









HARD DRIVES

[Video](#)



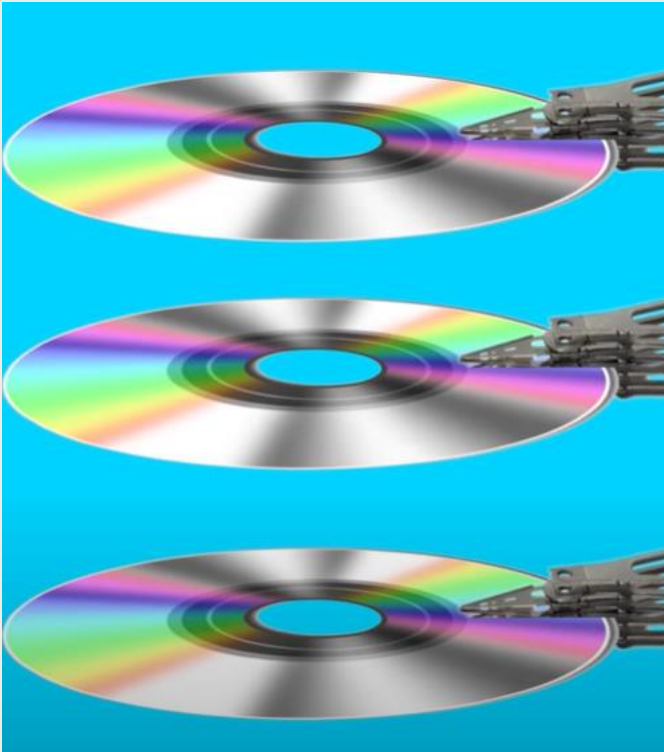
Binary Storage

0	1	1	0	0	1
32	16	8	4	2	1
 2 ⁵	 2 ⁴	 2 ³	 2 ²	 2 ¹	 2 ⁰

Hard Drive



Multiple Plates



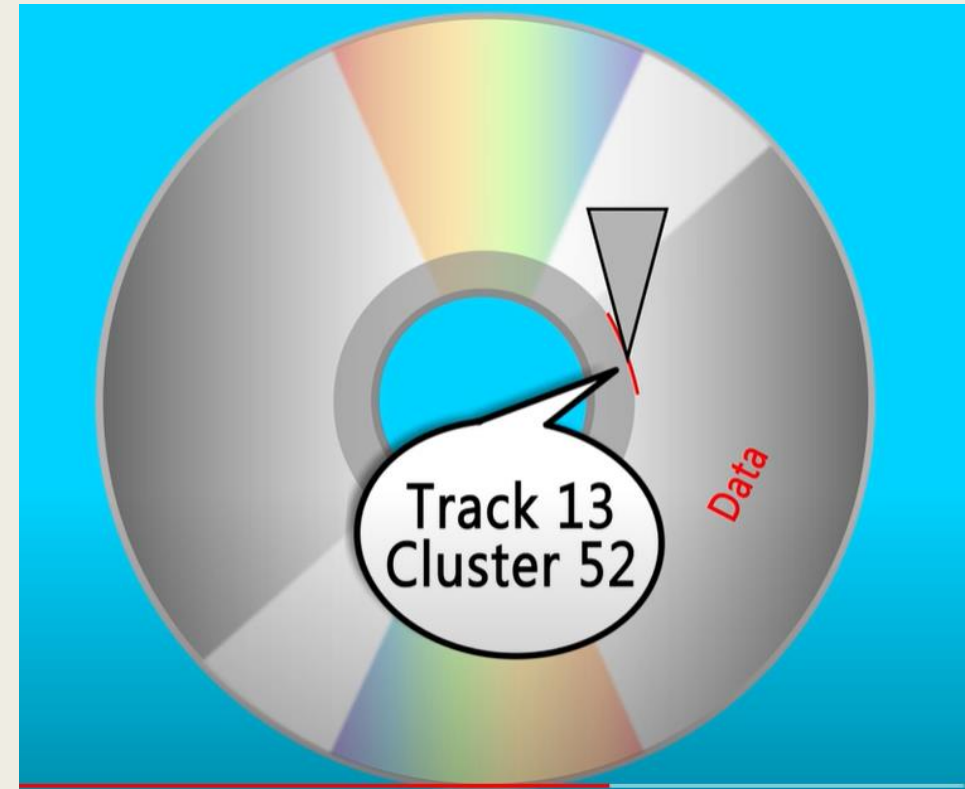
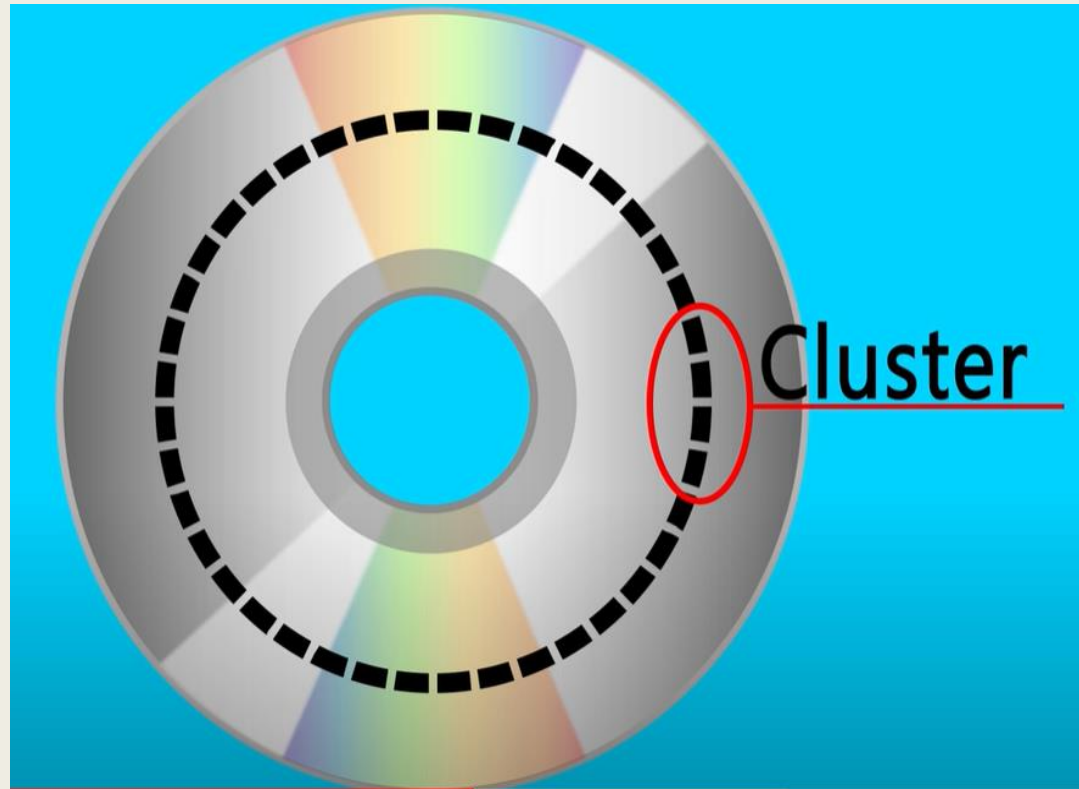
Actuator arm



File allocation table

- Tracks
- Segments
- Clusters

File Allocation Table



Cache

**How fast do I
need this?**

**How often do I
need this?**

The bad & the good



Dedicated Storage Hardware

