Harris Corner Detector: Autocorrelation and Corner score

Image features such as Harris Corners can serve as a compact image representation useful for task such as image matching, computing image statistics, 3D model estimation and video tracking. In this lab you will build a Harris Corner Detector via the implementation sketch in video Robo_2_4.Otherfeatures_pt2_v1_Good.mp4.

In the last section you wrote a function to compute image gradients. In this section you will use your previous solution to determine the corner score at each pixel location using the eigenvalues of the autocorrelation matrix. The next and final section will require you to perform non-maximum suppression and thresholding to isolate the image locations with the strongest corner scores.

Your Script

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52  img = imread('peppers.png');
53  img_gray = im2double(rgb2gray(img));
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55  img_gray_smooth = gauss_blur(img_gray);
56  [I_x,I_y] = grad2d(img_gray_smooth);
57
```

▶ Run Script ❓

Previous Assessment: All Tests Passed

Submit ❓

✅ **Is the I_xx solution correct?**

✅ **Is the I_xy solution correct?**

✅ **Is the I_yy solution correct?**

✅ **Is the R solution correct?**

Output

```
Code ran without output.
```