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James Tam

Common Types Of Storage

- 1. Magnetic
- Floppy disks
- Zip disks
- Hard drives

2. Optical

- CD-ROM
- DVD

James Tam

Magnetic Storage Devices

•Include floppy disks, zip disks, hard drives

•All use magnetism to store information:





Optical Storage Devices

Use lasers to store and retrieve information (CD's and DVD's)

Categories:

- Can only read information off the disc (CD-ROM, DVD-ROM)
- Can read and also <u>record</u> information to the disk (CD-R, DVD-R, DVD+R)
- Can read, record and also <u>re-w</u>rite information multiple times (CD-RW, DVD-RW, DVD+RW)













Monitors: How Images Are Drawn

Images and text are drawn with tiny dots (Pixels: <u>*Pi*</u>cture <u>*el*ements</u>)





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Storing Text Information In RAM

- Text is stored in using the <u>A</u>merican <u>S</u>tandard <u>C</u>ode for <u>I</u>nformation <u>I</u>nterchange (ASCII)
- Eight bits/one byte (256 combinations) is used to store information about a single text character:

Combination number	Bit pattern	Value represented at that combination
48 - 57	00110000 - 00111001	'0' to '9'
65 – 90	01000001 - 01011010	'A' to 'Z'
97 – 122	01100001 - 01111010	'a' to 'z'

James Tam

You Should Now Know

- •What are common units of measurement for the computer
- •What are the basic parts of the high level view of a computer
- •The role of the processor in a computer
- •What are the characteristics of RAM
- •How does DRAM work
- •The difference between storage and memory
- •What are the different categories of storage devices as well as common examples of each
- •How binary is used to store information on several different kinds of hardware

James Tam