5/6/25, 3:43 PM Untitled - Colab

```
import cv2
from google.colab import files
import numpy as np
import os
uploaded = files.upload()
video_path = next(iter(uploaded))
cap = cv2.VideoCapture(video_path)
fps = cap.get(cv2.CAP_PROP_FPS)
width = int(cap.get(cv2.CAP_PROP_FRAME_WIDTH))
height = int(cap.get(cv2.CAP_PROP_FRAME_HEIGHT))
fourcc = cv2.VideoWriter_fourcc(*'mp4v')
out_normal = cv2.VideoWriter('normal.mp4', fourcc, fps, (width, height))
out_slow = cv2.VideoWriter('slow.mp4', fourcc, fps / 2, (width, height))
out_fast = cv2.VideoWriter('fast.mp4', fourcc, fps * 2, (width, height))
while cap.isOpened():
    ret, frame = cap.read()
    if not ret:
        hreak
    out_normal.write(frame)
    out slow.write(frame)
    out_fast.write(frame)
cap.release()
out_normal.release()
out_slow.release()
out_fast.release()
from IPython.display import HTML
from base64 import b64encode
def show_video(file_name):
    mp4 = open(file_name,'rb').read()
    data url = "data:video/mp4;base64," + b64encode(mp4).decode()
    return HTML(f'<video width=400 controls><source src="{data_url}" type="video/mp4"></video>')
print("Normal Speed Video:")
display(show_video("normal.mp4"))
print("Slow Motion Video:")
display(show_video("slow.mp4"))
print("Fast Motion Video:")
display(show_video("fast.mp4"))
```

5/6/25, 3:43 PM Untitled - Colab

Choose Files No file chosen enable.

Saving elefant\_1280p.mp4 to elefant\_1280p (1).mp4

Normal Speed Video:

0:00

Slow Motion Video:

Fast Motion Video: