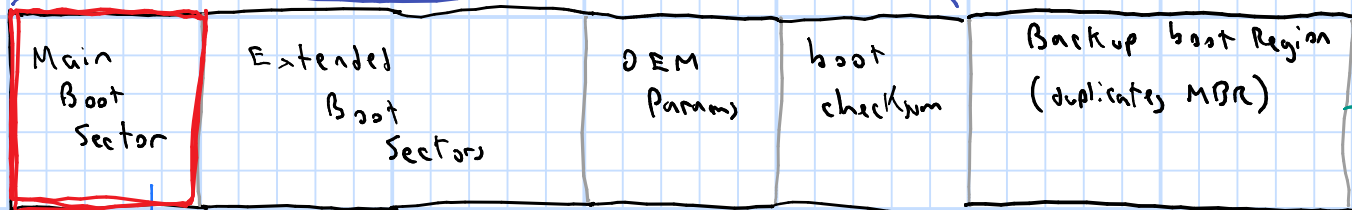
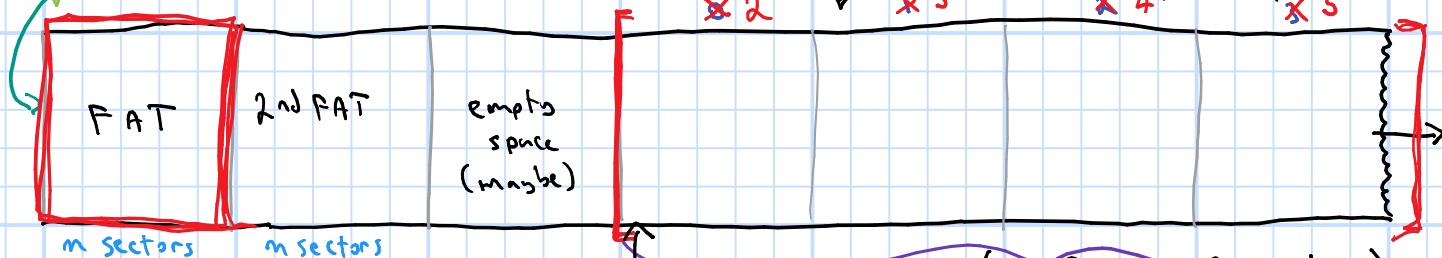


eX-FAT: High-level Volume Structure (Section 2, table 3)  
 Size of (sector) = 512 bytes



$$(Fat Offset) \times (1 \ll BytesPerSectorShift)$$

$$(cluster\# - 2) \times (1 \ll BytesPerSectorShift) \times (1 \ll SectorsPerClusterShift)$$



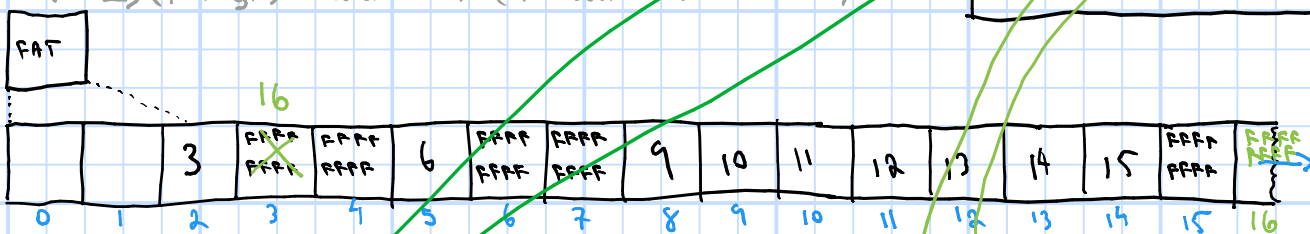
$$(1 \ll BytesPerSectorShift) \times (1 \ll SectorsPerClusterShift)$$

$$(ClusterHeapOffset \times (1 \ll BytesPerSectorShift))$$

Size of (cluster) >= Size of (sector)

eX-FAT: Worked FAT example

- Fs Metadata (MBR)
- First Cluster of Root directory: 2
  - Cluster size: 128 bytes
- $(1 \ll BytesPerSectorShift) \times (1 \ll SectorsPerClusterShift)$



Cluster chain for E:\ (linked list)

2 → 3 → NULL

Cluster chain for hello.txt

4 → NULL

Cluster chain for directory

5 → 6 → NULL

Directory Entries (Section 7.4)

- entry set for 1 file
- File (1) → type
  - Stream Extension (1) → 1\*cluster
  - File name (at least 1)

