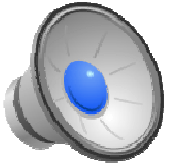


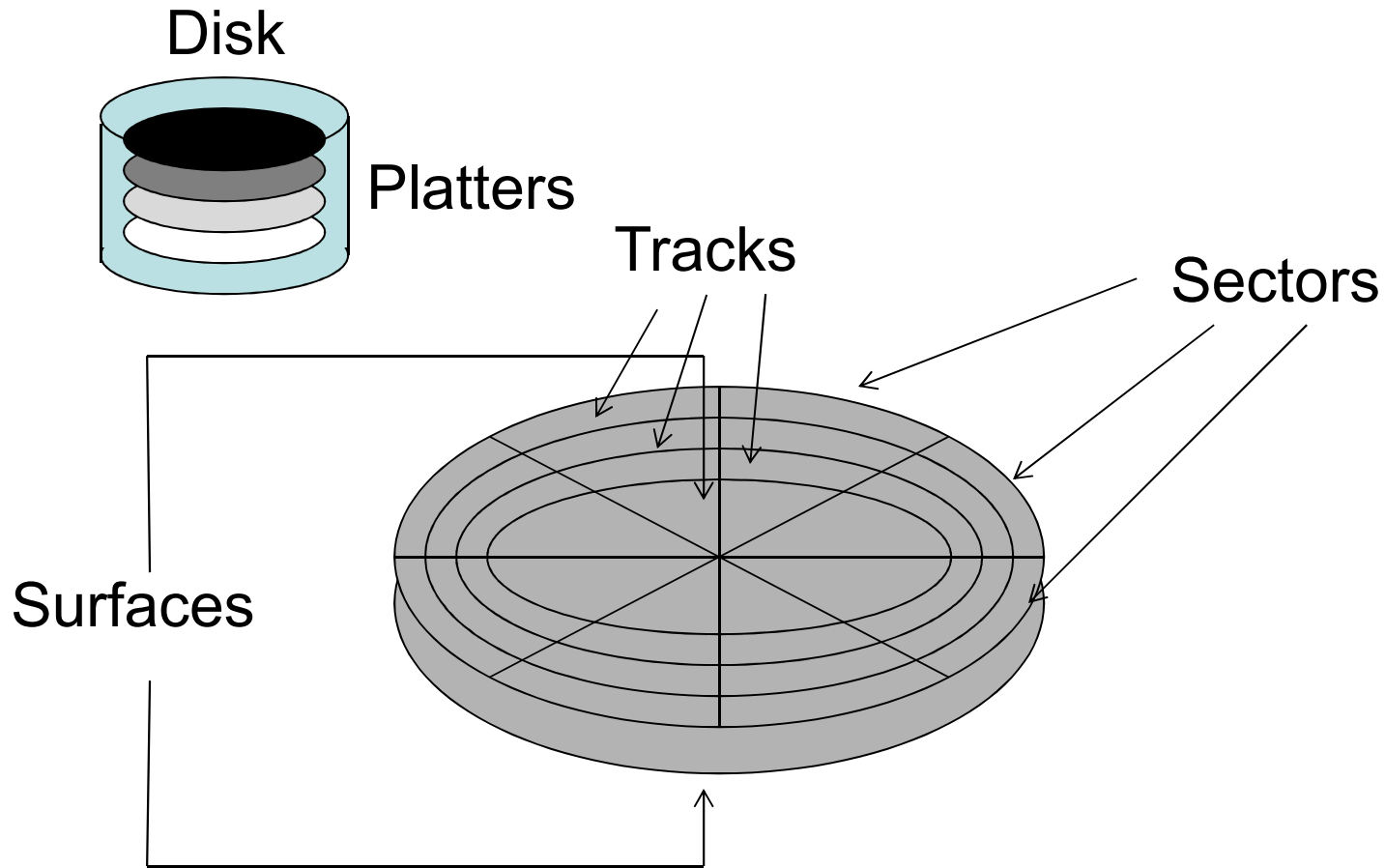


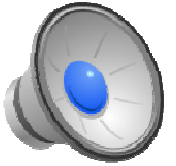
How Disks Work

- Much of file systems work for the past forty years has been based on spinning disk. If you want to understand why file systems work as they do, then you also have to understand how disks work.

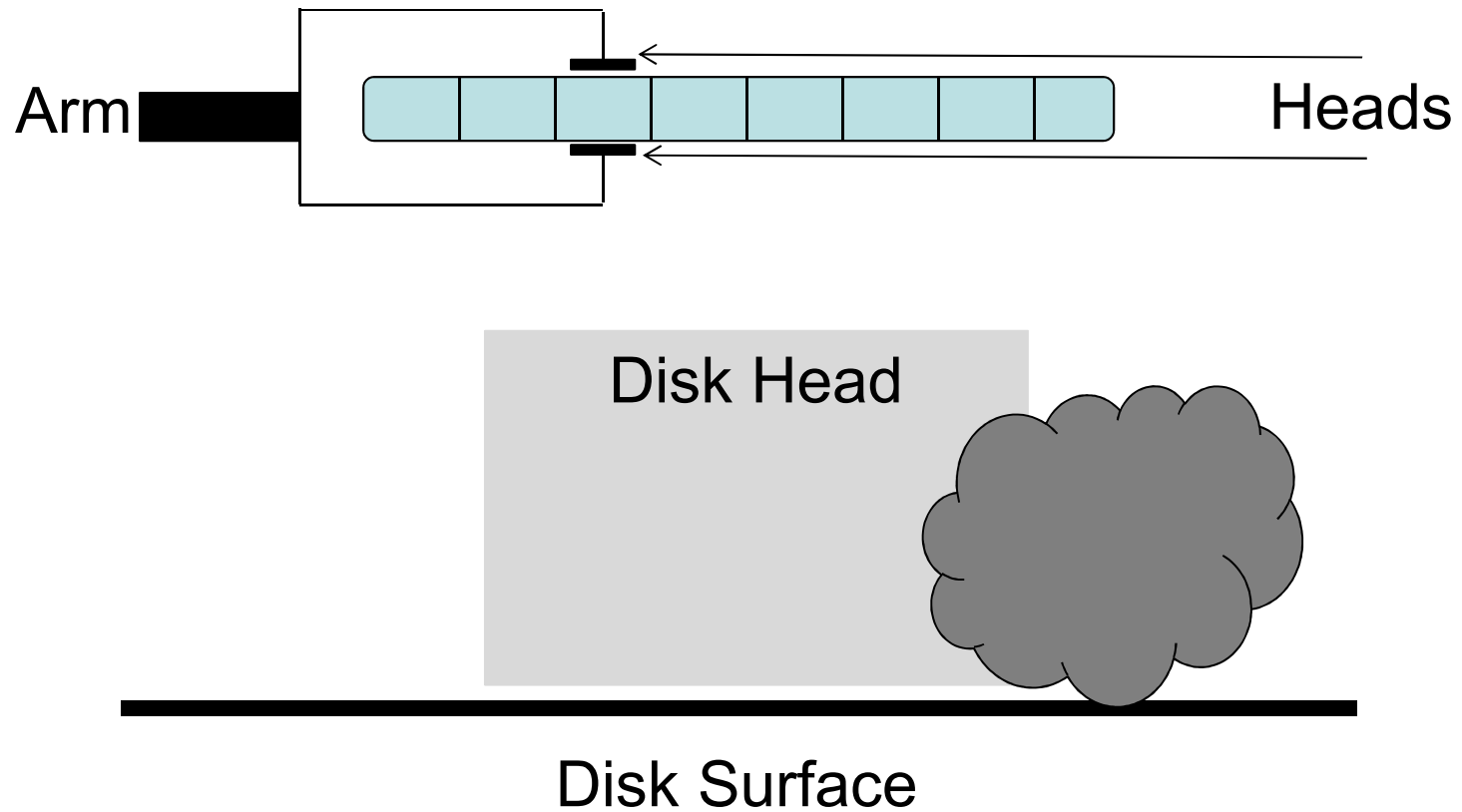


Modern Disk Drives

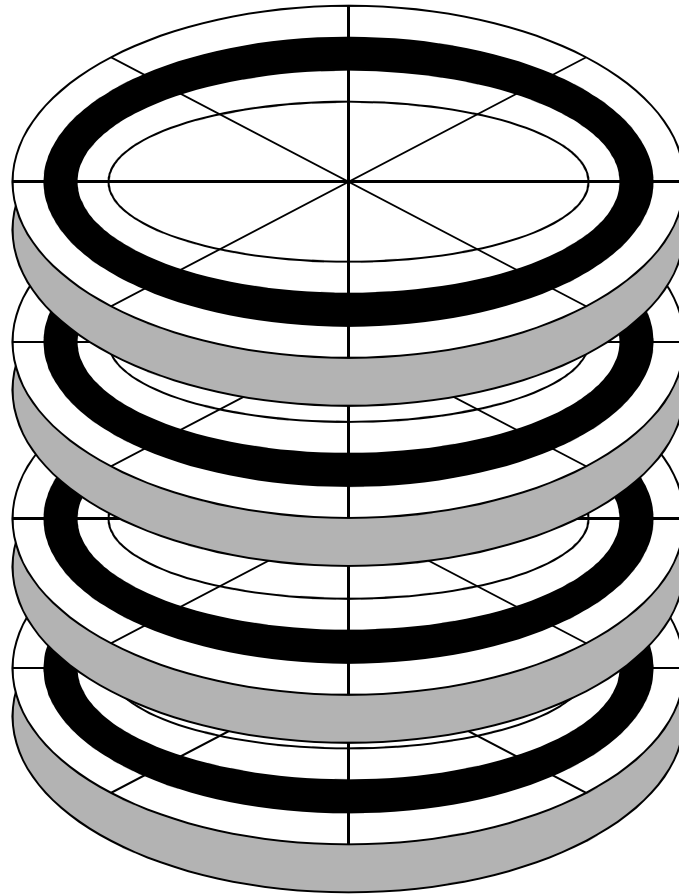


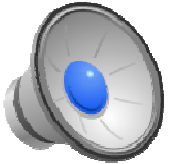


Disk Heads



Disk Sector Numbering





Disk Drive Performance

- Speed of a disk drive is a function of:
 - RPM (7200 – 10,000)
 - Size of the device (1.8” – 3.5”)
 - Density (bits per track; tracks per inch) 500-600Gbit/in²

