Haptic Technologies

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What are Haptic Technologies?

Haptic technologies refer to technology that allow users to have a sensation of touch by applying forces and vibrations to the user. This type of mechanical stimulation may be used in aid for creation of virtual objects.
Examples of Haptic Technologies

- Virtual Reality
- Robotics
- Medicine
- Games
- Robotics
- Arts & Design
Virtual Reality and Games

- Sensations of feelings can be felt during game play. (Includes pain)

- Video game application aid in the training of the army and police so that they are able to cope in high risk situations.

U.S. Navy personnel using a Virtual Reality parachute trainer.
Medicine

- Haptic technology enables Doctors/Surgeons to train under virtual reality simulations which is similar to real life situations.
- Useful for new or inexperienced doctors/surgeons.
Robotics

- Haptic technologies create robots to be more human like. (ie. They have feelings and emotions)
Art and Design

• Haptic technologies in the art and design field allows the user to manipulate things by the touch screen method.
• Moving, resizing or rotating objects can be done by a touch on the screen.
Reference

- All pictures from google images (except for the one on virtual reality and games page)