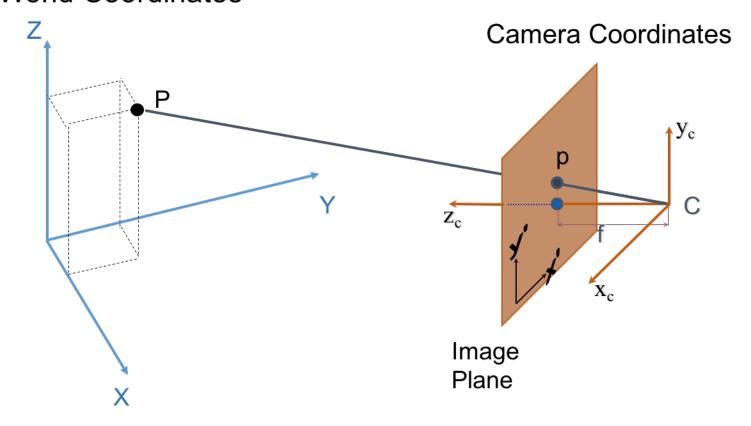
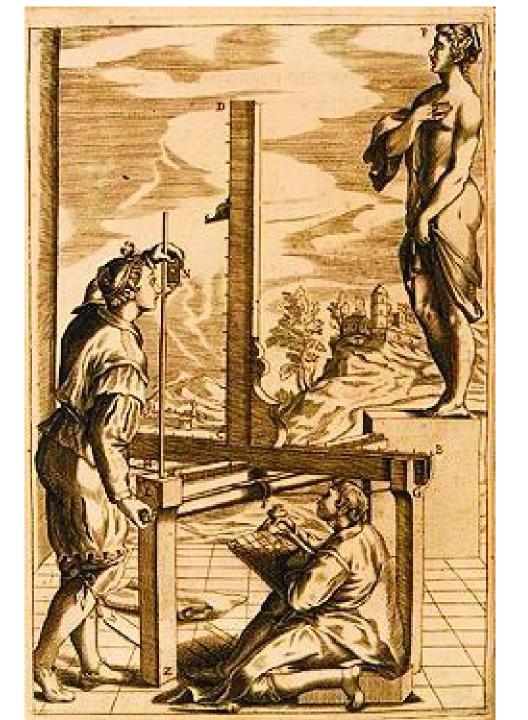




World Coordinates

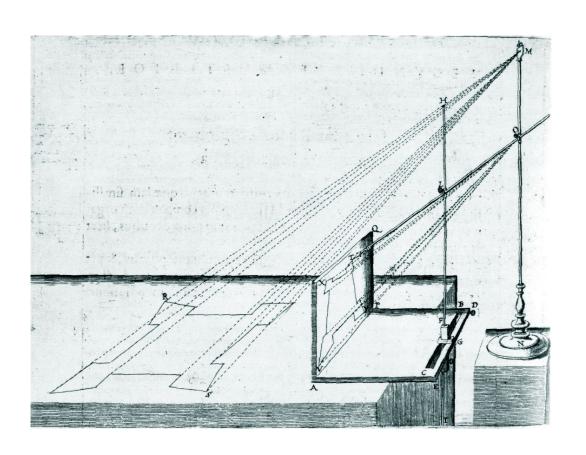


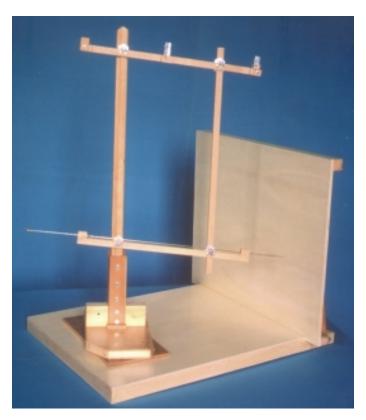


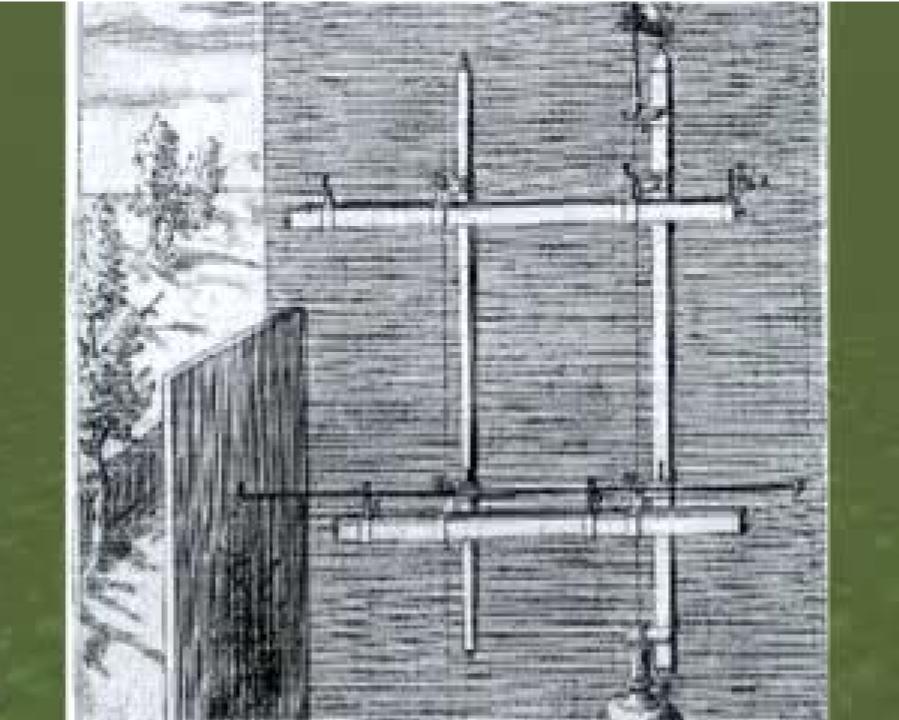
J. Barozzi's Perspectograph



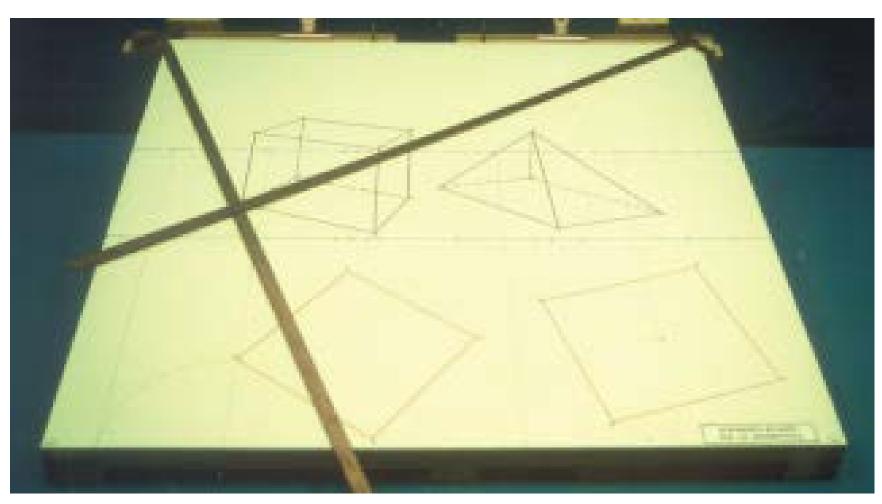
Bettini

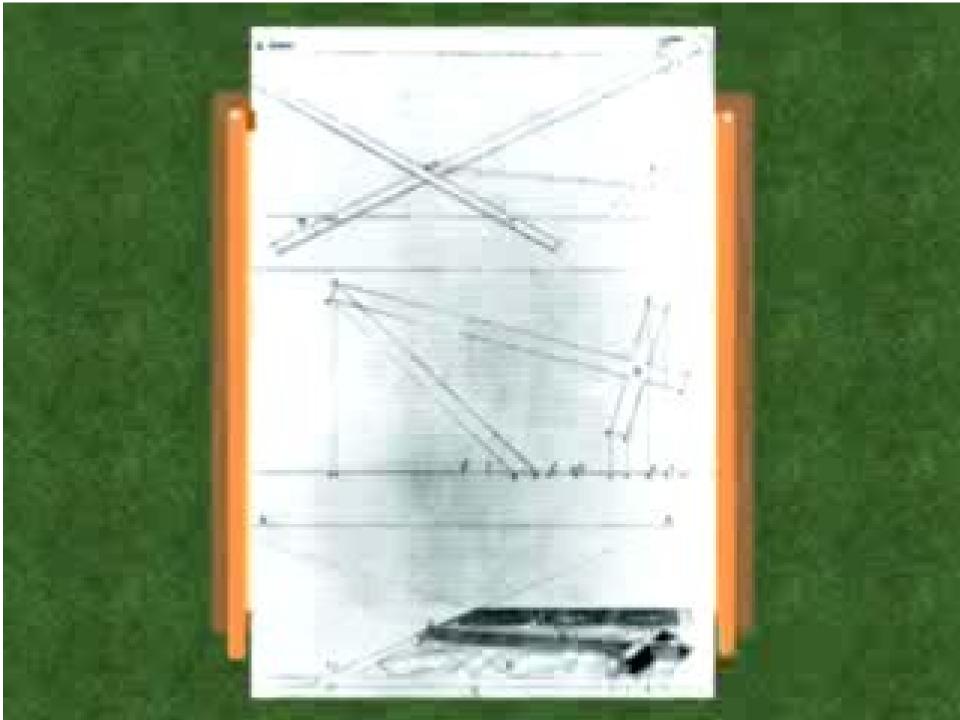




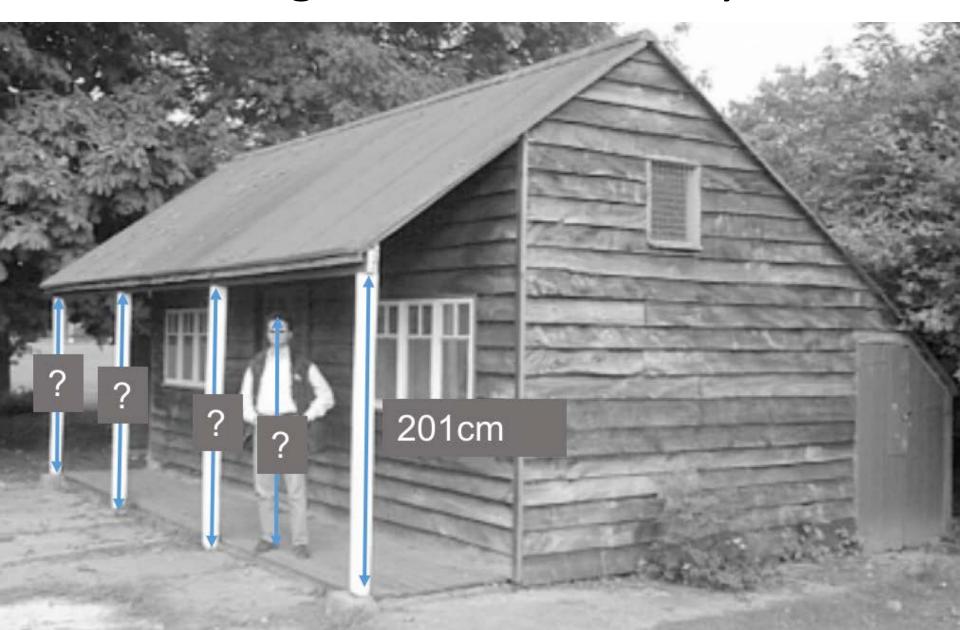


J. Barozzi's Bi-Dimensional Perspectograph







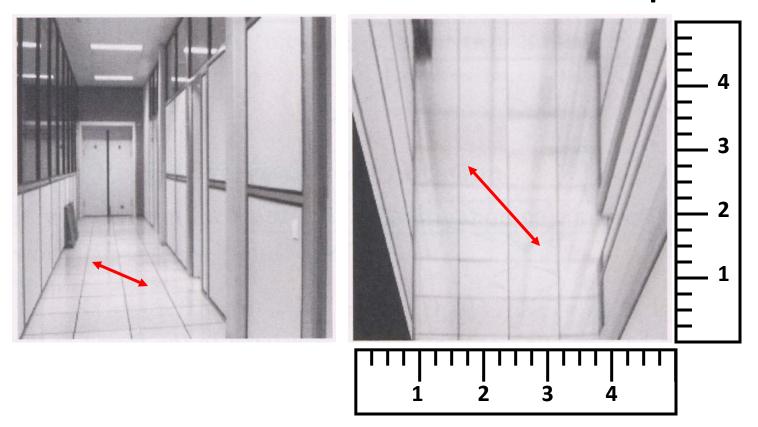






- Criminisi et al., "Single View Metrology", ICCV 1999
- Other methods
 - Horry et al., "Tour Into the Picture", SIGGRAPH 96
 - Shum et al., CVPR 98
 - · ...

Ideas 1: Measurements on planes

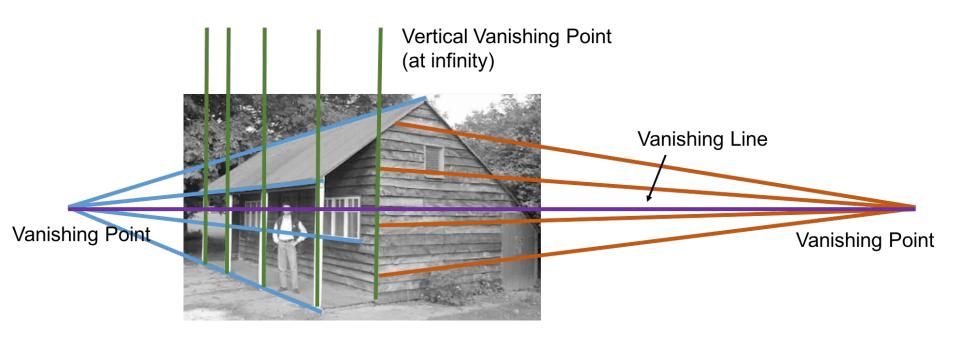


Approach: unwarp then measure

How to unwarp?

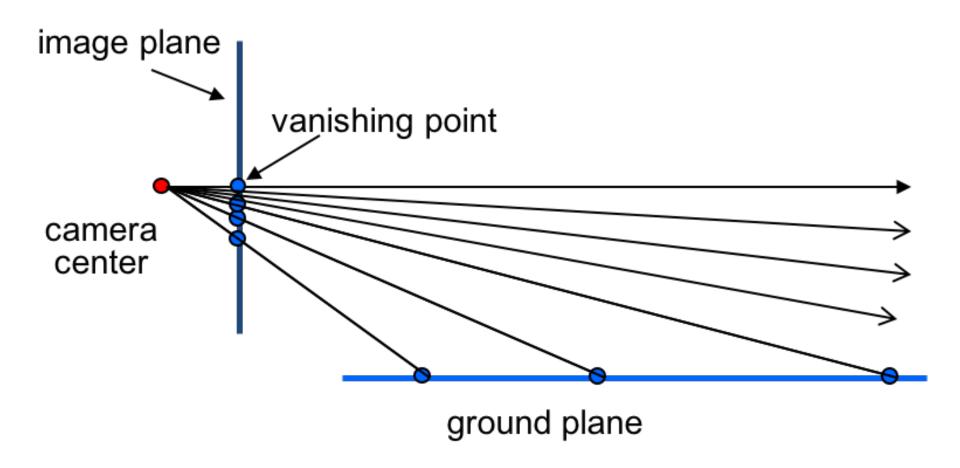
Make parallel lines stay parallel

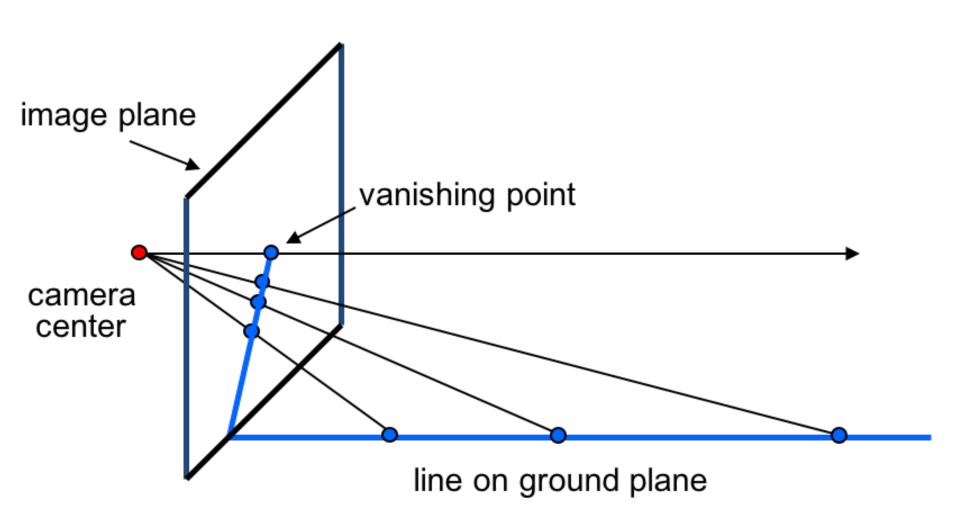
Ideas of single view measurement



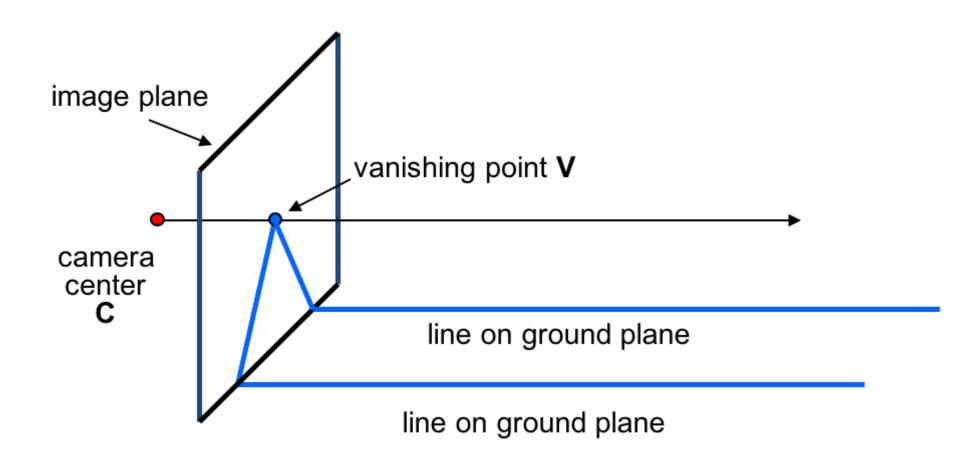
How tall is the photographer comparing to the person in the picture?

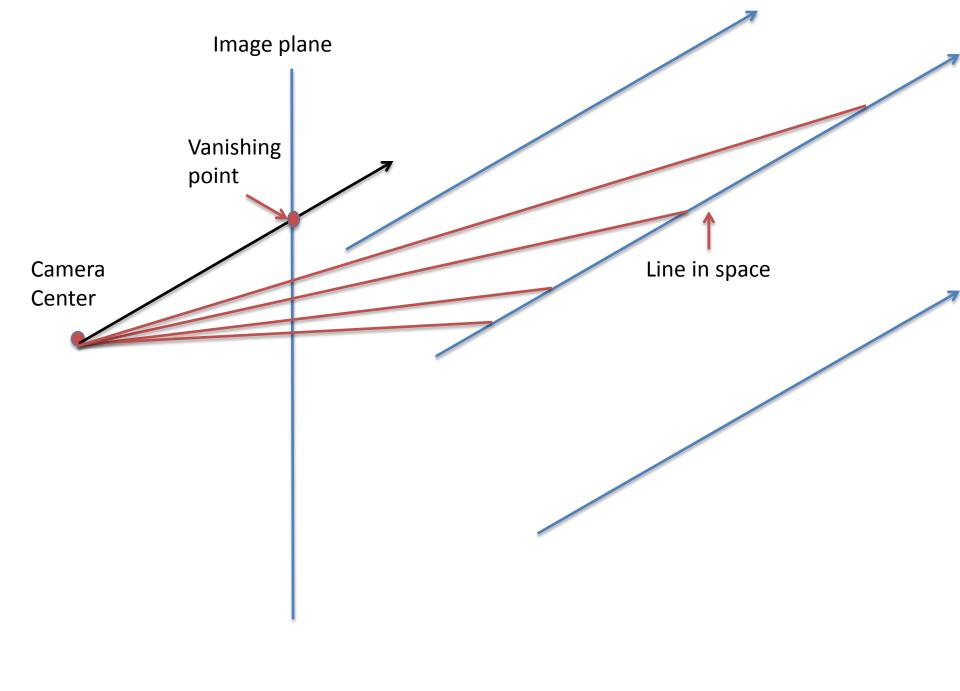
Vanishing point



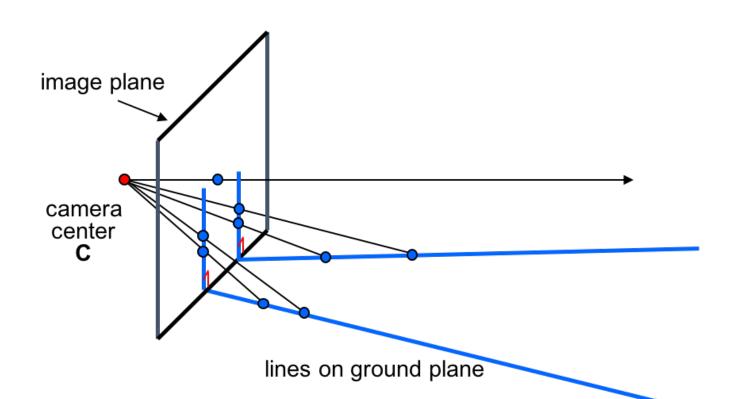


Imaging Vanishing Point





Locating Center of Projection



Locating Center of Projection

