Can you think of a way to apply the 3D vision alignment algorithms from last class for extracting structure from motion (SfM)?
Answer: Stereo vision is a special case for SfM with only two images. With more images, it can be generalized to SfM.

What would be a good application area for SfM?
Answer: Terrain mapping, facade reconstruction, 3D model reconstruction of objects/actors for movies/video games, robot vision, camera tracking, combat target tracking, converting 2D movies to 3D.

Exit survey

What additional piece of information an SfM algorithm needs when the objects in the scene also moves?
Answer: SfM can be used to figure out an object’s movement, but it would need to at least know a model of the object’s movement (e.g., movement of human body joints). Frames from same cameras can also help discern the objects’s movement.

What parameters an SfM algorithm cannot recover?
Answer: Absolute location, angle, and size. Also, occluded areas and moving objects.