

HW1: Sobel Edge Detector

- Load “lane_image.jpg”
- Make I_x with Sobel mask (x-direction) and display
- Make I_y with Sobel mask (y-direction) and display
 - Hint
 - make sobel mask (np.array)
 - Apply filter (cv2.filter2D)
 - Display (plt.subplot and plt.imshow)
- Make magnitude and angle (direction) image
 - Hint
 - Make magnitude image (pow, sqrt)
 - Make angle image (np.arctan, np.rad2deg)
 - Use Color map ('jet' to display)