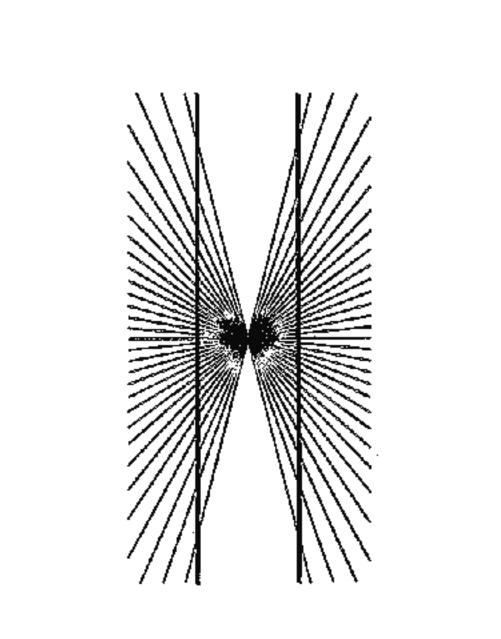
Today's Lecture

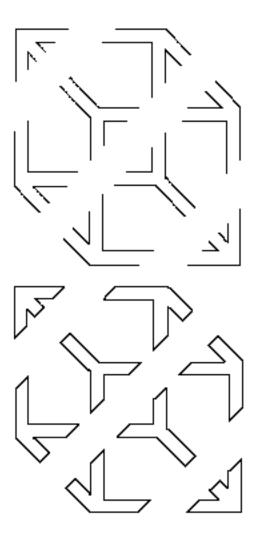
• Computational Vision

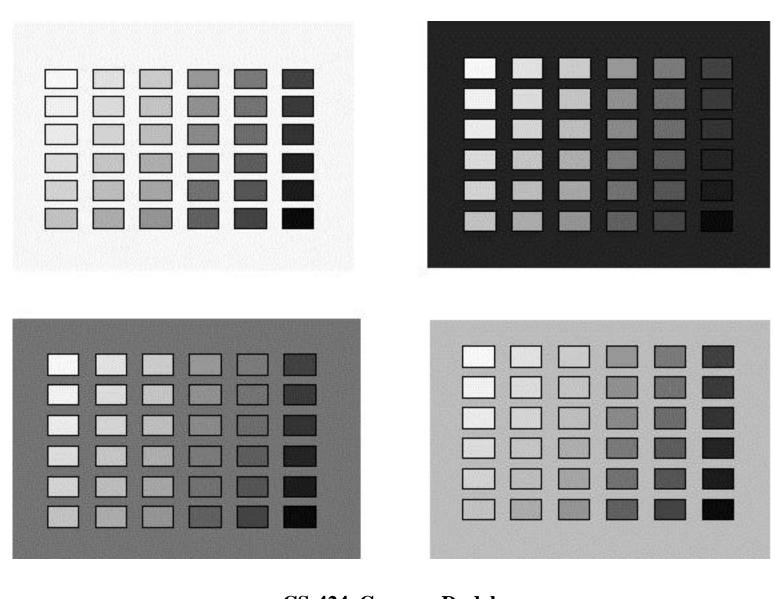
- Biological vision with emphasis on grouping
- Scene recovery
- Recognition

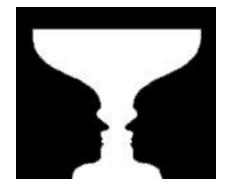
Mostly not on computer



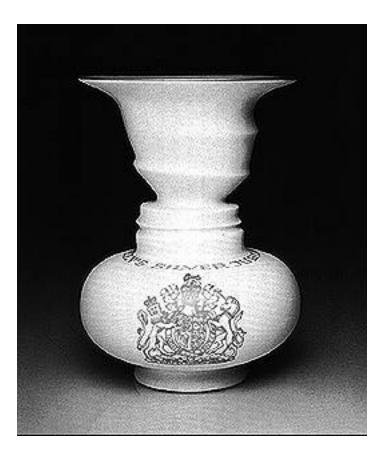


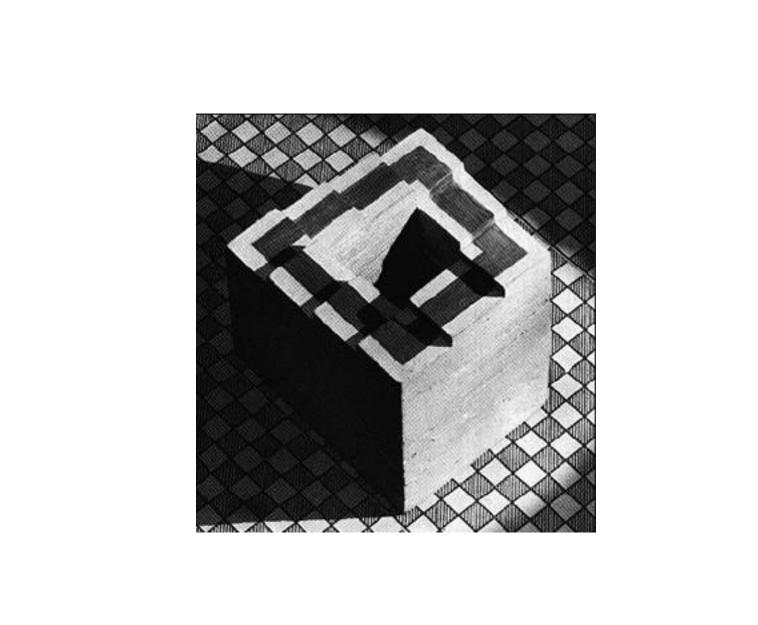


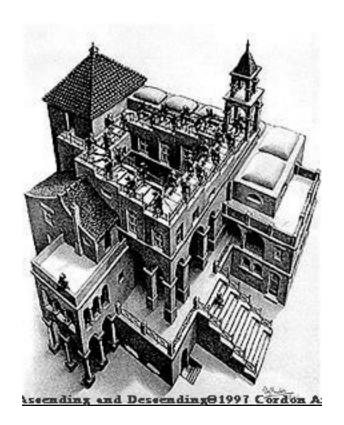


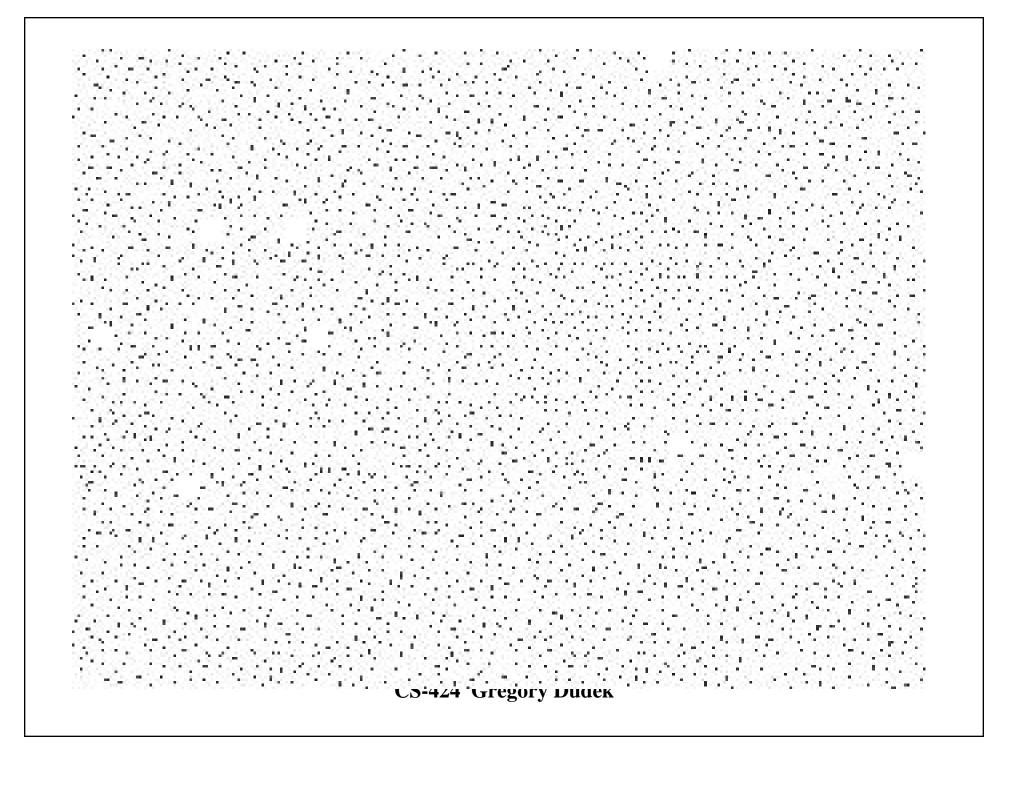












Shape from Shading

- [on blackboard]
- Intensity i = f(e,g,n)
 - Reflected intensity depends on viewing position and light source position (assumed known) AND surface normal.
 - Given the knowns we can estimate the surface normal, although there is usually a "circular" ambiguity that is resolved by assuming something about surface structure.
- Recover the surface by integration
 - Oldest method: along strips from a point of known normal
- Problem: sometime get inconsistent solutions
- Check this by using integrability constraint.