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Notes

Chapter 1.0

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* Computer Systems
  + Hardware
    - Physical components
    - key components:
      * CPU
      * I/O
      * Main Memory/RAM
        + Holds software while it is being processed by the cpu
      * Secondary Memory/HDD’s
        + Long term storage
  + Types of storage, and management of information
    - Analog
      * Continuous, for example thermometer
    - Digital
      * Breaks information into pieces and shows them as numbers
      * Benefits:
        + Enhances ability to send info over a long wire
  + Software
    - Programs/Applications
      * A set of instructions for the computer to follow
      * Software: Programs and data
    - Examples
      * OS’
        + Provides a UI

GUI

Elements include windows, Icons, scroll bars, buttons, etc.

Point and Click interfaces

Text Based

* + - * + Manages Computer resources

CPU

Main Memory

* + - Binary Numbers:
      * All info in a computer is stored as such
      * Binary System has two digits
        + One digit is called a bit
        + This system is called base 2
  + Key Concepts:
    - A computer system has both hardware and software
    - Execution of program:
      * Program is copied from secondary memory to main memory
      * CPU executes program until it ends, The binary system is 2^n