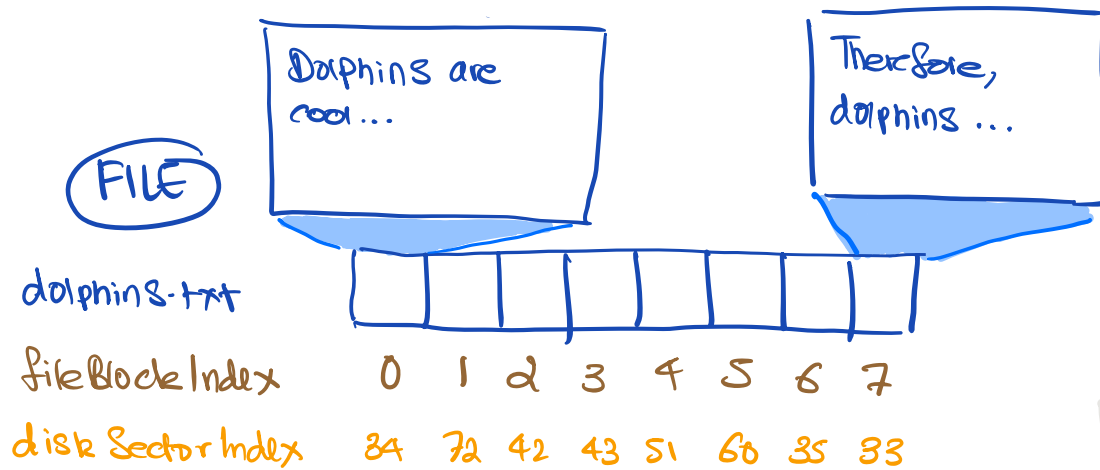


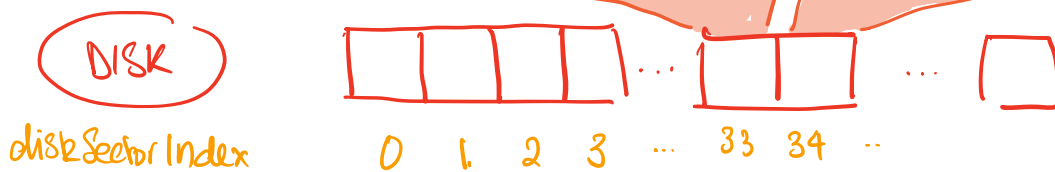
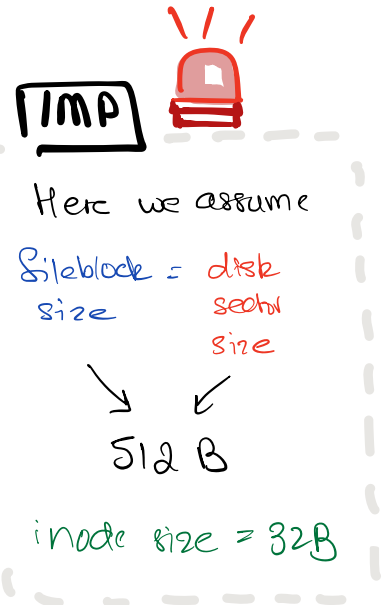
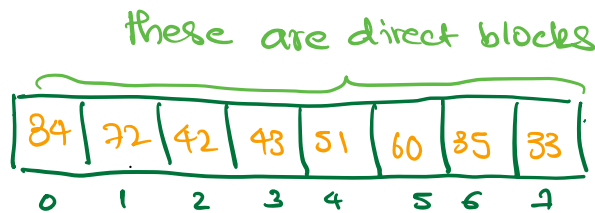
# SMALL MODE



## INODE

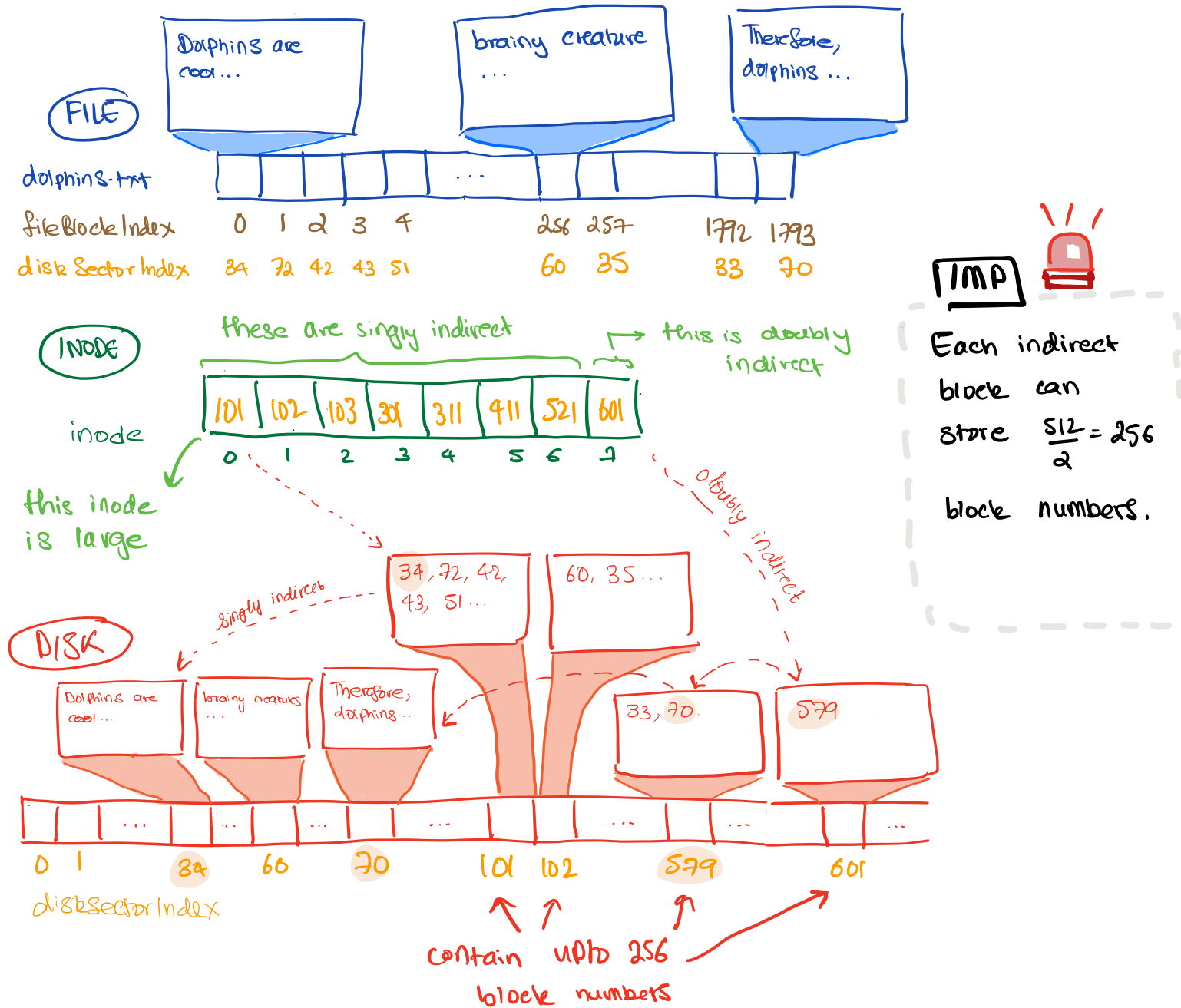
inode

this inode is 'small'



If we want to retrieve FileBlockIndex 4 of dolphins.txt, we look at inode [4] which takes us to diskSectorIndex 51.

# LARGE MODE



If we want to retrieve fileBlockIndex 1793 of dolphins.txt, we look at inode [7] which takes us to diskSectorIndex 601 which leads us to diskSectorIndex 579 which leads us to diskSectorIndex 70 which contains the content "Therefore, dolphins ..."

# INODES

Suppose we have the following files & inodes

dolphins.txt	1
marine-life/	16
jellies.png	17
fish.mp3	20

IMP

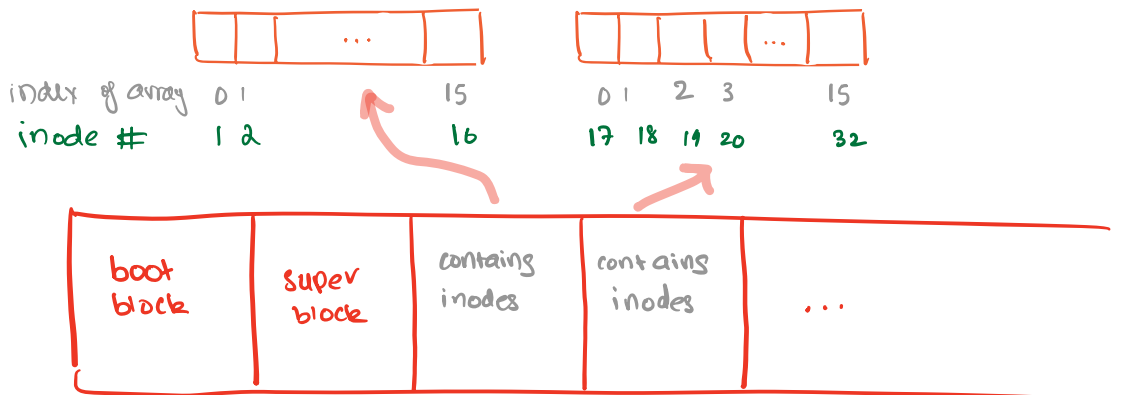


Inode  
Numbers  
start at 1

DISK

each block contains

$$\frac{512}{32} = 16 \text{ inodes}$$



diskSector  
Index

0 1 2 3

skip 2 sectors

If we want to read inode of fish.mp3 we  
do  $(20 - 1) / 16 + 2 \rightarrow \text{diskSectorIndex} = 3$   
and  $(20 - 1) \% 16 \rightarrow \text{index of array} = 3$

make 0 index

inodes per block

fin.

Yay!! You are a Unix V6 pro now