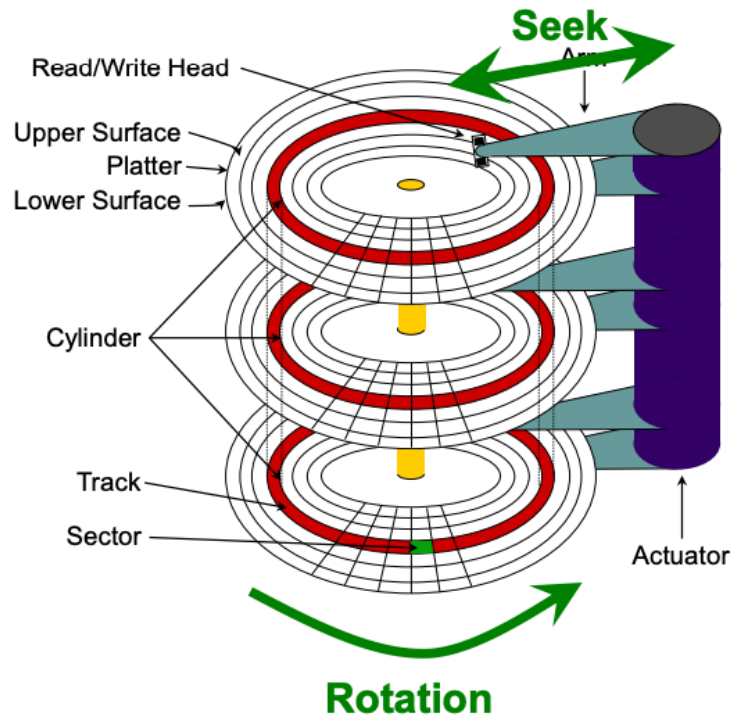# CSC369 Week 9 Notes

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1 Disk I/O
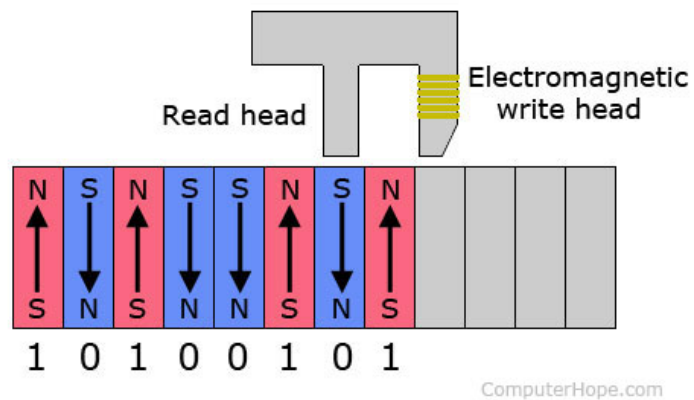
- File system implementation

    - Files and directories live on **secondary storage**

        * Anything outisde of "Primary memory"
        * Is persistent (or non-volatile): Data survives loss of power

- Disk components

    - **Actuator:** is an electronic device controlled by a motor that moves the hard drive head arm. [1]

– **Read/Write Heads:** are the small parts of a hard drive which move above the disk platter and transform the platter's magnetic field into electric current [1]

Hard drive read/write head

– **Upper Surface:**
– **Lower Surface:**
– **Platter:**
– **Cylinder:**
– **Track:**
– **Sector:**

Refernces:

1) Computer Hope: Actuator, link

2) Andrew. (2018, January 16). *Hard links and Symbolic links — A comparison.* Medium. link

- OS ↔ disk interaction

- Logical Block Addressing

- Disk Scheduling

- File System Implementation

- Original Unix File System

- FFS

- Cylinder Groups

- Log Structured File System (LSF)

- NFTS (Windows)

- MFT Record