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#!/usr/bin/env python3

import cv2
import time
import argparse
import shutil
import os

def main(inFile, outFolder):
    vid = cv2.VideoCapture(inFile)

    cnt = 0
    start = time.time()      # start time needed to calculate the second passed
    while vid.isOpened():
        ret, frame = vid.read()
        if type(frame) == type(None):    # check if video is over (frame valid?)
            break

        # show the frame - otherwise video is procced to fast.
        cv2.imshow('name', frame)

        # take frame and write it as Screenshot
        if start + 1 <= time.time():
            cv2.imwrite("%s/shot_%d.jpg" % (outFolder, cnt), frame)
            print("Writing:\t%s/%s_%d.jpg" % (outFolder, inFile, cnt))
            cnt += 1
            start = time.time()

        # emergency break - manually killable by pressing q or ESC
        if cv2.waitKey(5) & 0xFF == 27 or cv2.waitKey(5) & 0xFF == 113:
            break    # thats ESC or 'q'

    vid.release()

# This makes only the Parsing, actual "intelligence" happens above
if __name__ == "__main__":
    # configuration of argumentparser input from Bash
    parser = argparse.ArgumentParser(description='creates screenshots every second and
    wrts them to given Folder')
    parser.add_argument("video", help="InputVideo")
    parser.add_argument("-o", "--output", help="specify output directory name for Resu
    lting Video [MP4]", default='Screenshots')
    # to show the usage - type "./shotGrabber.py --help"

    args = parser.parse_args()

    if os.path.exists(args.output):    # remove the folder if exists
        shutil.rmtree(args.output)

    os.mkdir(args.output)
    main(args.video, args.output)

    cv2.destroyAllWindows()
```