2022년 2학기 2주차 가상현실

성신여대 AI융합학부 강사 이대영

강의 일정

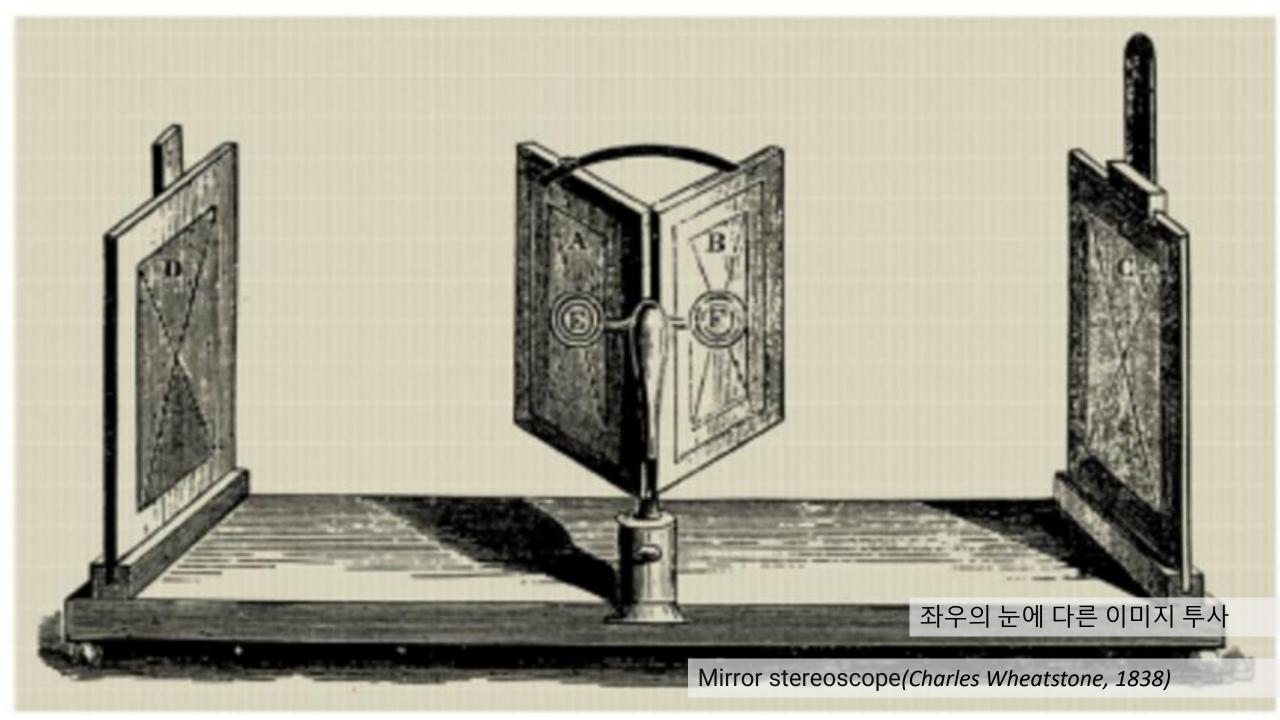
주 별 수 업 내 용			
주/회차	수업내용	수업방법	교재진도/과제
1주 1회차	오리엔테이션	대면	
2주 2회차	가상현실의 구분과 역사	대면	
3주 3회차	가상공간과 구현에 대한 기술적 이해	대면	
4주 4회차	실제 가상현실콘텐츠의 활용사례	대면	
5주 5회차	사례분석을 통한 콘텐츠 구현을 위한 디자인 학습	대면	
6주 6회차	가상현실 콘텐츠 기획	대면	
7주 7회차	실제 제작을 위한 게임엔진 소개와 기본이용능력 학습	대면	
8주 8회차	이론 기반 서술형 시험	대면	

가상현실의 역사

가상현실의 구분과 역사



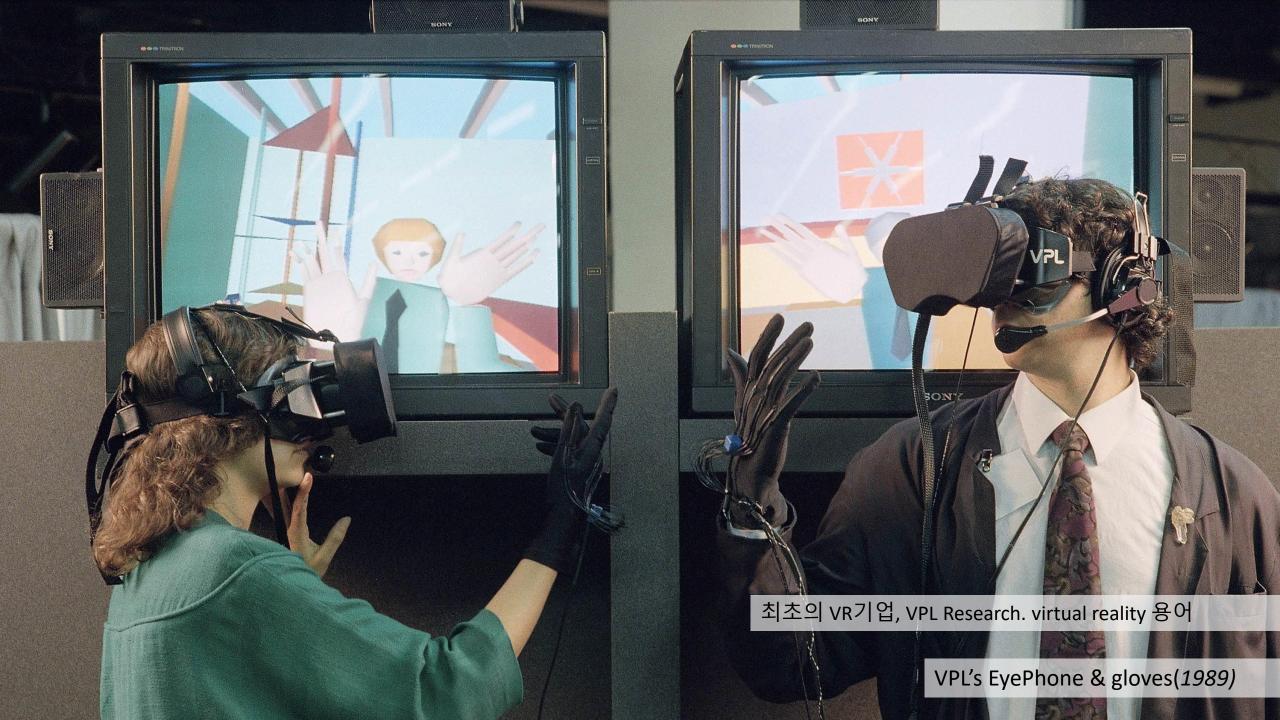










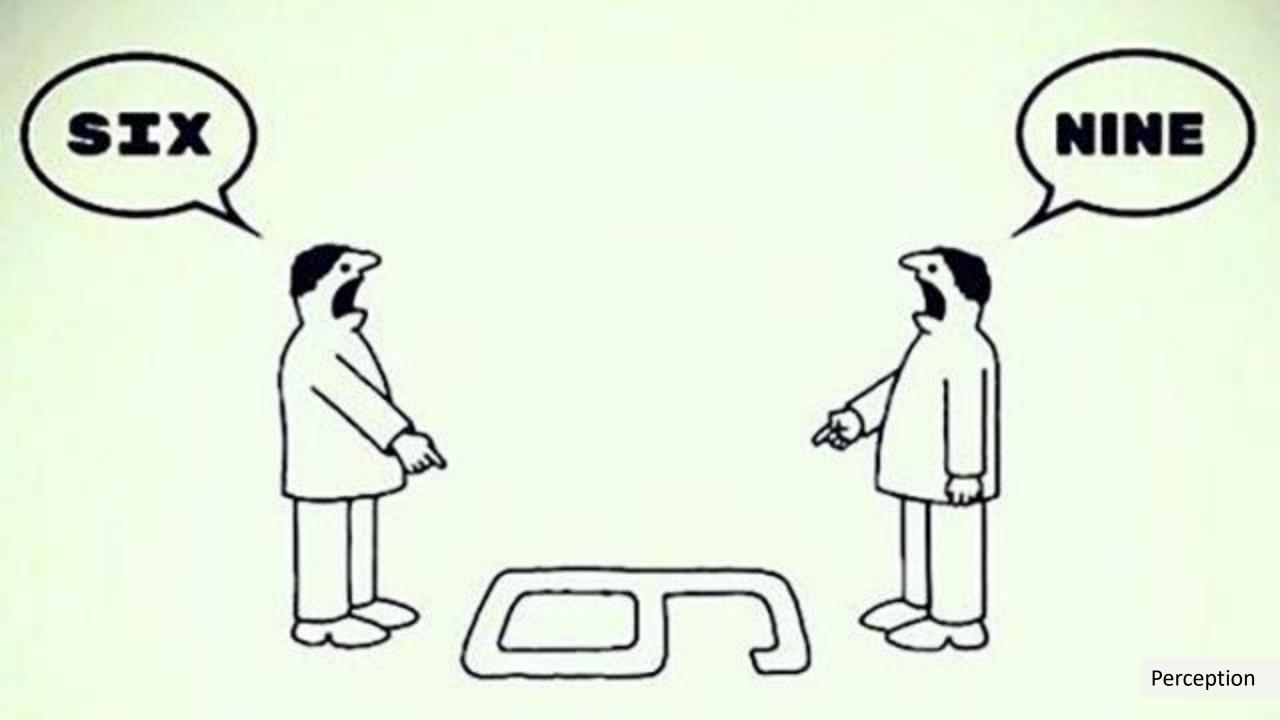


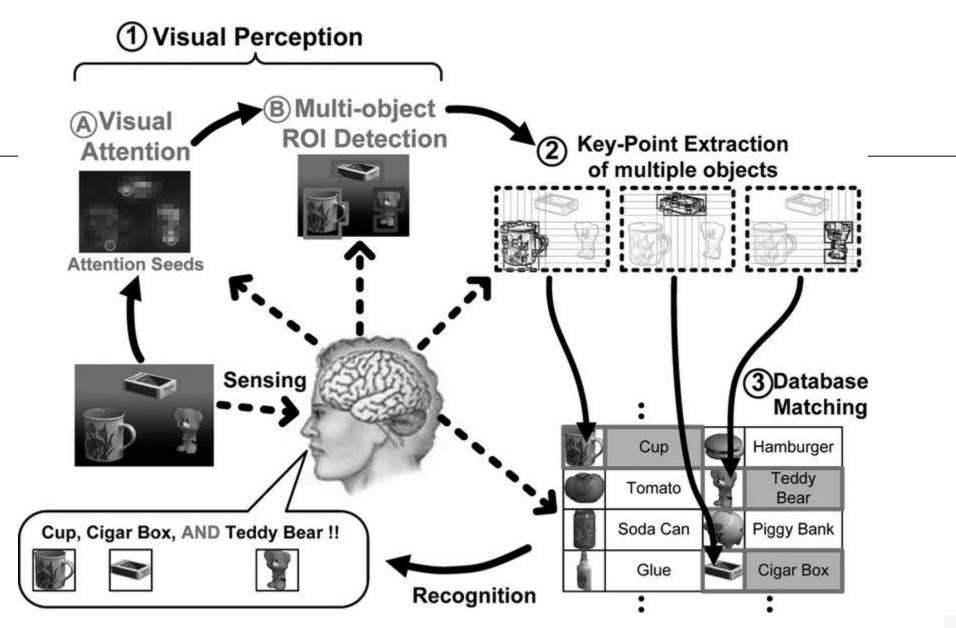




가상현실의 원리/개념

가상현실의 구분과 역사





Architecture: Building for interrelated spatial and social cognition

- Personality
- Individual Differences

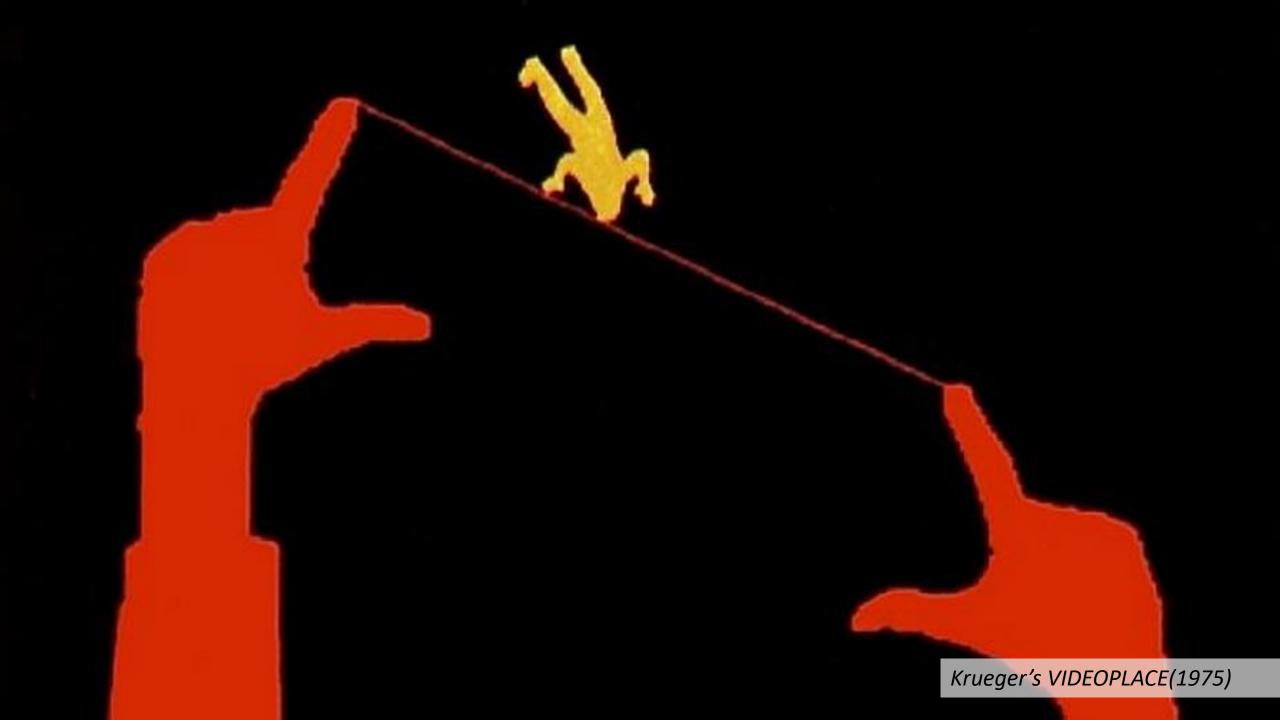
Who: Social Cognition Reference Frames

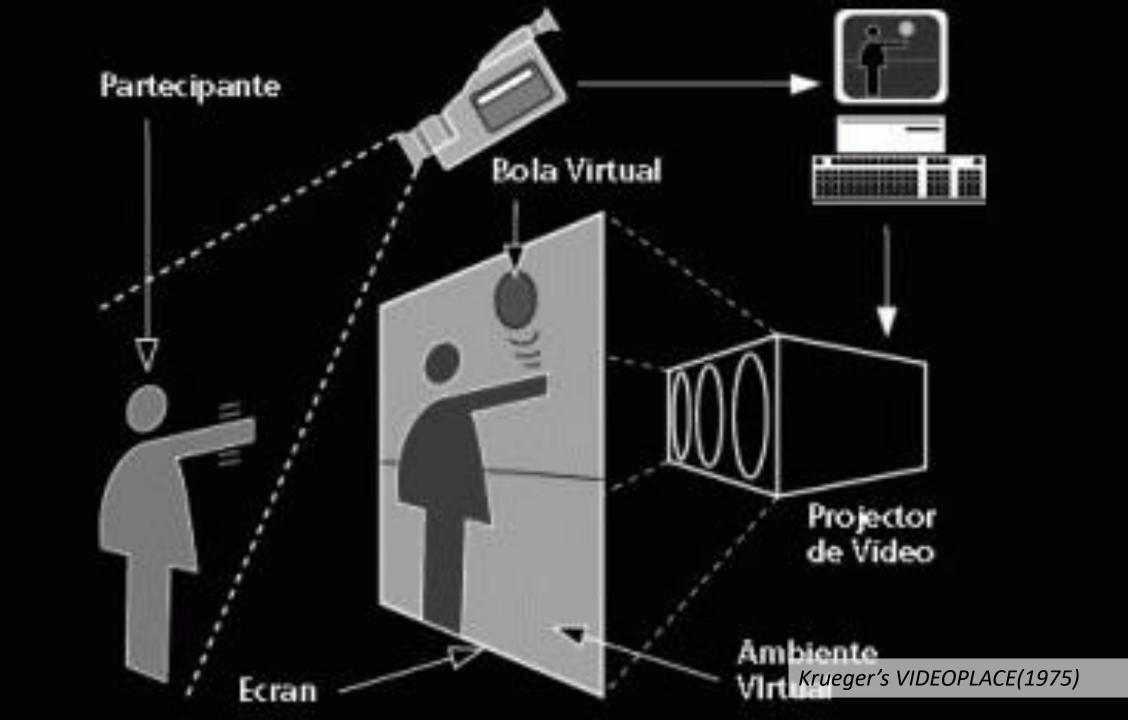
- Egocentric
- Allocentric
- Self mapping
- Navigation

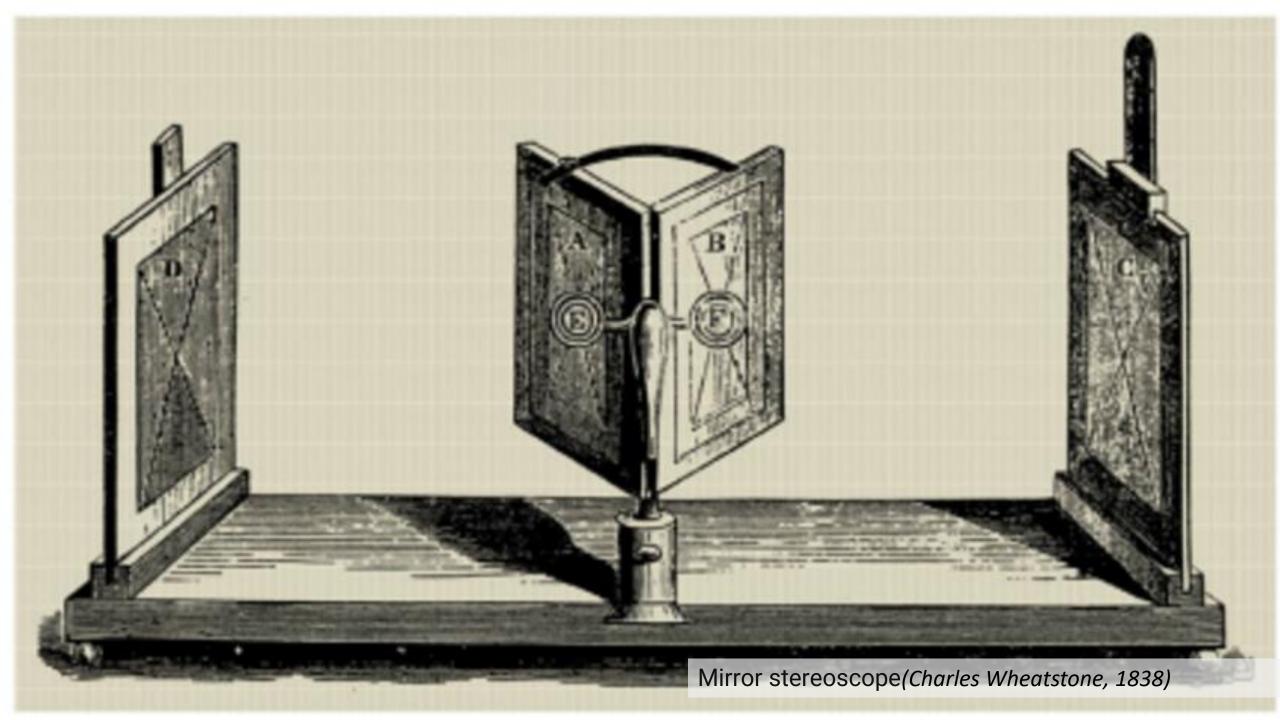
Where: Spatial Cognition

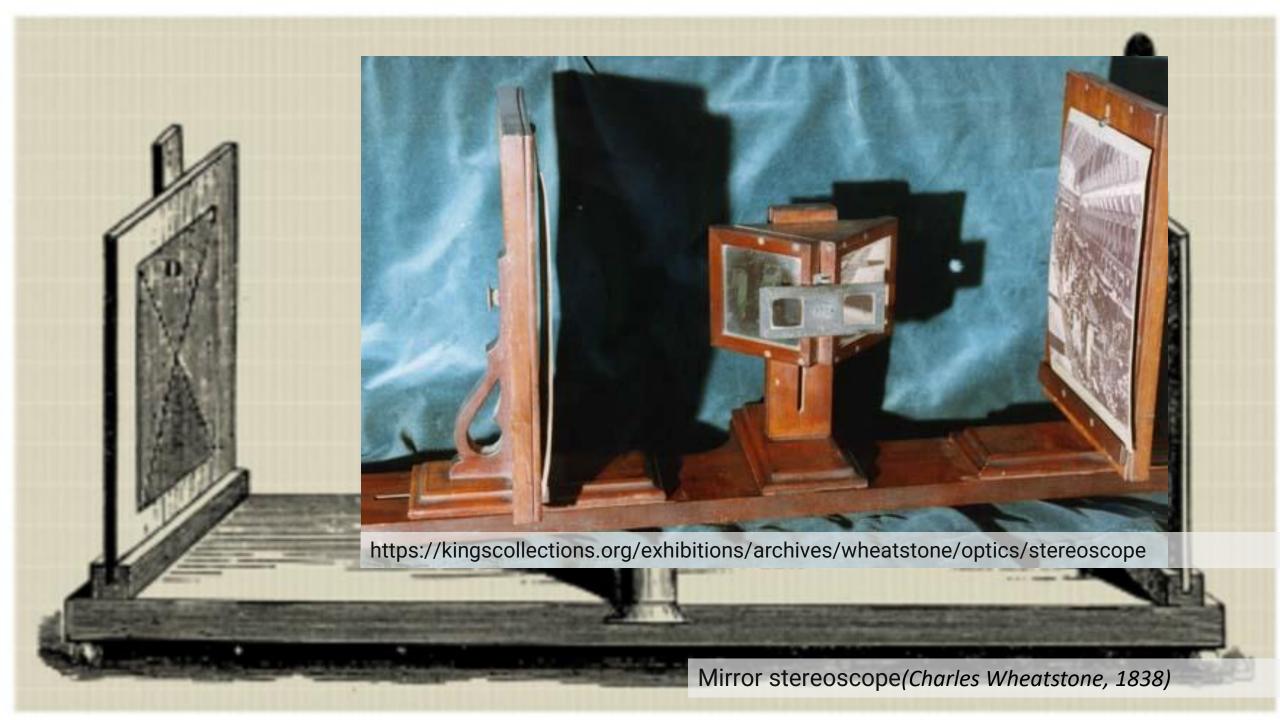
Evolution: Ultimate link between social and spatial cognition

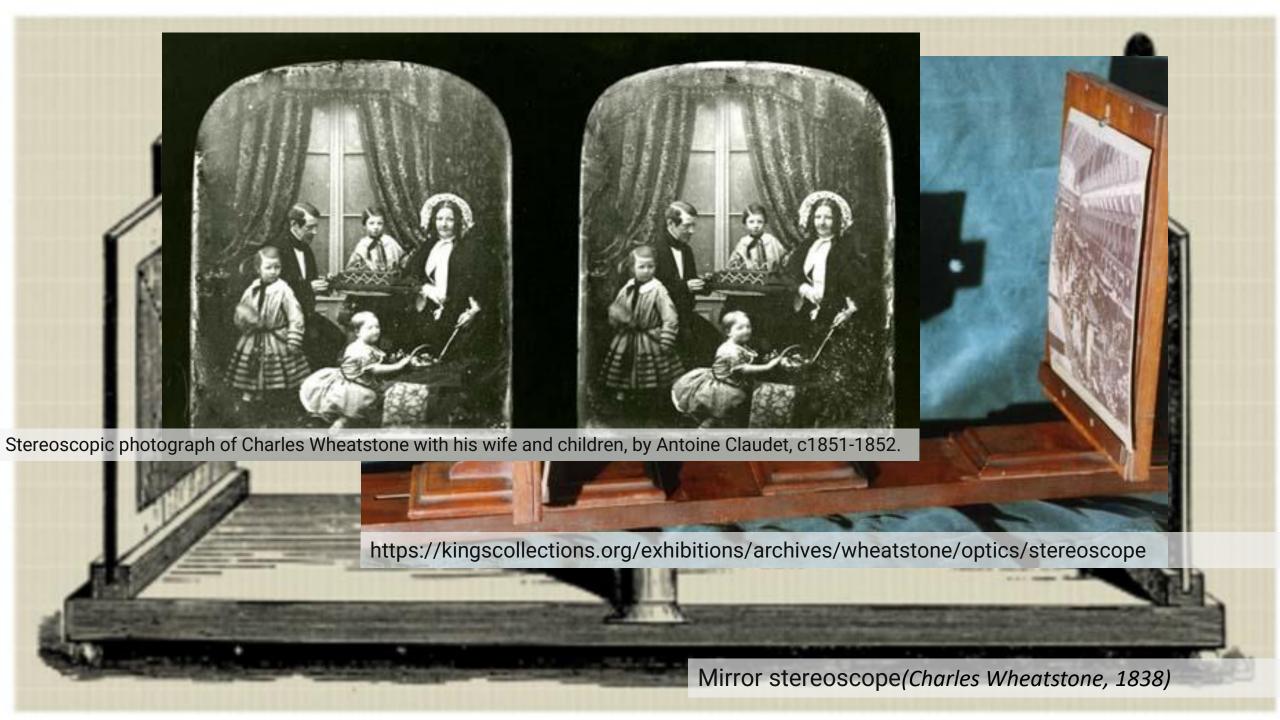


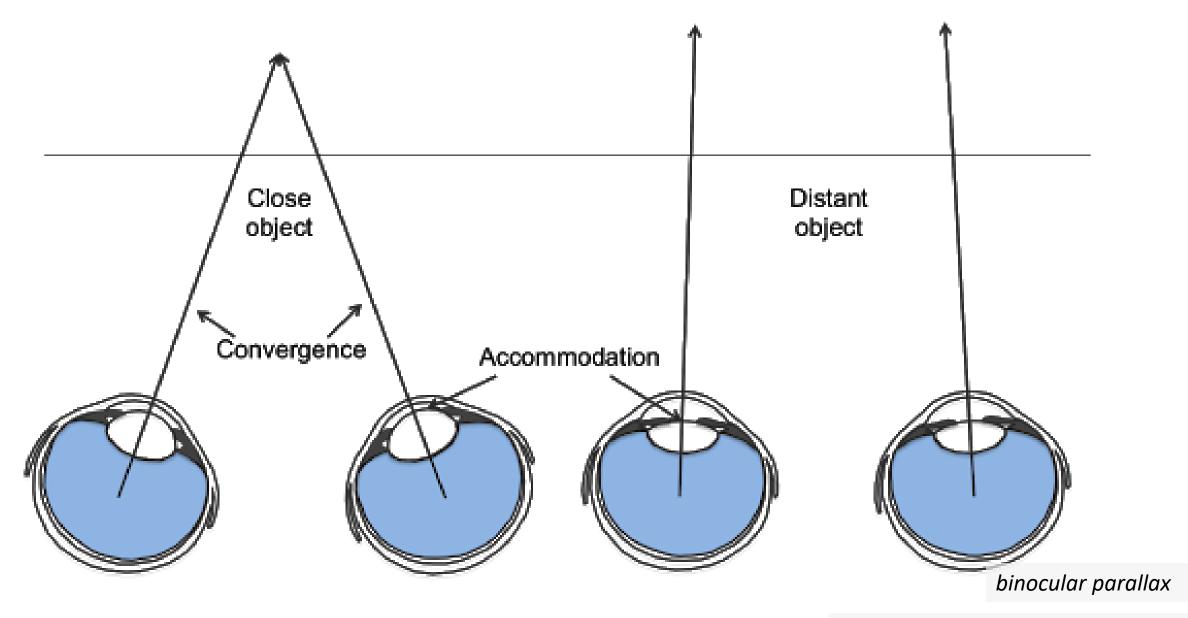






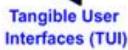






양안시차를 활용한 입체감 경험

ENVIRONMENT



A TUI uses real physical objects to both represent and interact with computer-generated information. (Ishii & Ullmer, 2001).

Using physical objects to create a virtual

model (Ichida, Itoh, & Kitamur, 2004). As

a user adds a physical 'ActiveCube' to the

construction, the equivalent virtual model

is automatically updated.



Augmented Reality (AR)

AR 'adds' computer-generated information to the real world (Azuma, et al. 2001).



'See-through' AR (either optical or video) Spatial AR

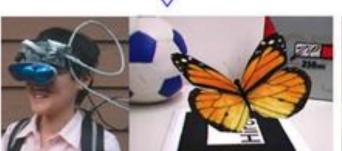
Spatial AR displays project computer-generated information directly into a user's environment (Bimber & Raskar, 2005).







The 'Bubble Cosmos' - 'Emerging Technology at SIGGRAPH'06. The paths of the smoke-filled bubbles are tracked, and an image is



A user wears a head-mounted display, through which

they can see the real world with computer-generated

information superimposed on top (Cakmakci, Ha &

Rolland, 2005; Billinghurst, Grasset & Looser, 2005).

See-through AR: the butterfly is computer-generated, and everything else is real (Fischer, Bartz & Straßer, 2006; Kölsch, Bane, Höllerer, & Turk, 2006).

Augmented Virtuality (AV)

AV 'adds' real information to a computer-generated environment (Regenbrecht, et al. 2004).

Semi-immersive VR

A semi-immersive VR display fills a limited area of a user's field-of-view.



Virtual Reality (VR)

VR refers to completely computer-generated environments (Ni. Schmidt, Staadt, Livingston, Ball, & May, 2006; Burdea & Coffet 2003):



Immersive VR

Immersive VR, which uses either a headmounted-display or a projection-based system, completely fills the user's field-of-



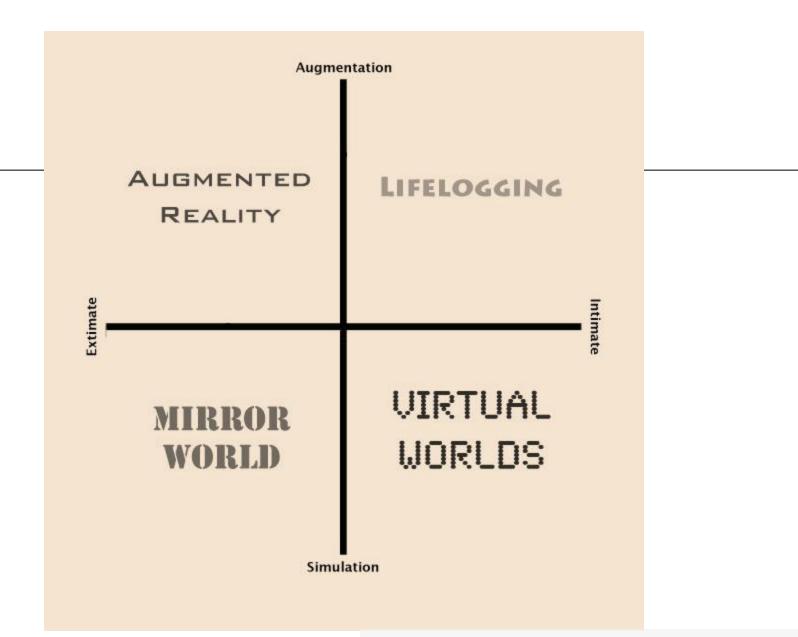


Semi-immersive VR using the Barco Baron workbench (Drettakis, Roussou, Tsingos, Reche & Gallo, 2004).



Projection-based immersive VR. The users are fully immersed in the 'CAVE' (FakeSpace, 2006; Cruz-

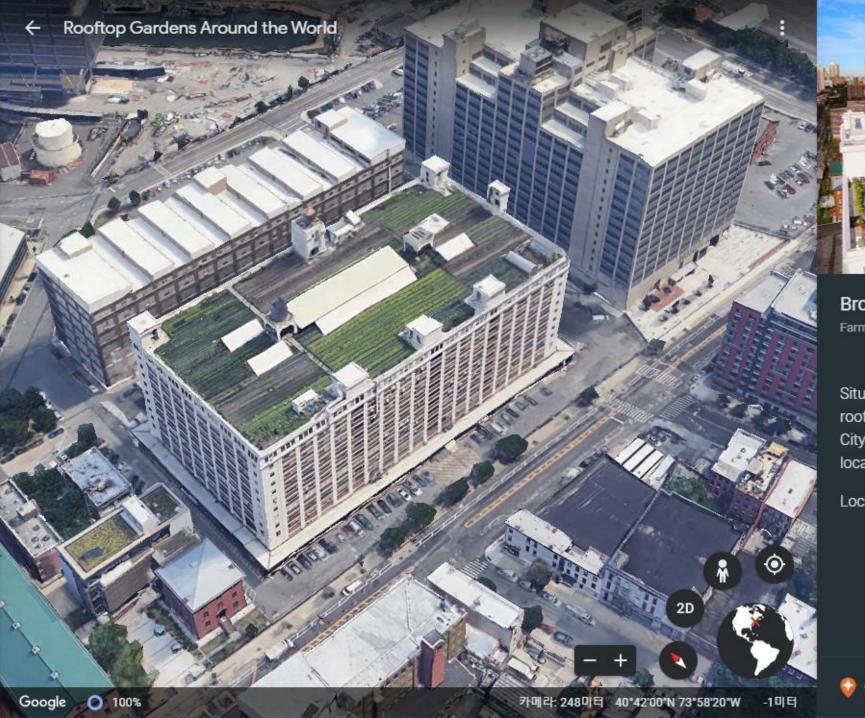
Continuum of advanced computer interfaces, based on Milgram and Kishino (1994)



현대의 가상현실

가상현실의 구분과 역사





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Brooklyn Grange

Farm in Brooklyn, New York

Situated on top of the Brooklyn Navy Yard, this urban rooftop garden and its sister rooftop garden in Long Islan City produce 50,000 pounds of organic produce per year flocal restaurants and markets.

Local Guides say:

- **17** Magical rooftop farm. Spent the afternoon in the sun planting basil and tasting honey. The staff are lovely and the views are stunning.
- Katie Glass

Google Local Guides

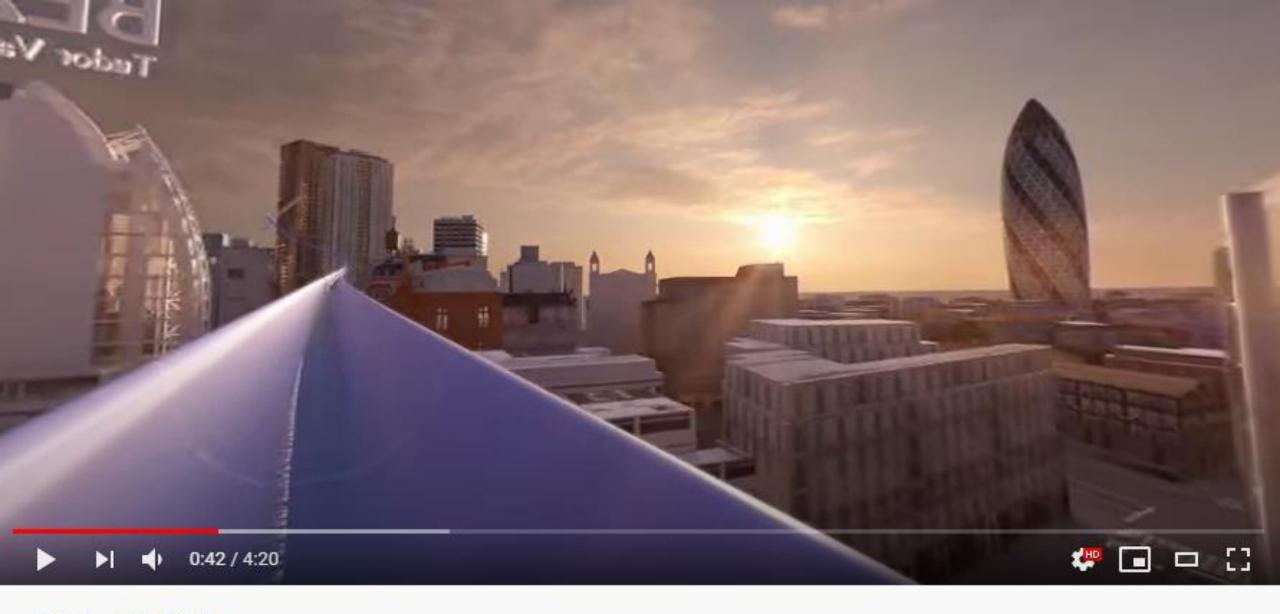
Google Earth(2005)











#360video #VR360 #VR

Best VR 360 Video 4K Virtual Reality

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360 Video(2017) 라 저장







