

# CSE 550: Systems for all

Au 2021

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# Two catalysts for systems research

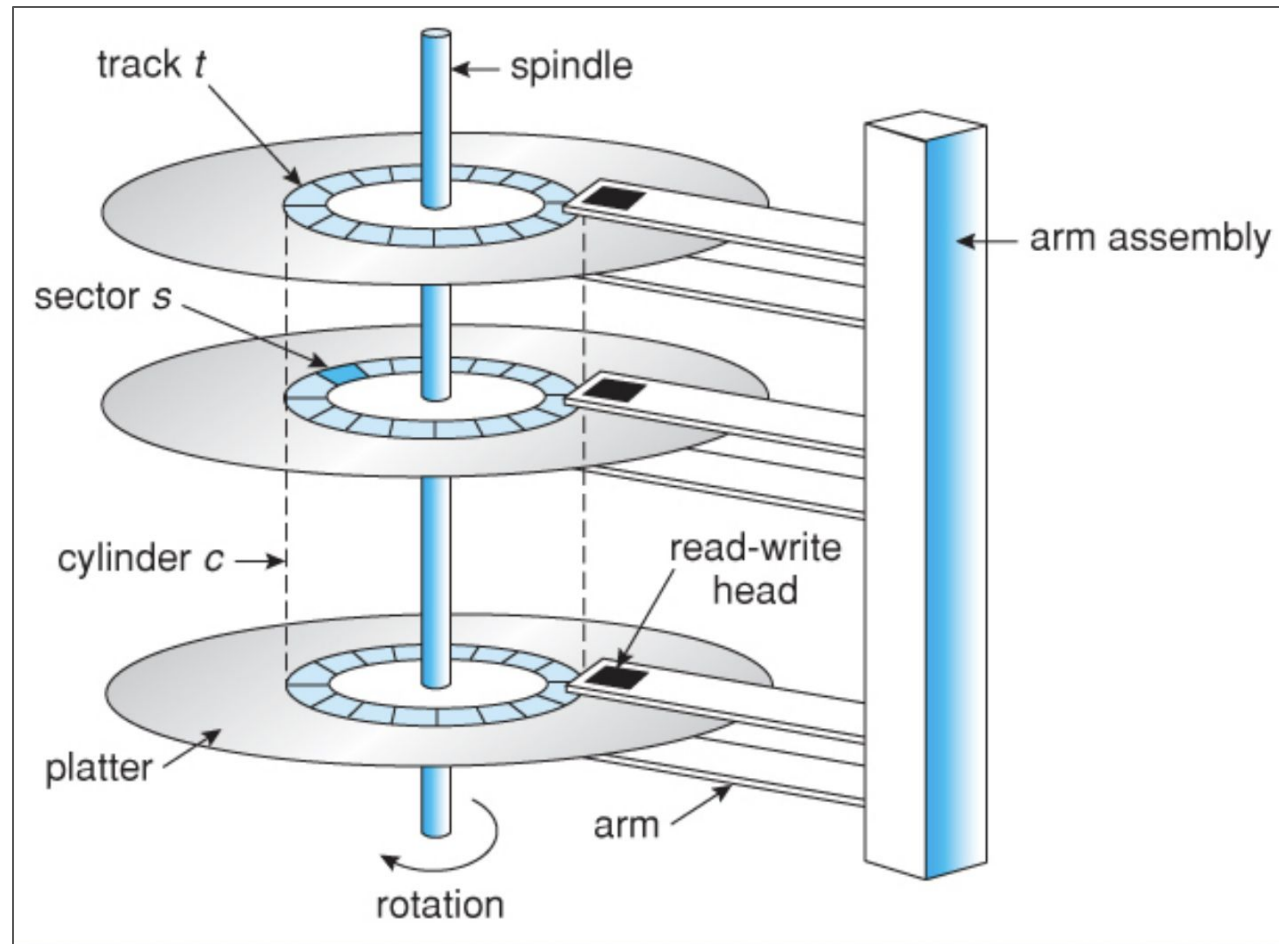
## Changing technology (trends)

- New technology that changes fundamental assumptions (e.g., NVM)
- Moving bottlenecks (e.g., memory IO)

## New workloads

- Global file search □ DHTs
- Sensors □ Stream processing
- ML □ Tensorflow
- ...

# Hard drives



Let's build a file system!

# Other types of data / organization

Key-value stores

Structured data

Timeseries data

GIS data

...

# Other types of media

Tape

Optical

Flash/SSD

DNA

...

Over to Aditya and Priyal

Reminder: Course feedback