

||sɪnəs^l θ ē zh ə |

(noun)

: a sense
impression by
stimulation of
another sense or
part of the body.

+ Synthetic Air

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Proposal

An alternate perspective in using our senses. A mechanism that not only aids in sensory loss, but enhances the senses and/or broadens the horizon.

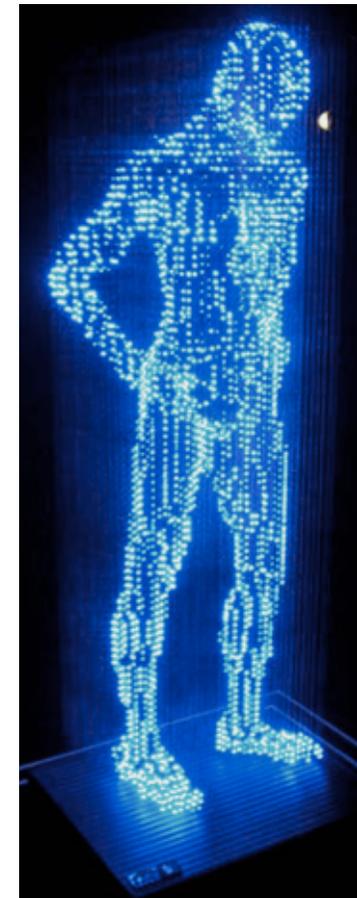
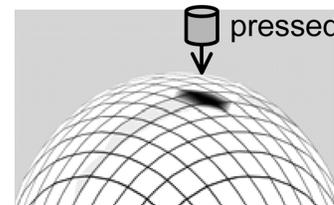
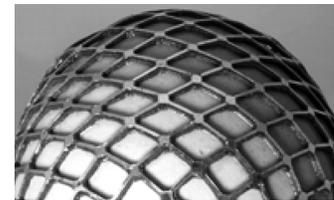
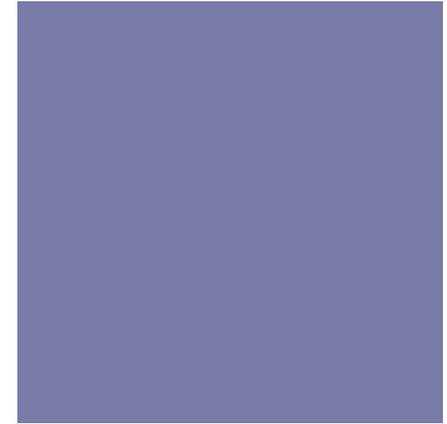
Originally focused on imitating information and experiences of sensory functions, these machines can also create new forms of information with pre-existing systems—namely, the body.

- There are two main senses used: touch, and smell. Minor senses are sight and hearing.
- A holographic image is used: a wave or abstract structure akin to light waves. Acts in accordance to changes in music. Helps user realize change in sequence.
- Robotic skin sensory are worn by user to aid in light detection. A device similar to neuro-prosthetics are attached to send information to the suit about the user's emotional state.
- Scent is released within the light particles, which depending on the user's reaction, changes the light waves. Thus, the change is recorded and captured in the skin suit. The user feels as if it were a bodily sensation.



Technology & Materials

Artificial neuron receptors, nanotechnology that aids to skin complexity, and holographic lighting are one of the few technologies presented. The holographic lighting would not be so vividly human but are moving objects. New materials that can slow the speed of light will be used to change the fluctuation of the wave, that will be abstract—if at all human. Artificial neurons will interpret the brain waves as the user wears it, as technology advances, without inserting a wireless unit but rather receiving brain waves as if it were.





One of the major problem with bionics is that living tissue would die after implantation of bionic device. But new wireless technology and physiology stands to resolve this.



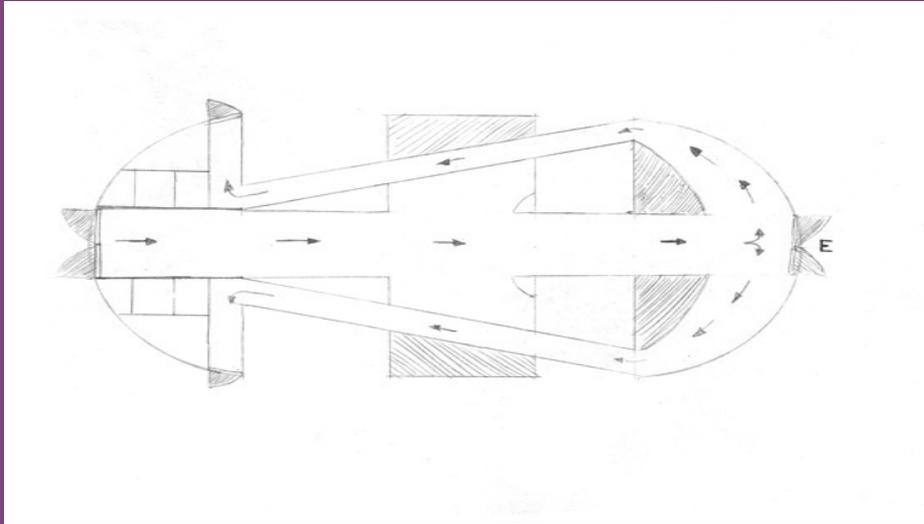
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Robotic Skin

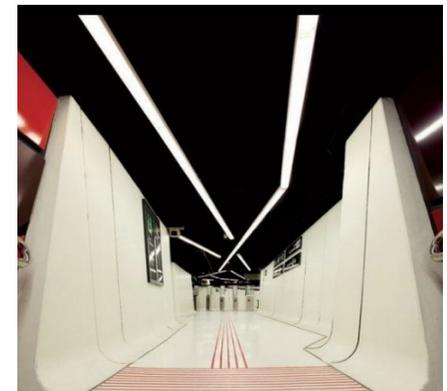
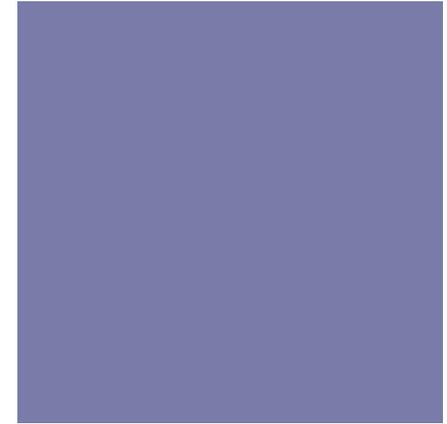
The main material in this project, the robotic skin is actually meant for machines to respond to physical touch as humans do. It is meant to feel pressure and temperature, however, as bionics are advancing, scientists hope to do more than common human capabilities; even so far as to see what is invisible to the naked eye. Focuses of bionics are alternate implantation and using fat cells to preserve living cells.



Structure

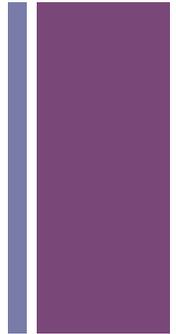


Consisting of mainly three rooms connected by a corridor: the first room has 6 smaller sectors so that visitors could come in and wear a robotic skin suit. From the left of the diagram, the user will move into the hall, where there is a holographic image of light flowing in just above. (this is at the middle room.) The middle room serves to establish a pattern between a music in the room with the light. The second room is the “black room” in which the user must use the suit to find the pattern. Scents are released in the area; the music changes by mood in response, thereby altering repetition of music and the skin suit’s response. For example, if it instigated fear, there would be a sensation of temperature change and pressure change on the suit.



+ Data

- Bionics: artificial parts, esp. referring to the replacement of lost parts. Parts that extend the physical limits depends on how it's used: exoskeleton refers to enhancement by machine on the body, and someone who had physical enhancement would be called a cyborg; both are relative to bionics.
- Nanotechnology: technology that works at a molecular level. Sometimes informally used to describe something insanely small.
- Space-time cloaking device: artificial materials that affect the speed of light by having constructs at an atomic level, as to manipulate electromagnetic waves.
- Hologram light: the use of hundreds conductive cables to create an image of a human
- Fluorescent glowing tubes from electromagnetic field: an experiment using the electromagnetic field from cable lines to excite fluorescent tubes.



+ More Data

- [Wireless device that reads brain signals of people who've lost speech cognition](#): As it says--it works with a set of words really and an automated voice; it's not clear cut but rather, it helps the person to choose the right word. It's for people who've lost ability to speak in accordance to what they think, but can still comprehend their surroundings.
- [Artificial Nose](#): A device that imitates sense of smell by recognizing certain molecules.
- [Electronic Skin](#): sends signals that imitate pressure and temperature sensing.
- [Nokia stretchable skin](#): and, apparently, a cell phone.
- [Synesthesia video](#): Purely Conceptual video

