

INTRODUCTION:

Virtual Reality (VR) is a computer-generated environment with scenes and objects that appear to be real, making the user feel they are immersed in their surroundings. This environment is perceived through a device known as a Virtual Reality headset or helmet. Many people have already



experienced virtual reality games, and VR is of growing importance for training and education in fields like medicine, engineering, and the sciences. Some of the world's leading technology companies — including Microsoft, Sony, Google, Facebook, Apple, and Samsung — are spending heavily to develop VR equipment and applications.

DEVICES OF VR :

Valve Index: A headset that can Oculus Rift S: A headset to be HTC Vive / HTC Vive Pro be plugged into a computer and plugged into a computer and A headset that can be plugged is equipped with a remote equipped with a remote control into a computer and is equipped control allowing you to move that allows you to move around with a remote control allowing around in a large room virtually. in a narrow area virtually. It is you to move around in a large This headsets provides higher ergonomic and can be set up room virtually. The primary uses frame rate and wider field of rather fast, mainly for games are games and 3D graphics view than competitors. HTC and 3D graphics applications. applications. Price: Vive and Valve Index use the Oculus Rift S is an advanced Approximately 600 €, requires a technology, so their version of a "regular Rift" that is powerful computer. same remote controls and base no longer sold stations can be combined

HTC Vive / HTC Vive Pro

The prototype revealed at GDC'15 included an OLED 1920 × 1080 pixel display (providing 960 × 1080 pixels resolution per eye) with an RGB subpixel matrix, and is capable of displaying content at 120fps. It features an FOV of 100°, stereoscopic 3D, and unwarped output to a TV, either for others to view what the headset wearer sees, or a separate display to compete



Areas where Virtual Reality is being used

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