

Operating System

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What are the different types?

Mac OS is a series of graphical user interface-based operating systems developed by Apple Inc. for their Macintosh



Linux is a Unix-like computer operating system assembled under the model of free and open source software development and distribution.



Microsoft Windows is a series of graphical interface operating systems developed, marketed, and sold by Microsoft.



iOS (previously **iPhone OS**) is a mobile operating system developed and distributed by Apple Inc. Originally unveiled in 2007 for the iPhone, it has been extended to support other Apple devices such as the iPod Touch



Android is a Linux-based operating system designed primarily for touchscreen mobile devices such as smartphones and tablet computers. Initially developed by Android, Inc.



BSD/OS had a reputation for reliability in server roles; the renowned Unix programmer and author W. Richard Stevens used it for his own personal web server for this reason.



There are even more...



Major Differences

Features	Mac OS	Windows	Linux
Developer	Apple	Microsoft	Open source (various communities)
UI Style	Sleek, minimalist, less customizable	More customizable, but less uniform	Highly customizable
Productivity Suites	MS Office, iWork	MS Office, Google Workspace	LibreOffice, Google Workspace, MS Office (web)
Security	High (built-in protections)	Medium (more attacks, but better now)	Very high (less targeted, very secure base)

Major Differences

Features	MacOS	Windows	Linux
Resource Usage	Moderate	Higher	Varies (can be ultra-lightweight)
Hardware Support	Apple hardware only	Broad range of devices	Broad, but may need manual drivers
Viruses	Rare	Common	Very rare
User control	Limited customization	Medium	Full control

These differences realized from user experience

How do they differ in...

- OS Architecture
- Process Management
- Scheduling
- File Management
- Memory Management

You won't understand these differences yet!!

After this course,

- You will understand what these activities are?
- You will be able to compare different operating systems available in the market, not only from user's perspective, also from [developers perspective](#)

