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%%
% CLAB2 Task-1: Harris Corner Detector
% Your name (Your uniID)
%
sigma = 2; thresh = 0.01; maskSize = 11; disp= 0; % Initialize convolution size, threshold, mask size
% Derivative masks
dy = [-1 0 1;-1 0 1; -1 0 1];
dx = dy'; % dx is the transpose matrix of dy
% compute x and y derivatives of image
Ix = conv2(bw,dx,'same');
Iy = conv2(bw,dy,'same');
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g = fspecial('gaussian',max(1,fix(6*sigma+1)),sigma);
Ix2 = conv2(Ix.^2,g,'same'); % x and x
Iy2 = conv2(Iy.^2,g,'same'); % y and y
Ixy = conv2(Ix.*Iy,g,'same'); % x and y
```

[rws,cols] = find(cornerness);
figure, imshow(YOUR IMAGE);
hold on;
p = [cols, rws];
plot(p(:,1),p(:,2),'or');
title('Harris Corners');