Houghtrsfn

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[1]: import cv2
     import numpy as np
     import matplotlib
     from matplotlib.pyplot import imshow
     from matplotlib import pyplot as plt
     from matplotlib.image import imread
[63]: img=imread('road2.jpg')
     img2=imread('processedimg1_2.jpg')
[64]: lines=cv2.HoughLines(img2,1,np.pi/180,200)
     print(len(lines))
     for i in range(len(lines)):
         theta=lines[i][0][1]
         rho=lines[i][0][0]
         a=np.cos(theta)
         b=np.sin(theta)
         x0=a*rho
         y0=b*rho
         x1=int(x0+1000*(-b))
         y1=int(y0+1000*(a))
         x2=int(x0-1000*(-b))
         y2=int(y0-1000*(a))
         cv2.line(img,(x1,y1),(x2,y2),(0,0,255),2)
         cv2.imwrite('output2.jpg',img)
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[65]: out=imread('output2.jpg')
plt.imshow(out)
plt.show()
```

