Project 2: Feature Detection and Matching

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Introduction

Step 1

Harris Corner Detection

Harris Matrix

magnitude and orientation

$$m(x,y) = \sqrt{(L(x+1,y) - L(x-1,y))^2 + (L(x,y+1) - L(x,y-1))^2}$$

$$\theta(x,y) = \arctan\left(L(x,y+1) - L(x,y-1)\right)/(L(x+1,y) - L(x-1,y))$$

How to create bins:

save images of showFeature – and then put them here in the writeup

Step 2: Descriptors

Step 3: Feature Matching