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# CS4243 Lab 2
# =====
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import cv2

ORIGINAL_FILE = 'scene.jpg'

RADIUS = 3
THICKNESS = -1
LINE_TYPE = 8
SHIFT = 0

image = cv2.imread(ORIGINAL_FILE, cv2.CV_LOAD_IMAGE_GRAYSCALE)
feature_list = cv2.goodFeaturesToTrack(image, 200, 0.001, 11.0).reshape((-1,2))

image = cv2.imread(ORIGINAL_FILE, cv2.CV_LOAD_IMAGE_COLOR)

for (x, y) in feature_list:
    cv2.circle(image, (x, y), RADIUS, (0, 78, 255, 0), THICKNESS, LINE_TYPE,
SHIFT)

cv2.imwrite('corners.jpg', image)
```

