

TASK 8: Color recognition through classification: After the SOMs have been trained, the weighted vectors should be clustered together by their similarities. Given this to be the case, craft a way to label all the similar data by asking the program what color is “and then a specified RGB color vector”. If the system doesn’t already have a classification for the given vector, supply one to the program to label all the similar ones and to get an accurate color classification. A common post-clustering technique is to use k-means clustering.

TASK 8 Demo Outline: "Color recognition through classification"

1. Create a method to perform k-means clustering on the grid upon completion
2. Create a method to allow the user to label clusters and query for the label of the already labeled clusters