Filesys

Data = actual data in bits/bytes
Meta data
- name
- type
- location
- size
- creator
- time
- security

API

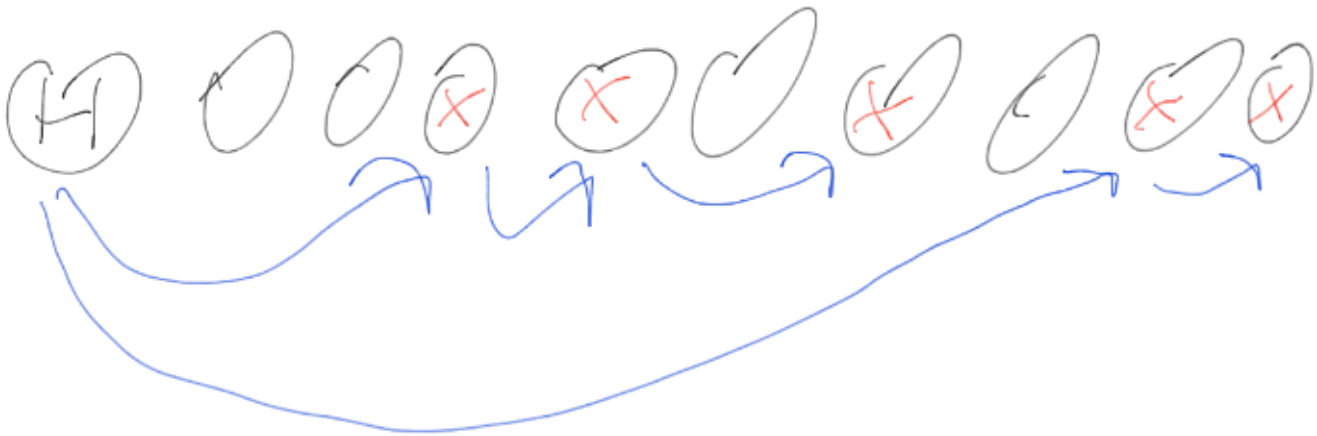
create()
link()
unlink()
open()
close()
read()
write()

Allocation techniques

Contiguous

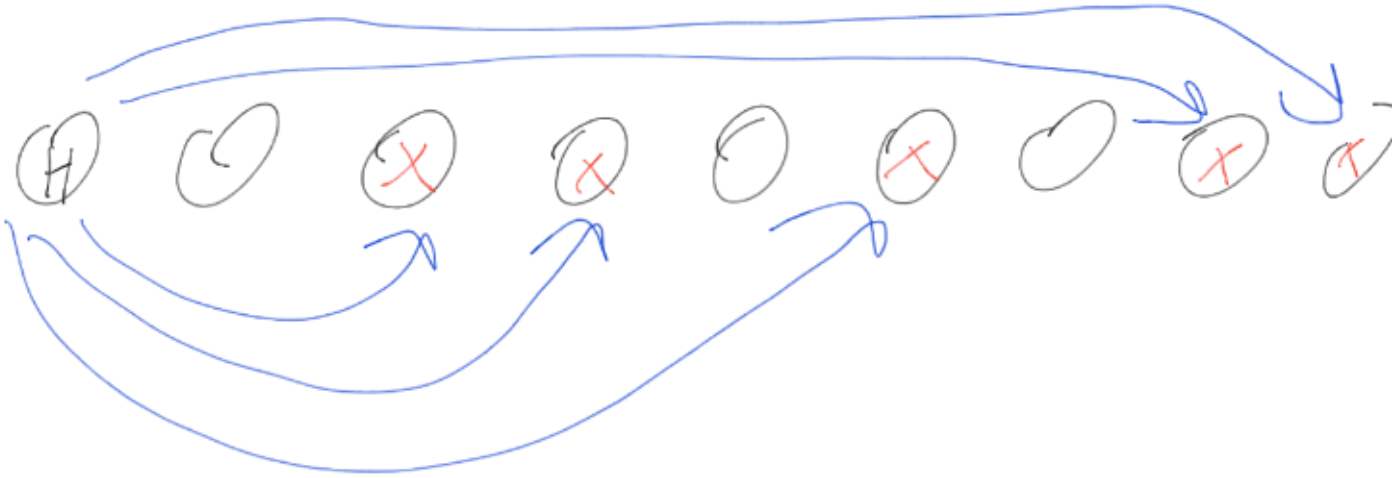
- store contiguously on disk
  - easy to implement
  - best performance
  - doesn't support file growth

Linked



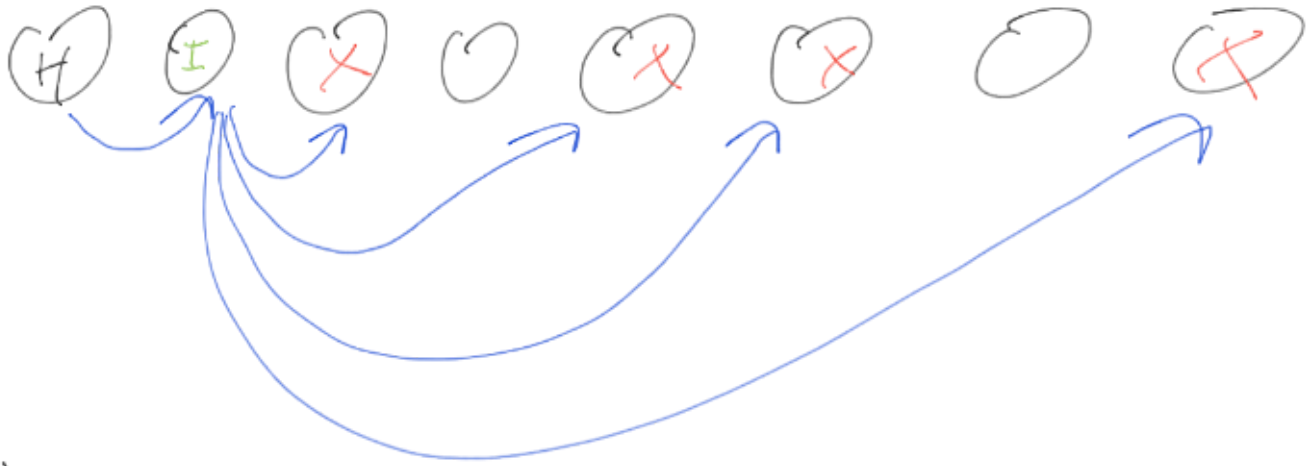
- stored as linked list
  - header contains ptr to 1st & last file block
  - Linked list of data block
  - Linked list in FAT
  - BAD Random access
  - no hard links
  - volume & filesize is limited
  - simple to implement

Direct allocation



- file headers points to each data block
- easy to implement
- no support for large files

Indexed allocation



- direct ptrs to index block
- direct ptrs to data

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