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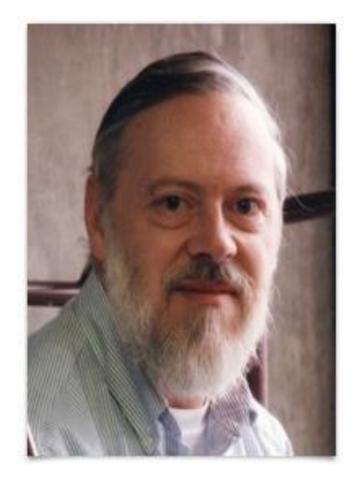
OS Structures & Kernel Programming

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Linus Torvalds Steve Jobs





Andy Rubin



Common OS for Desktops















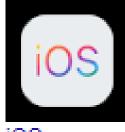
Common OS for Mobiles











BlackBerry OS







Palm OS



Symbian



Common OS for Embedded Systems

















Common OS for IoT Devices





























Contiki











Where OS is required?



- Computing Systems where multiple applications are to be handled and proper functionalities are to be done based on invoked application.
- System where multiple tasks and multiple users are to be handled

OS Goals

 OS is a program that acts as an interface between a user of a computer and the computer hardware

OS Goals:

- To manage all the resources in an efficient manner
- Execute user programs and make solving user problems easier
- Make the computer system convenient to use



Definitions

- No universally accepted definition
- OS is a resource allocator. The software that manages all computer resources. Decides between conflicting requests for efficient and fair resource use
- OS is a control program. Controls execution of programs to prevent errors and improper use of the computer.
- "The one program running at all times on the computer" is the kernel. Everything else is either a system program or an application program





THANK YOU

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