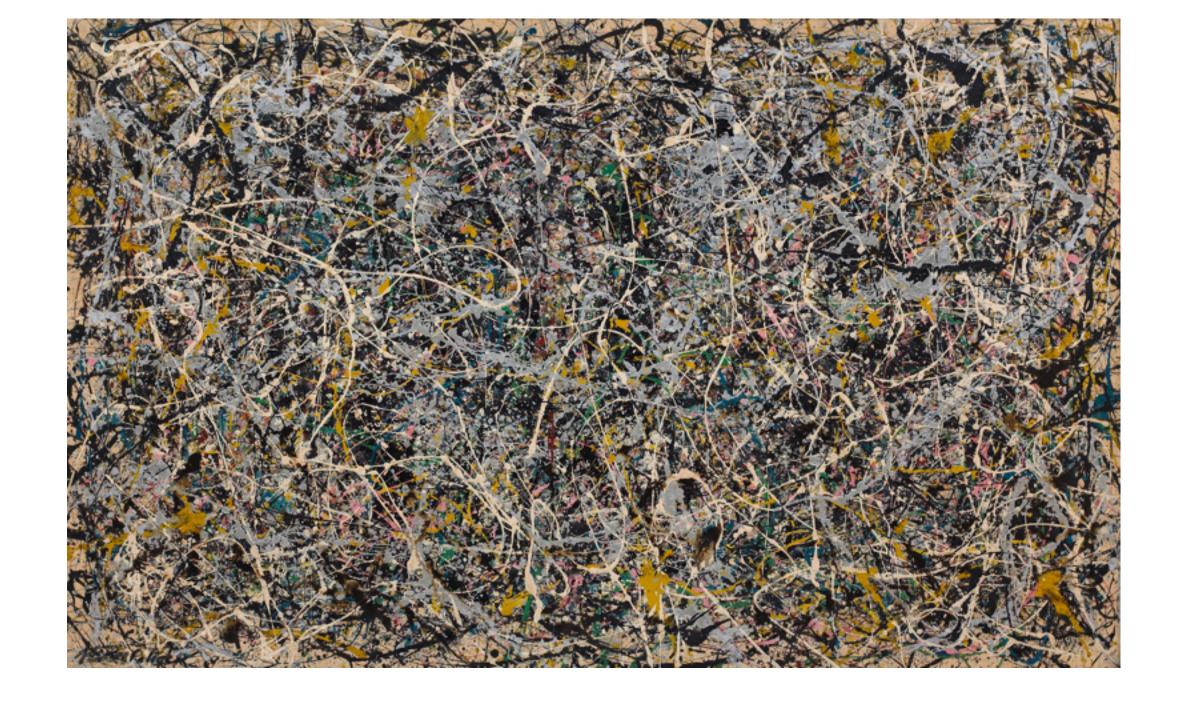


The best way to make art is to intrigue and to be a bit seductive.

You just say, here's this and this...you figure it out

- John Baldessari









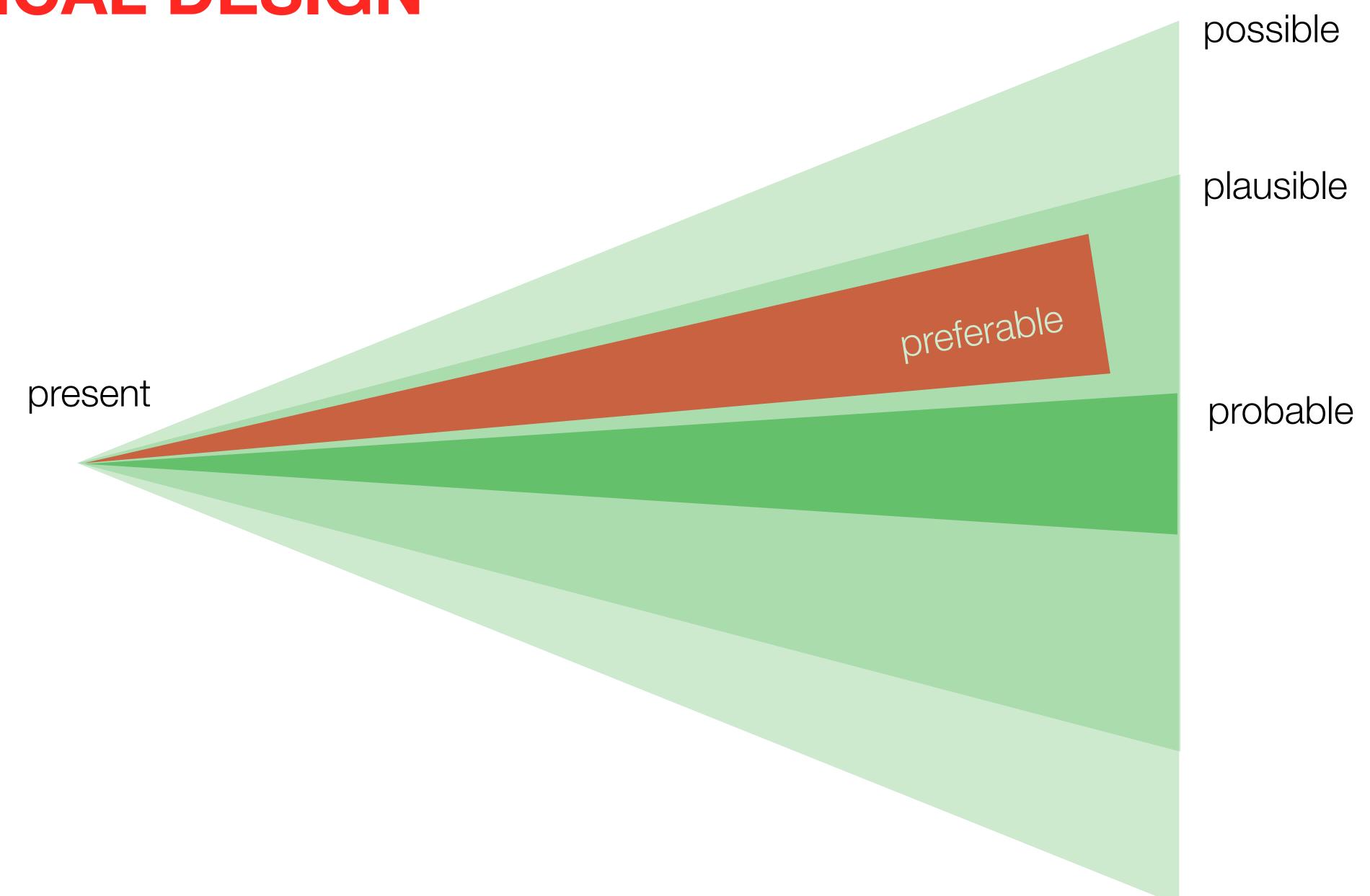




The clashing point of two subjects, two disciplines, two cultures, of two galaxies, ought to produce creative chances.

- C.P. Snow The Two Cultures (1959)

CRITICAL DESIGN



PERSONALIZATION

MATERIALS

MEMENTOS AND HEIRLOOMS

FASHIONING FASHIONABLES

INTERNET OF EXPRESSIVE ASSEMBLAGES

PERSONALIZATION































juxtaposing "elements" with particular meanings, histories, and potentials





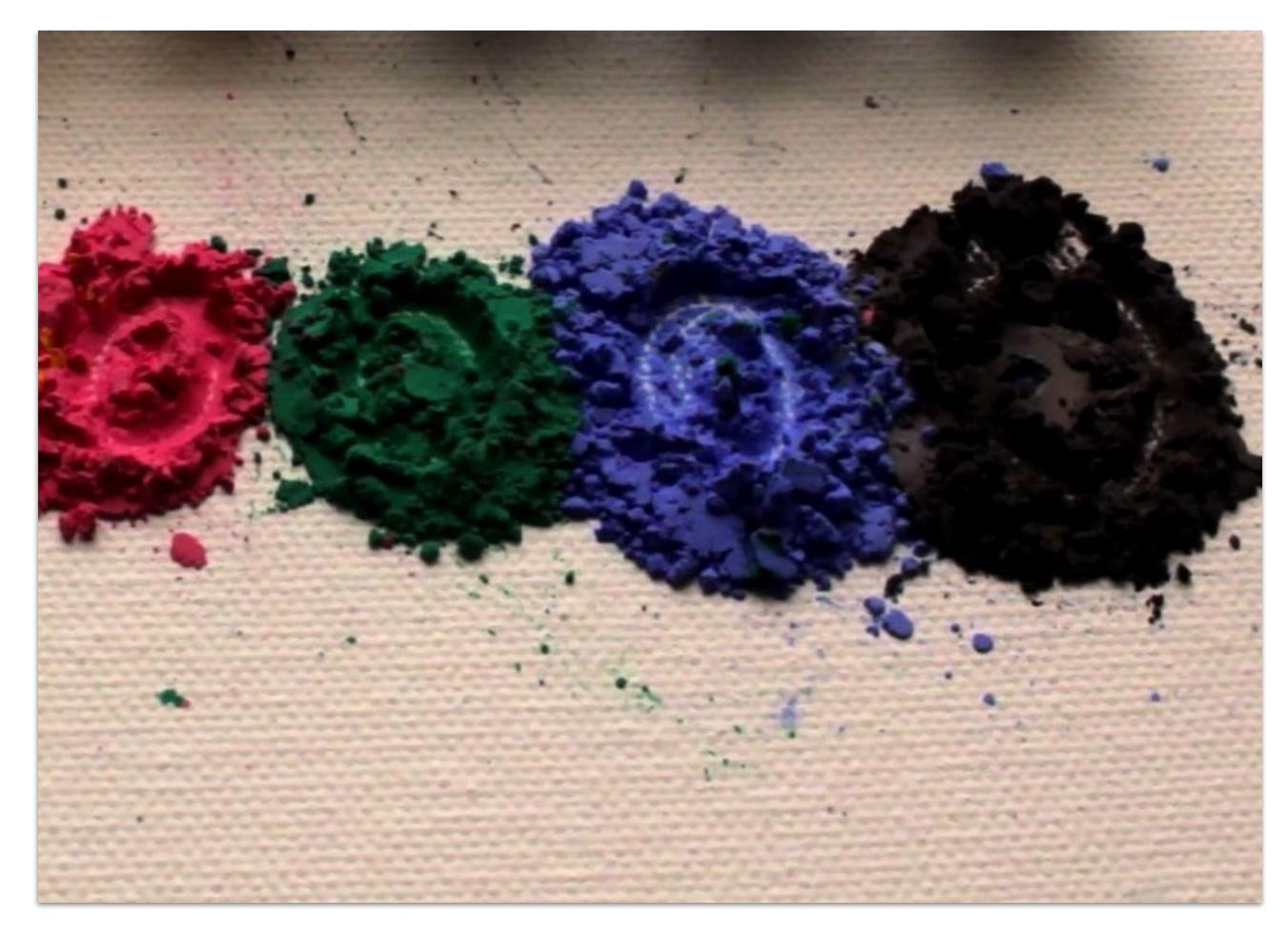


Ebb

Laura Devendorf, Joanne Lo, Noura Howell, Jung Lin Lee, Nan-Wei Gong, Mustafa Karagozler, Shiho Fukuhara, Ivan Poupyrev, Eric Paulos, and Kimiko Ryokai



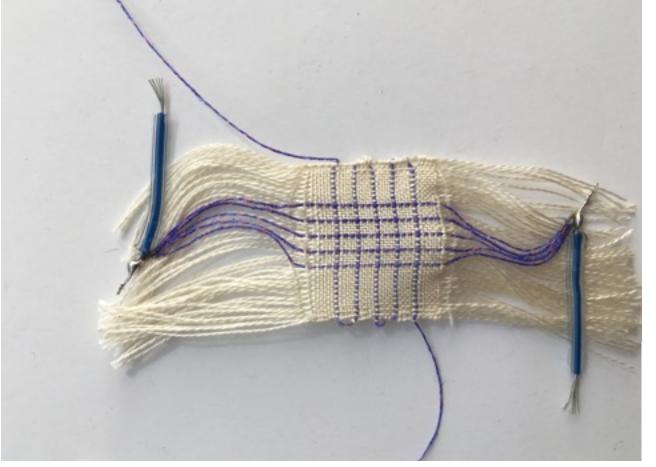
Ebb: conductive thread coated with thermochromic paint

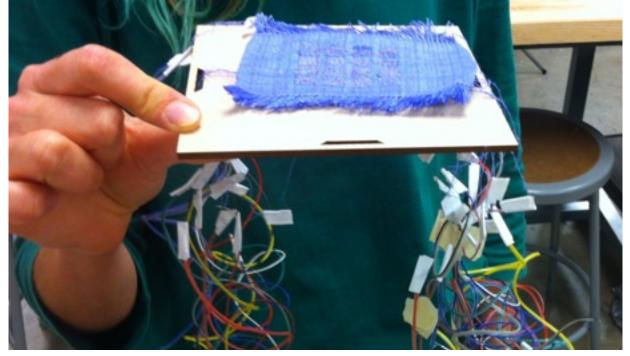


thermochromic pigments

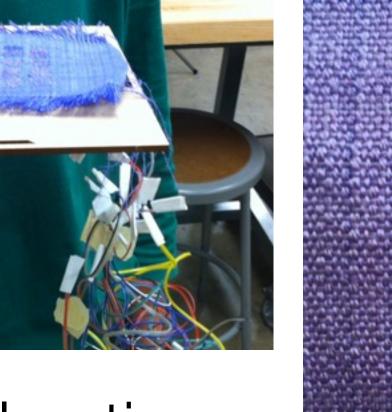


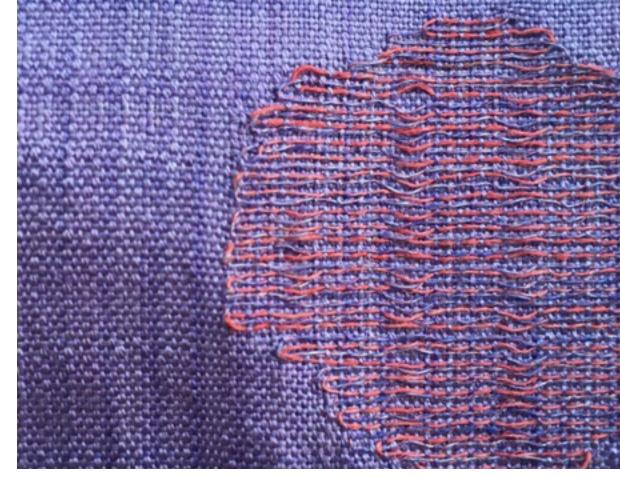
jacquard thread coated with thermochromic paint



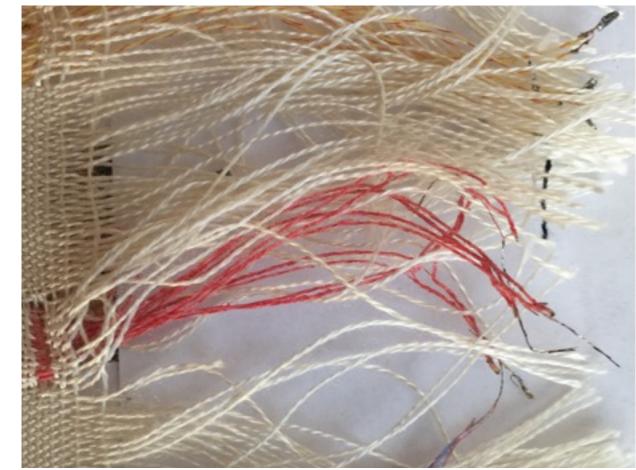


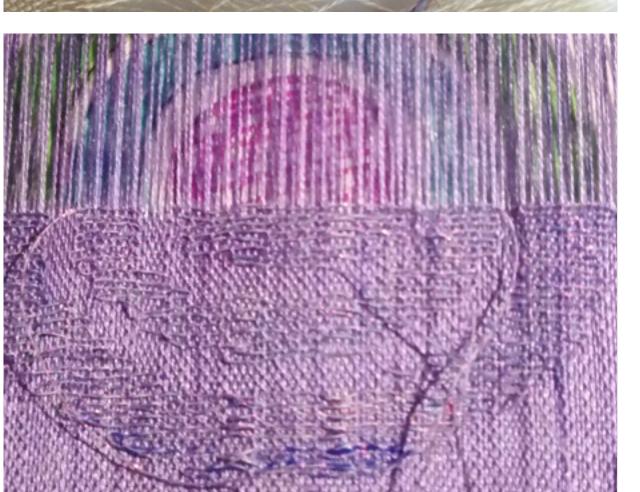
woven explorations

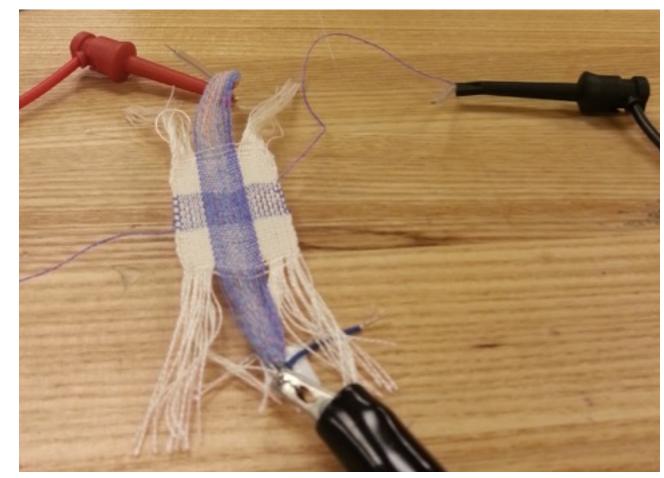




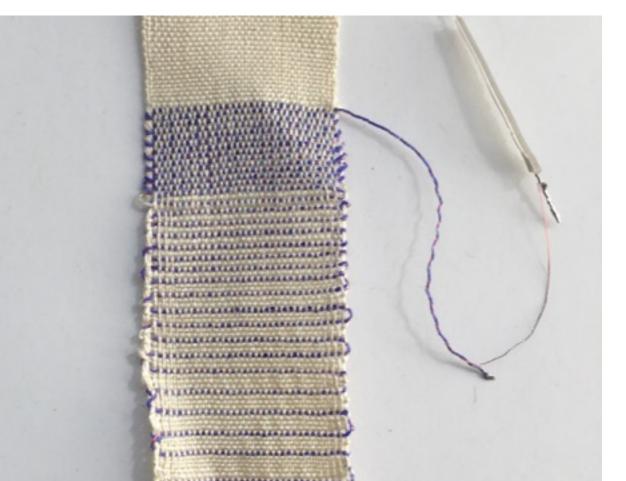


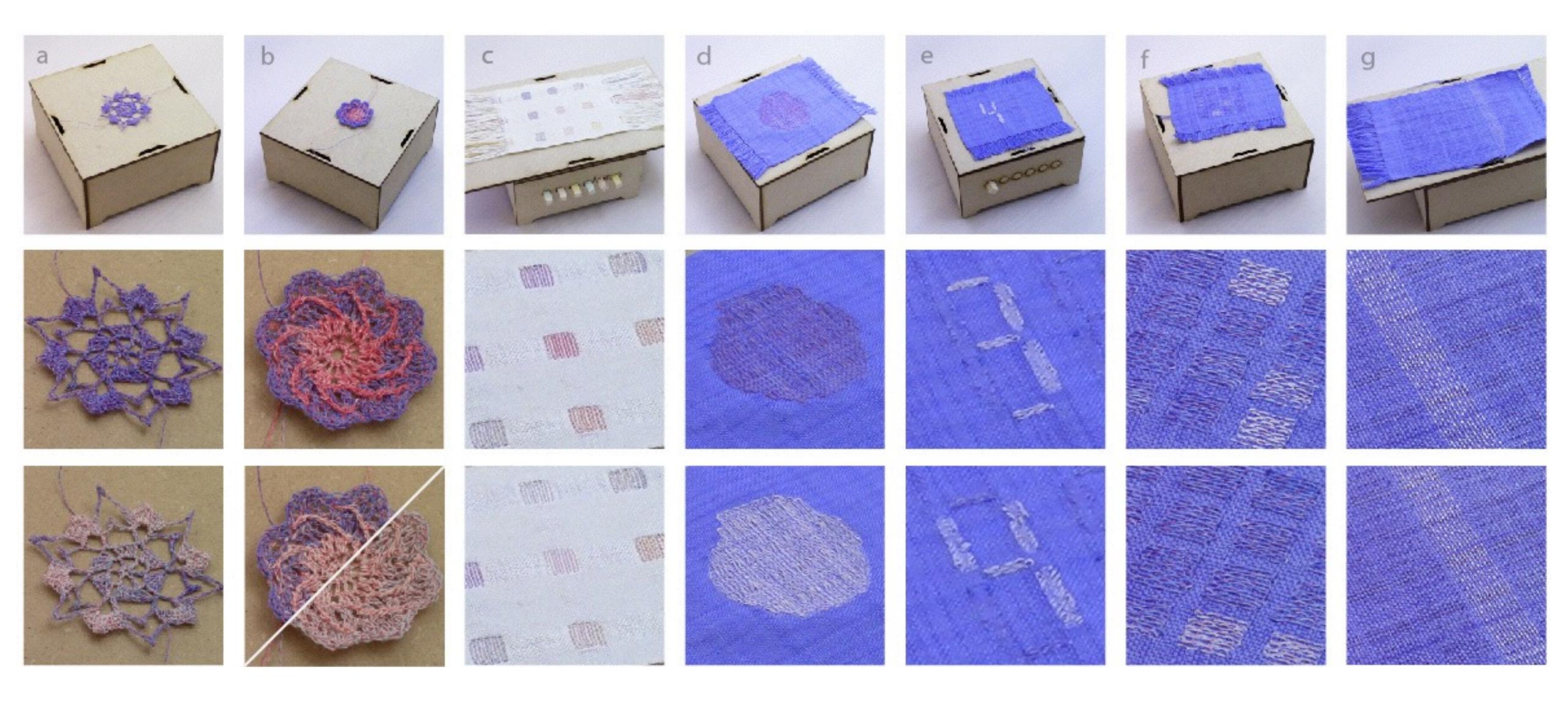


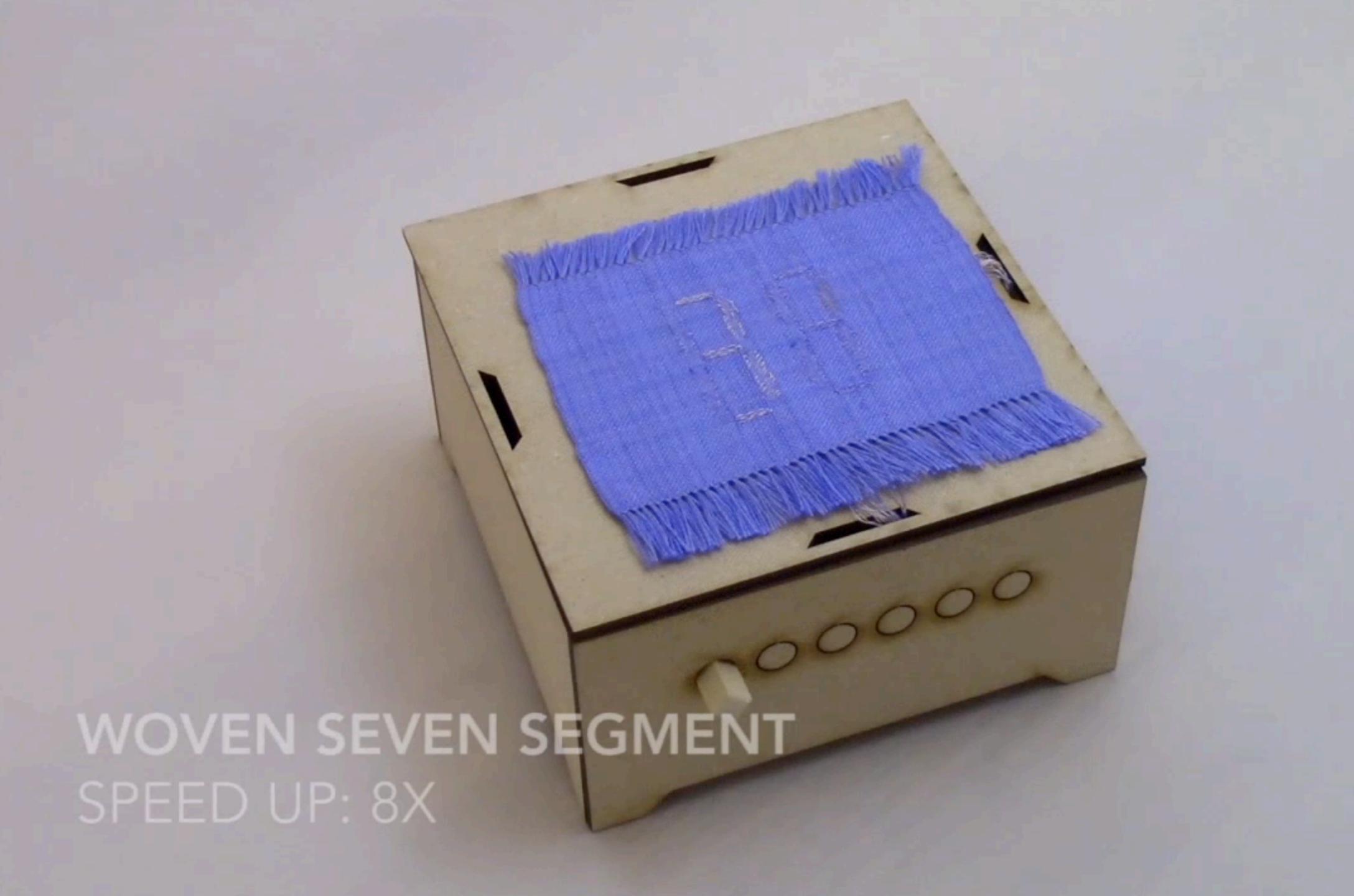
























MATERIALS









I'm from the upper Sierra foothills near the Navarro River in Mendocino County,

California

I was logged on a warm June 3rd in 2014 I was brought to a home in Berkeley, California

I was cut and drilled over three days in early July 2015



Part of me was discarded

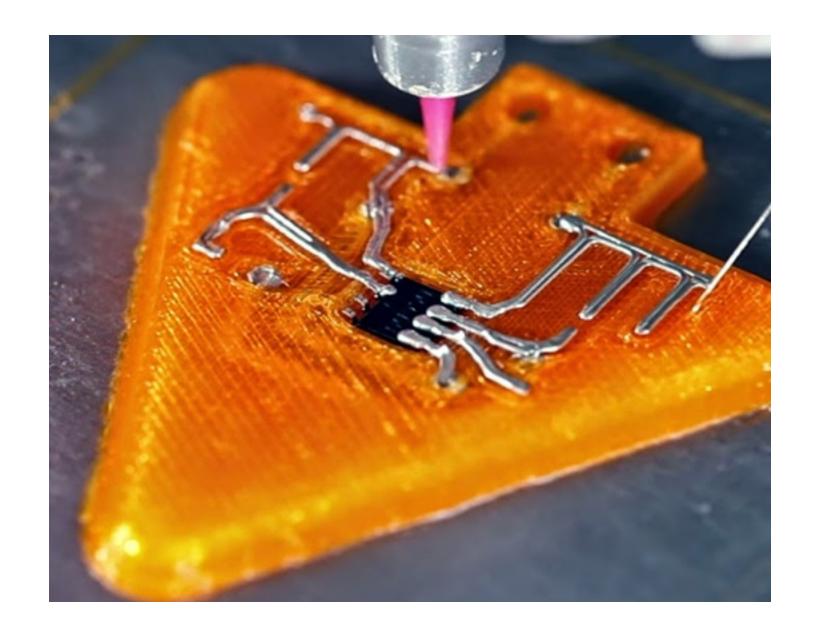


Part became a doorstop...



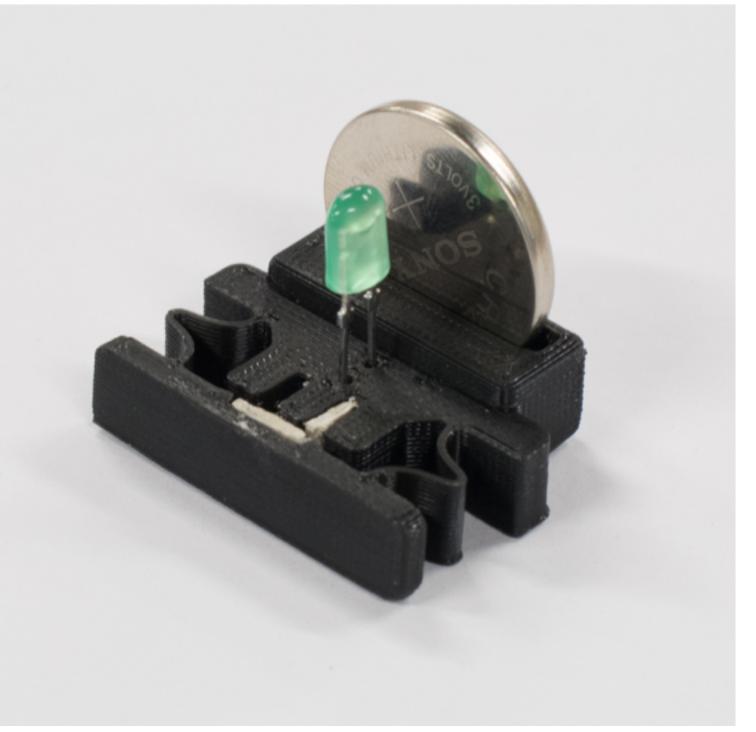
...but most of me became part of a children's fort



















Who has been nearby?

Lots of room now for a picnic!

This is the best sun and cleanest air quality this week!





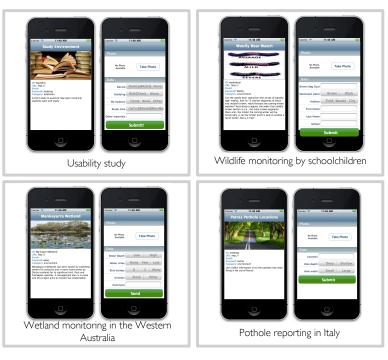




Common Sense



Community Sensing
Stacey Kuznetsov



SensrSunyoung Kim



InAir Sunyoung Kim

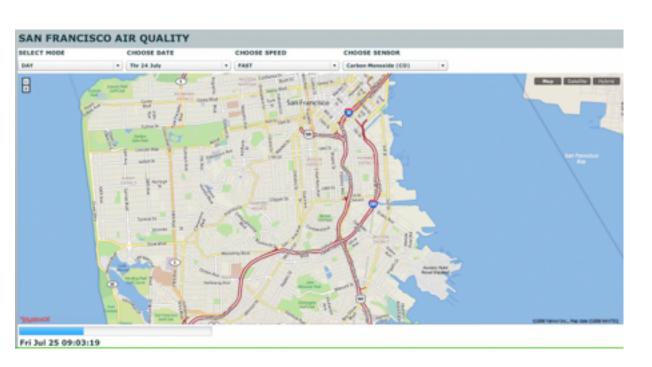


Spectacle Computing
Stacey Kuznetsov





WearAir Sunyoung Kim



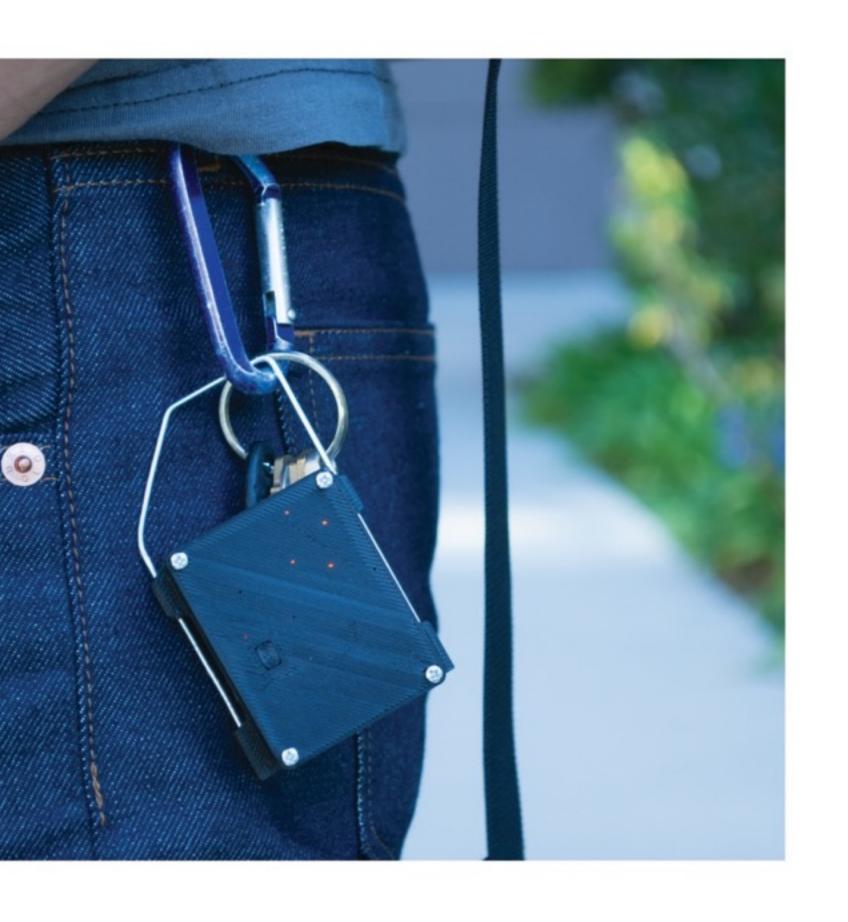
Participatory Sensing



Crowd Sourced Air Sensing

MyPart Rundong Tian button pcb laser assembly primary flow channel fan battery bottom flow chanel





















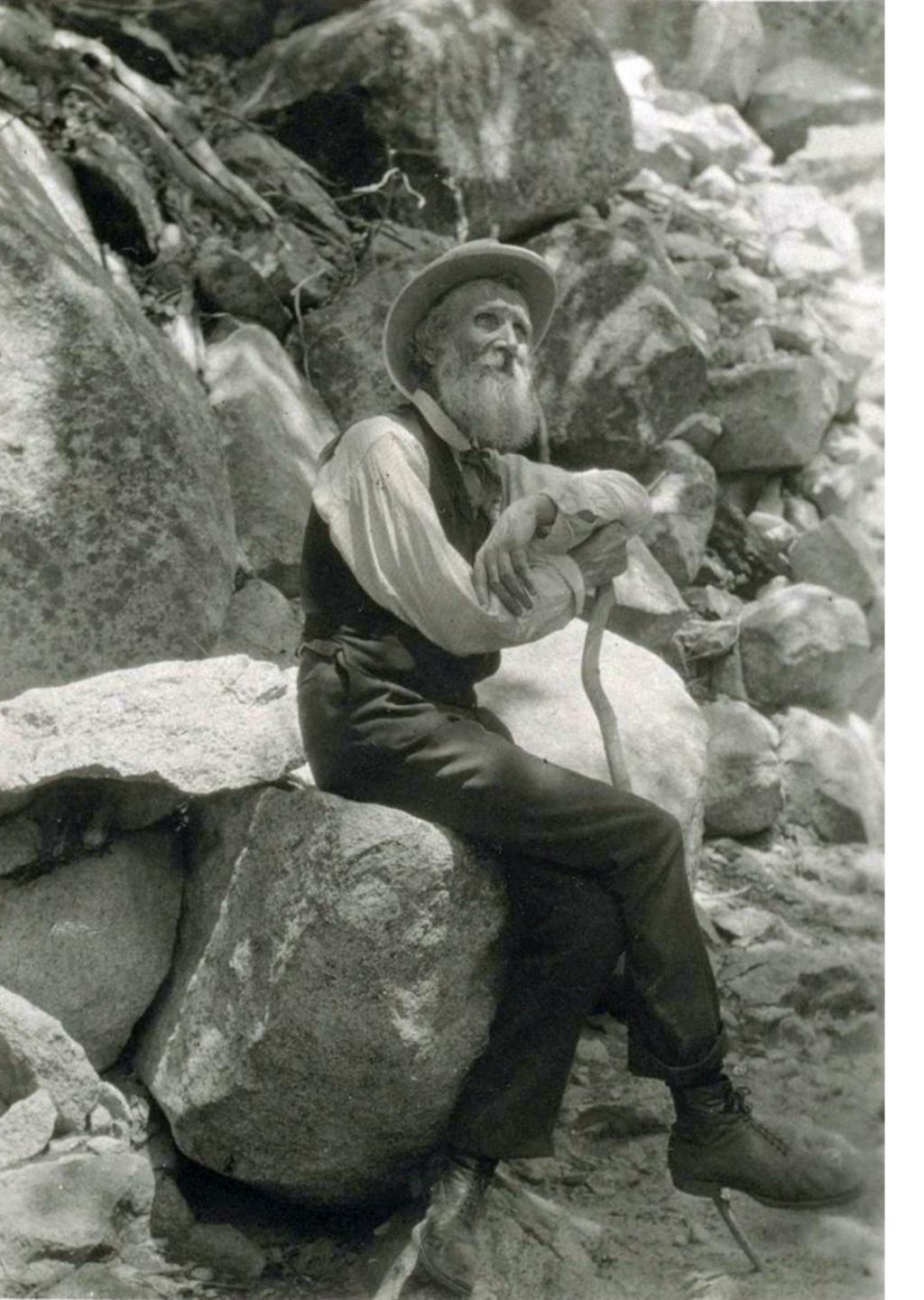
AIR EXPLORER

WATER EXPLORER

EARTH EXPLORER

MEMENTOS AND HEIRLOOMS





How infinitely superior to our physical senses are those of the mind

- John Muir





WHY DON'T SOME OF OUR OBJECTS HAVE....



Nada Almeddine, Justin Berner, Eldon Schoop, Eugene Song, Janette Tang









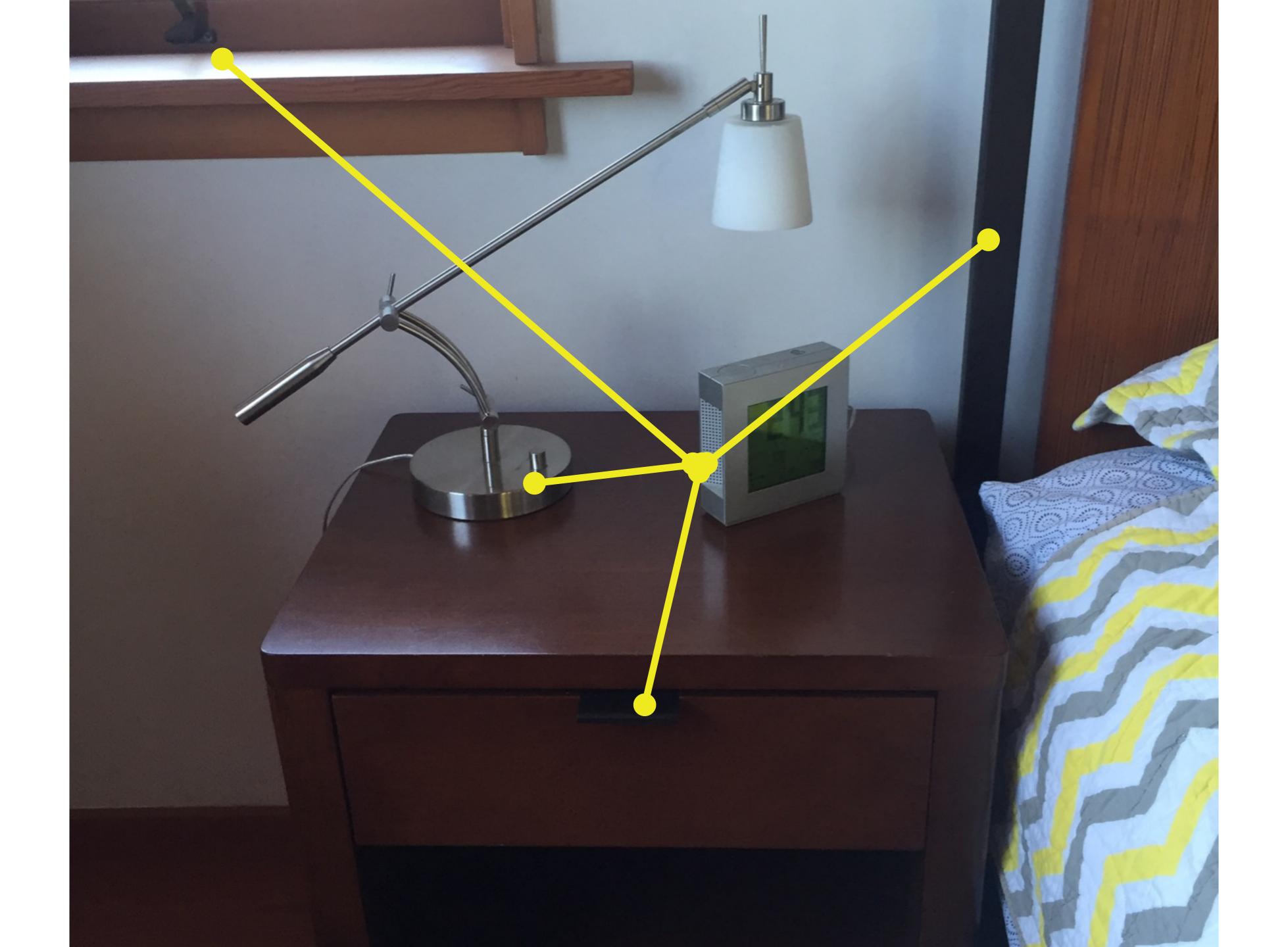






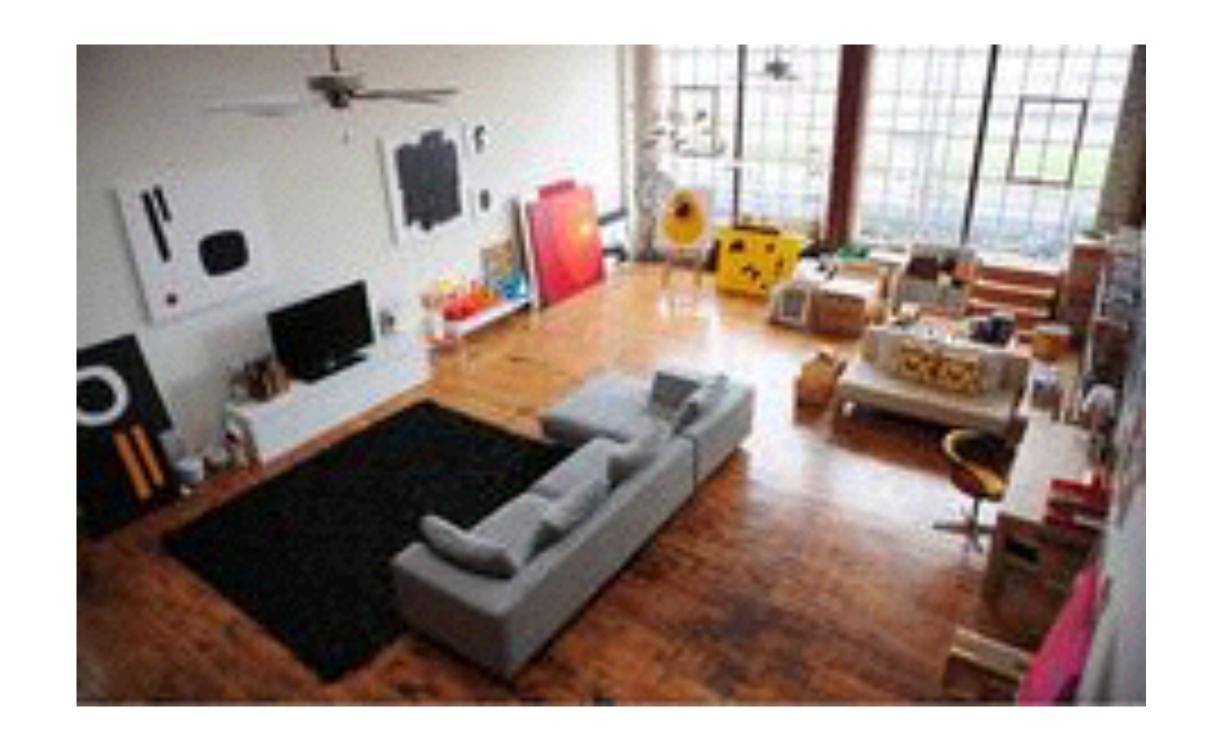










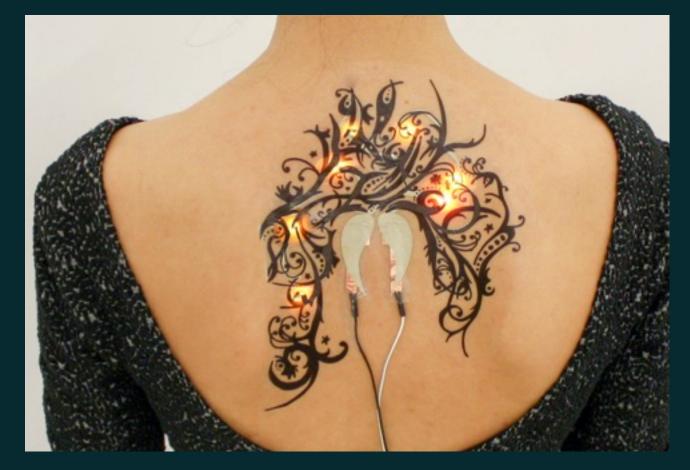






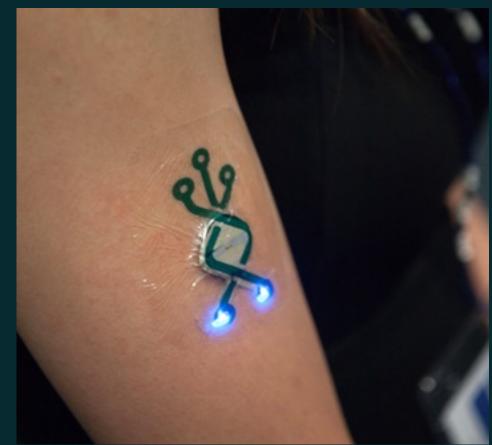
FASHIONING FASHIONABLES





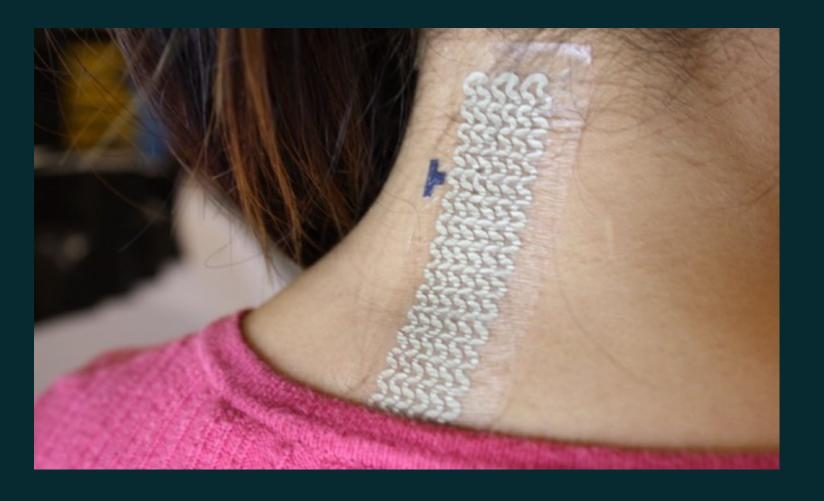


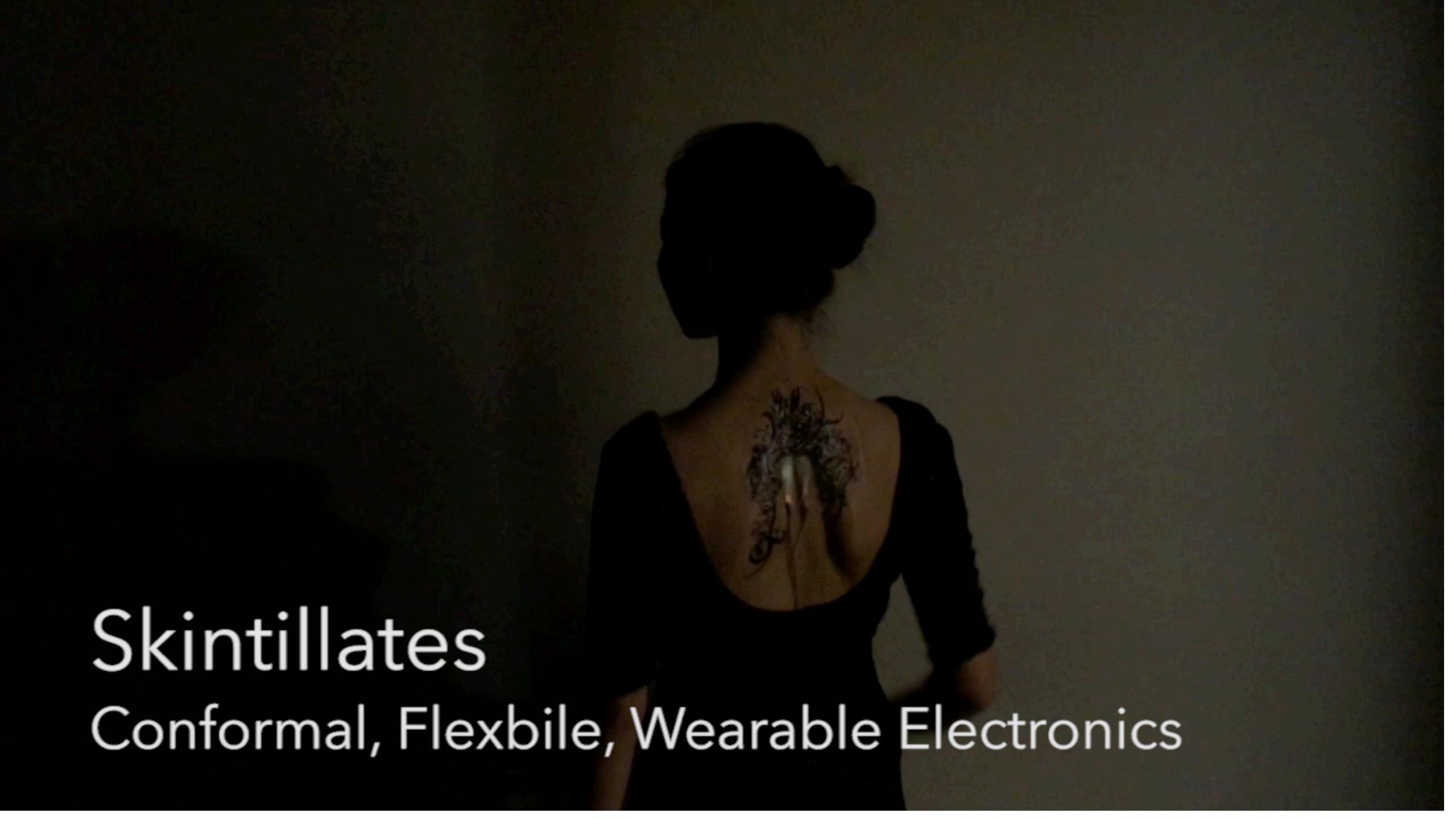




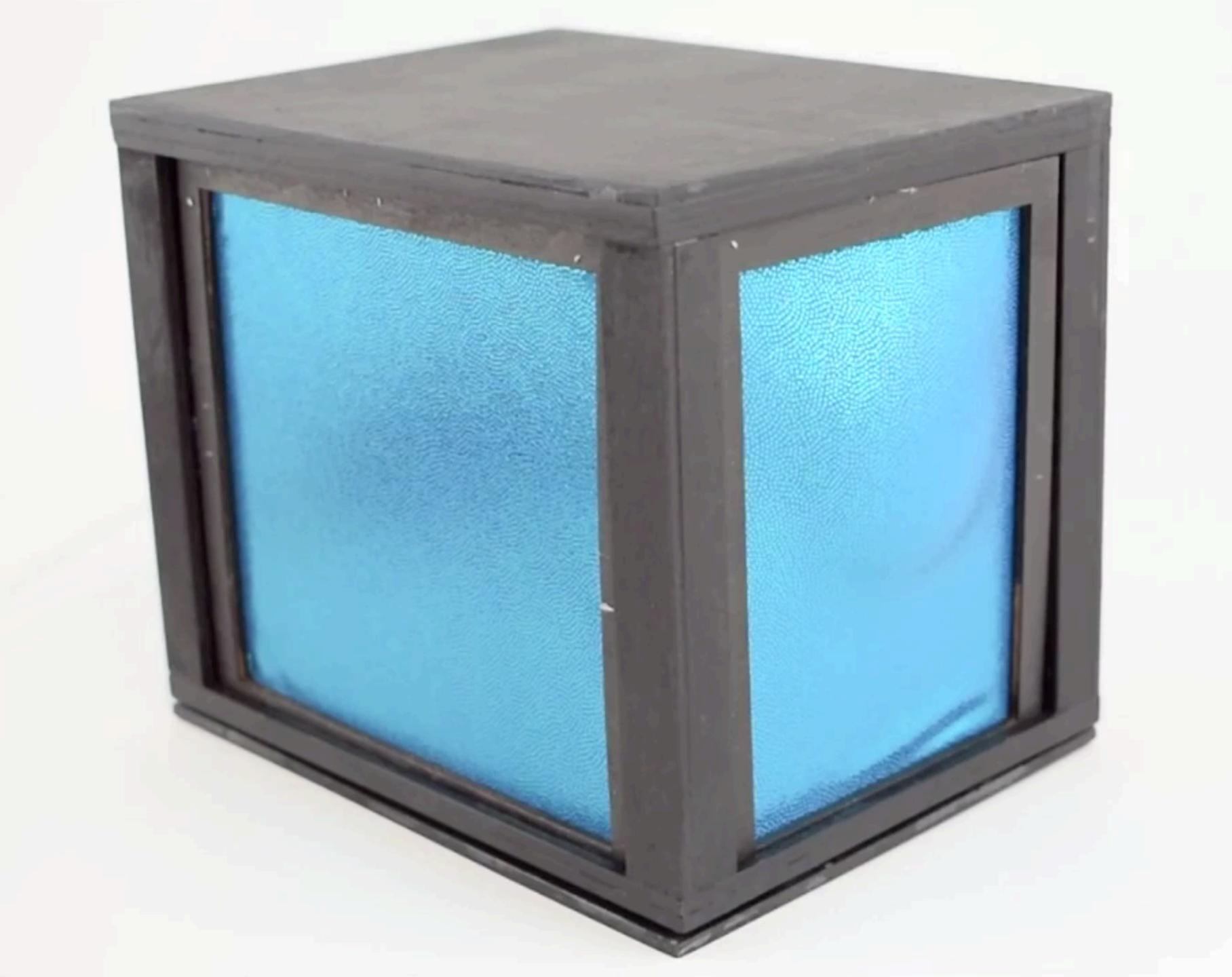








INTERNET OF EXPRESSIVE ASSEMBLAGES



César Torres Expressive Objects

CHALLENGES

INTERCONNECTIVITY

How do our phones, smartwatches, clothing, cosmetics, and epidermal electronics communicate?

DISCOVERY

How do these new objects discover each other and us? Do they forget?

PROGRAMMABILITY

How will you program across and with this ecosystem of devices?

APPROPRIATE NARRATIVES AND STORIES

Will our objects understand etiquette and proper behavior when relating stories? Will they betray us?

FACTORY RESET

How do you reset your couch, home, car, or neighborhood sidewalks?

SECURITY

How can I prevent hacking of my clothes, bandages, and medicine?



Stacey Kuznetsov



Sunyoung Kim



James Pierce



Joanne Lo



César Torres















Berkeley Center for New Media





Kevin Tian



Christine Dierk



Chris Myers