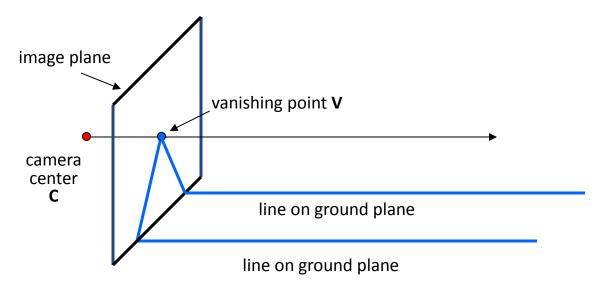
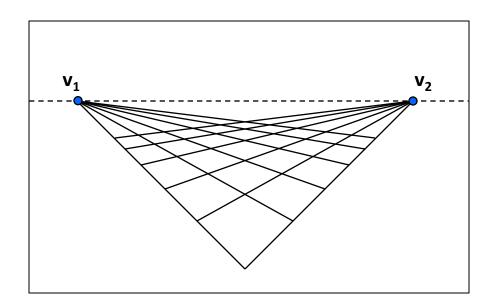
Vanishing points



Properties

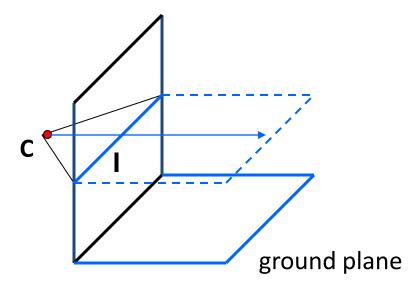
- Any two parallel lines have the same vanishing point
- The ray from C through v point is parallel to the lines
- An image may have more than one vanishing point

Vanishing lines



- Multiple Vanishing Points
 - Any set of parallel lines on the plane define a vanishing point
 - The union of all of these vanishing points is the horizon line
 - also called *vanishing line*
 - Note that different planes define different vanishing lines

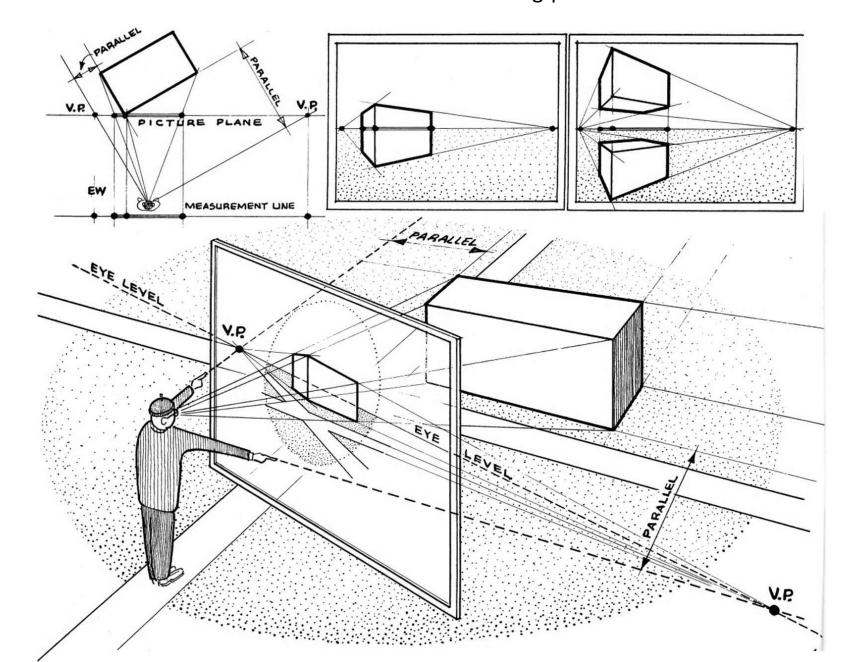
Computing vanishing lines



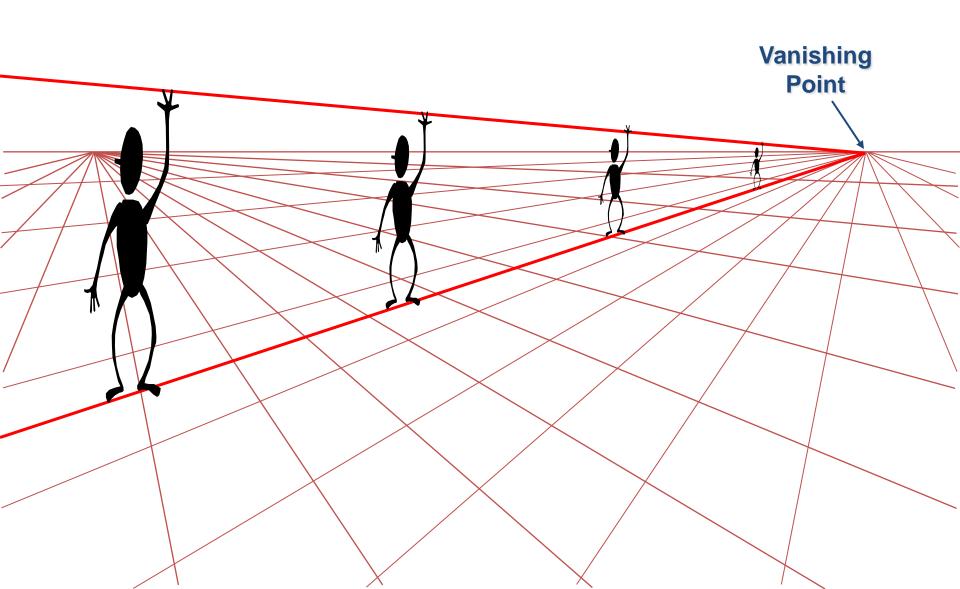
Properties

- I is intersection of horizontal plane through C with image plane
- Compute I from two sets of parallel lines on ground plane
- All points at same height as C project to I
- Provides way of comparing height of objects in the scene

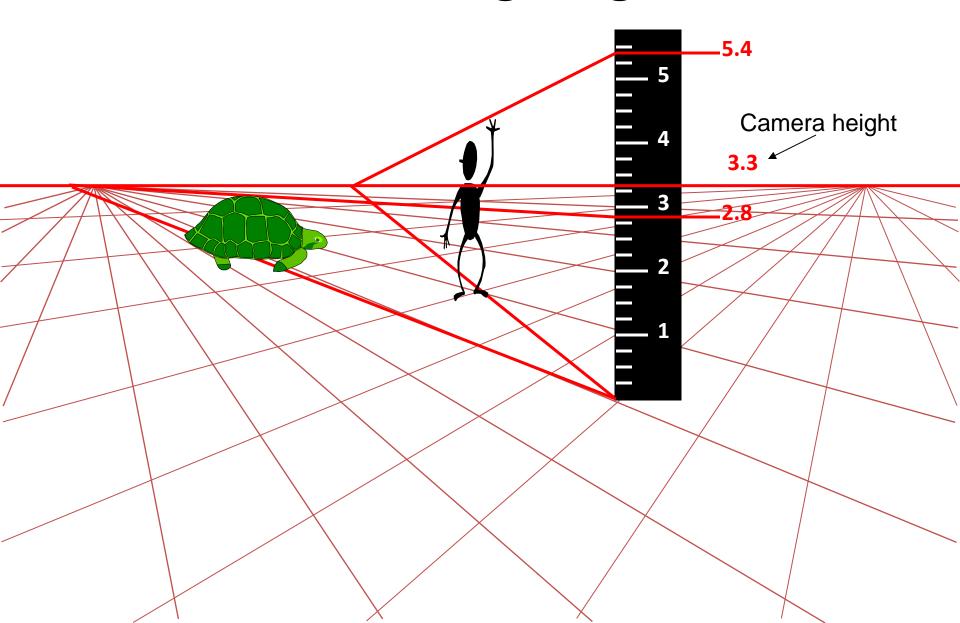
http://www.joshuanava.biz/perspective/in-other-words-the-observer-simply-points-in-the-same-direction-as-the-lines-in-order-to-find-their-vanishing-point.html



Comparing heights



Measuring height



Fun with vanishing points

