

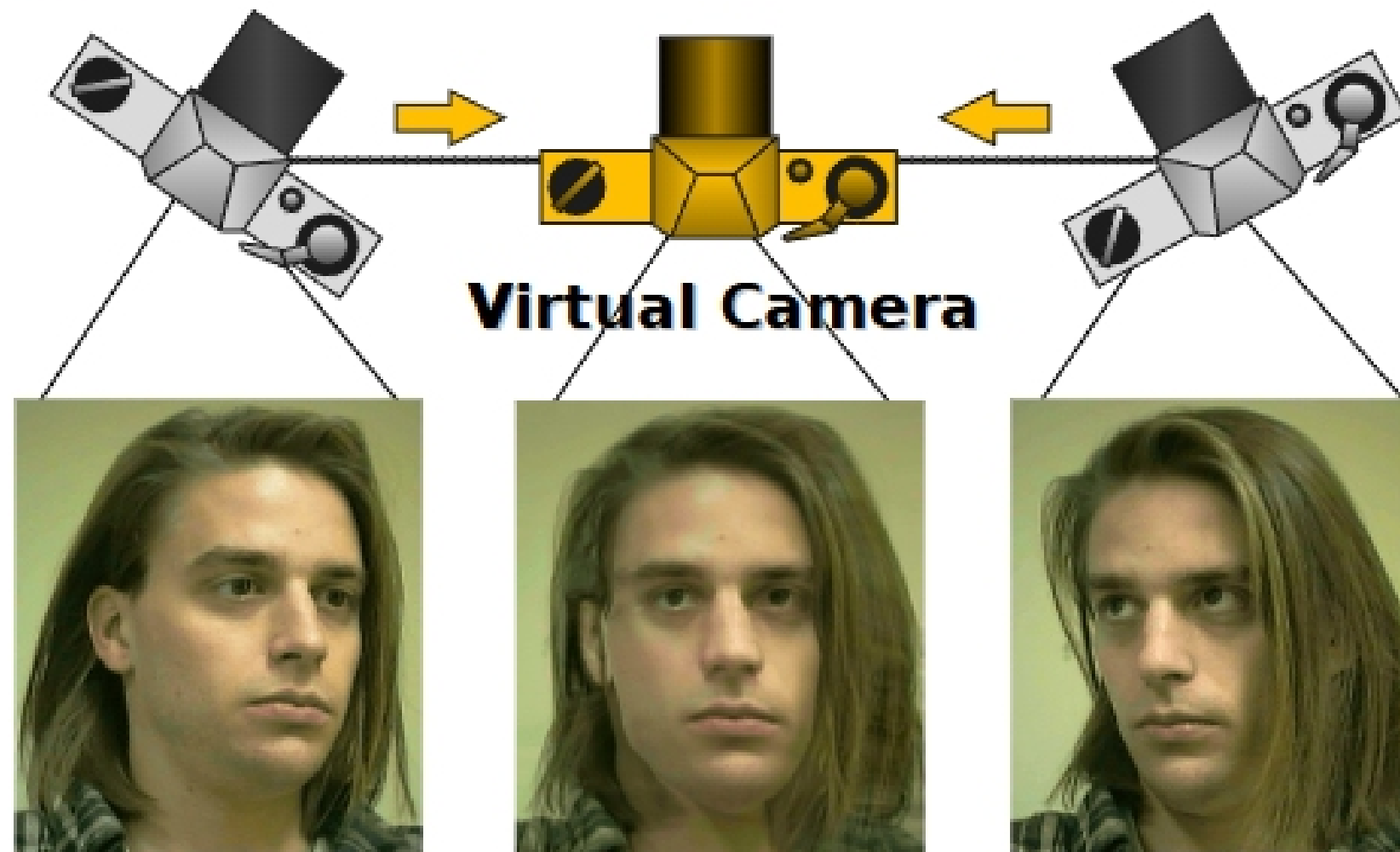


Visual Simulation

CAP 6938

Dr. Hassan Foroosh
Dept. of Computer Science
UCF

View Morphing (Seitz & Dyer, SIGGRAPH 96)



Photograph

Morphed View

Photograph

- View interpolation (ala McMillan) but
 - no depth
 - no camera information

But First. Multi-View Projective Geometry



- Last time (single view geometry)
 - Vanishing Points
 - Points at Infinity
 - Vanishing Lines
 - The Cross-Ratio
- Today (multi-view geometry)
 - Point-line duality
 - Epipolar geometry
 - The Fundamental Matrix
- All quantities on these slides are in *homogeneous coordinates* except when specified otherwise