

Operating System: File System

By: Vishvadeep Gothi



VISHVADEEP GOTHI SIR

**AIR- 19, 119, 440, 682
in GATE**



**ME from IISc Bangalore
Mtech BITS Pilani in Data
Science**



**14+ Years of Teaching Experience,
10+ Years in GATE/IES**



Subjects Taken:
Computer Organization & Architecture,
data structure, operating system,
C-Programming, Data science,
Machine Learning, Python,
coding interview problems,





Vishvadeep Gothi

#1 Educator in CS & IT · GATE & ESE

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File

A file is a named collection of related information that is recorded on secondary storage.

File Attributes

1. Name
2. Extension
3. Size
4. Date
5. Author
6. Created, Modified, Accessed
7. Attributes: Read-only, hidden
8. Default Program
9. Security Details

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File Directory

Collection of files



File System

Module of OS which manages, controls and organizes files and related structures



File System

Quick access

- Desktop
- Downloads
- Documents
- Pictures
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- PYQ
- Questions
- Rapid Fires

Folders (7)

- 3D Objects
- Downloads
- Videos



Desktop



Music



Documents



Pictures

Devices and drives (1)



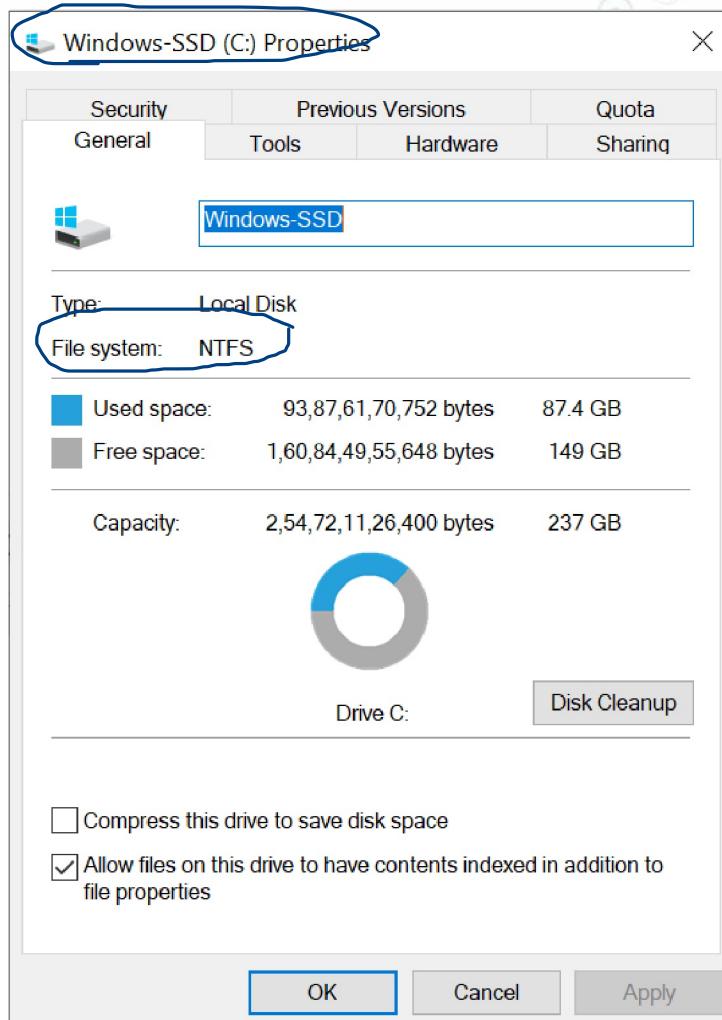
Windows-SSD (C:)

149 GB free of 237 GB

Types of File Systems

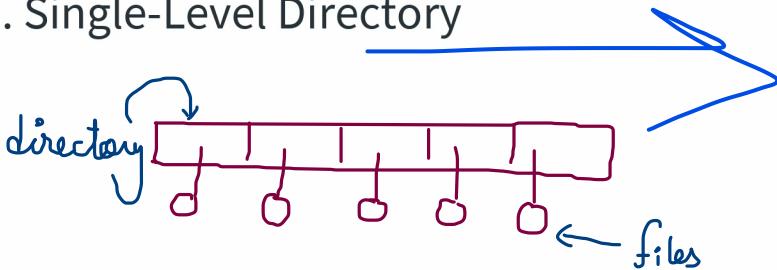
1. FAT32 ✓ }
2. NTFS ✓ } → windows
3. HFS+ → macOS
4. Ext2 / Ext3 / Ext4 → Linux
5. Swap
→ used for swap-out & swap-in

File System



File Directory Structure

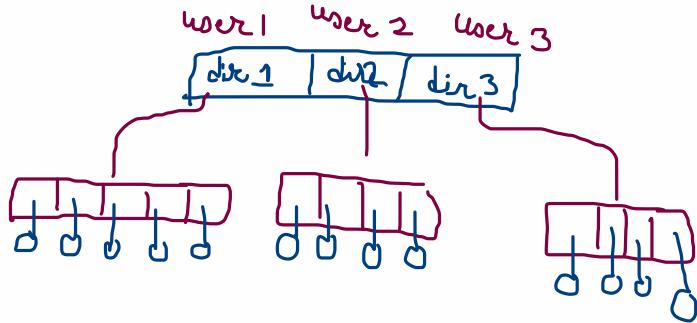
1. Single-Level Directory



We cannot store two same files in this type of directory.

File Directory Structure

2. Two-Level Directory

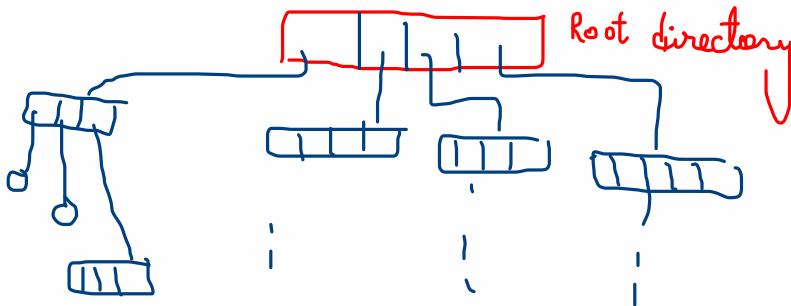


File Directory Structure

3. Tree Structure Directory



In modern day computers.

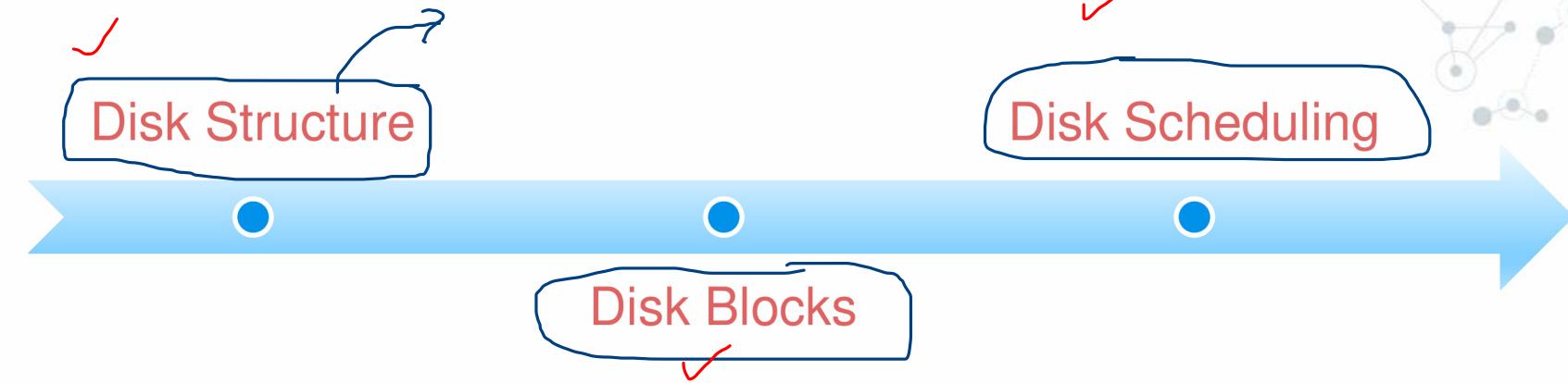


Next Class

Disk Structure

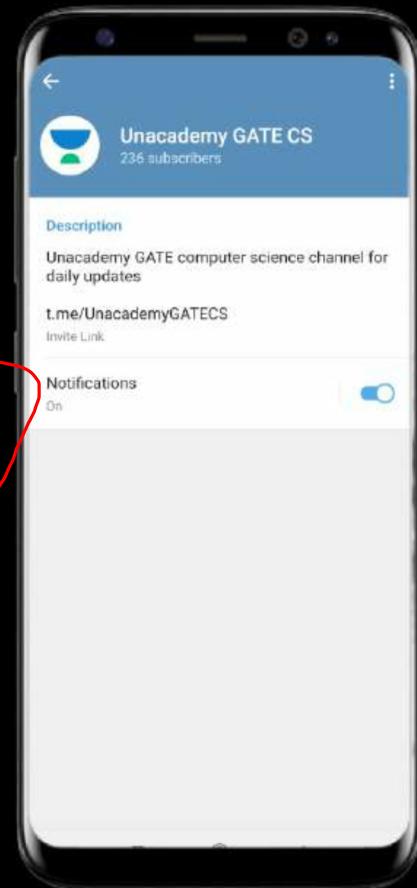
Disk Scheduling

Disk Blocks





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