

possible solution

(Note: This method is optional, there are numerous methods to visualize)

visualizing the configuration space

Initialize an image map of the size of configuration space

in obstacle function plot it as a different color (Ex, 255,255,255)

Use open-cv function mentioned in the tutorials to plot them

visualization of path explored

Make a separate function which would take image map, nodes explored, visited etc. as argument (optional) and print it explored nodes over image map.

This function can be called in the loop to visualize once the goal is reached

Helpful links:

<https://www.geeksforgeeks.org/python-opencv-cv2-imshow-method/>

<https://indianaiproduction.com/show-image-cv2-imshow/>

For students comfortable in matplotlib:

<https://www.geeksforgeeks.org/data-visualisation-in-python-using-matplotlib-and-seaborn/>