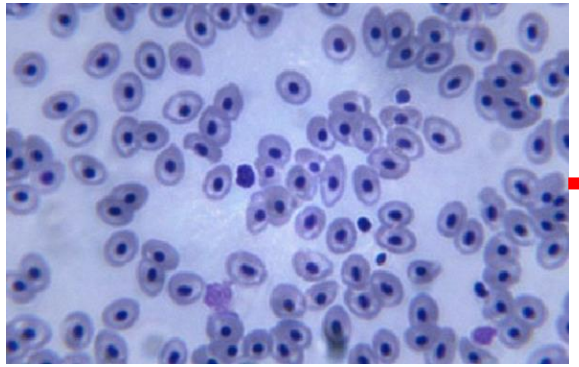
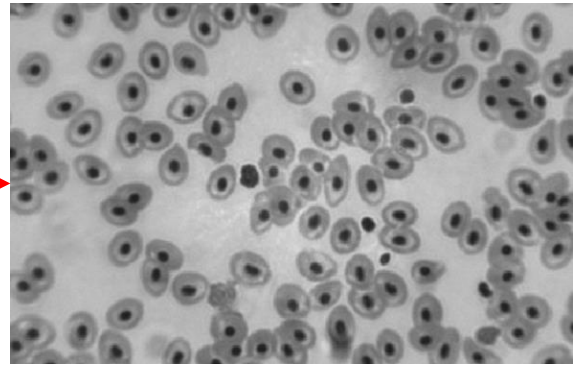
Blood Cell Detection

Step 1:



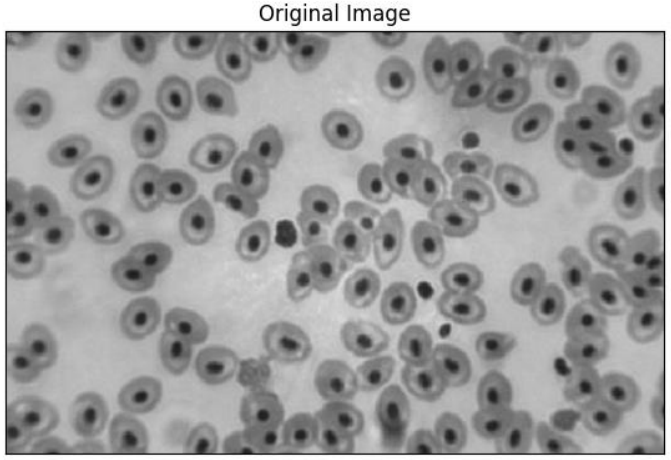
Original image

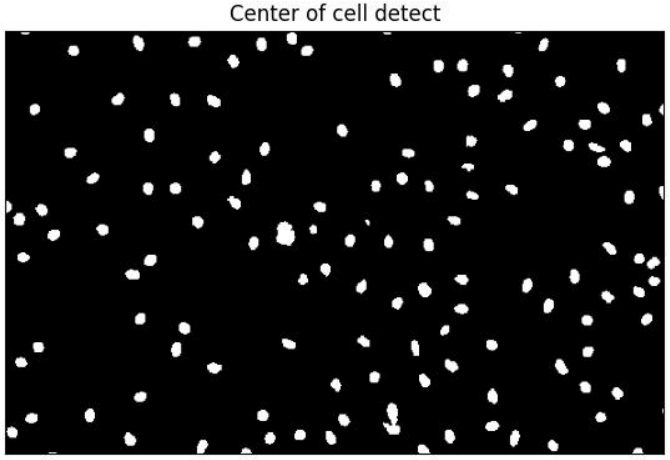
Convert to



Grayscale image

Step 2: Use color detection to detect center of blood cell by detect black color





Use opencv to do color detection

1. **Set color format to HSV**
2. **Detect black color in range**

```
# Black color in HSV is (0, 0, 0)
# lower range in HSV
lower_range = (0, 0, 0) # lower is black color
# upper rangein HSV
upper_range = (0, 0, 75) # upper is black color in lightness 30%
# detect center of cell by color
mask = cv2.inRange(hsv_img, lower_range, upper_range)
```

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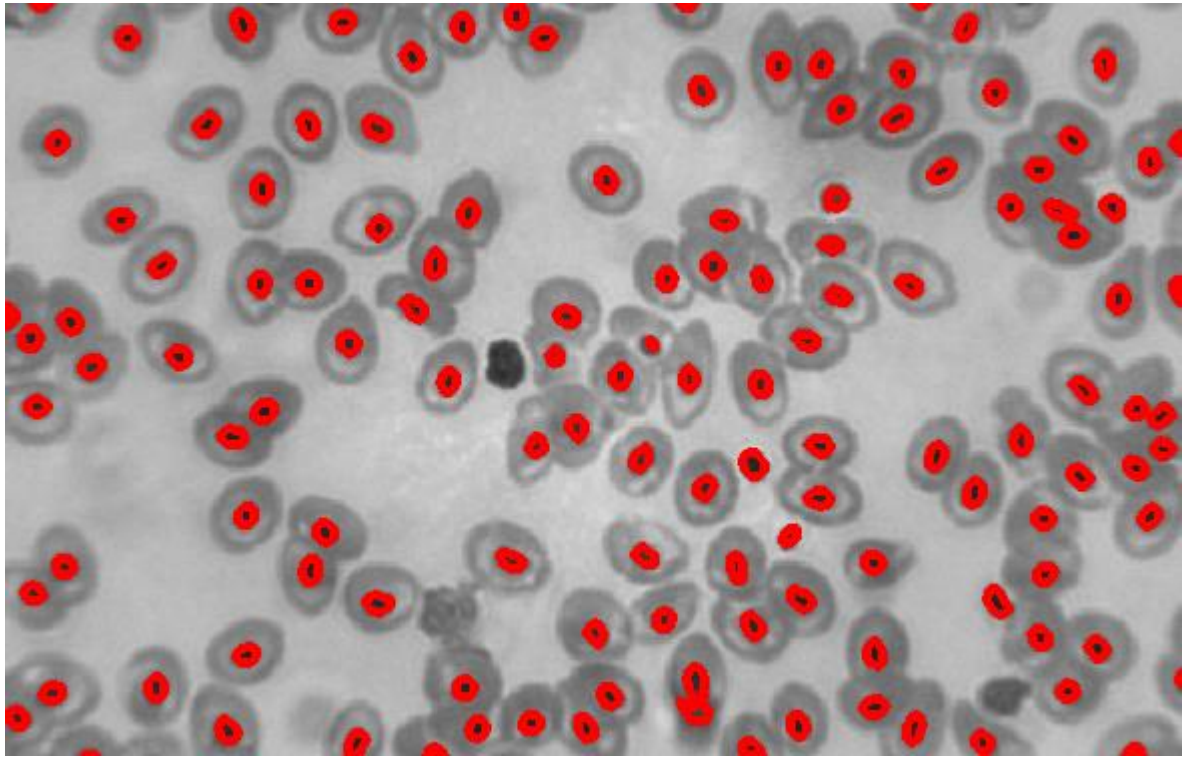
Step 3: Use contours area to detect blood cell in condition contours area < 205 if it true count that to blood cell and draw color on edge of that contour area



Blood cell Detection Count is 129 cell

Read more in GitHub : https://github.com/DenWaritthon/BlooodCellDetection.git

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