## Latex Practice

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HSE

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Latex Practice

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Tasks And Solutions

example of extracting skin color

Conclusion



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## Intro

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Slides of the following presentation are remade from my presentation for coursework.

skin color

Conclusion

1. Split videos into frames

2. Detect and extract the

image

skin on the

- $\rightarrow$
- \_\_\_\_\_

- def video\_to\_frames(path)
- def extract\_skin(image)

3. Extract dominant color on the image

def
extract\_dominant\_color
(image,
number\_of\_colors=1
,hasThresholding=False)

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Here is an example of extracing dominant color from the image.





Dynamic color range: (153, 106, 86)

Out[51]: <matplotlib.image.AxesImage at 0x2fa73cf15b0>



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Example of extra

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- The average differences between rgb values of dominant skin colors are lower for healthy people than for people, ill with phlebological diseases.
- The maximum deviation of rgb values of dominant skin colors is lower for healthy people than for people, ill with phlebological diseases.
- As a result, the average values of the real values were obtained for groups of patients and healthy people. This research shows, that these values differ among groups. Hence the algorithm may be useful in early noninvasive diagnosis of venous diseases