

MINNESOTA TECH FOR SUCCESS



Week 5-7: Software
and Operating Systems

12/13/2023

Agenda

- **Announcements**
- **Classroom (25 min)**
 - Operating Systems
 - Laptop registration
- **Break (5 min)**
- **Warehouse (1.5 hrs)**
 - Hardware recycling





ANNOUNCEMENTS



Announcements for 12/13

- **Assignments**

- None for the week
- Goal: no homework; time in classroom

- **Calendar**

- Next session: Wednesday, 12/20
- No School; winter break from 12/22/2023 - 1/5/2024

Expectations

- **Values**

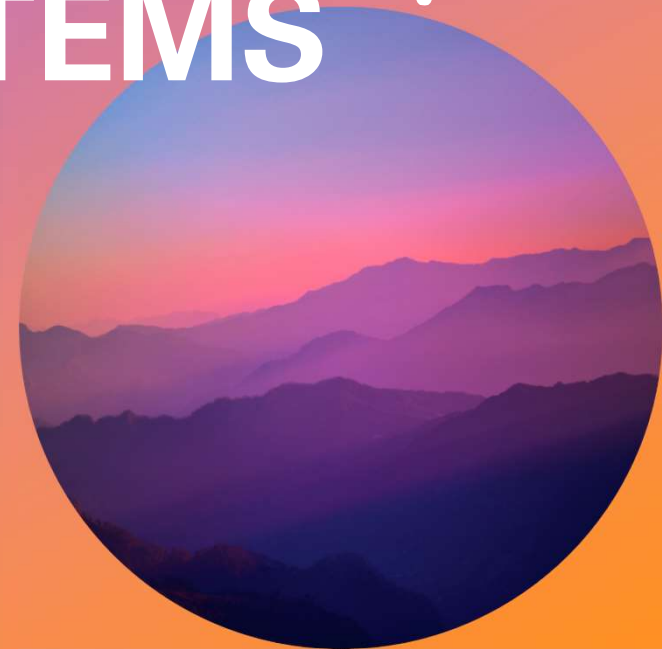
- **R**espect
- **A**ccountability
- **I**mprovement
- **S**teadfast
- **E**ncouragement

- **Attendance**

- **Assignments**

- **Website & Emails**

SOFTWARE & OPERATING SYSTEMS





Information
Security



Database &
Network
Management



Computer
Technical
Support



Business
Software
Development



Software & Operating Systems: Objectives

1. What is software?
 - Explanation of software, its role in computing, and the various types of software, including applications and operating systems
2. Basics of operating systems
 - Fundamental functions of operating systems and how they interact with hardware
3. How to install and use software
 - Guide on how to install and use software applications on a computer
4. Simple software troubleshooting
 - Basic troubleshooting steps for software-related issues, such as resolving software crashes.

What is Software?



- Instructions that tell a computer what to do
- Entire set of programs, procedures, and routines associated with the operation of a computer system

What is Software? (continued)



3 Types of Software*

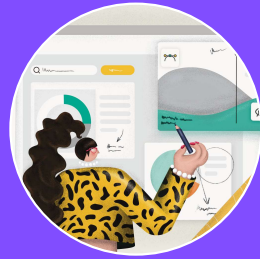
| System | Application | Network |
|--|--|---|
| <ul style="list-style-type: none">• Internal functions through OS• Controls peripherals | <ul style="list-style-type: none">• Execute commands by user• Any program that processes data | <ul style="list-style-type: none">• Coordinates Communication between computers linked in a network |

*Software can be made up of more than one program (executable in a programming language dependent on compilers [ex. Windows: C++, kernel is in C])

Software Interaction



User



Application



Operating
System



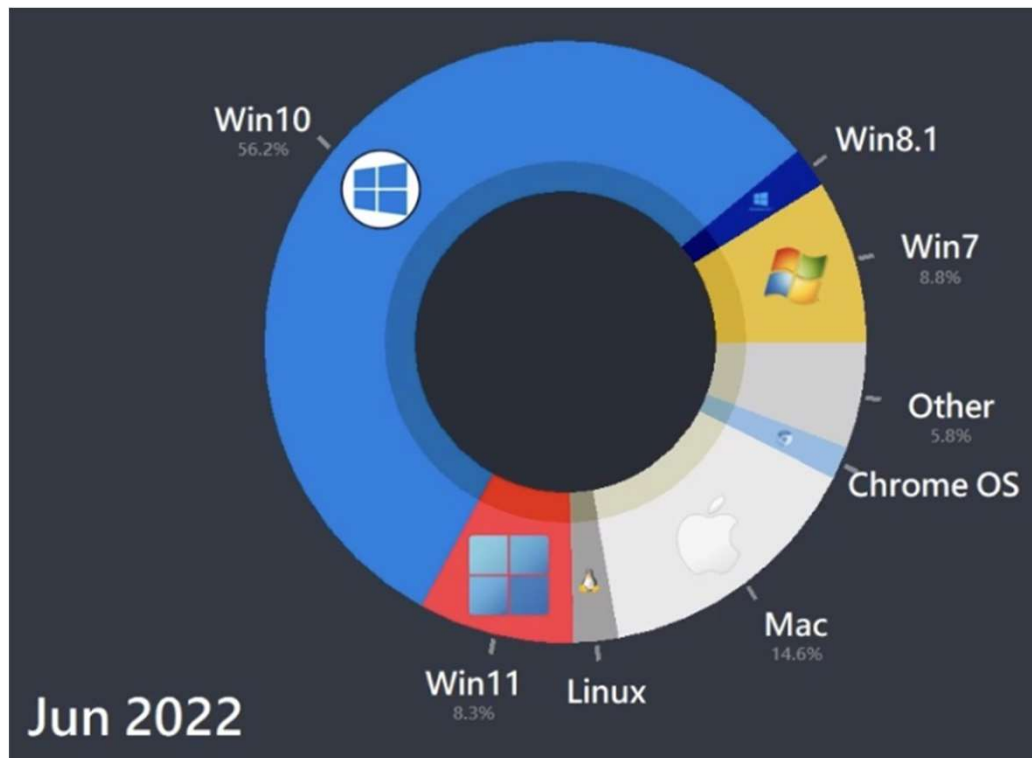
Hardware



Operating System

- Allows the user to interact with the computer
- Manages all the software and hardware on the computer.
- Most of the time, several different computer programs running at the same time
 - Access computer's CPU, memory (RAM), and storage (SSD, HDD).
- Provides interface between hardware, application software, and user

OS Market share from 2022





Android

40.39%

Windows

32.34%

iOS

16.51%

OS X

7.13%

Unknown

1.52%

Linux

0.85%

More Items:

- [Computer Basics: Understanding Operating Systems](#)



LAPTOPS



Laptop Registration

- Register your laptop
- Fill out the form provided
 - First & Last Name
 - Laptop Model
 - MCFS #
 - The sticker on the bottom of the laptop
- Laptops are to stay in the building. Do not take them home unless instructed to



WAREHOUSE



Warehouse Activity

- 1:30-3:00pm
- RAM w/ Jason
- Install OS
- Recycling hardware & parts

BREAK

5 minutes

