

```
import cv2
img = cv2.imread("C:/Users/Welcome/OneDrive/Pictures/Saved Pictures/cat.jpeg")
cv2.imshow('Original', img)
cv2.waitKey(0)
img_gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
# Blur the image for better edge detection
img_blur = cv2.GaussianBlur(img_gray, (3,3), 0)
sobelx = cv2.Sobel(src=img_blur, ddepth=cv2.CV_64F, dx=1, dy=0, ksize=5) # Sobel Edge
Detection on
the X axis
cv2.imshow('Sobel X', sobelx)
cv2.waitKey(0)
```