videoencframewk

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1 Videoencframewk

Program to capture video from a camera and store it in an recording file, in Python txt format, using cPickle This is a framework for a simple video encoder to build. It writes into file 'videorecord.txt'

```
-Gerald Schuller, April 2015
```

- **Import relevant modules:**

```python
In [1]: import numpy as np
        import cv,cv2
        import cPickle as pickle


        cap = cv2.VideoCapture(0)

        f=open('videorecord.txt', 'wb')
```

- **Process 25 frames:**

```python
In [2]: for n in range(25):

            ret, frame = cap.read()

            if ret==True:
                #show captured frame:
                cv2.imshow('frame',frame)

                #Here goes the processing to reduce data...
                reduced = frame.copy()
                reduced=np.array(reduced,dtype='uint8')# for the Cb and Cr components use the in
                #"Serialize" the captured video frame (convert it to a string)
                #using pickle, and write/append it to file f:
                pickle.dump(reduced,f)

                if cv2.waitKey(1) & 0xFF == ord('q'):
                    break
            else:
                break
```

- ** Release everything if job is finished:**

```
In [3]: cap.release()
        f.close()
        cv2.destroyAllWindows()
```