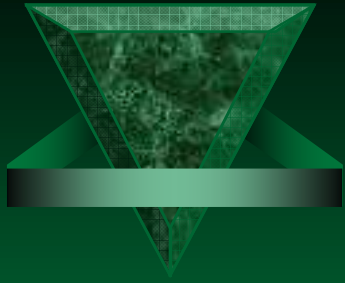




Virtual Reality

Defeats the traditional view that
fantasy is unattainable

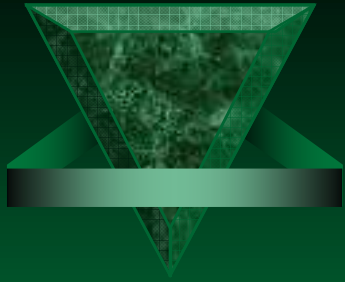


What really, virtual reality is?

- ✓ “Technology that enable users to enter computer generated worlds and interface with them three dimensionally through sight, sound, and touch” .



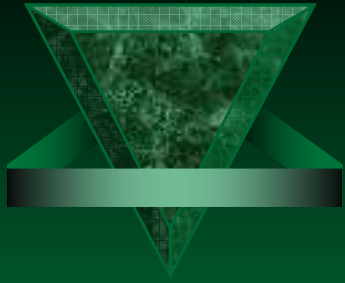
- Virtual reality is a new exploration in science and technology using advanced and complex mechanics
- Virtual reality an attempt to eliminate the difference between users and computers.



How does Virtual Reality works?

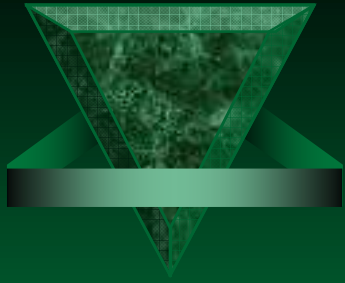
- ✔ Virtual Reality Device Recording user movements)
- ✔ This information sent to a sensitive computer.
- ✔ Modified by the computer.
- ✔ Modified information than sent back to the virtual reality headset with new (modified) graphics and sounds.





History of Virtual Reality

- ✦ First flight simulator in 1930.
- ✦ Ivan Sutherlands Contributions in the year 1965
- ✦ Modern virtual reality born in 1986 (Jaron Lanier's Contributions)



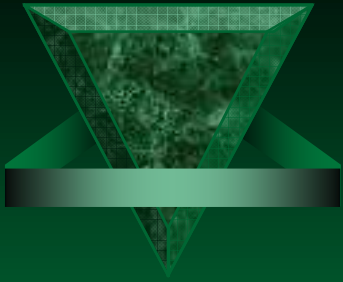
Forms of Virtual reality

✓ **Helmet with small TV screens, earphones and with a glove.**



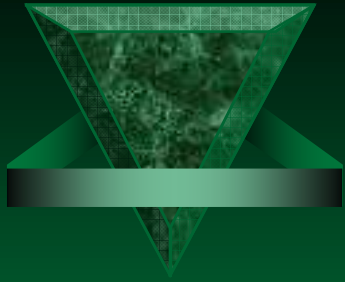
✓ **Special 3-D Glasses**





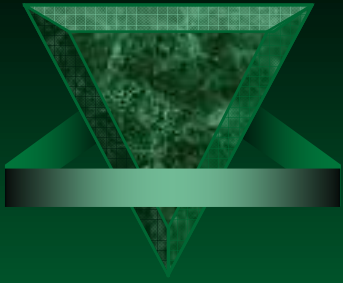
✓ A data glove used for interactions with the virtual world.





Types of Virtual Reality

- **Window On World Systems (WoW)**
Also called Desktop Virtual Reality.
- **Immersive systems**
includes a Helmet having sound and visual system)
- **Telepresence**
Links remote sensors with senses of a human operator.



✓ **Mixed Reality**

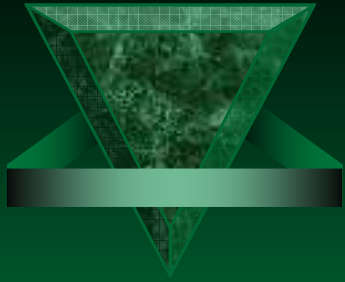
Blend of telepresence and other virtual reality systems.

Example:

Endoscopy

Ultra sound

Pilot having virtual maps in his cabin.



Uses of Virtual Reality

Business

- ✓ Trainings
- ✓ Customer Support

Innovations

- ✓ Electric plans could transform how we fly.
- ✓ Heavy metal music aimed at beat less.





Weather

- ✔ Sophistication key to clearing winter roads.

Earth and Climate

- ✔ Mechanical and aerospace engineers use satellites to trace ozone level.
- ✔ Astronomers discover changes in magnetic field of earth and moon.



Wireless

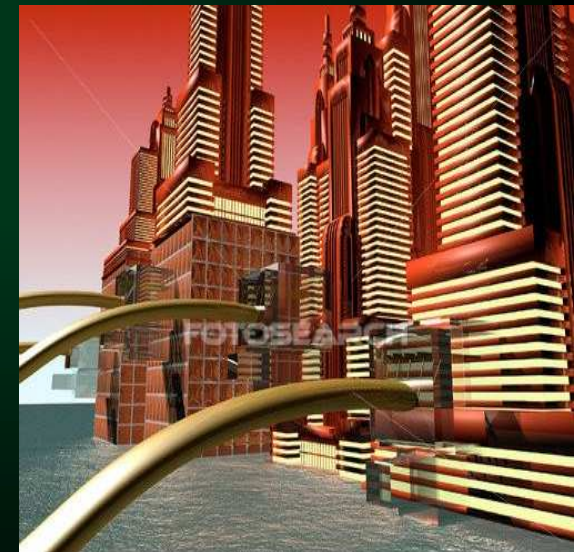
- ✔ Smart phones
- ✔ Nokia and Intel team up in phone software race
- ✔ In smart phone battle, its all about soft wares.



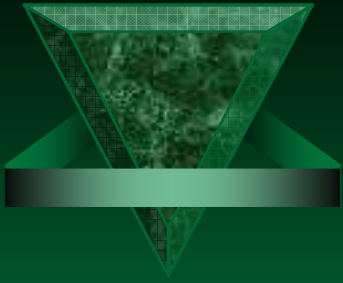
pr131003 www.fotosearch.com

Architecture

- ✔ VR is used in models of architectural .
- ✔ VR is used in reconstructing buildings and other objects.



c39-156770 fotosearch.com



Medical

- ✔ Combining images provided by other scanners and merge them to present the details using medical technologies.
- ✔ Helps the doctors to diagnose diseases without surgery.

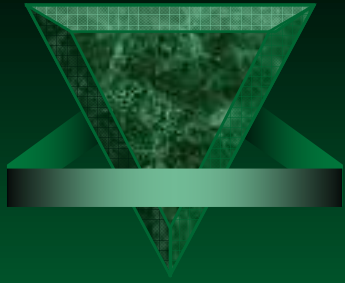
Meteorology

- ✔ Forecasters use different VR programs to process information collected from satellites and radars to create models that stimulate the predicted effects of weather.
- ✔ VR determines future outcomes of atmospheric events.

Military

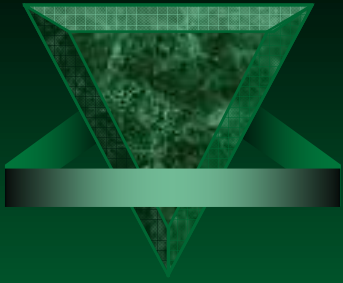
- ✔ VR used in training process
- ✔ Helps soldiers to recover from traumatic experiences by providing them real situations...





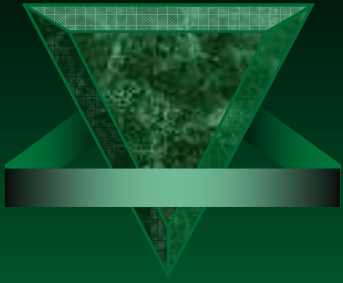
Advantages

- ✔ Substantial effect on future
- ✔ Progress on commercial designs.
- ✔ Allow users to go beyond looking at computer screen
- ✔ Users wear special 3-D glasses
- ✔ Fiber optics and electronic cables used in virtual reality device.



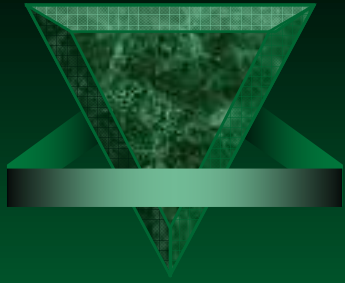
Disadvantages

- ✓ Wastage of time
- ✓ Expensive
- ✓ Virtual reality beyond basic human needs.
- ✓ Virtual Reality leading to uncertainty of world.



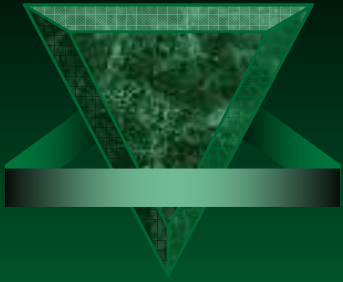
Future

- ✔ Matrix movie(Virtual Reality in 5 dimensions)
- ✔ Space applications
- ✔ Medical field....

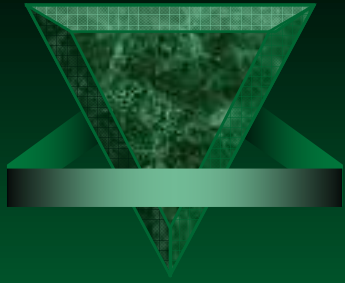


Conclusion

- ✔ VR originated as a marginal technology associated, on the one hand, with the military, and, on the other, with science fiction . It was taken up by computer companies as a product.
- ✔ . VR's appeal has largely been due to its marketing.
- ✔ It proposed a paradigm shift that computers can be "reality generators," not just symbol processors



- The VR fraternity gave a history to this technology, writing narratives which fitted VR at the apex of the historical process. To give a sense of cultural scale, they compared their technology with others, such as flight, the telephone and the printing press.
- Meanwhile it has been tried to broaden the range of areas to which the technology could be understood to apply.
- VR now has a solid infrastructure of developers, and a receptive public. This success can partly be attributed to the technology itself, but as this essay has shown, the process is more complex .

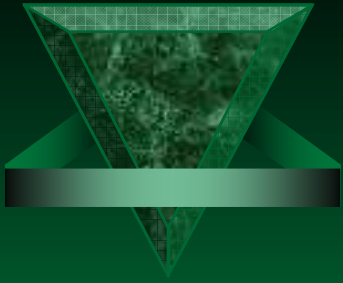


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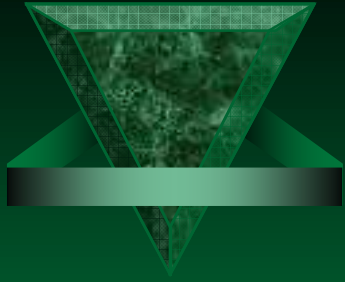
<http://archive.ncsa.illinois.edu/Cyberia/VETopLevels/VR.History.html>

<http://www-vrl.umich.edu/intro/>



Presenters

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Thanks