



Computer Science

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Lessons in Computer Science

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Outline

- **What are Input/output Devices?**
- **List of Input Devices**
- **List of output devices**



What are Input/output Devices?

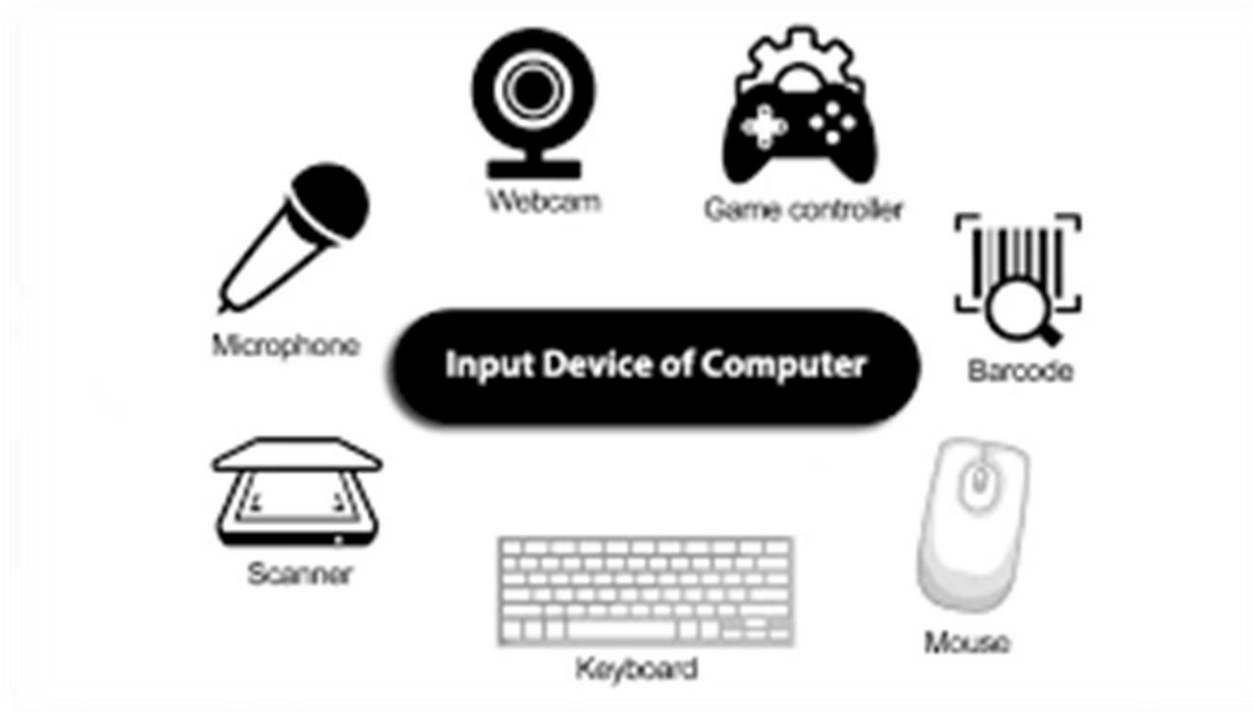
Input/output (I/O) devices enable communication between the user and the computer. There are actually three classifications of I/O devices you can use to:

- • send information to the computer, e.g., the keyboard, mouse, trackball or scanner
- • display/transmit information from the computer, e.g., monitor, printer, or speakers
- • communicate between computers, e.g., modems and networks



Input Devices

A piece of equipment/hardware which help us enter data into a computer is called an input device. For example keyboard, mouse, etc.



List of Input Devices

Keyboard

Keyboard is the most common and very popular input device which helps to input data to the computer. The layout of the keyboard is like that of traditional typewriter, although there are some additional keys provided for performing additional functions.



List of Input Devices

Mouse

Mouse is the most popular pointing device. It is a very famous cursor-control device having a small palm size box with a round sensor at its base, which senses the movement of the mouse and sends corresponding signals to the CPU when the mouse buttons are pressed.



List of Input Devices

Joystick

Joystick is also a pointing device, which is used to move the cursor position on a monitor screen. It is a stick having a spherical ball at its both lower and upper ends. The lower spherical ball moves in a socket. The joystick can be moved in all four directions.



List of Input Devices

Microphone

Microphone is an input device to input sound that is then stored in a digital form, The microphone is used for various applications such as adding sound to a multimedia presentation or for mixing music.



List of Input Devices

Light Pen

Light pen is a pointing device similar to a pen. It is used to select a displayed menu item or draw pictures on the monitor screen. It is light sensitive



List of Input Devices

Scanner

Scanner is an input device, which works more like a photocopy machine. It is used when some information is available on paper and it is to be transferred to the hard disk of the computer for further manipulation.



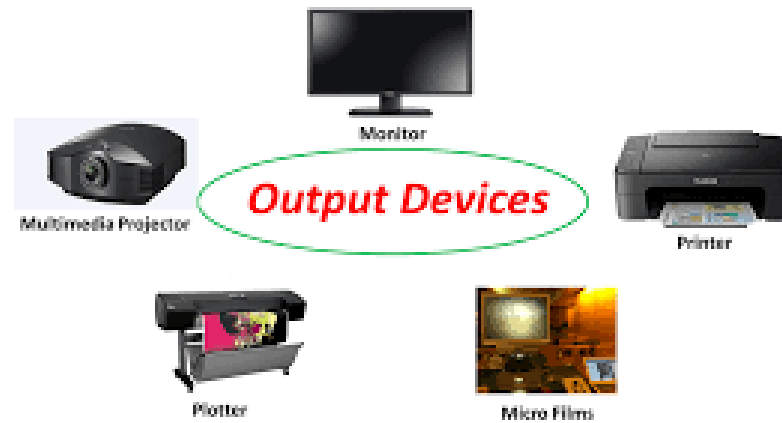
List of Input Devices

Bar Code Reader is a device used for reading bar coded data (data in the form of light and dark lines). Bar coded data is generally used in labelling goods, numbering the books, etc. It may be a handheld scanner or may be embedded in a stationary scanner.



Output Devices

An output device is a computer hardware device that retrieves and presents the result of the inserted input data from the computer system and further translates that data into human-understandable language. The output or result is then presented to us in the form of text, visuals, audio or a hard copy (printed on paper)



List of Output Devices

Monitor

The most general example of an output device is a monitor. It is also known as a Visual Display Unit (VDU) and the major function of a monitor is to display the processed data like images, videos, text, audio, etc.

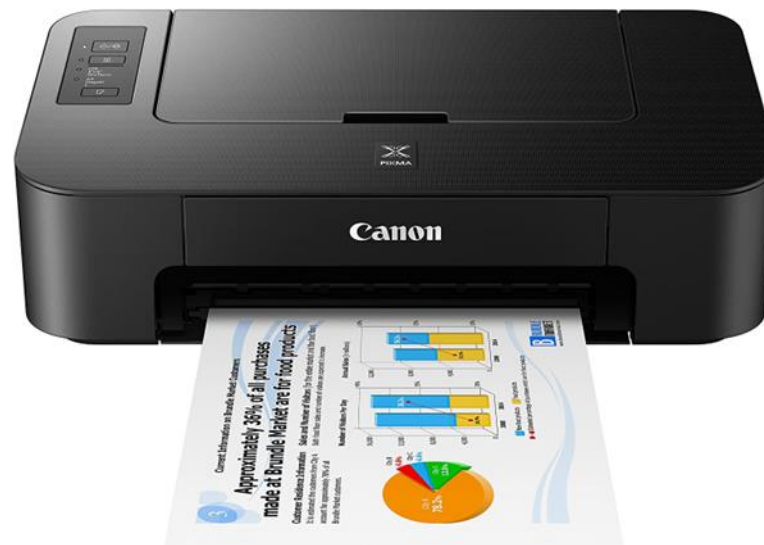


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List of Output Devices

Printer

Printers are another common example of Output devices. Printers primarily operate by producing a copy, typically a hard copy of the information transmitted by the computer. The printer receives electronic data from the computers and produces a hard copy of the processed data.



List of Output Devices

Speakers are the output devices that are connected to computers to allow sound to be output. For the working of speakers, sound cards send signals to the speakers which are converted into audio. Speakers are available in a variety of shapes and sizes ranging from simple two-speaker output devices to surround-sound multi-channel sets.



List of Output Devices

Projector

The projector is an output device that receives images from a computer and allows users to project their output onto a large area, such as a screen or a wall. The computer first sends the signal to a video card which then transmits the signal to the projector to project the images on the surface. Projectors magnify texts, photos, and movies using light and lenses. As a result, it's an excellent output device for giving presentations or teaching big groups of people



List of Output Devices

Headphones

Headphones are the output devices that help us listen to the audio coming out of a computer. With the help of headphones, we can listen to the audio privately and without disturbing anyone around. These come in various sizes and brands and can be connected with computer systems both wired or wirelessly.



Thank you

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