Computer Basics

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.

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.

www.clayton.slc.k12.ut[1] - Notepad

File Edit Search Help

```
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<!--This file created 11:48 AM  11/27/01 by Claris Home Page version 3.0-->
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   <X-CLARIS-TAGVIEW MODE=minimal>
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X-CLARIS-USEIMAGEHEIGHT ALIGN=bottom><BR>
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ALIGN=bottom></P>
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         </FONT><A HREF="/dept/foreiglg.htm"><FONT SIZE="-1">Foreign
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         Arts</FONT></A><FONT SIZE="-1"><BR>
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SIZE="-1"><BR>
         </FONT><A HREF="/dept/media.htm"><FONT SIZE="-1">Media &amp;
```

CMS Home Page 2001 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

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Clayton Middle School

1471 SOUTH 1800 EAST SALT LAKE CITY, UTAH
VOICE: (801) 481-4810 FAX: (801) 481- 4884

- Art and Music
- Foreign Language
- Language Arts
- Mathematics
- Media & Technology
- Physical Education
- Resource
- Science & Health
- Social Studies
- T.L.C

Credits/Disclaimer

Last Updated 1/29/02

WebMaster

- Announcement
- Calendar
- Counseling
- Learning Plus Center
- Parents
- Educator Resources
- PowerSchool /Parents
- ClaytonOnLine
- Introduction
- Handbook
- Faculty
- CourseCatalog
- Web Pages
- PowerSchool/Teacher

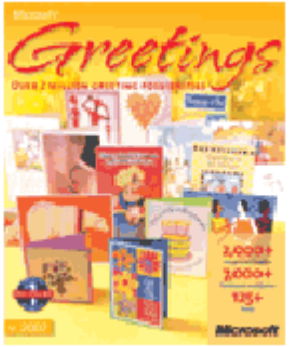
WebMail UtahLink Pioneer USOE SURWEB powerschool

Welcome to Clayton Middle School.... *Clayton Cougars Care....*

Local intranet

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,2007, 2008, 2010

  Unix, Linux,

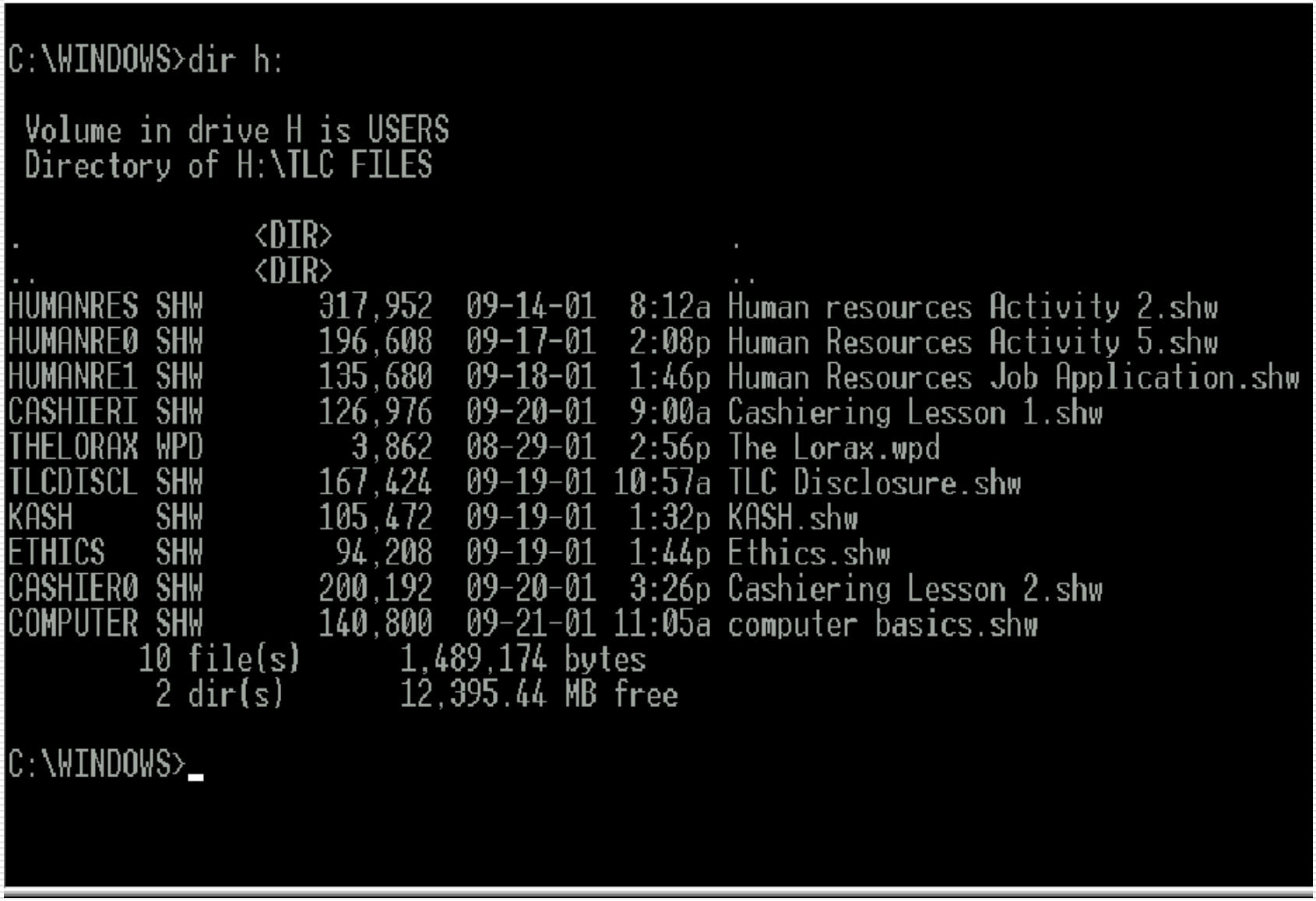
  MAC system OS 6,7,8,9,10

Command Line Operating Systems

DOS is an example of a command line operating system.

On the next slide, Notice that there are no:

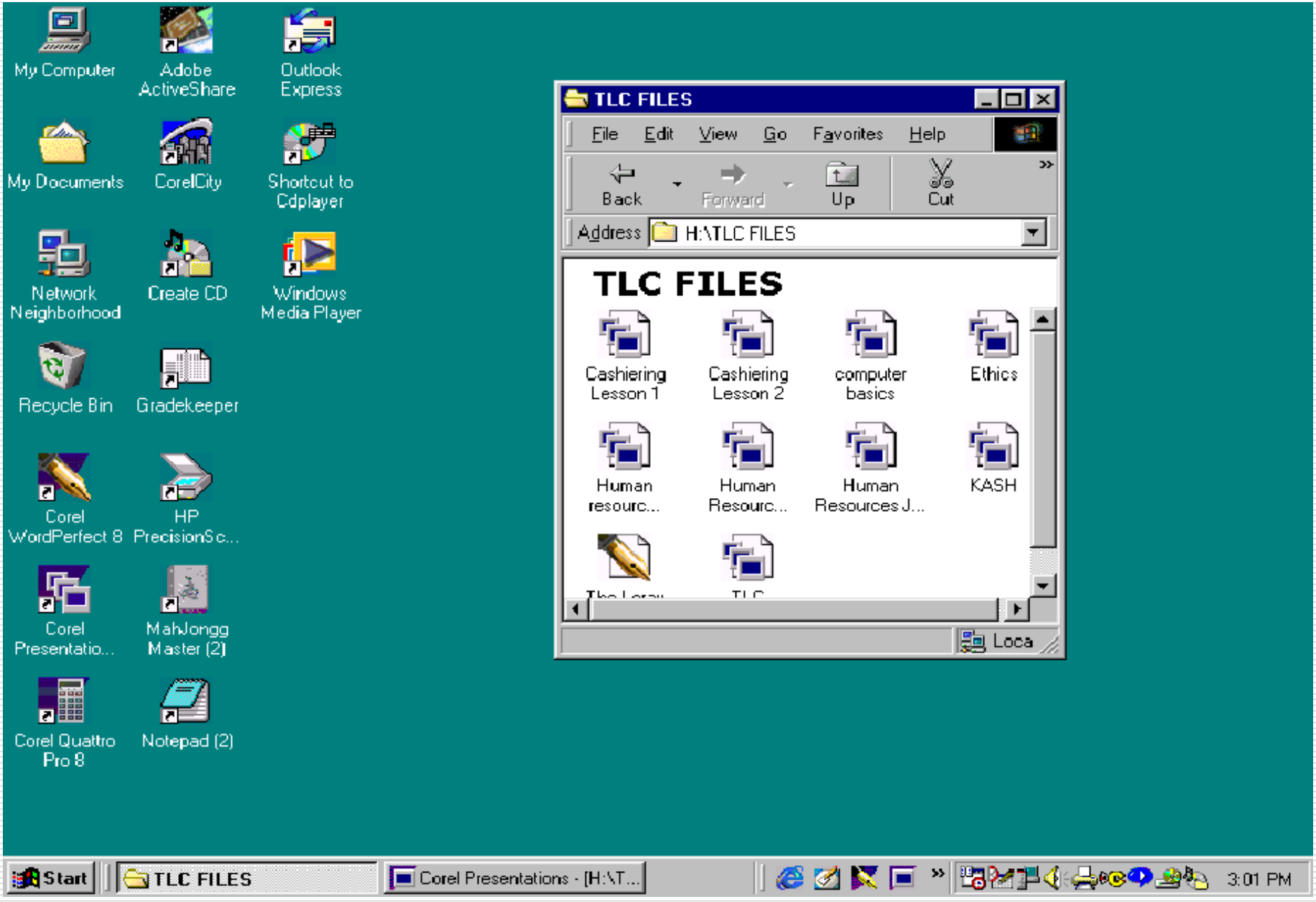
- Icons (pictures)
- Colors
- Mouse Pointer
- Buttons
- You have to memorize commands in order to use this text based operating system.


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
CASHIERI 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
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).

Expectations from this Course

- History of computers
- Microsoft word
- Microsoft excel basic
- Power point presentations
- Networks and Internet
- Google Apps

Registration and Group presentations

- Fill and Submit your SRF at the ICT
- Collect your processed Course form
- Sign with the various lecturers
- Submit signed forms to your department

CMP103 GROUP PRESENTATIONS

- 30%
- Every student must be in a group and prepare for their presentations from next week
- Put your names down with CMP103 rep for your dept
- CMP103 Certificate fee of N500 is a requirement