#include <stdio.h>

#include <iostream>

#include <opencv2/highgui/highgui.hpp>

#include <opencv2/imgproc/imgproc.hpp>

#include <opencv2/core/core.hpp>

using namespace cv;

using namespace std;

int i=0, a, t, j, img2;

Mat binary(Mat img,int t){

Mat img2(img.rows, img.cols, CV\_8UC1);

for(i=0; i<img.rows; i++){

for(j=0; j<img.cols; j++){

a = img.at<uchar>(i, j);

if(a<t){

img2.at<uchar>(i, j) = 0;

}else{

img2.at<uchar>(i, j)=255;

}

}

}

return img2;

}

int main(){

Mat img = imread("lena.jpg", CV\_LOAD\_IMAGE\_GRAYSCALE);

namedWindow("lena", WINDOW\_NORMAL);

createTrackbar("track", "lena", &t, 255);

imshow("lena",img);

while(1){

imshow("lena2", binary(img,t));

waitKey(5);

}

waitKey(0);

}