

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
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КАФЕДРА ІНОЗЕМНИХ МОВ
ЛІНГВІСТИЧНИЙ НАВЧАЛЬНО-МЕТОДИЧНИЙ ЦЕНТР

МАТЕРІАЛИ ІХ МІЖВУЗІВСЬКОЇ
НАУКОВО-ПРАКТИЧНОЇ КОНФЕРЕНЦІЇ
ЛІНГВІСТИЧНОГО НАВЧАЛЬНО-МЕТОДИЧНОГО ЦЕНТРУ
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“TO MAKE THE WORLD SMARTER AND SAFER”

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THE TECHNOLOGIES OF VIRTUAL REALITY

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Virtual Reality is a simulated environment that can imitate real or imagined world, recreating sensory experience: sight, sound, touch, taste and smell. The technology of virtual reality is constantly in progress. In 1860's was invented one of the first examples of virtual reality – 360-degree art through panoramic murals. Nowadays the amount of different devices strikes the imagination.

The most of virtual reality environments are displayed on special screens (but it also can be a usual computer screen). This simulation includes sight and sound information, some advances have tactile information. Also in these latter days was appeared a head-mounted display, a 3rd Space Vest, systems of motion capture, eyetracking, wired gloves, 3d controllers etc.

There are plenty of fields where people can use the technology of virtual reality. Heritage and archaeology, education, art, games, music, therapy, training, design – we can find application of virtual reality for all of these departments of life.

Objects of virtual reality usually act like analogic objects of real world and user can affect them in agreement with the real laws of physics: gravitation, water characteristic, contact, friction, reflection etc. Nevertheless, for entertainment purposes it also provides an opportunity to do more that is possible, for instance, flying.

The most popular realization of virtual reality is the “Second Life” – online virtual world with elements of social network that have more than one million active users.

Summing up all of the above, we can say without doubts that the technologies of virtual reality have a great potential. It progresses very fast; many IT-specialists predict that in a few years it will penetrate into all spheres of life. Regardless of whether they are right or not, virtual reality is probably one of the most amazing information technology of contemporary life.