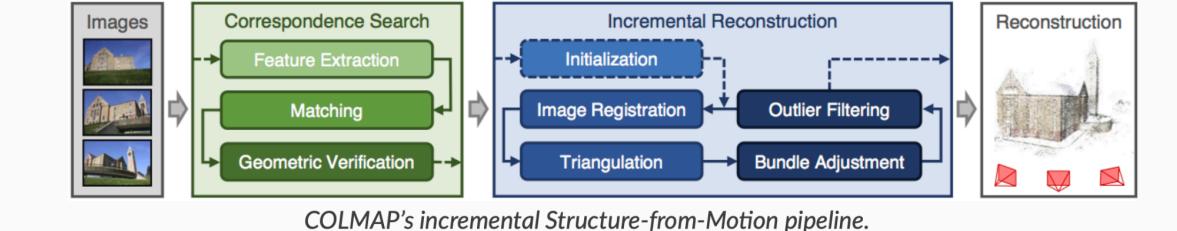


COLMAP

NEED - I need colmap to convert my images to the required inputs for the nerf model

What is colmap? COLMAP is a general-purpose Structure-from-Motion (SfM) and Multi-View Stereo (MVS) pipeline

What i am interested is - SPARSE RECONSTRUCTION



SfM -

input: set of overlapping images of the same object, taken from different viewpoints
SfM has 3 steps

Feature Extraction -

feature detection/extraction finds sparse feature points in the image

Feature Matching -

feature matching and geometric verification finds correspondences between the feature points in different images.

Different matching modes

Exhaustive Matching - good for less than 100 images (**I will use this one**)

Sequential Matching - images are taken in a sequential manner eg by a video camera.

Vocabulary Tree Matching - more than 1000 images
Spatial Matching , Transitive Matching , Custom Matching

Step 3 is Sparse reconstruction