Basic VR knowledge

MODULE 2 - Unit 1- Master class

ALL REALITIES

VIRTUAL REALITY

- Virtual Reality (VR) is the use of computer technology to create a simulated environment.

- Instead of viewing a screen in front of them, users are immersed and able to interact with 3D worlds.

- Enables the user, through the use of a VR viewer, to immerse themselves in three-dimensional scenarios.

VIRTUAL REALITY

● By simulating as many senses as possible, such as vision, hearing, touch, even smell, the computer is transformed into a gatekeeper to this artificial world.

VIRTUAL REALITY

VIRTUAL REALITY EXAMPLE:

-Boxing with VR:

https://www.youtube.com/watch?v=vpFUjk6P06

0&ab_channel=SergioSCç

AUGMENTED REALITY

- With the augmented reality, the vision of real space is maintained but adding enriched information (3D elements, sounds, pictures, videos or other type of information) to the real reality.
- This information will be activated when certain "marks" are detected, with the aim of visualizing with our device (this could be physical marks, GPS data or space scan)
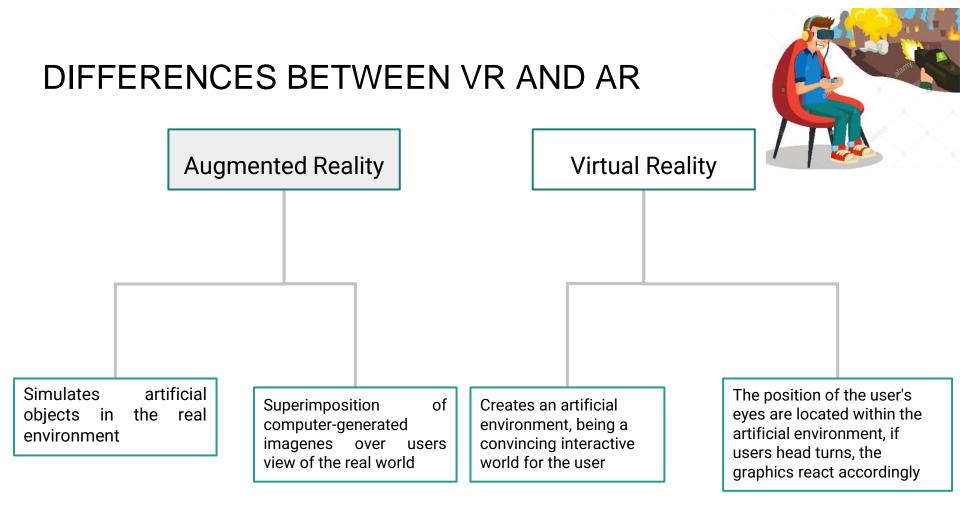
AUGMENTED REALITY

AUGMENTED REALITY EXAMPLES -
Restaurant menu.
https://www.youtube.com/watch?v=R2XlTlv
DnSM&ab_channel=neosentec

DIFFERENCES BETWEEN VR AND AR

Augmented Reality

Virtual Reality

Simulates artificial objects in the real environment

Superimposition of computer-generated imagenes over users view of the real world

Creates an artificial environment, being a convincing interactive world for the user

The position of the user's eyes are located within the artificial environment, if users head turns, the graphics react accordingly

MIXED REALITY

- Mixed Reality is not just about adding virtual elements to the real reality, as it happens in augmented reality.

- This is about mixing "different realities", creating new scenes, where the real and virtual objects come together on the same plane, interacting one with each other in real time
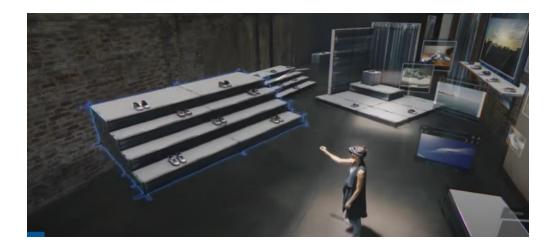
MIXED REALITY

MIXED REALITY EXAMPLE:
Windows mixed reality

https://www.youtube.com/watch?v=2MqGrF6JaOM&ab_channel=Windows

MIXED REALITY

MIXED REALITY

REALITY   AUGMENTED REALITY (AR)   VIRTUAL REALITY (VR)

THANK YOU
GRACIAS
DANKESCHÖN
GRAZIE
MERCI
ESKERRIK ASKO