Overview

What a computer does Image files
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Text files
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1. Basic Computer Concepts and Terms Overview

A computer is a machine that can follow commands. Because a computer can follow commands, it can produce many different forms of information. These information forms include words, numbers, images, graphics, and sounds.

This part is about what a computer does, basic computer terms, and the kinds of information that a computer can process.

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1. Basic Computer Concepts and Terms

What a computer does Data Data **Data** Input **Processing** Output \rightarrow A computer produces information in three steps: Words Add Documents Information Databases Delete Numbers Copy Spreadsheets 1. Data Input: The computer **Images** Save Photographs is given data (information in Graphics Join Pictures a form that the computer can Sounds Print Recordings

- 2. Data Processing: The computer is given commands that tell it what to do with the data.
- 3. Data Output: The computer displays the results of following these commands.

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Basic computer terms

Data: Information given to the computer in a form that the computer can process. Examples: numbers, words, sounds, images

Hardware: All the parts of the computer that you can actually see and touch. Examples: keyboard, monitor, computer cabinet

Computer Program: A set of commands that tell a computer how to process data. For the personal computer, there are several types of programs:

Application Programs: Used to process a specific kind of

data.

Examples: Microsoft Word, Microsoft Excel

Operating Systems: Used to run application programs. Examples: Microsoft Windows, Linux, Mac OS

Utility Programs: Used to protect and maintain the operating system.

Example: Norton Utilities

Communication Programs:

Used to communicate with
other computers.

Example: Microsoft Internet

Examples: Microsoft Internet Explorer, Microsoft Outlook, AOL Instant Messenger

Programming Language: A vocabulary and set of grammatical rules for writing computer commands.

Examples: BASIC, C++, Java

Software: Anything that can be stored electronically by a computer. Software usually refers to computer programs but can also refer to data.

User Interface: The things you touch and look at in order to communicate with a computer.

Examples: keyboard, mouse, moni-

tor

Data File: A collection of data that has been given a filename, a unique name that distinguishes one file from another and identifies what kind of data the file contains.

Examples: story.doc, bird.jpg,

noise.wav

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Data file types

These are some common filename extensions:

Data files contain the information that a computer .exe needs to process and display .txt a specific output such as a .log letter, a photograph, sounds, .doc or an application program. .jpg There are several different .bmp file types that are identified .gif by filename extensions, let-.ai ters that are attached to the .psd end of the filename. The .wav file type identifies the kind .mpg of program that is needed to .avi view and do work on the file.

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Program files

Files that have an .exe extension are computer program files, commonly called "programs." Programs respond to your commands in order to create an output such as a document or a picture.

For example, after you use Microsoft Windows to open Microsoft Word, you can use Word to write a letter.

A computer operating system (such as Windows) is a special program that allows you to run other programs.

After you open a program file with the operating system, you can use the program to create some form of information.

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Text files

Some common text file extensions are .txt, .log, and .doc. If you open a file with one of these extensions using an appropriate program, such as Microsoft Word, you will see a text document such as a book, letter, or report.

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Image files

Images that are input into a computer from a digital camera or scanner can have a number of different extensions such as .jpg, .bmp, or .gif.

If you open a file with one of these extensions using an appropriate program, such as Microsoft Photo Editor, you will see an image.

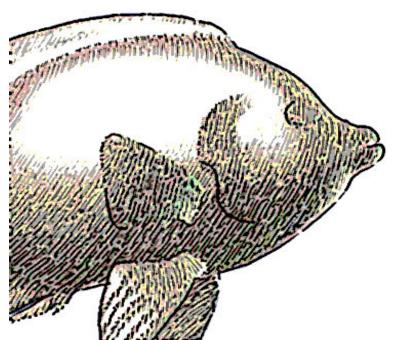


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1. Basic Computer Concepts and Terms **Graphics files**

Graphics that are input into a computer using a mouse or graphic tablet usually have file extensions that identify the program that was used to create the graphic file.

Adobe Illustrator files, for example, use the extension .ai. Because graphics, like images, are seen, they can also be saved as image files.



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Sound files have extensions such as .wav or .mpg. If you open a file with one of these extensions using an appropriate program, such as Windows Media Player, you will hear a sound.

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Video files often use the extension .avi. If you open a file with this extension using an appropriate program, such as Windows Media Player, you will see a video.

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