

Structure from Motion

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Introduction

- Generate a 3D reconstruction of an object based on 2D views
- Algorithm for using just two 2D views
 - Match keypoints between the images (Farneback optical flow)
 - Calculate how much the camera has moved from image 1 to image 2
 - Triangulate keypoints using epipolar geometry
- Plotted 3D scatter plot using matplotlib



Optical Flow Demo



Epipolar Geometry









