“Embodied Interactions: Blending Bits and Atoms”

Future “Computers”

“Hardware is the New Software”

The future is not to predict, but to invent

Alan Kay 1971

Intel Edison, Intel Curie
Everything Smart
Embodied Computing Power
EMBODIED
INTERACTION DESIGN

EMOTIONS
SENSES
SOCIAL CONTEXT

VS

LOGIC
LANGUAGE
SYMBOLIC OPERATIONS

EMBODIMENT
THAT'S HOW WE EXIST IN THE WORLD
SHAPES THE WAY WE UNDERSTAND IT
THE WORLD IS A TOOL IN OUR HANDS

EMBODIMENT
Embodiment typically refers to our being living, feeling, bodily entities situated in a physical world. This contrasts with a view of human cognition as grounded in abstract information processing. Theories of embodiment focus on how our bodies and active experiences shape how we perceive, feel and think.

EMBODIMENT
FRIENDLY VENDING MACHINE
Master Graduation Project Blog by Guus Baggermans
Industrial Design at Eindhoven University of Technology

ROBOTS WITH SOUL
https://www.ted.com/talks/guy_hoffman_robots_with_soul

MORPHOLOGICAL COMPUTING
UTILIZING PHYSICAL PROPERTIES OF THE BODY
HUMAN ABILITY OF EMPATHY – AS SOCIAL BEINGS

"living mobile" provides information about missed calls or text messages through breath and pulse.

WEIGHT AS A REPRESENTATION FOR DIGITAL CONTENT

TAPTIC ENGINE

HUMAN TOUCH

THE SAME APPROACH

These blocks sense the others around them.

http://www.sifteo.com/home

http://www.sifteo.com/home

http://www.topobo.com/videos.html

http://www.apple.com/watch/technology/

We found a way to give technology a more human touch. Literally.
BANG & OLUFSEN
:: BEOVISION

Bang & Olufsen store
Johannes Torpe design

INTERACTIVE TABLECLOTH
MEAL TOGETHER WITHOUT A PHONE
PAULINA MASTERNAK, SCHOOL OF FORM

Take the Bible, and nothing much happens.

Wooden Sequencer
46  Angry Birds USB Slingshot
https://www.youtube.com/watch?v=AJjD3DIqMFs

47  https://vimeo.com/91395564

48  x.pose: a Wearable Dynamic Data Sculpture
https://vimeo.com/97703615

49  THE PENIS WALL: A SCULPTURE THAT VISUALIZES FLUCTUATIONS IN THE STOCK MARKET.
PEIQI SU, ITP Tisch School of the Arts
http://peiqi.su/art/portfolio-penis-wall.html

50  BLACK ISLAND, INTERACTIVE SCENOGRAPHY
ALEKSANDRA WASILKOWSKA, WIESŁAW BARTKOWSKI
KRZYSZTOF GARBACZEWSKI
"SEXUAL LIFE OF SAVAGES"

51  Krzysztof Garbaczewski
"Sexual Life of Savages"
https://www.youtube.com/watch?v=9jJHdUDyiHQ

52  fot. Wiesław Bartkowski
BLACK ISLAND
MUSEUM OF MODERN ART, WARSAW
2014

53  fot. Wiesław Bartkowski
MUZYKA_JEST
OPENING OF NATIONAL FORUM OF MUSIC
WROCŁAW 2015
DATA EMBODIMENT

believe that the physical character of a data sculpture has the potential to significantly influence the sense-making process of its users who interpret its meaning. For example, the experience of seeing a population represented as a collection of data pixels versus a heap of rice

EMBODIED COGNITION

PHYSICAL CHANGES TO THE BODY, SUCH AS ADOPTING A DIFFERENT POSTURE, CAN IN SOME CIRCUMSTANCES INDUCE CHANGES IN EMOTIONAL OR ATTITUDBINAL STATES AND SOCIAL PERCEPTIONS (E.G. NIEDENTHAL ET AL., 2005)

EMBODIED COGNITION

THE ENVIRONMENT IS PART OF THE COGNITIVE SYSTEM
MOBILITY — REFLECTIVE KINEMATRONIC II, 2010
World Expo Shanghai, China
https://artcom.de/en/project/mobility

91

KINETIC SCULPTURE — THE SHAPES OF THINGS TO COME, 2008
BMW Museum, Munich, Germany
https://artcom.de/en/project/kinetic-sculpture

92

LET'S DETACH EYES FROM THE SCREEN!
WE STILL HAVE THE BODY!!

94

95

96