

CMSC 435

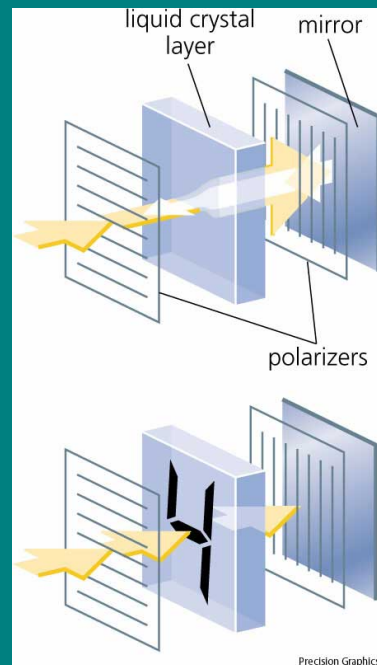
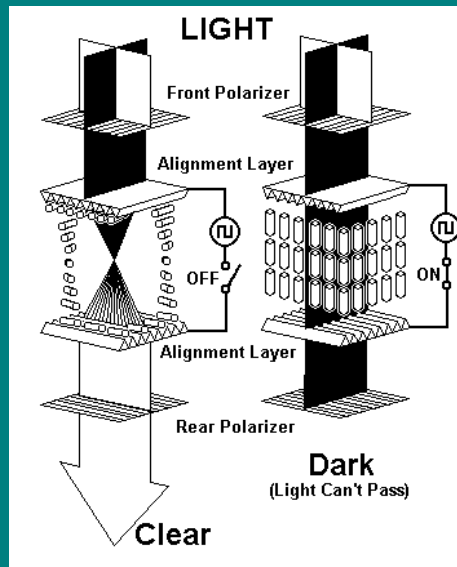
Introductory Computer Graphics

Display Technology

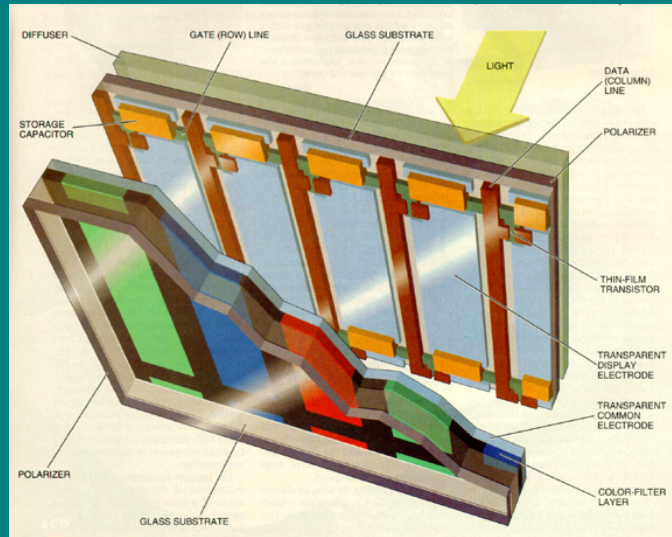
Penny Rheingans

UMBC

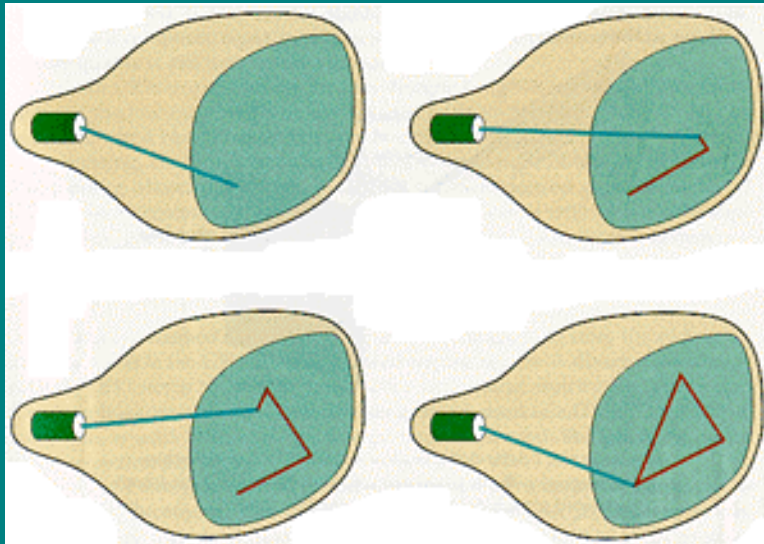
LCD



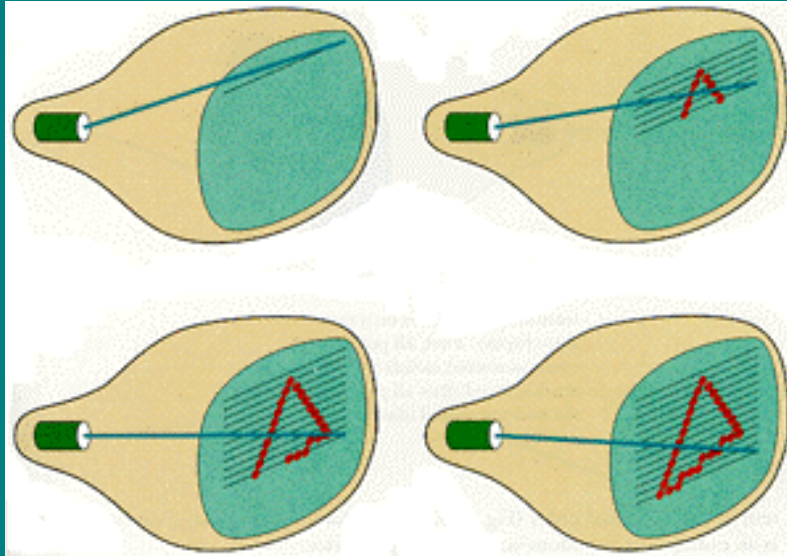
Color LCD



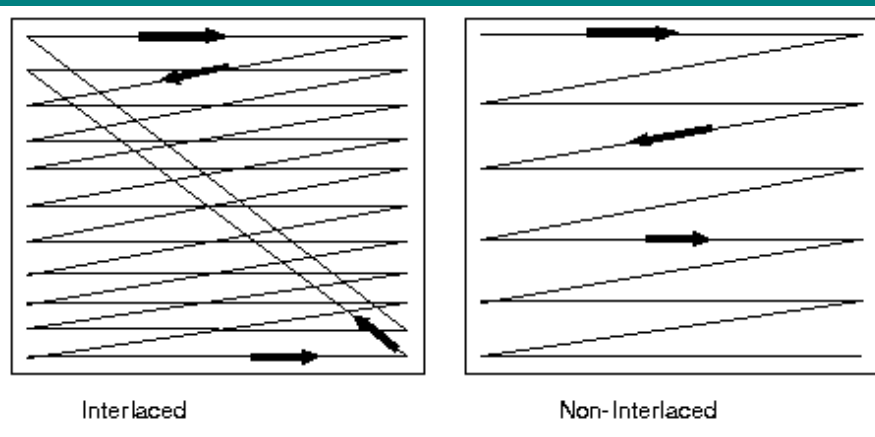
Random Scan



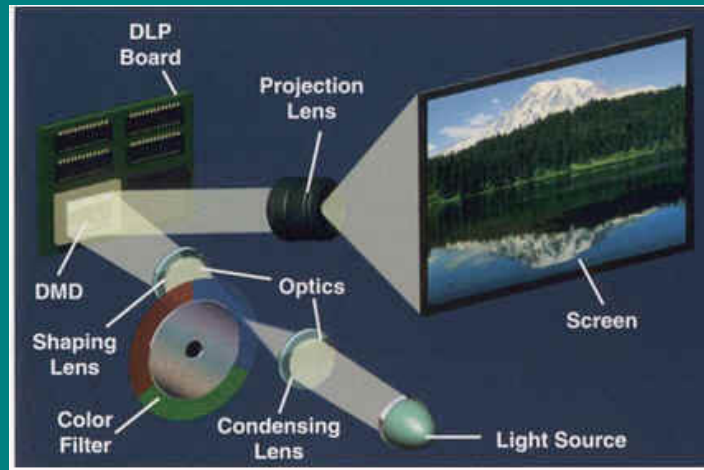
Raster Scan



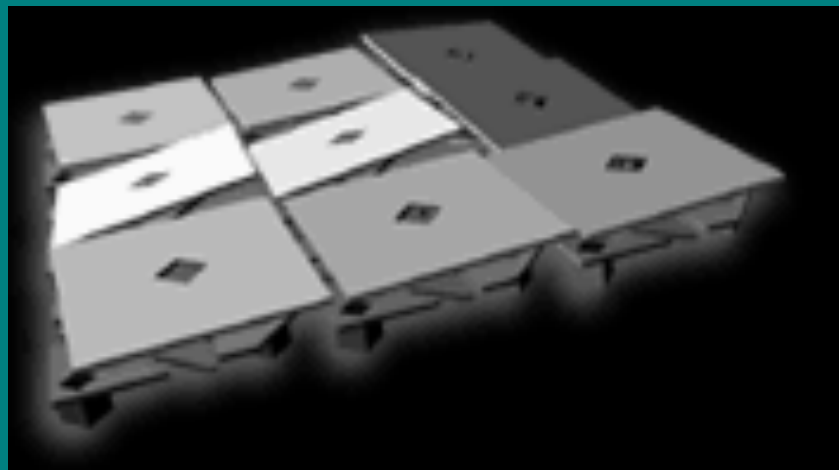
Interlace Options



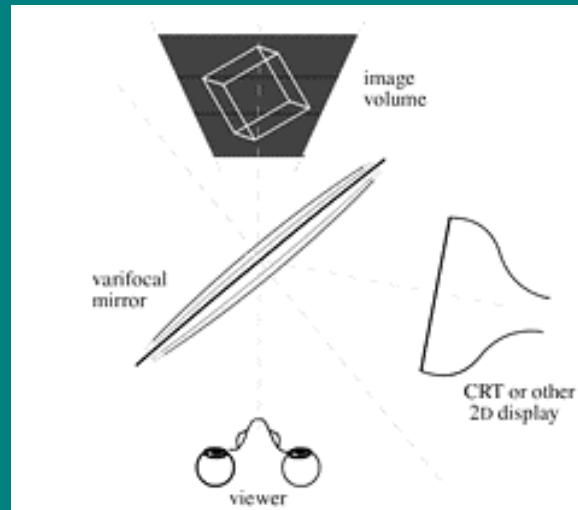
DLP Projector



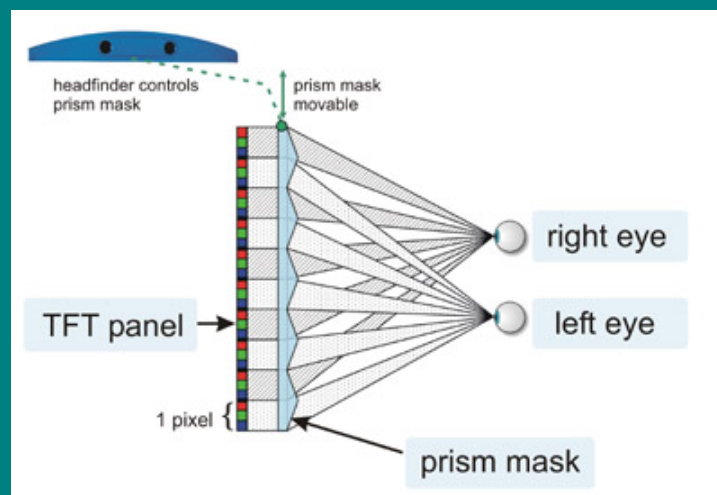
DLP Projector



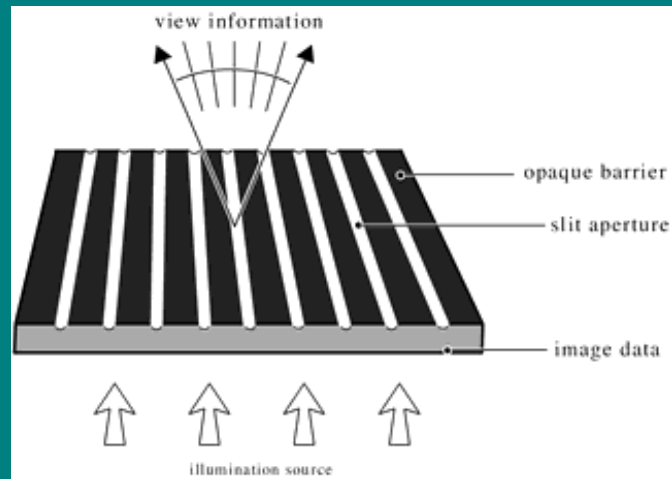
Volumetric Display



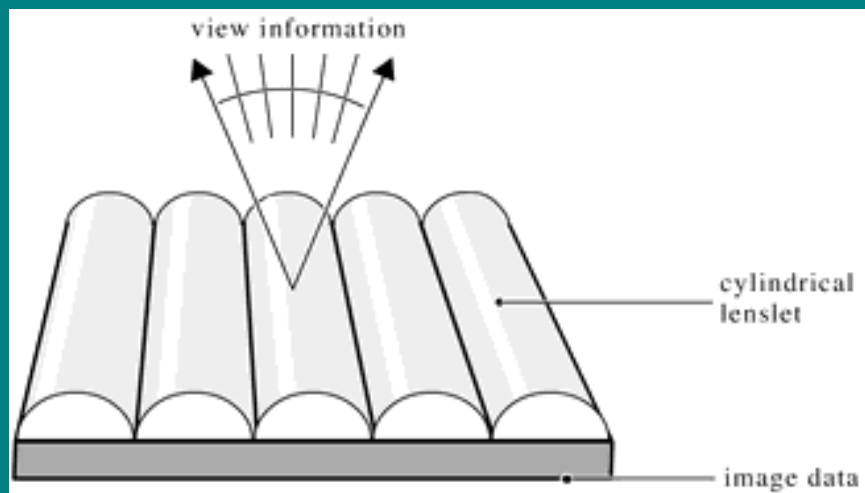
Auto-stereo Display



Auto-stereo Display: Barrier

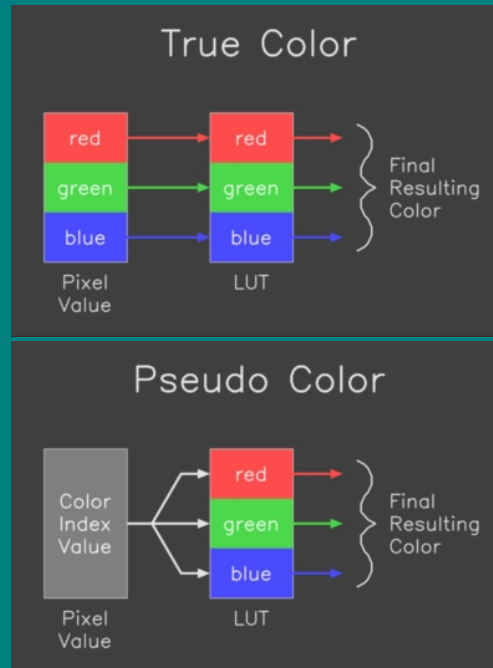


Auto-stereo Display: Lenticular

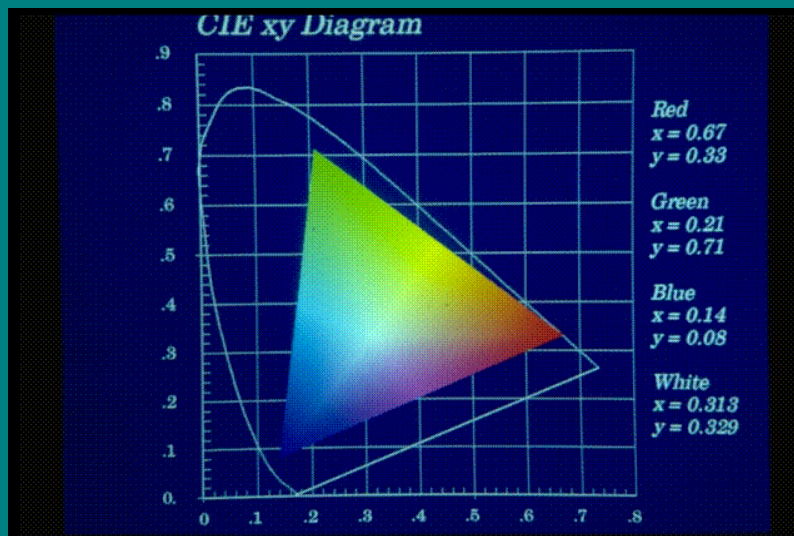


Color Options

- True color
 - R,G,B, (A)
 - Length: byte to float each
- Lookup table



Monitor Gamut



Gamma Correction

- Nonlinear display response
- Compensate

$$\text{displayed} = (\text{max})a^\gamma$$



Gamma Correction

