

Computer Basics

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There are many types of computers including:

Types of Computers

- ❑ Supercomputers...are used to process very large amounts of information including processing information to predict hurricanes, satellite images and navigation, and process military war scenarios.
 - ❑ Mainframes...are used by government and businesses to process very large amounts of information.
 - ❑ Mini-Computers...are similar to mainframes...they are used by business and government to process large amounts of information.
 - ❑ Personal Computers (PC)...
-

Types of Computers

□ Personal Computers (Continued)

Personal Computers...also known as PC's...are smaller and less powerful than the others. They are used in homes, schools, and small businesses.

Types of Computers

There are 3 main types of PCs

- Desktop
- Portable (Notebook/Laptop)

When portable (notebook/laptop) computers were first created they were HUGE. They weighed around 100 lbs., and were carried in a large luggage suitcase. The creators of the portable (notebook/laptop) computer dreamed that one day it would be the size a notebook or pocket dictionary. With today's technology, we have been able to accomplish this goal and more..

- Hand-Held



Networks

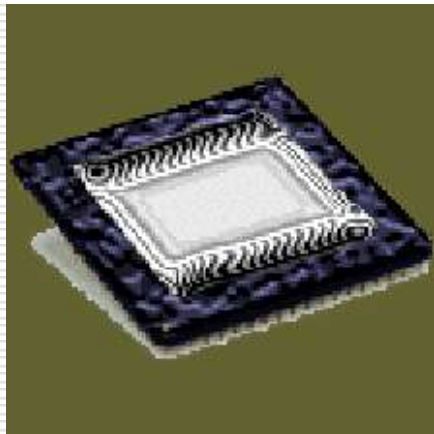


- ❑ A network is a group of computers that share information and hardware.
 - ❑ The computers are connected together using copper phone wires, fiber optic cables, or radio waves.
 - ❑ Our computers are on a network here at school...Look under the table and see the blue wires that connect your computer to the network.
 - ❑ The internet is many networks around the world that are all connected together to make 1 huge network.
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Parts of a Computer

- There are two basic parts that make up a computer...

Hardware



Software



Hardware

- Hardware is basically anything that you can touch with your fingers.

Computer Case

CPU (central processing unit...Pentium chip)

Monitor

Keyboard & Mouse

Disk Drive, Zip Drive, CD-ROM, DVD,

Hard Drive

Memory (RAM)

Speakers

Printer

Hardware (Continued)

- There are three types/categories of hardware
 1. Input Devices
 2. Output Devices
 3. Storage Devices



Input Devices

- Input basically means getting data into the computer to be processed.

Keyboard, Mouse,
Trackball, Touch Pad
Light Pen, Laser Scanner,
Pointing Stick
Touch Screen,
Bar Code Reader, Scanner
Microphone, Joystick



Output Devices

- Output basically means getting data out of the computer.

Monitor

Printer

Speakers

Headphones

Modem

Fax



Storage Devices

- Storage devices are both input and output devices in one. A storage device is a place to keep data that has been processed so that it can be retrieved at a later time to be used again.

Hard Disk

Floppy Disk

CD's, DVD's

Magnetic Tape

Flash Memory, Jump Drive

Software

- ❑ Software is the programs and applications that tell the computer what to do and how to look.
 - ❑ Computer programmers write the codes/instructions that make-up software applications/programs.
 - ❑ HTML is a type of computer programming language that allows programmers to make web pages.
 - ❑ The next 2 slides show what HTML codes look like and the web page the codes produce.
-

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<!--This file created 11:48 AM 11/27/01 by Claris Home Page version 3.0-->
<HEAD>
  <TITLE>CMS Home Page 2001</TITLE>
  <META NAME=GENERATOR CONTENT="Claris Home Page 3.0">
  <X-CLARIS-WINDOW TOP=0 BOTTOM=463 LEFT=0 RIGHT=788>
  <X-CLARIS-TAGUIEW MODE=minimal>
</HEAD>
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BORDER=0 ALIGN=left></P>
    </TD>
    <TD ALIGN=center WIDTH="70%">
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X-CLARIS-USEIMAGEHEIGHT ALIGN=bottom><BR>
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ALIGN=bottom></P>
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<!-- LEFT SIDE --> <TABLE BORDER=0 WIDTH="100%" HEIGHT=181 align=DEFAULT>
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      </FONT><A HREF="/dept/foreignlg.htm"><FONT SIZE="-1">Foreign
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      </FONT><A HREF="/dept/lang.htm"><FONT SIZE="-1">Language
Arts</FONT></A><FONT SIZE="-1"><BR>
      </FONT><A HREF="/dept/MATH.HTM"><FONT SIZE="-1">Mathematics</FONT></A><FONT
SIZE="-1"><BR>
      </FONT><A HREF="/dept/media.htm"><FONT SIZE="-1">Media &
```



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Clayton Cougars Care....

Two Types of Software

- Application Software



- Operating System Software



Operating System Software

- Directs all the activities and sets all the rules for how the hardware and software will work together.

Examples would be:

DOS, Windows 95, 98, ME, NT, XP,
Vista, Windows 7

Unix, Linux,

MAC system OS 6,7,8,9,10

Command Line Operating Systems

DOS is an example of a command line operating system.

On the next slide, Notice that there are no:

- Icons (pictures)
 - Colors
 - Mouse Pointer
 - Buttons
 - You have to memorize commands in order to use this text based operating system.
-

```
C:\WINDOWS>dir h:
```

```
Volume in drive H is USERS  
Directory of H:\TLC FILES
```

```
 .                <DIR>  
 ..               <DIR>  
 HUMANRES SHW    317,952  09-14-01  8:12a Human resources Activity 2.shw  
 HUMANRE0 SHW    196,608  09-17-01  2:08p Human Resources Activity 5.shw  
 HUMANRE1 SHW    135,680  09-18-01  1:46p Human Resources Job Application.shw  
 CASHIER1 SHW    126,976  09-20-01  9:00a Cashiering Lesson 1.shw  
 THELORAX WPD     3,862  08-29-01  2:56p The Lorax.wpd  
 TLCDISCL SHW    167,424  09-19-01 10:57a TLC Disclosure.shw  
 KASH SHW        105,472  09-19-01  1:32p KASH.shw  
 ETHICS SHW      94,208  09-19-01  1:44p Ethics.shw  
 CASHIER0 SHW    200,192  09-20-01  3:26p Cashiering Lesson 2.shw  
 COMPUTER SHW    140,800  09-21-01 11:05a computer basics.shw  
 10 file(s)      1,489,174 bytes  
 2 dir(s)        12,395.44 MB free
```

```
C:\WINDOWS>_
```

Operating Systems: GUI

□ GUI stands for Graphical User Interface

Uses pictures (icons) to represent files, folders, disk drives, modems, printers, etc.

GUI's were created to make using a computer easier, more interesting, non-threatening to inexperienced users.

A mouse allows users to point at something and click to make it work. With command line you have to have all of the commands to make your programs work.

Here is an example of a GUI

My Computer Adobe ActiveShare Outlook Express

My Documents CorelCity Shortcut to Cdplayer

Network Neighborhood Create CD Windows Media Player

Recycle Bin Gradekeeper

Corel WordPerfect 8 HP PrecisionSc...

Corel Presentatio... MahJongg Master (2)

Corel Quattro Pro 8 Notepad (2)

TLC FILES

File Edit View Go Favorites Help

Back Forward Up Cut

Address **H:\TLC FILES**

TLC FILES

- Cashiering Lesson 1
- Cashiering Lesson 2
- computer basics
- Ethics
- Human resourc...
- Human Resourc...
- Human Resources J...
- KASH
- The Lesson
- TLC

Loca

Start TLC FILES Corel Presentations - [H:\T...

3:01 PM

Application Software

- Programs that work with operating system software to help the computer to do specific types of work.
-

Application Software

- There are six basic types of application software...

Application Software

1. Business software: word processors, spreadsheets, and database programs.
 2. Communication software: allows computers to communicate with other computers: fax software, Novell NetWare, AOL, Modem Software.
 3. Graphics software: software that allows users to create and manipulate graphics...Photoshop, Print Shop, etc.
-

Application Software

4. Education and Reference software: Programs that help teach new material and ideas, and programs that can be used to find information...Encarta, Worldbook Encyclopedia, Jumpstart Kindergarten, MicroType.
 5. Entertainment and Leisure software...Warcraft, Age of Empires, Barbie Design Center, Mrs. Pacman, Solitair
 6. Integrated software: Combines several types of software into one program or package...Quicken (Spreadsheet/data base/communications/reference) or Print Shop (Graphics/Word processor).
-

Software

