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/**
 * OpenCV video streaming over TCP/IP
 * Client: Receives video from server and display it
 * by Steve Tuenkam
#include "opencv2/opencv.hpp"
#include <sys/socket.h>
#include <arpa/inet.h>
#include <unistd.h>
using namespace cv;
int main(int argc, char** argv)
    //networking stuff: socket , connect
    int
                sokt;
    char*
                serverIP;
    int
                serverPort;
    if (argc < 3) {
           std::cerr << "Usage: cv_video_cli <serverIP> <serverPort> " << std::endl;</pre>
    serverIP = argv[1];
    serverPort = atoi(argv[2]);
    struct sockaddr_in serverAddr;
                        addrLen = sizeof(struct sockaddr_in);
    socklen t
    if ((sokt = socket(PF_INET, SOCK_STREAM, 0)) < 0) {</pre>
        std::cerr << "socket() failed" << std::endl;</pre>
    }
    serverAddr.sin_family = PF_INET;
    serverAddr.sin_addr.s_addr = inet_addr(serverIP);
    serverAddr.sin_port = htons(serverPort);
    if (connect(sokt, (sockaddr*)&serverAddr, addrLen) < 0) {</pre>
        std::cerr << "connect() failed!" << std::endl;</pre>
    }
```

```
//OpenCV Code
Mat img;
img = Mat::zeros(480 , 640, CV_8UC1);
int imgSize = img.total() * img.elemSize();
uchar *iptr = img.data;
int bytes = 0;
int key;
//make img continuos
if ( ! img.isContinuous() ) {
      img = img.clone();
std::cout << "Image Size:" << imgSize << std::endl;</pre>
namedWindow("CV Video Client",1);
while (key != 'q') {
    if ((bytes = recv(sokt, iptr, imgSize , MSG_WAITALL)) == -1) {
        std::cerr << "recv failed, received bytes = " << bytes << std::endl;</pre>
    }
   cv::imshow("CV Video Client", img);
    if (key = cv::waitKey(10) >= 0) break;
}
close(sokt);
return 0;
```