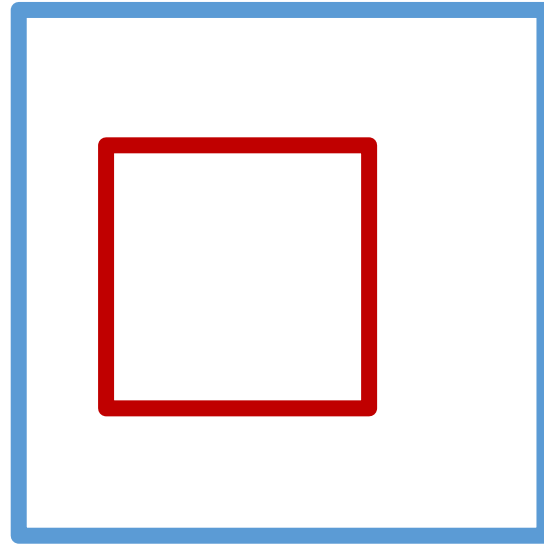
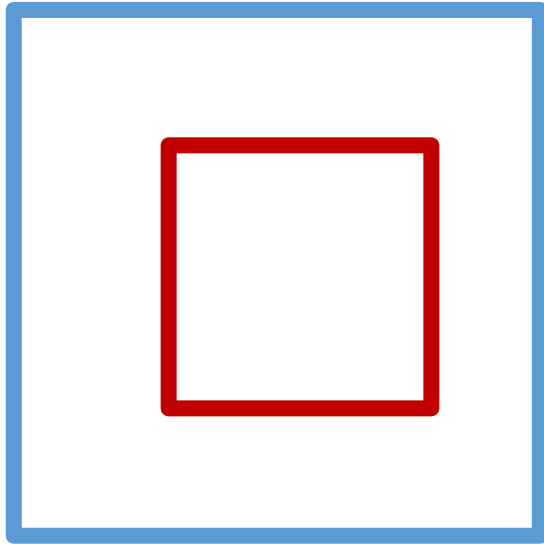
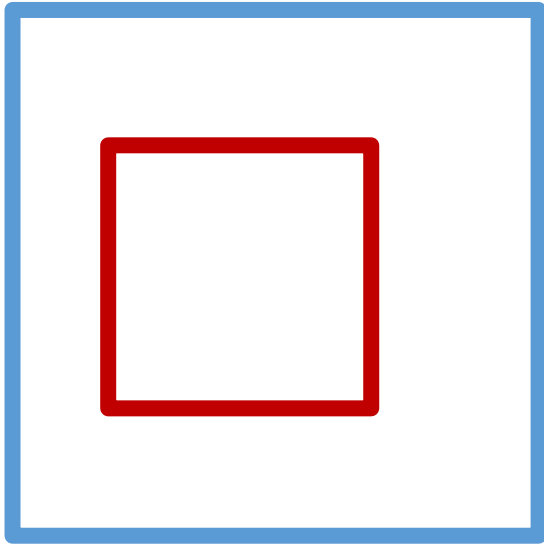


Stereo

CS418 Computer Graphics

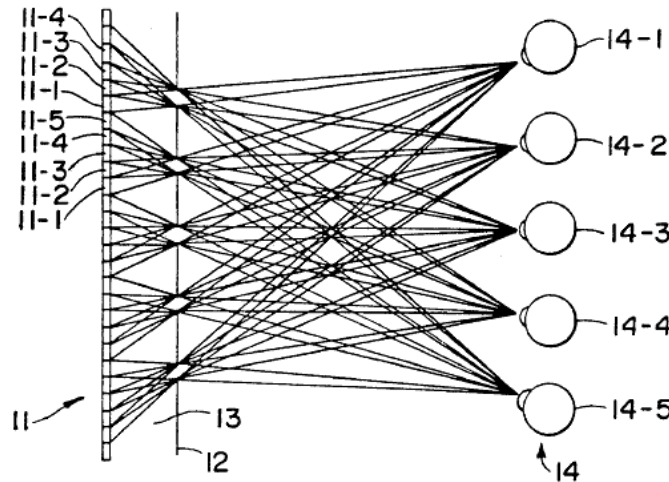
John C. Hart



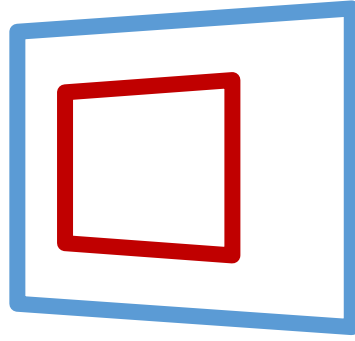
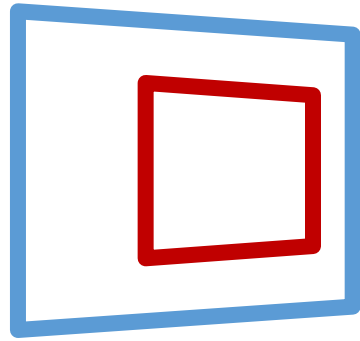
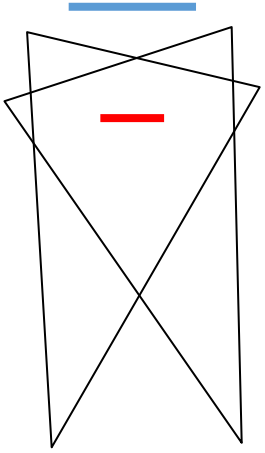


Stereo

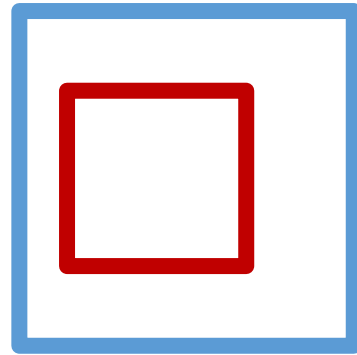
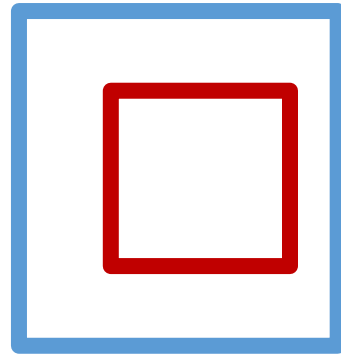
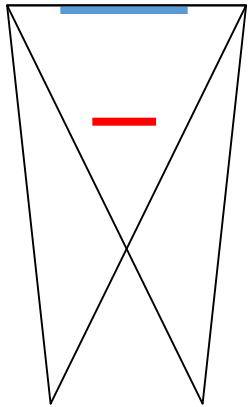
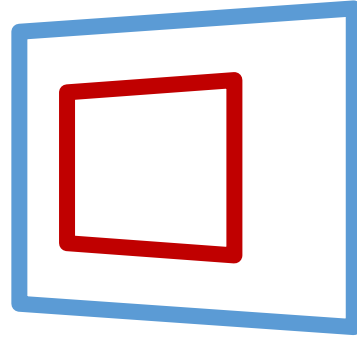
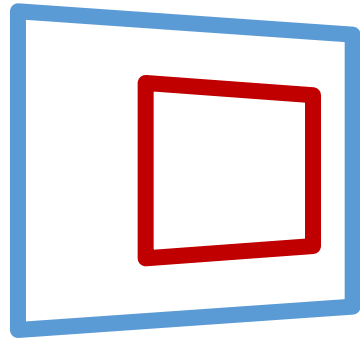
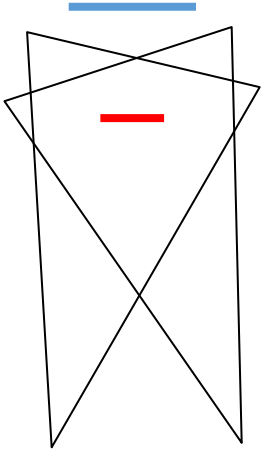
- Disparity – differences (in image distance) between similar features images (varies with depth)
- Stereo methods
 - Cross eye & wall eye
 - Anaglyph (colored glasses)
 - Polarized glasses
 - Field sequential using alternately blinking lcd's in the glasses
 - Autostereograms (barrier strip or lenticular)



Rotation v. Shear



Rotation v. Shear



Sheared Perspective

- Shear first, then perspective
- Shear should preserve plane distance f from eyepoint
- Shear should move eyepoint d units perp to view direction
- Translate $+f$ in z direction (remember view in $-z$ dir)
- Shear the point $(0,0,f)$ to the point $(-d,0,f)$ (*opposite shear*)
- Translate back, by $(0,0,-f)$
- Apply perspective

