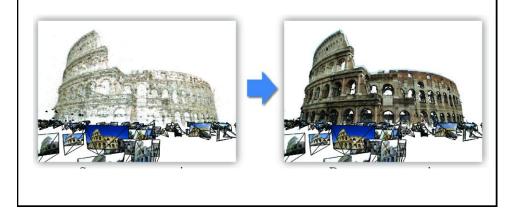
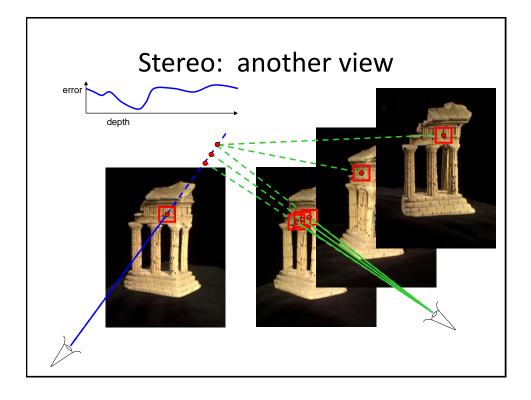
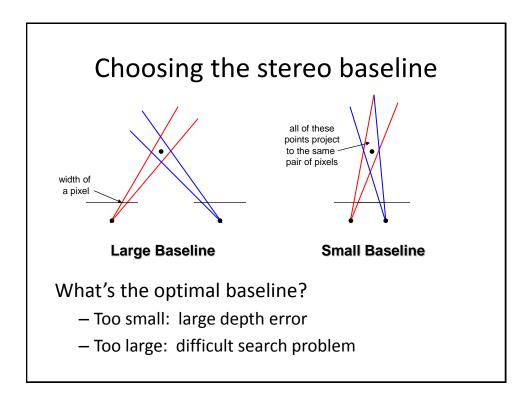
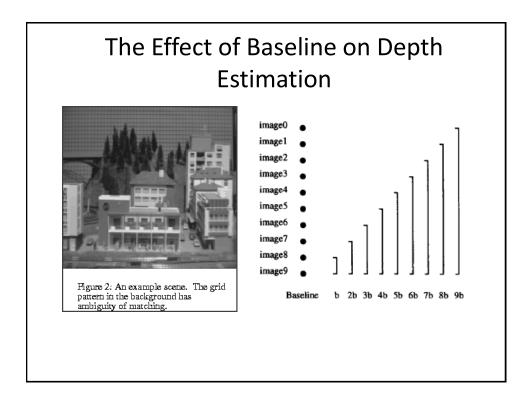
CS6670: Computer Vision Noah Snavely

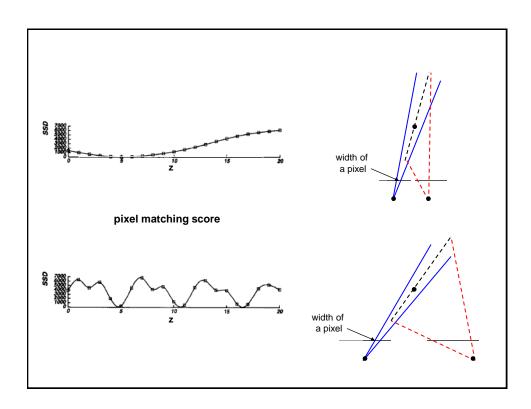
Lecture 24: Multi-view stereo

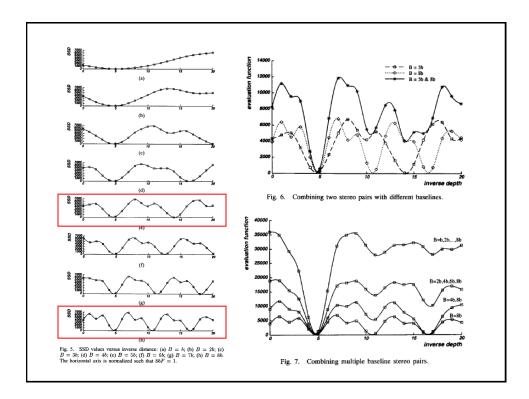




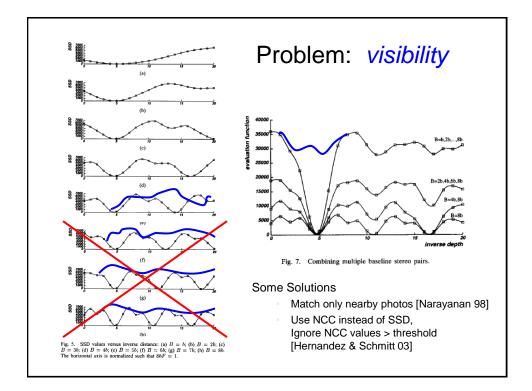


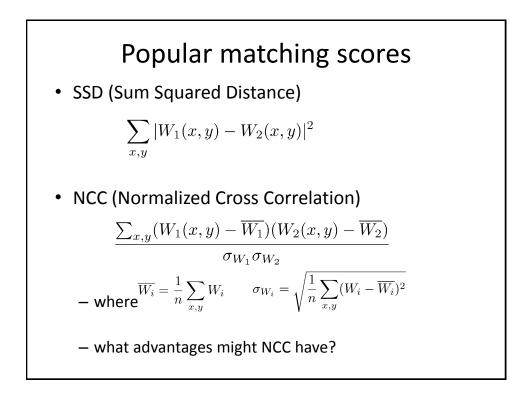


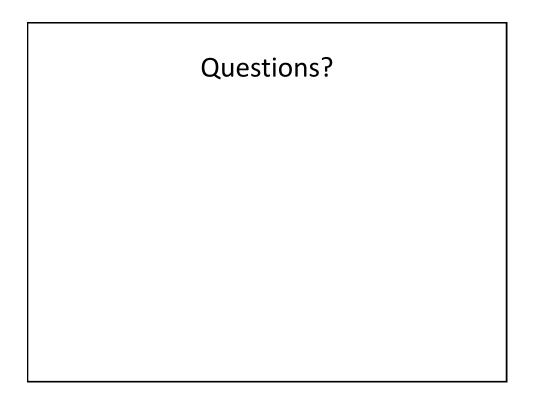






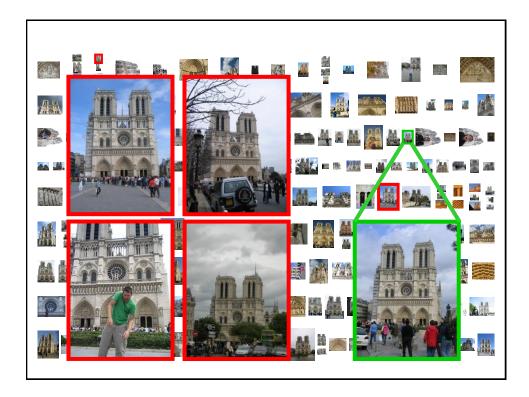


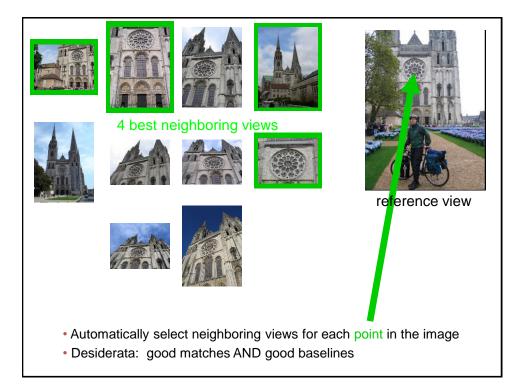


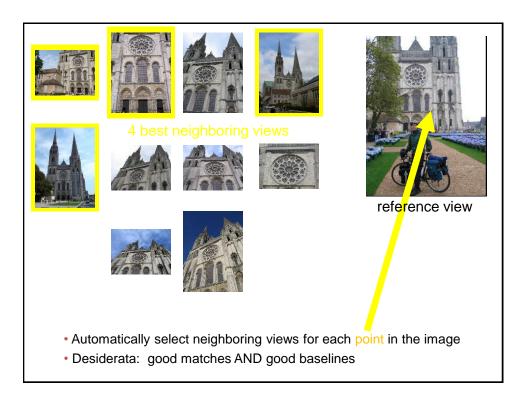




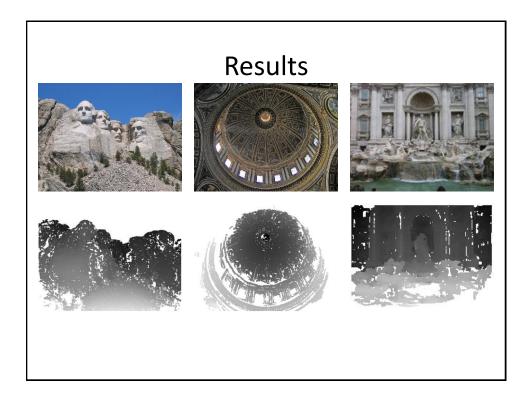


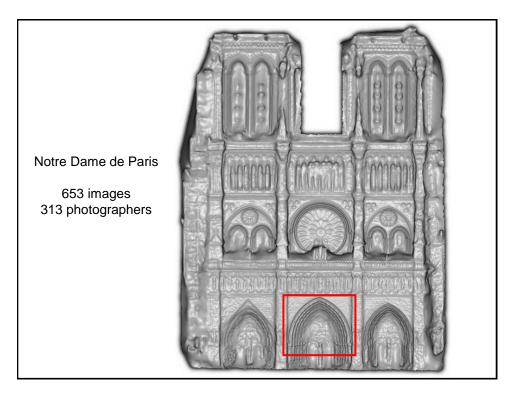


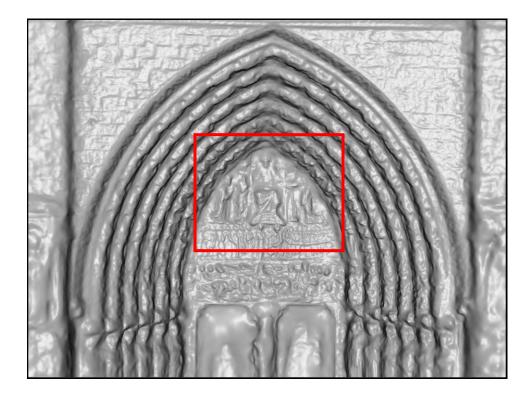


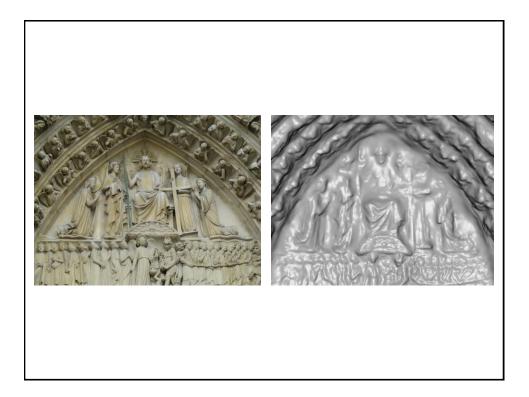


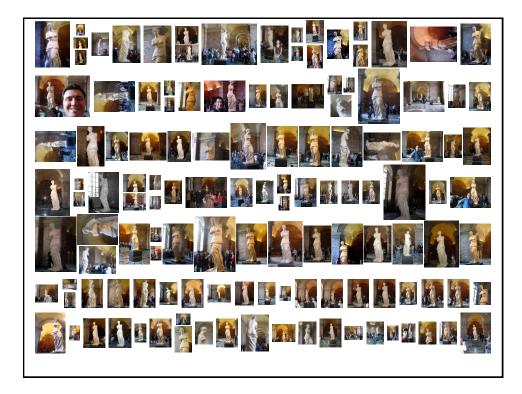


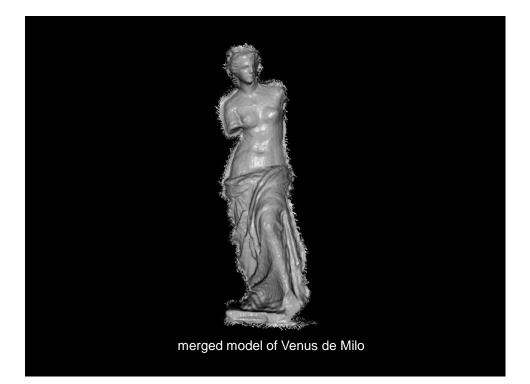




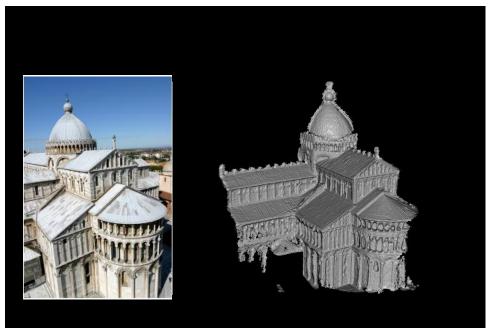




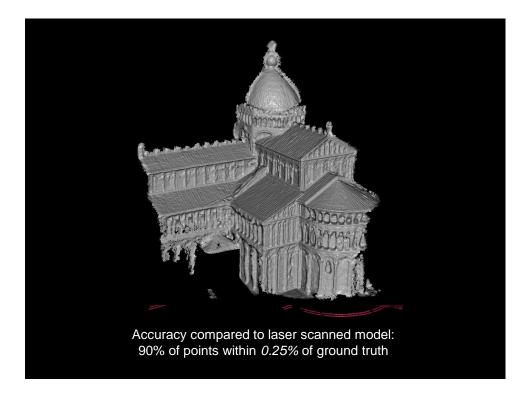


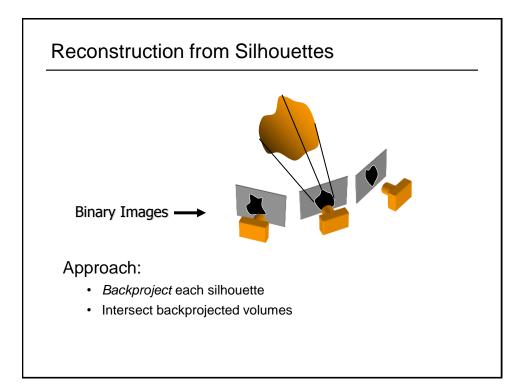


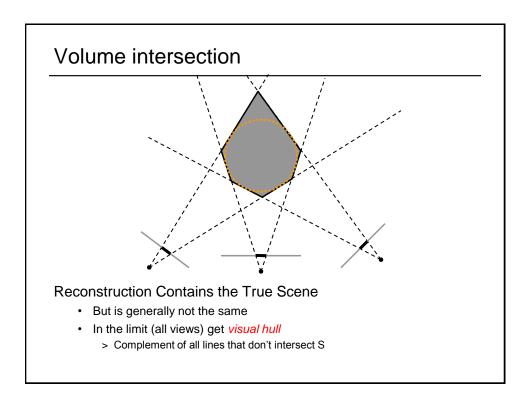


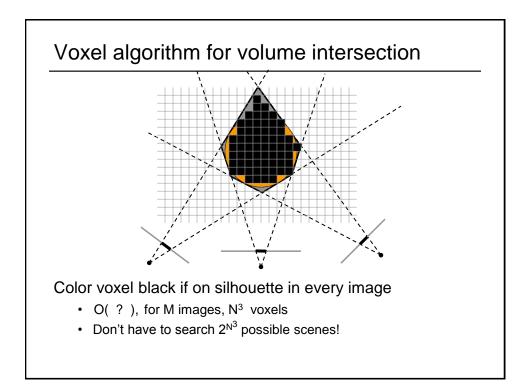


merged model of Pisa Cathedral









Properties of Volume Intersection

Pros

- · Easy to implement, fast
- Accelerated via octrees [Szeliski 1993] or interval techniques
 [Matusik 2000]

Cons

- No concavities
- · Reconstruction is not photo-consistent
- · Requires identification of silhouettes

Many other techniques...

- Voxel coloring
- Space carving
- · Graph cuts
- · Level-sets methods
- · Piecewise-planar stereo

Questions?