OS?

- Manage interface between hardware and software
- Memory HDD, RAM
- Processor
- Resource Management
- Application management

Example - Types of OS

- Batch Operating System
- Time-sharing Operating System
- Distributed Operating System
- Network Operating System
- Real-time Operating System
- Multiprocessing Operating System
- Single-User Operating Systems
- Multi-User Operating Systems
- Embedded Operating Systems
- Cluster Operating Systems

Operating System Usage

- Manage interface between hardware and software
- Memory Management
- Process management
- I/O Device Management
- Network Management
- Security Management

Operating System Functions

- Process management
- Memory management

- User management
- Device management
- Security Management
- Resource Management
- Performance monitoring
- Backup and recovery
- Scheduling
- Virtualization
- Networking

OS Examples

- Windows 1981 interface manager, 1983 Windows, Latest
 Windows 11
- Linux
 - o Unix 1960
 - GNU 1983 Stallman
 - 1991 Linus Torwards -> Linux/GNU
 Opensource
 - GNU + GUI + Utilities = Linus Complete OS
- Android Embedded OS Android 15
- IOS IOS 18.5
- MAC Sequioa 15
- Unix latest
- DOS -
- Solaris latest 11.4

Comparison – Windows, Linux, MAC

- Interface UI
- Security
- Application and software combability

Customization

Linux –

Linux Commands

File and directory

- Is
- mkdir
- pwd
- cd ..
- touch
- cd -
- rm -r
- history
- clear

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What is Linux

Linux Kernel

- Process management
- Memory Management
- User Management
- Networking
- Inter Unit Communication

Apt vs apt-get

Vim