VIDEO TITLE'S

AMITH M G

VIDEO TITLE'S

AGENDA

Name a video based on the frame

INTRODUCTION

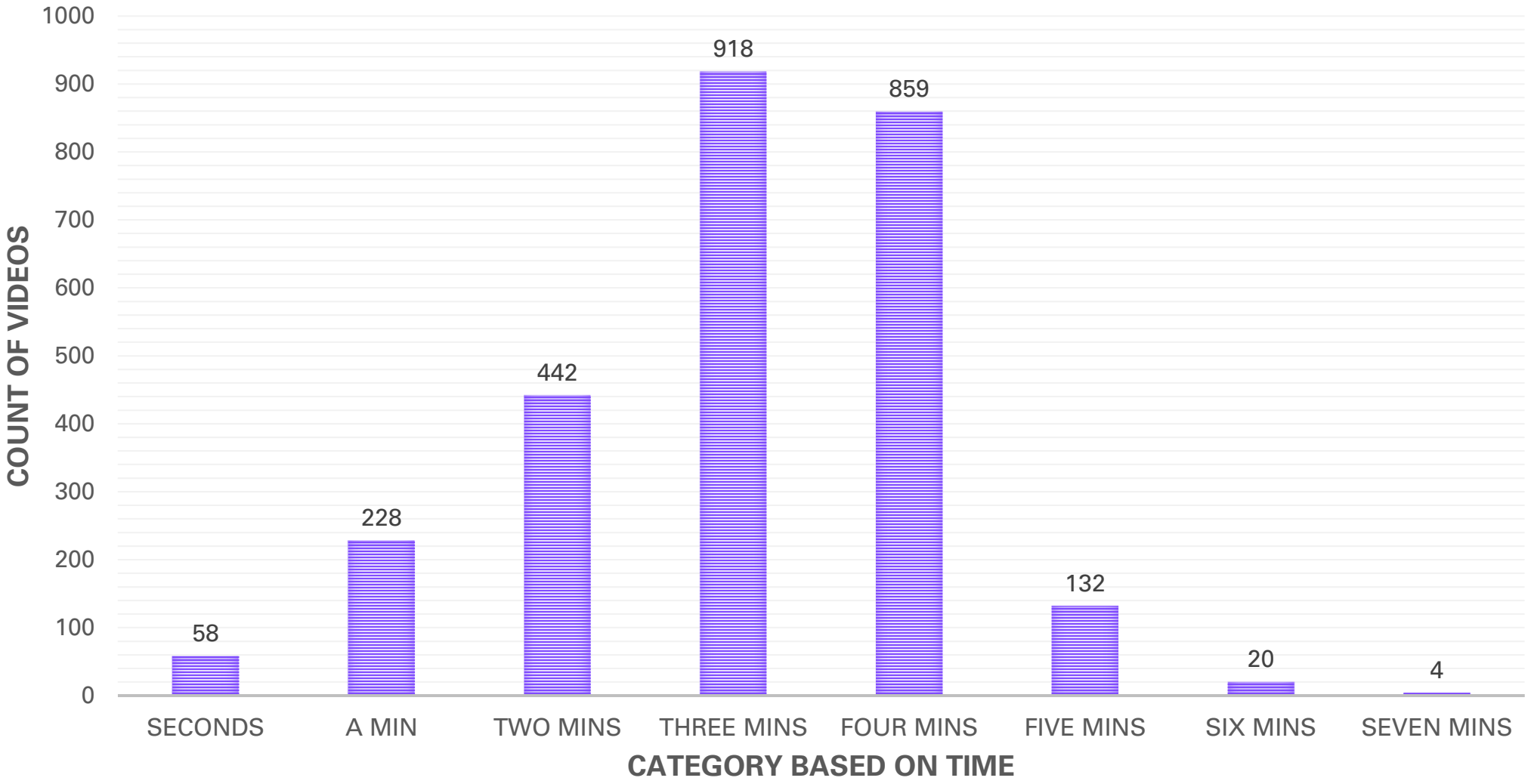
The activity involves reading a video and renaming the video using the first few frames played at the start of the video. There are 2676 videos that have to be renamed. The task involves various packages and libraries explained going forward. Also addressing the scalability and flexibility of the project to meet future expectations of the end user.

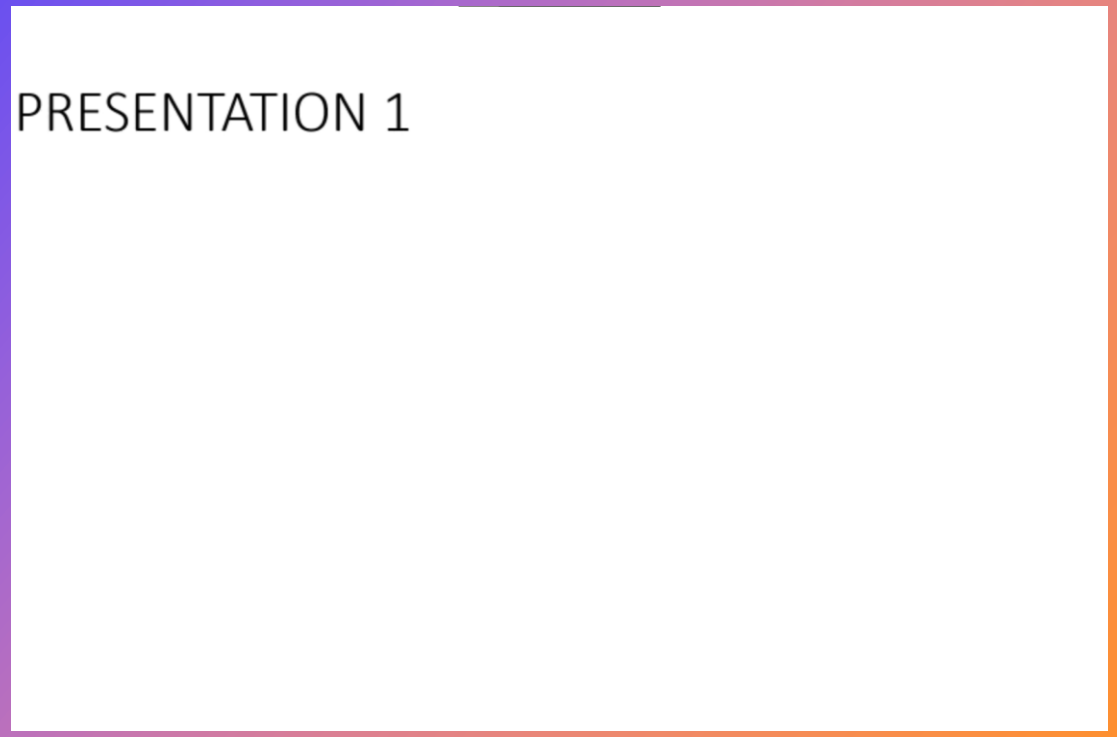
IDENTIFY & RENAME

EACH VIDEO HAS TO BE READ, FIRST FEW FRAMES WILL BE EXTRACTED AND USED TO RENAME THE VIDEO. DETAILS LIKE THE DURATION OF THE VIDEO IS GROUPED AND PRESENTED IN THE NEXT GRAPH. ALL VIDEOS ARE 1280X720 RGB IN RESOLUTION.

THERE IS SCOPE TO CUSTOMIZE THE USABILITY OF THE PROJECT BASED ON THE NEED OF THE END USER. HOWEVER AS PHASE 1 I HAVE LIMITED TO IDENTIFY AND RENAME AS IT MY REQUIREMENT.

VIDEO CATEGORIES





SAMPLE IMAGES

The images are screenshots from the video. The video is named as “video(1).mp4”. The video can be renamed in 3 ways.

1. Welcome to xyz course
2. New video 1
3. PRESENTATION 1

In this case I will be renaming the video as “Welcome to xyz course.mp4” since its my requirement.

DETAILS

DETAIL OF ALGORITHM

- The video is read into R.
- The ingested video is stored as frames.
- Each frame has some text which is to be used to rename the video.
- Extract the text and rename the video file.

DETAIL OF PACKAGES

- Used libraries
  - magick
  - Tesseract
  - Av
- The R package installer was used, and it handles all the interdependencies on a windows machine.

RESULT DISCUSSION

- The summary slide provides a better view of the results.
- Since I had 2676 videos to be renamed this approach has been beneficial to me.
-

TECHNOLOGY

Dependencies

- Libraries:
  - magick
  - Tesseract
  - Av
- Linking to ImageMagick 6.9.9.14
- Enabled features: cairo, freetype, fftw, ghostscript, lcms, pango, rsvg, webp

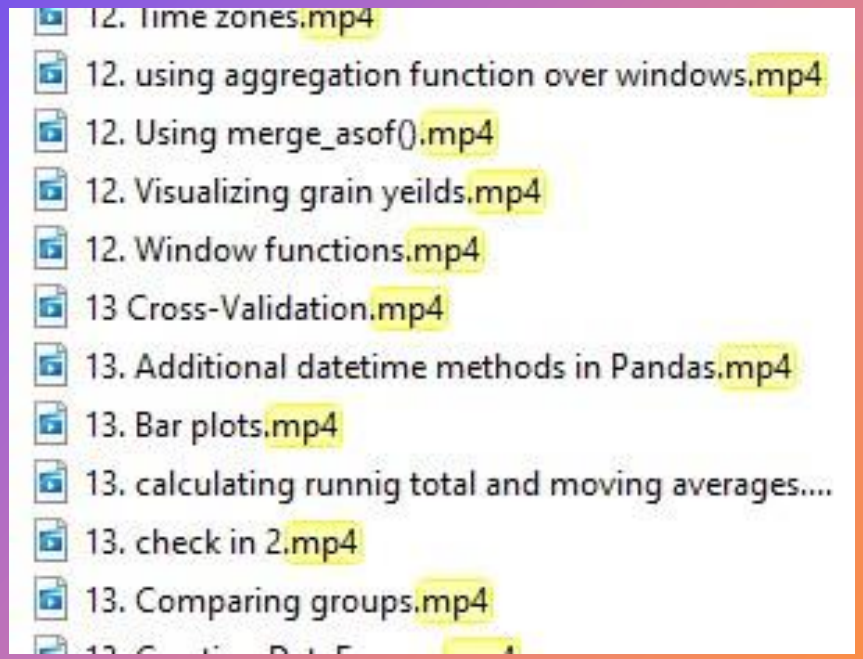
C:\Users\kotre\
rive\Documents\C

Code

- fname <- '13. ROLLUP.mp4'
- library(magick)
- test1=magick::image_read_video("1. Introduction to data driven decision making.mp4")
- test1[1]
- test1[20]
- test1[2]
- img_to_text=test1[2]
- img_to_text_complete=magick::image_ocr(img_to_text,language = "eng")
- img_to_text_complete

1

2



3

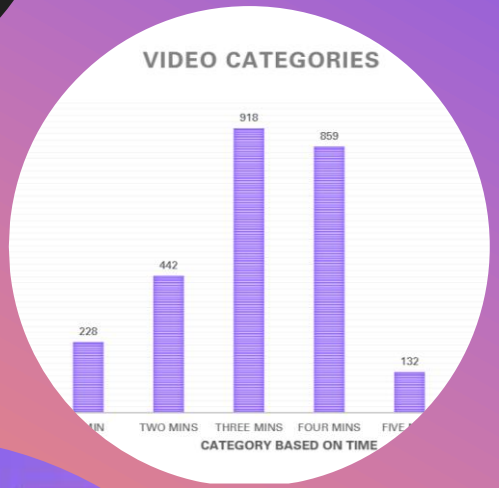
SUMMARY

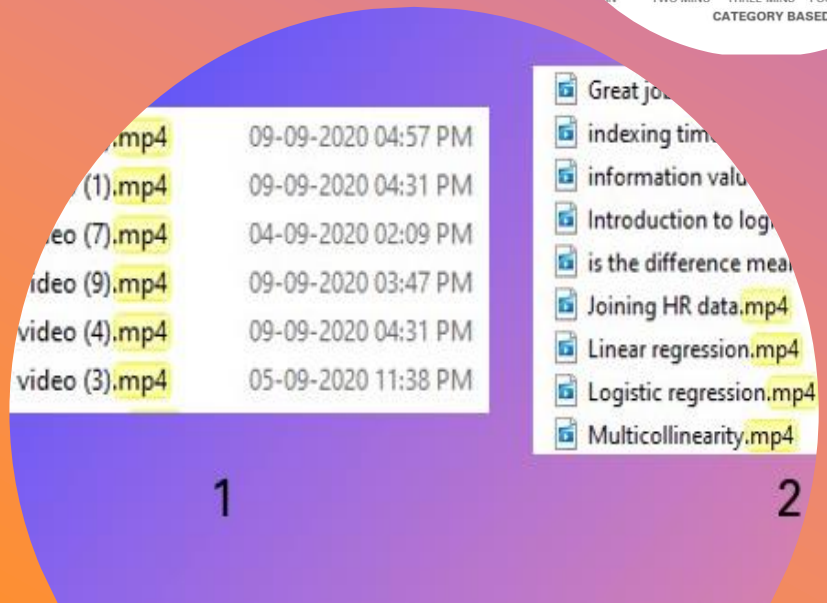
VIDEO TITLE'S

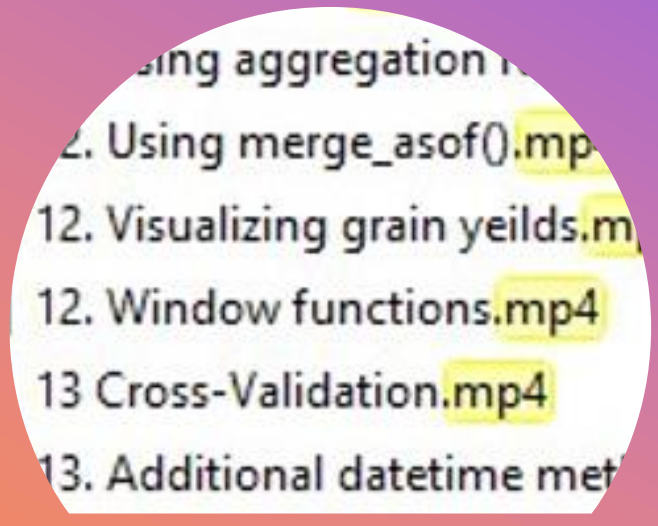
FULL VIEW OF THE PROCESS

1. The unnamed video in the folder.
2. Post renaming the files with this algorithm.
3. An extension to the project is to order the videos. Files arranged based on the PDF reference (STAGE-2)

VIDEO TITLE'S







THANK YOU

AMITH MG

amithmg6@gmail.com

https://github.com/Amithmg6