OPERATING SYSTEM 17

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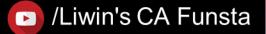


Computer Awareness

Part 8

- Funsta Team

Lets Start



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Computer Awareness

- Part 1 Intro/Generation/ Classification of Computers
- Part 2 Computer Architecture & Memory
- Part 3 Computer Hardware
- Part 4 Computer Software and System Utilities
- Part 5 Number System
- Part 6 Computer Codes & Logic Gates

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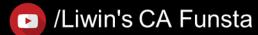
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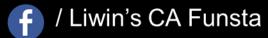


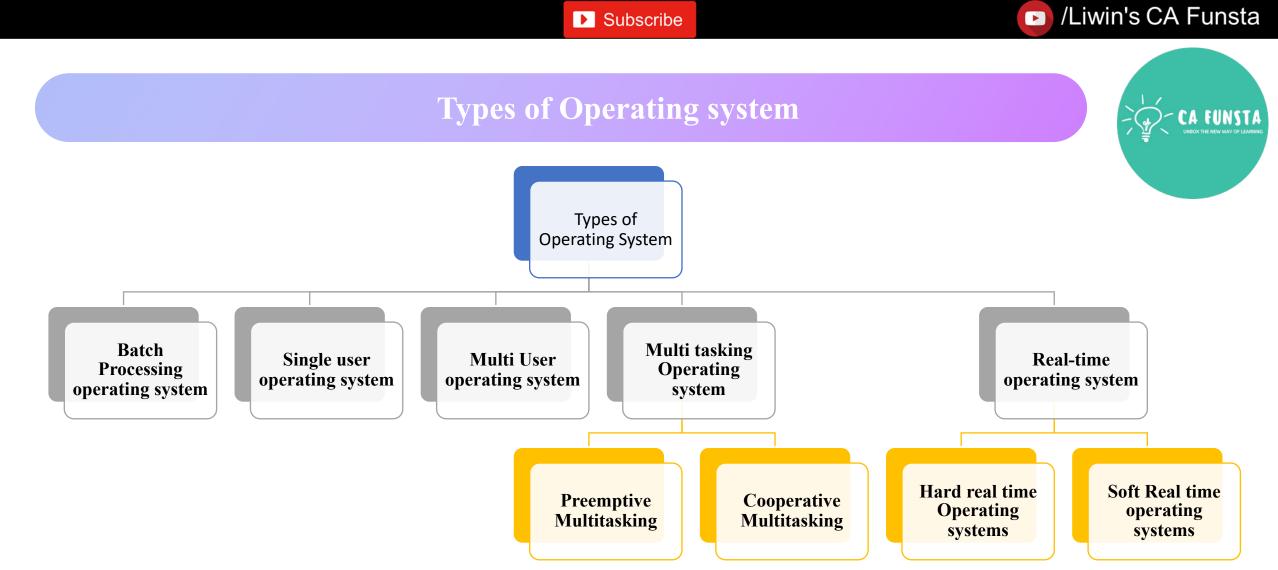
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Sl. No	Topic	Page Number
1	Introduction to Operating System	<u>4</u>
2	Function of Operating System	<u>5</u>
3	Types of Operating System	<u>14</u>
4	User Interface	<u>24</u>
5	Some important Operating System	<u>27</u>
6	Mobile Operating System	<u>32</u>
7	MS-DOS	<u>37</u>







Back to Index

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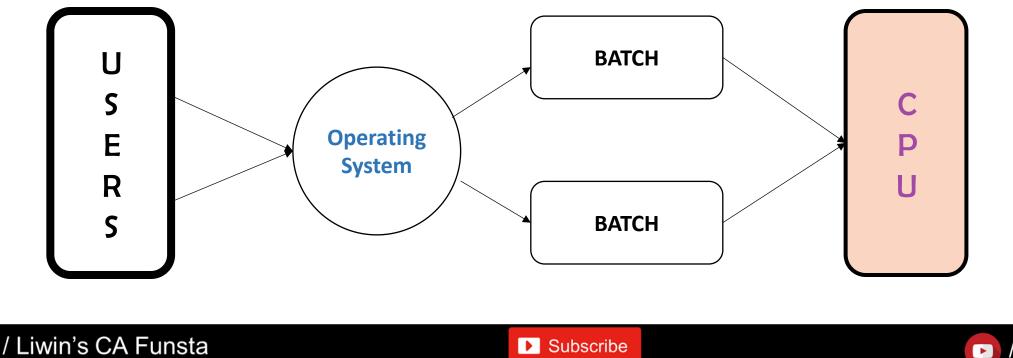
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Batch Processing operating system

- $\langle \cdots \rangle$ Jobs, together with input data, are fed into the system in a batch
- $\langle \cdots \rangle$ The jobs are then run one after another

 $\langle \cdots \rangle$ Ex: Unix

f



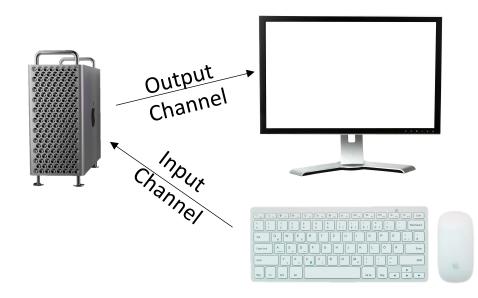
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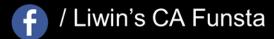


Single user operating system

- **(**...**)** It is called as a Single user and single Task operating system.
- **Ex:** MS-DOS, Windows 9X



Back to Types of OS





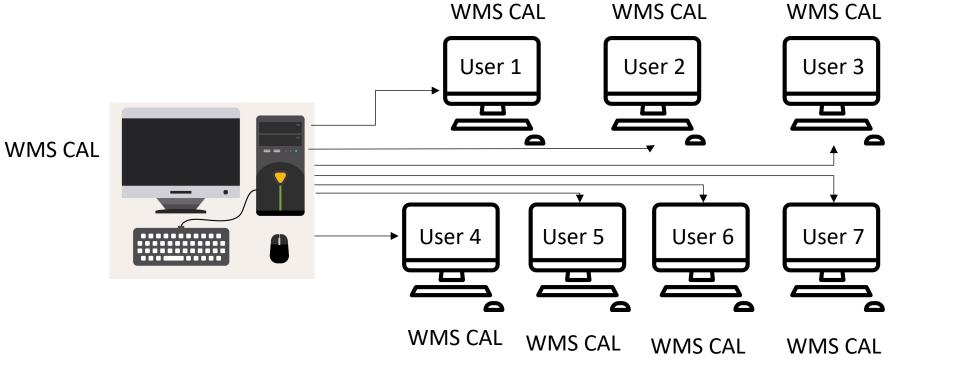


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Multi User operating system

 $\underbrace{ \left\langle \cdot \right\rangle }$ It allows same data and applications to be accessed by multiple users at the same time.

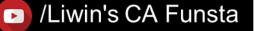




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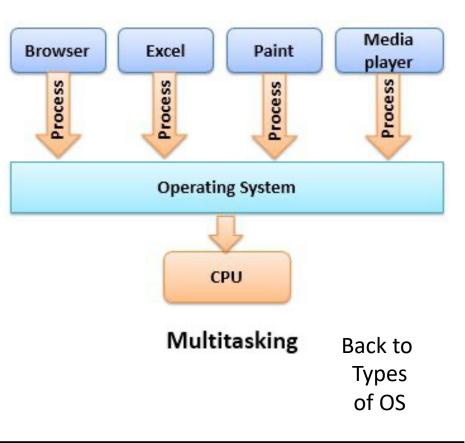
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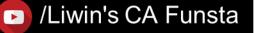
Multi tasking Operating system

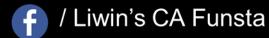


Preemptive Multitasking

Cooperative Multitasking





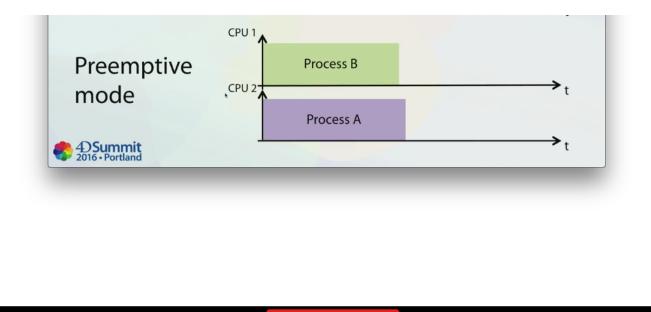


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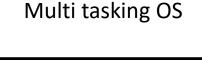
Preemptive Multitasking

- Task in which a computer operating system uses to decide for how long to execute a task before giving another task to use the operating system
- **Ex:** UNIX, Windows 95, Windows NT



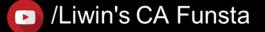
Back to Types of OS





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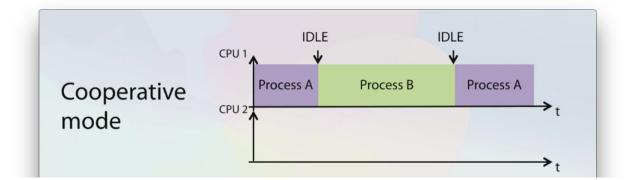
Back to



Cooperative Multitasking

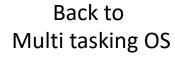


- Type of computer multitasking in which the operating system never initiates a context switch from a running process to another process.
- Ex:Macintosh OS version 8.0 9.2.2 and Windows 3.x



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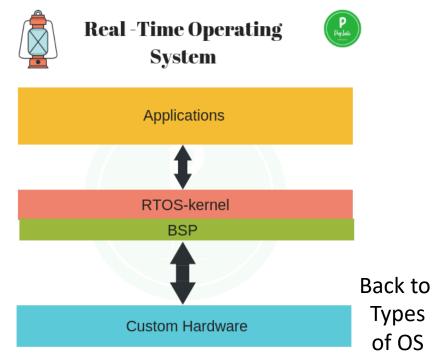
Real-time operating system

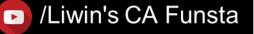
- **(**...) It is an operating system intended to serve real-time applications that process data as it comes in, typically without buffer delays.
- **A** Processing time requirements are measured in tenths of seconds or shorter increments of time.
- **C** It has 2 types

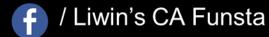
Hard real time Operating systems



Soft Real time operating systems







Hard real time Operating systems



- **Construction** It has time critical deadlines that must be met; otherwise a catastrophic system failure can occur
- Ex: Flight control systems, Vehicle subsystems control, Nuclear power plant control

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Back to Real-time OS



Soft Real time operating systems



- **Considered undesirable, but not catastrophic, if deadlines are occasionally missed**
- **Constant** It is also known as "best effort" systems
- Ex: Multimedia transmission and reception, Networking, telecom networks, Web sites and services Computer game



Back to Real-time OS









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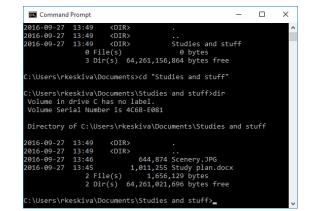
User Interface

User interface is one of the significant feature in Operating System

The only way that user can make interaction with a computer

C It has two types

Graphical User Interface(GUI)



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 $\langle \cdots \rangle$



Character User Interface(CUI)

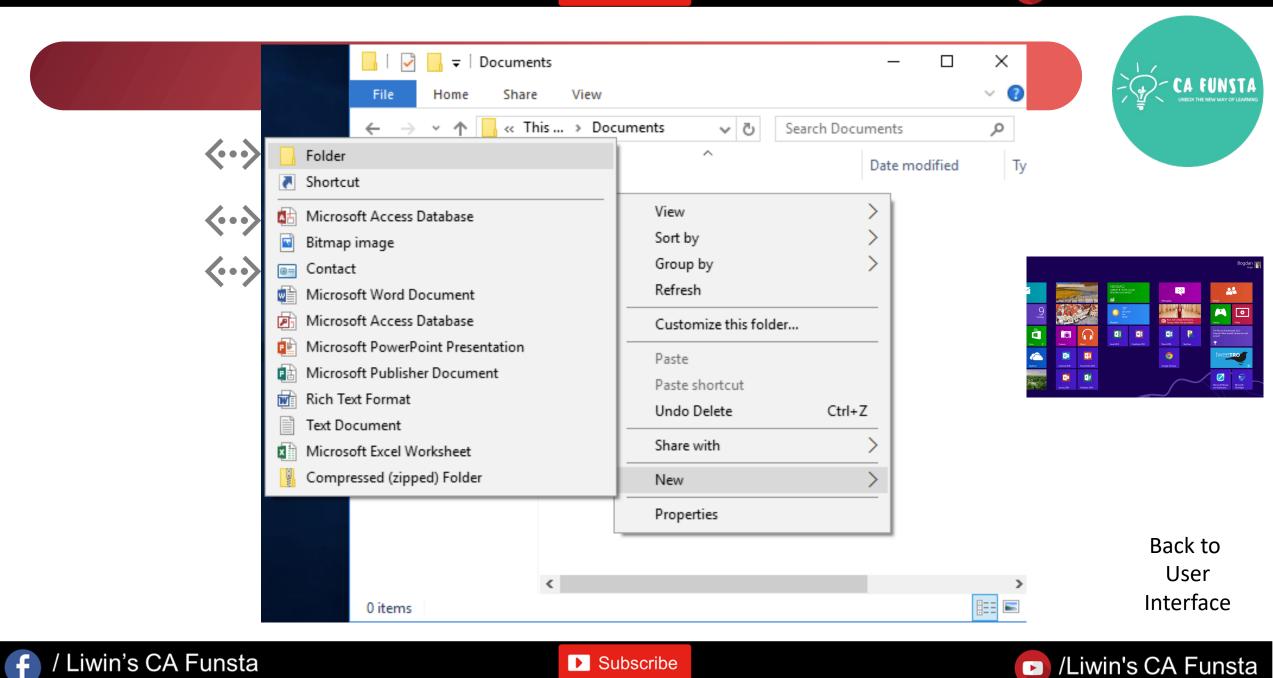


Back to Index

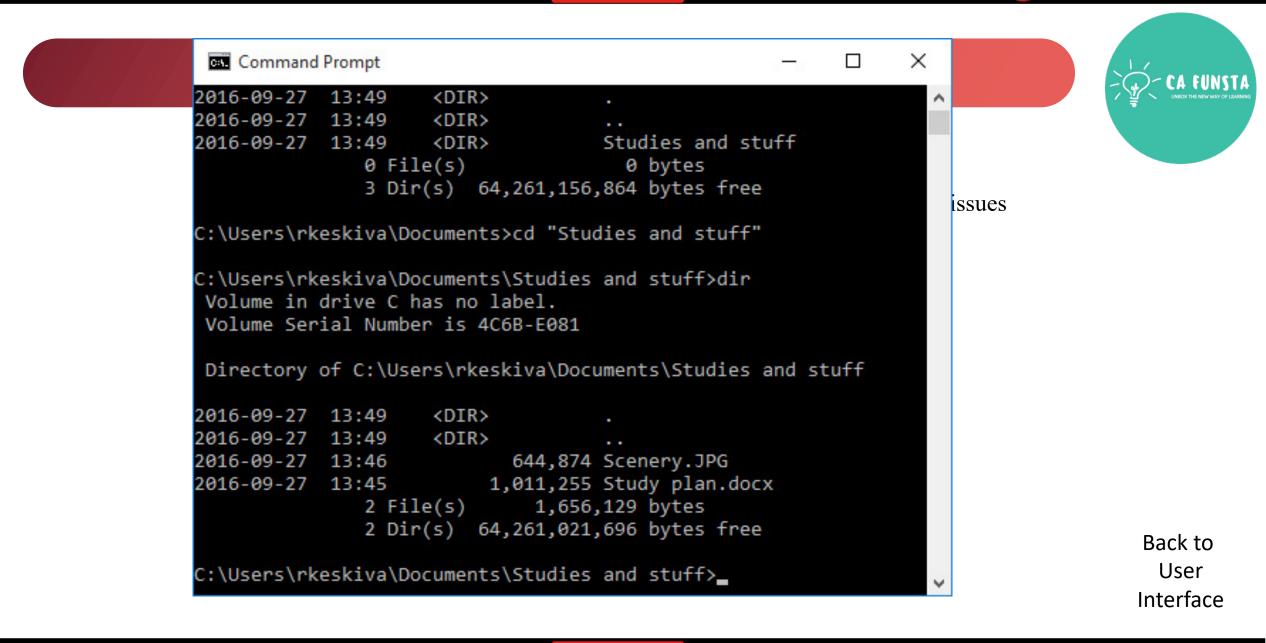


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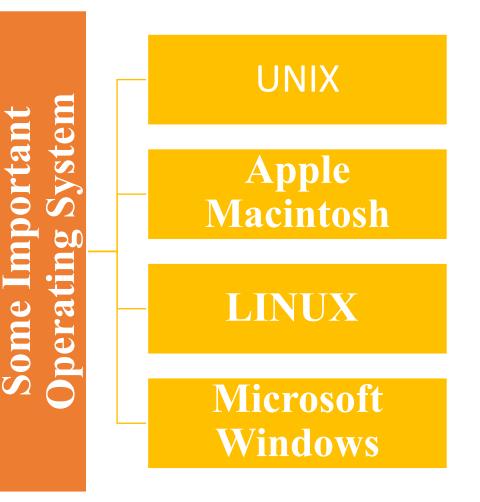


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Some Important Operating System



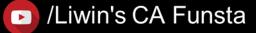


Back to Index



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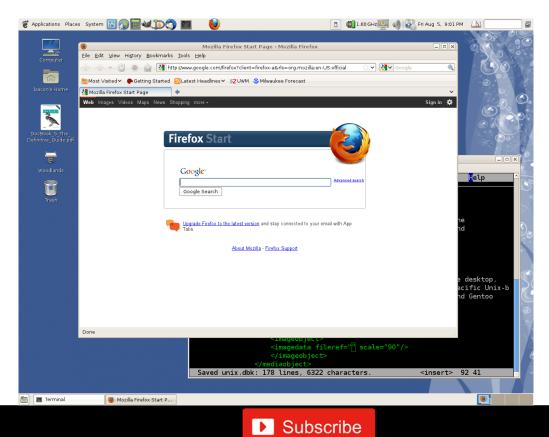




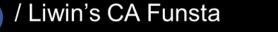
UNIX

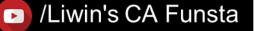


It is a family of multitasking, multi-user operating systems that derive originally from AT&T Bell Labs, where the development began in the 1970s by Ken Thompson and Dennis Ritchie.



Back to Some Important Operating System





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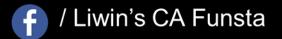
Apple Macintosh

- **Characteristics for a set of the manufacture of the Macintosh** is a family of personal computers designed, manufactured, and sold by **Apple** Inc. since January 1984.
- **Characteristic State** The original **Macintosh** is the first successful mass-market personal computer to have featured a graphical user interface, built-in screen, and mouse.

It was later renamed as Mac OS



Back to Some Important Operating System



 $\langle \cdots \rangle$

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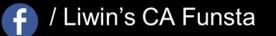
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LINUX

- It is a family of open source Unix-like operating systems based on the Linux kernel, an operating system kernel first released on September 17, 1991, by Linus Torvalds.
- **C** It is typically packaged in a Linux distribution

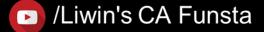


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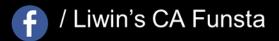
Microsoft Windows



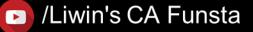
- $\langle \cdot \cdot \rangle$
- It is a family of proprietary operating systems designed by Microsoft Corporation and primarily targeted to Intel and AMD architecture based computers.

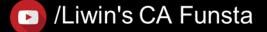


Back to Some Important Operating System



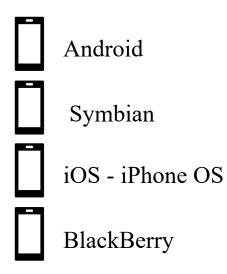






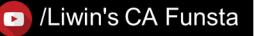
Mobile Operating system

- A Mobile Operating System is an operating system for mobile phones, tablets, smartwatches, 2-in-1 PCs, smart speaker or other mobile devices
- **<** •• **>** It has two types



Back to Index



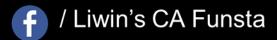


Android

- Android is a mobile operating system developed by Google in 2007, based on Linux and designed primarily for touch screen mobile devices such as smart phones and tablets.
- **Constant of the latest version Pie**



Back to Mobile OS







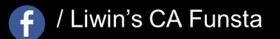
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Symbian

- **C** It is a discontinued mobile operating system and computing platform designed for smartphones.
- Symbian was originally developed as a Proprietary software OS for PDAs in 1998 by the Symbian Ltd. Consortium
- **Constant Selle** The latest version Nokia Belle



Back to Mobile OS







iOS - iPhone OS

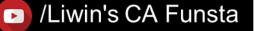
CA FUNSTA UNBOX THE NEW WAY OF LEARNING

- **Construction** It is a mobile Operating System created and developed by Apple Inc., exclusively for its hardware.
- **Construction** It is the Operating System that presently powers many of the company's mobile devices, including the iPhone, iPad and iPod Touch.
- K It is the second most popular mobile Operating System globally after Android



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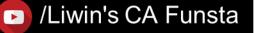
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BlackBerry

- **Constant of the set o**
- **Construction** The operating system also supports WAP 1.2.
- Latest Version : Blackberry OS 10.3.3



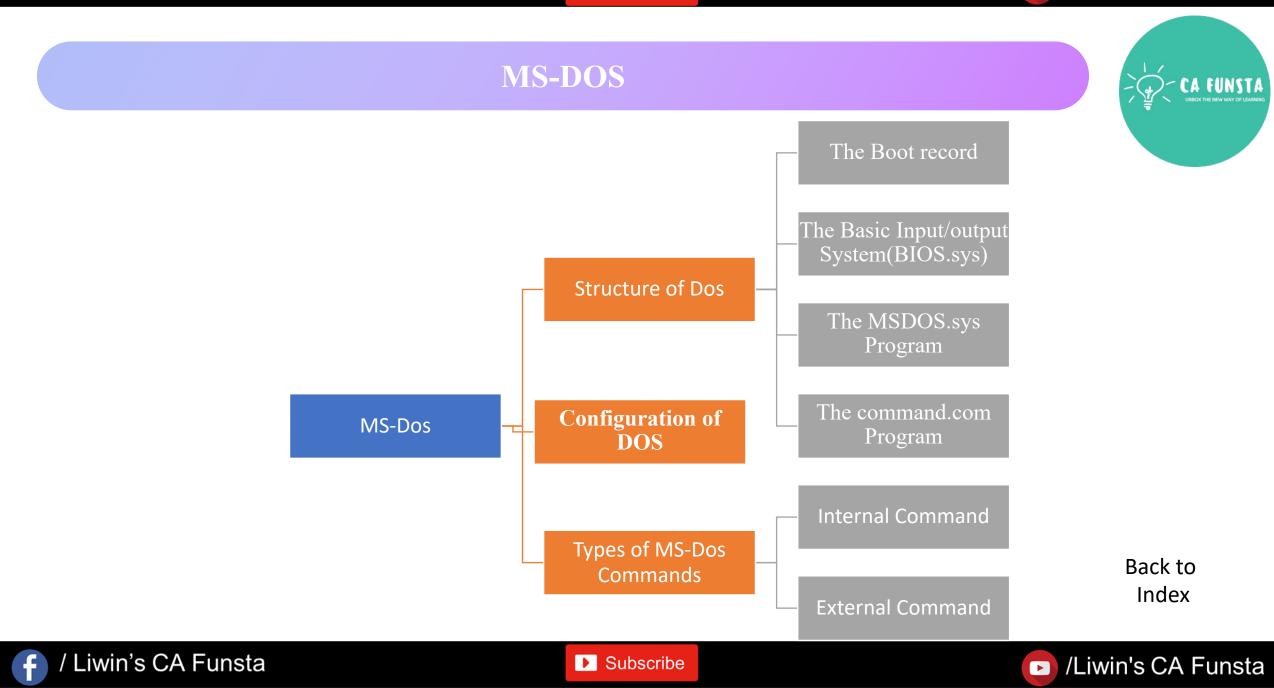
Back to Mobile OS



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MS-DOS



MS-DOS is acronym for **Microsoft Disk Operating System**

- Korver It is an operating system for x86-based personal computers mostly developed by Microsoft.

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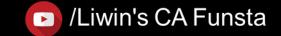


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Back to Index





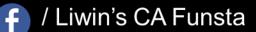
'Hurrah!' We completed this section.







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