



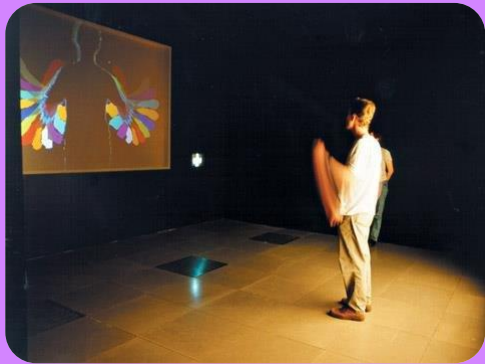
History







1962 – Morton Heilig
Created Sensorama



1970s – Myron
Krueger
Created VideoPlace



1965 – Ivan Sutherland
The Ultimate display



1991 – Virtual Group
Vr arcade games

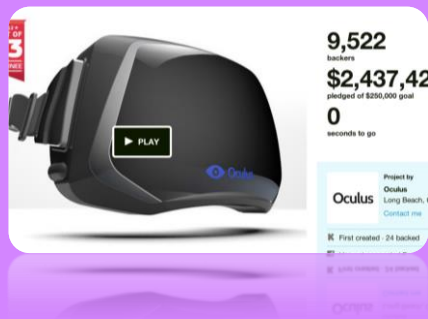


1995 – Nintendo Visual Boy
Head mounted display

1999 – The Matrix
Inspired many to invest in VR



2012 - Oculus



The background features a series of concentric, semi-transparent rings in shades of blue and green, creating a sense of depth and movement. The rings are centered around the text.

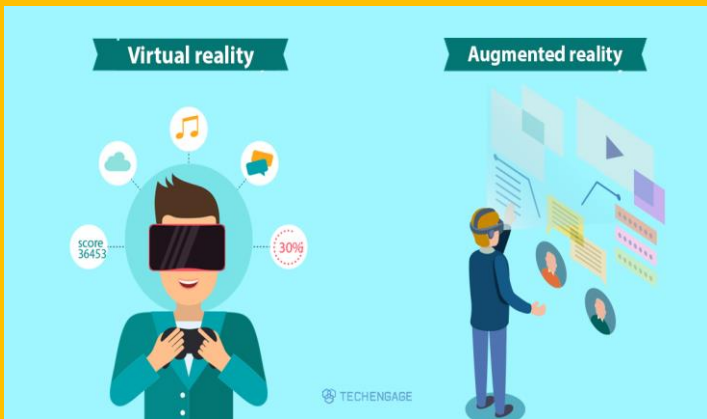
What is Virtual Reality?



Virtual Reality (VR) is a synthetic, 3D technology that has a 3D sense of sight and sound



VR is seen through a headset and controlled through wheels, joysticks, hand controls, etc.



“In augmented reality (AR) environments, users experience the physical environment and other users directly along with mediated virtual objects embedded in the environment. In immersive virtual reality (VR), users experience of a visual environment (and sometimes other senses) is completely mediated.”

-People About Virtual Places: A Qualitative Perspective

VR Hardware Available



The Valve Index



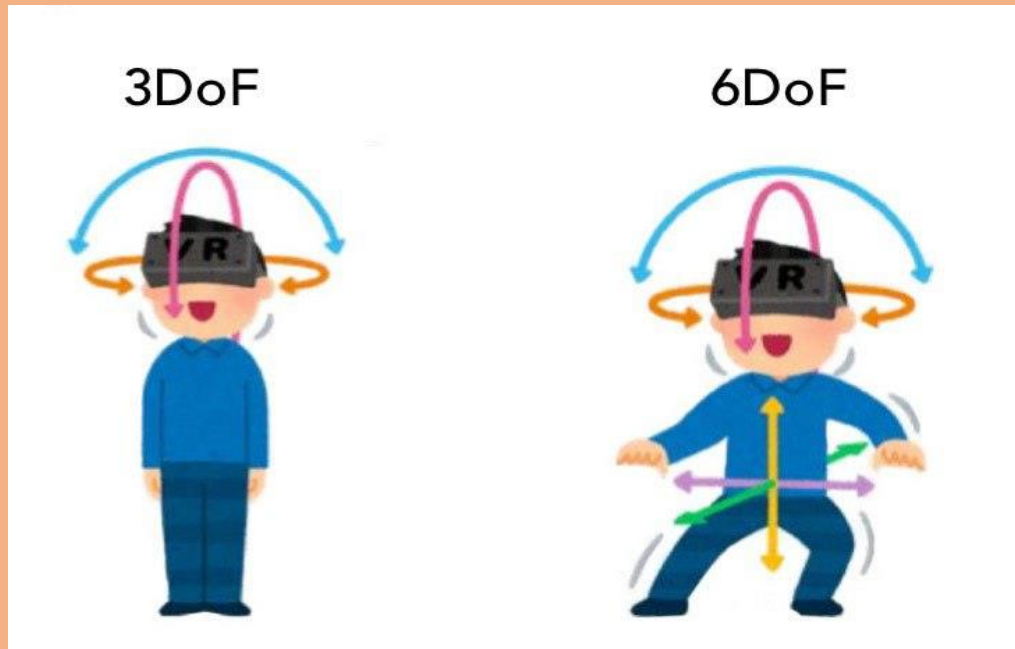
The HTC VIVE



The PlayStation VR

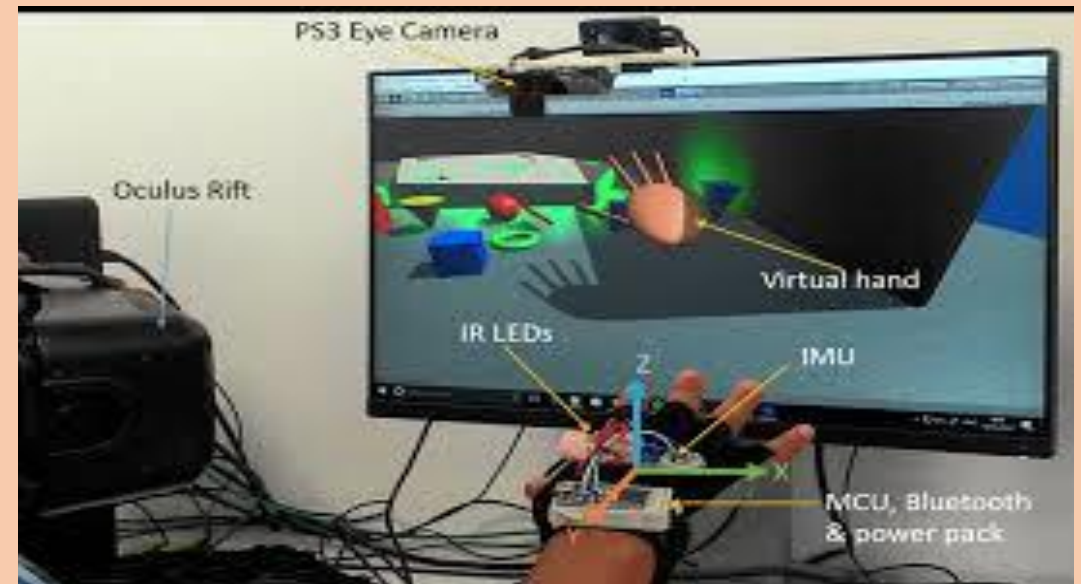
The background features a large, stylized circular graphic composed of multiple concentric rings. The rings on the left are in shades of blue, while the rings on the right transition into shades of green. The overall effect is a modern, abstract design that frames the central text.

How does VR work?



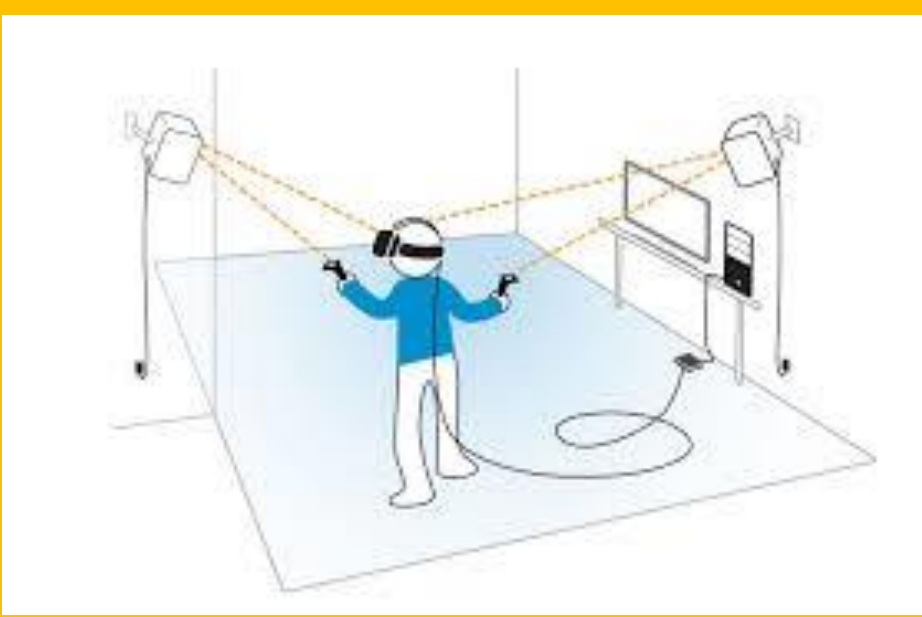
Most modern VR systems allow 6 degrees of freedom enhancing immersion and truly making the experience feel real. Immersion is the most important element.

The most commonly used way to track for VR is optical devices that use lasers and cameras to position and orientate the user in the virtual world.



The background features a large, stylized circular graphic composed of multiple concentric rings. The rings on the left are in shades of blue, while the rings on the right transition into shades of green. The center of the graphic is a solid light gray, providing a backdrop for the text.

How to use VR



VR is relatively easy to set up needing some small dedicated space for movement and mobility.

Having controllers and headset isn't enough needs to be plugged to a console, PC or mobile device.



An abstract graphic featuring two concentric rings. The left ring is blue and the right ring is green, both with a slight 3D effect. They are set against a light gray background.

Controls



Virtual reality controls depends on it's purpose, a flight sim would have controls similar to an actual cockpit.

Modern VR systems include a head-mounted-headset and hand controls with buttons and triggers that have can

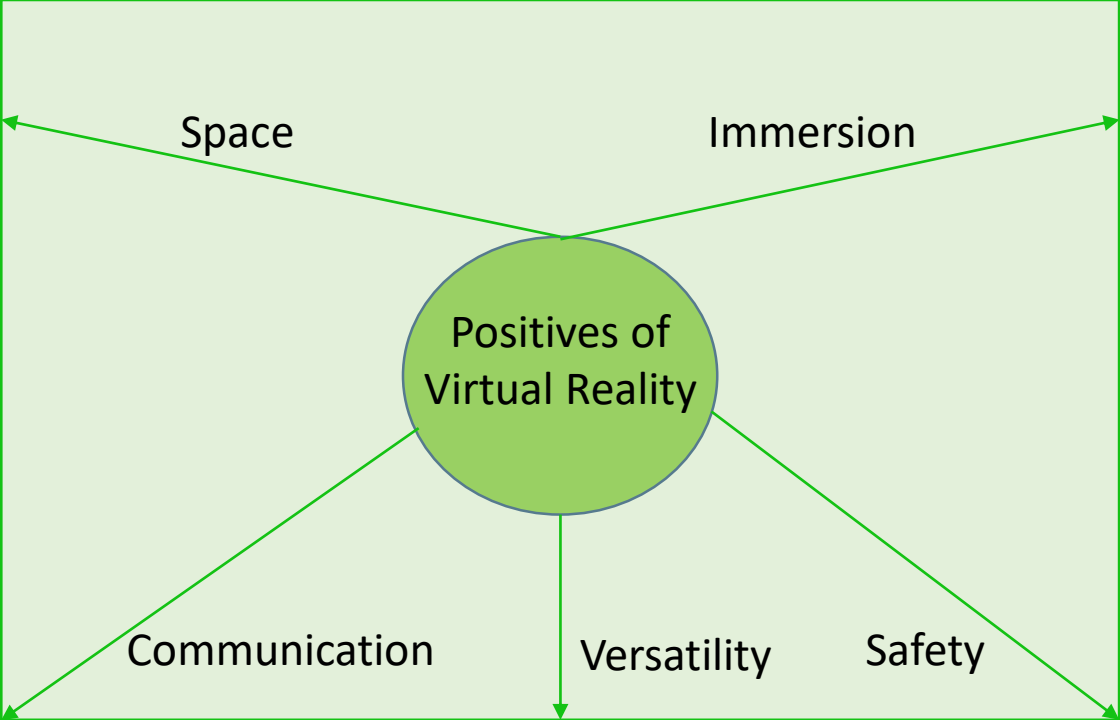




Pros of Virtual Reality



Compact, room-sized



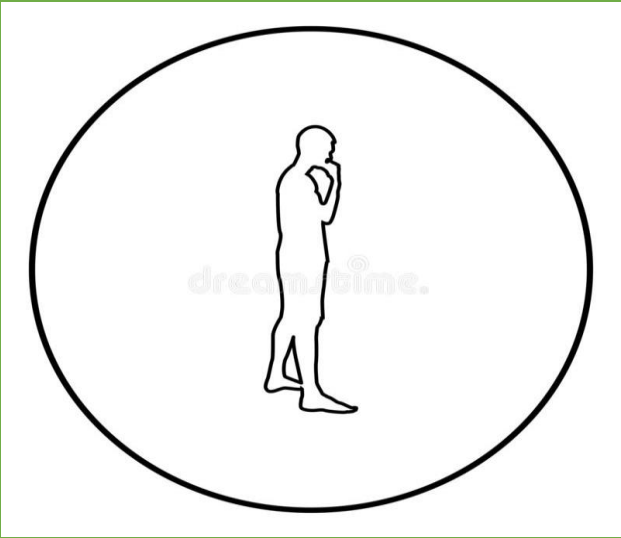
Captivating, Engaging



Meetings, Presentations,
Interviews



Video Games, Medicine, Military training,
Firefighter training, Education, etc.



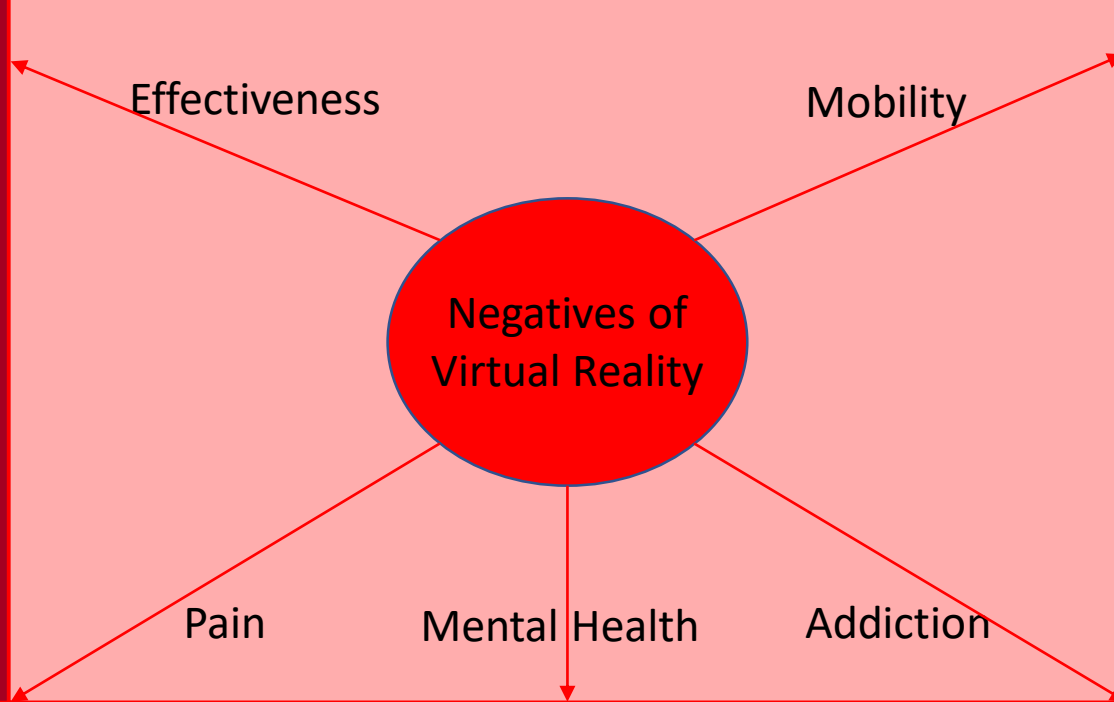
Secure, safe, controlled
environment



Cons of Virtual Reality



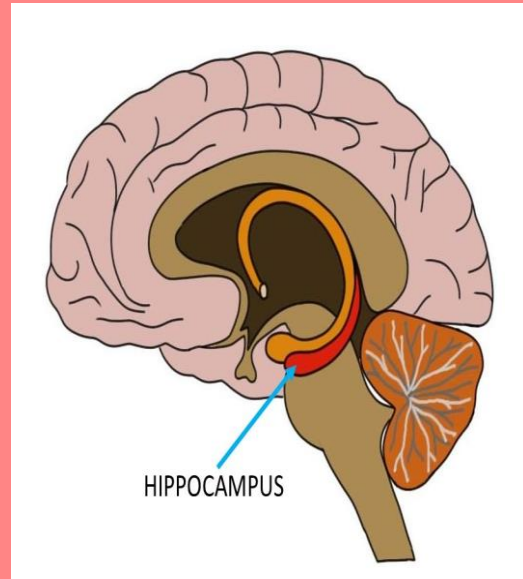
Not the truest experience,
Unrealistic



Leg movement underdeveloped,
Requires complex rigs to achieve



Headband cause pain,
Uncomfortable for long periods



Causes nausea, dizziness and motion sickness
VR affected Lab rat's Hippocampus



Dangerously addictive,
Detached from reality



Future



Pimax 8k Headset

Provides a more captivating experience, but requires a very powerful processor.



Development in 5G

VR could potentially receive images in real time



KAT VR

Complete control over lower body



Vr Gluv
Haptic gloves



Tesla Suit
Full body haptic suit, not easily available to the public yet



Future VR headset
It is hoped that VR headsets will be light and easy to ignore when wearing them.

Images Sources history/future

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Image Sources: How does VR work?

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