

# Provide an abstraction

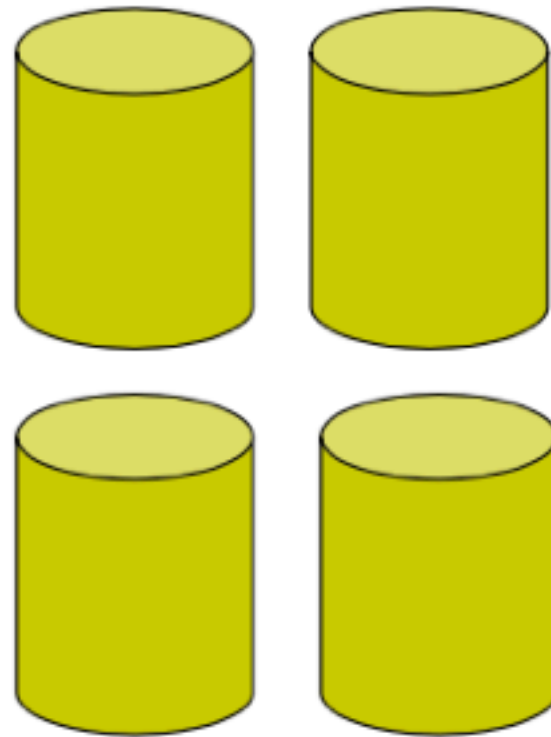
## Reality

Hard Disks

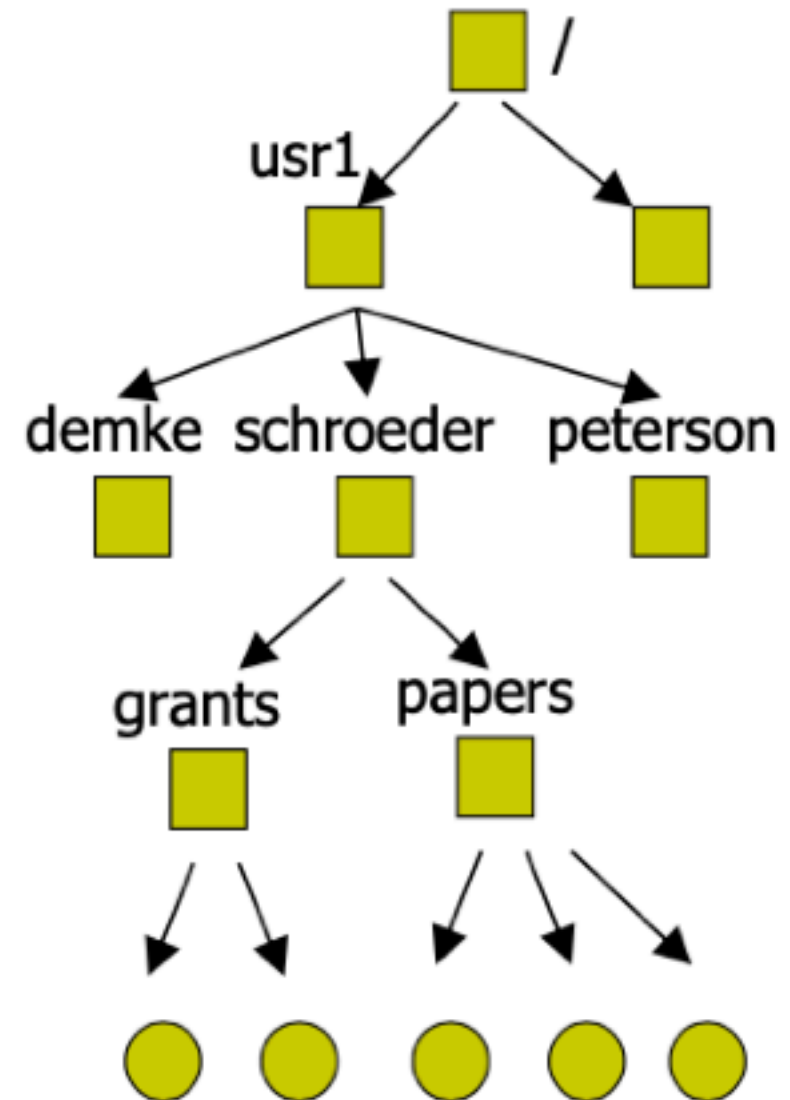
Read block



Write block



## Abstraction



# Goals

- Implement an abstraction (files) for secondary storage
- Organize files logically (directories)
- Permit sharing of data between processes, people, and machines
- Protect data from unwanted access (security)