Exercise 4: Binary vision

In this exercise, you will use OpenCV's methods to apply thresholding and morphological transformations. You will then find connected components using your own implementation of the algorithm.

- Load one of the provided images (fx. licensePlate1.png) as a grayscale image. Perform thresholding on the image with a method of your choice. The thresholded image should have the digits in the forground and the white part of the licence plate in the background. (Use fx. background is 0 foreground is 255. You might have to inverse the colors in the image.). Think about the pros and cons of the different thresholding methods. What are the required assumptions on the image histograms?
- Remove unwanted noise in the binary images using morphological operations
- Implement the connected components algorithm and paint each component a different color.
- (Optional: Implement your own versions of thresholding and morphological operations)
- (Optional: Use OpenCVs connectedComponents or contours methods to color the digits instead of your own implementation)