

**CSE3018 CONTENT BASED IMAGE AND VIDEO RETRIEVAL LAB
EXERCISE - 5**

DATE: 11.03.2021

COLOR COHERENCE VECTOR

1. Derive the color coherence vector of the given image.
 - a. Read the colour image
 - b. Convert into grayscale
 - c. Quantize the image for 16 levels.
 - d. Find out the maximum and minimum patch size. Choose an in-between value as the threshold value.
 - e. Keeping that as the threshold value, find out the coherent and non-coherent values.
 - f. Provide the 3-column vector as the output.
2. Reference : <https://owlcation.com/stem/Image-Retrieval-Color-Coherence-Vector>
3. <https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&ved=2ahUKewii8NyshqLkAhVKKo8KHZg8BksQFjABegQIAxAC&url=https%3A%2F%2Fwww.cs.cornell.edu%2F~rdz%2FPapers%2FPZM-MM96.pdf&usg=AOvVaw3fA6Kj5f8nL6HTaubblh90>
4. Implement a CBIR using these features and City Block distance metric.