

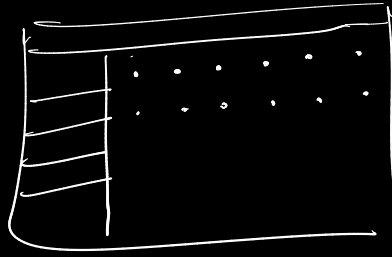
# Netflix Design

## Localfix

### file manager

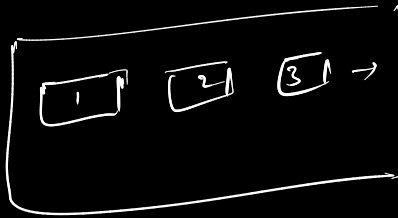
#### use-case

files → videos  
(.mp4, .mkv, .flv, .mov)



view as  
→ Thumbnails → Small  
→ Details → M  
→ L  
→ Series  
→ Hover → Preview  
→ Thumbnail → users or default

Continue Watching



#### Localfix

Preview on Hover  
No Preview on Hover

#### Motivation

camera

.jpg  
.png  
.mp4

#### Challenges

→ Private Videos ;)  
→ Hover → Preview

60 min  
6th min.

→ 1st frame?  
→ 10% of the video

#### Source code

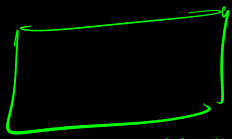
of one of the file managers  
that give us this option

2GB size

#### Localfix

2GB RAM

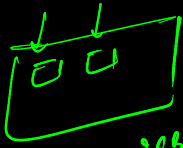
1GB RAM



59 min.

155kB

2.2GB



{ 10 seconds → 2GB  
1 hr → 2GB }

size ↔ duration

→ Preview Feature ... 😊

Private videos

↓  
NSFW content

64GB → 2GB  
2GB → 256MB

Playing a 100GB video very slow  
↓

→ File name → Title ✓

→ Thumbnail → ... 😊

→ Details of the video → size ... 😊  
↓ duration of the file

→ Sorting by date / size ... 😊

→ folder size / extra details ... 😊

→ Quality of each video → metadata ... 😊

→ Time taken to onboard a video ... 😊

→ Watch the video ... 😊

can we downscale the quality (compute intensive)

→ Computing ... 😊

Locally

Cloud

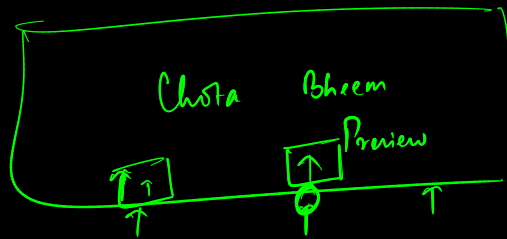
↓  
more features

→ Video loading in the memory → 10GB ... 😊

↳ fragmentation (> memory)

→ Indexing ... 😊

→ Watching large videos ... 😊  
(buffering)



→ Preview on hover ... 😊  
while watching  
video  
(timestamp)

→ Ranking / Recommendation ... 😊  
Compute  
intensive { pre-compute  
/ cloud

→ Video Processing ... 😊  
unique  
people { no. of  
people

→ Open video in  
file manager ... 😊