



Concept

Explore synesthesia by associating certain body positions with visual hallucinations induced by photic stimulation.

Concept

Wearable sensors adjust the frequency of the flashes and thus provide various patterns.

Inspiration

William Gibson's "Neuromancer" protagonist uses electrodes/glasses to jack into cyberspace

three-dimensional space visualized as colored geometric shapes

Inspiration

Kinesthetics

interest in sensing body movement as a system rather than as isolated and disjointed movements.

Topics

Proprioception
Perception
Kinesthetics
Association
Self

Iteration

Sound & Light Machine
Visuals in support of audio sequence
Expanding visual frequency range
Using body movement
Providing user direct control
Independent eye frequencies

Research

Jan Purkinje

Recorded patterns perceived looking at Sun

Mitch Altman

Brainwave Glasses

Dominic H. ffytche

"The hodology of hallucinations" Cortex, September 2008

Experience

LED glasses stimulate vision through eyelids. Flashes are often perceived as patterns. Patterns vary based on flashing frequency. Sensors affixed to sleeves affect frequency. Alter the experience by moving arms. Associate position with visual patterns.



Context

Solitary exploration
Visual yet vision-diminished
Closed eyes
Seated
Space for movement

Materials

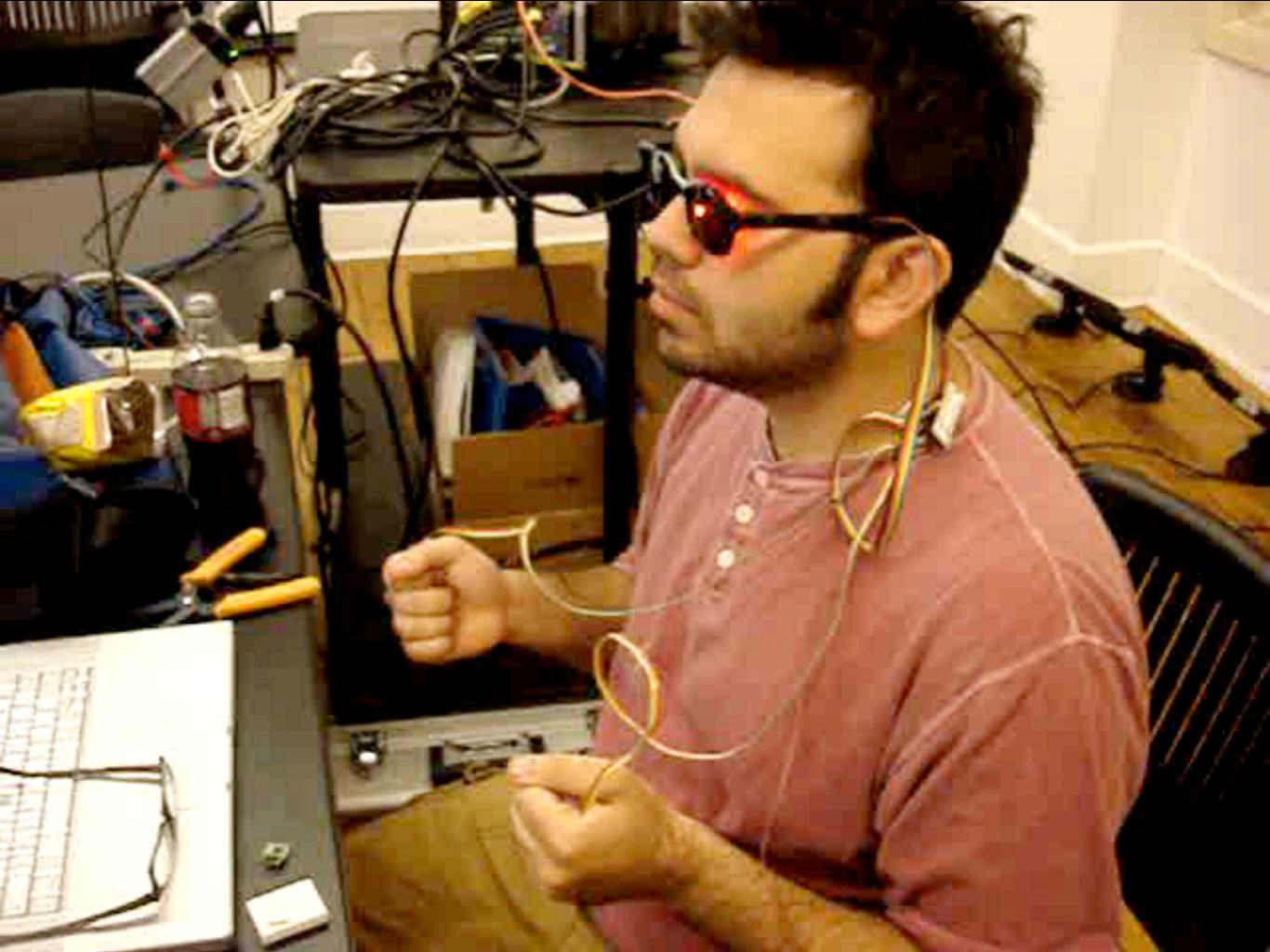
Glasses with LED elements
Accelerometers worn on arms
Microcontroller / battery
Soft switch for operation
Snug garment

Challenges

Discomfort
Controlling light intensity
Generating meaningful interaction
Photosensitive epilepsy
Bucha effect

Successes

People are often eager to try them
Strong favorable reaction
Most participants report visualization
Generally pleasant sensation
Seem absorbed by experience



Exploration

Other sensors / movement
Utilize gesture
Expressiveness in lights
Frequency shift events
Experiment with audio

BlindSight

Robert Carlsen | Andrew Styer

http://robertcarlsen.net/blog/blindsight