**Color Segmentation and Processing – Activity 1**

Marco Immanuel B. Rivera\*  
\*Corresponding author: mbrivera3@up.edu.ph

**Abstract**

Color segmentation is an image processing technique that requires picking out a region of interest (ROI) in an image and constructing its color histogram. In this activity, we show three different ways of image processing that leads to color segmentation, namely, thresholding, parametric segmentation, and histogram backprojection.

**1 Introduction**

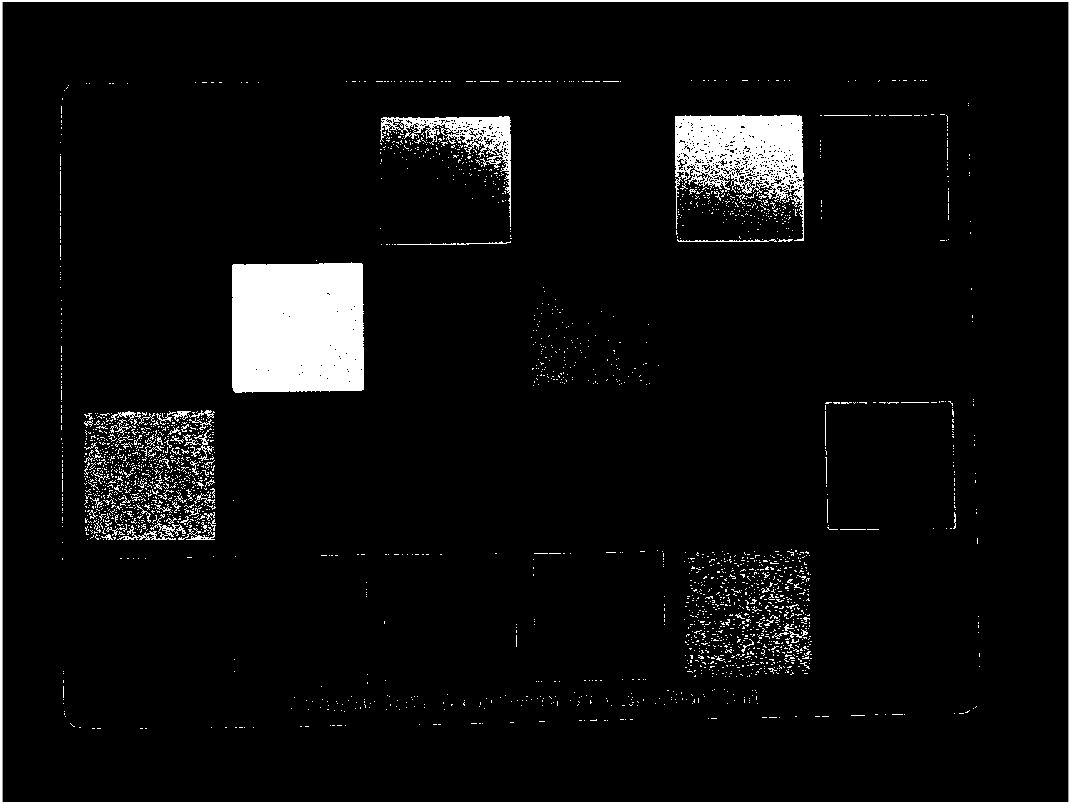
Figure 1 shows the Tan Macbeth Chart which is used for picking out ROI and demonstrating color segmentation.



Figure 1: This is an example of a single column-wide figure. Figure captions are preferably self-contained.

We crop the color from row 2, column 2 (counting from the upper left). The next sections will show how color segmentation works.

**2 Thresholding**

Figure 1: This is an example of a single column-wide figure. Figure captions are preferably self-contained.

# Figures, Equations, Tables, References

Place figures at the top or at the bottom of the page, closest to the text where the figure is referred and discussed. Figure 1 shows how images be embedded in the manuscript. The figure-captions are centered. Figure-captions

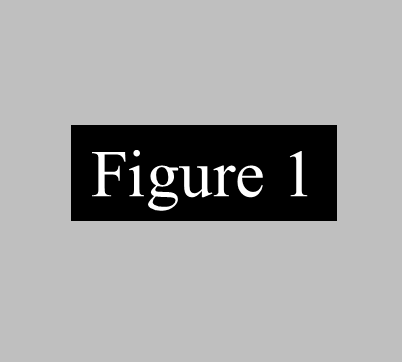


Figure 1: This is an example of a single column-wide figure. Figure captions are preferably self-contained.

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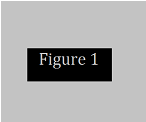
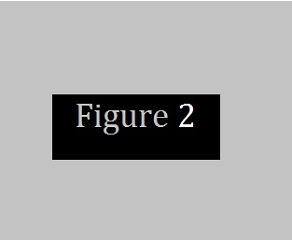
 

Figure 2: Multiple images can be inserted inline

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 (1)

where *a* is length of the adjacent side and *o* the length of the opposite side. For MS Word, use Word's Equation Editor or MathType for in-text and display notation. Numbered display equations can be labeled manually or with MathType's numbering feature. Please keep all notation and formatting as simple as possible.

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| --- | --- | --- |
| Time (s) | x (m) | y(m) |
| 0.0 | 0.0 | 0.1 |
| 0.2 | 0.2 | 0.5 |
| 0.4 | 0.4 | 1.0 |

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**4 Conclusions**

SPP is implementing an online submission and review process. Quality of English standards must be met for final acceptance and publication. MS Word submissions are acceptable, but we strongly encourage the use of the LaTeX template for faster publication process.

**Acknowledgements**Here are the acknowledgements.

**\*Additional Reminders**

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**References**

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