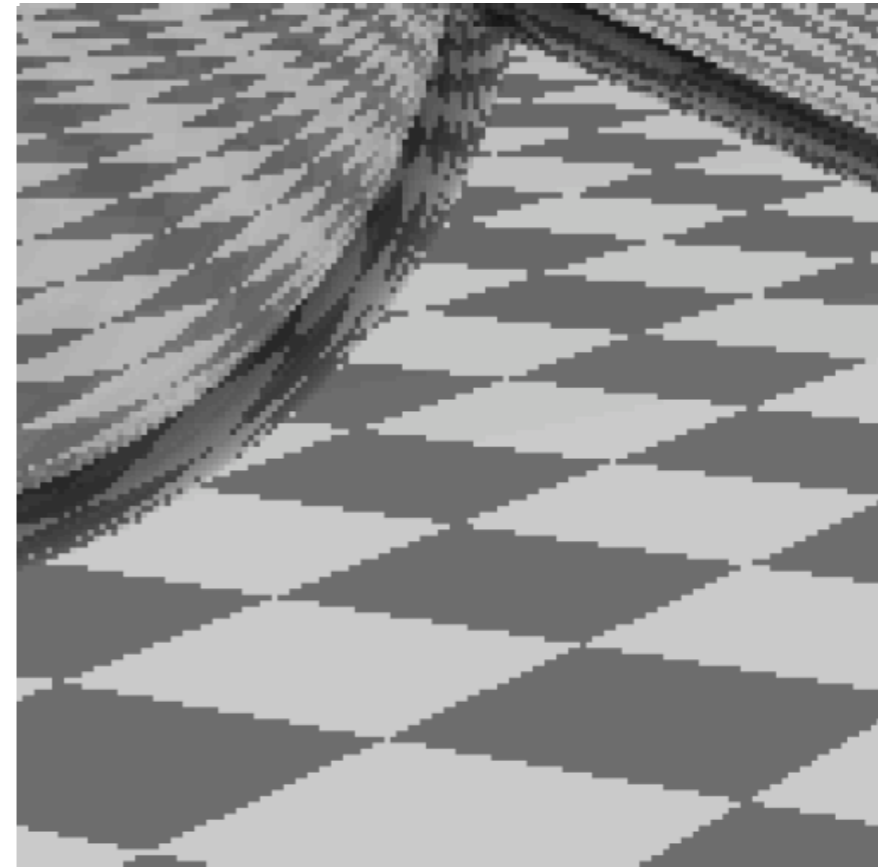
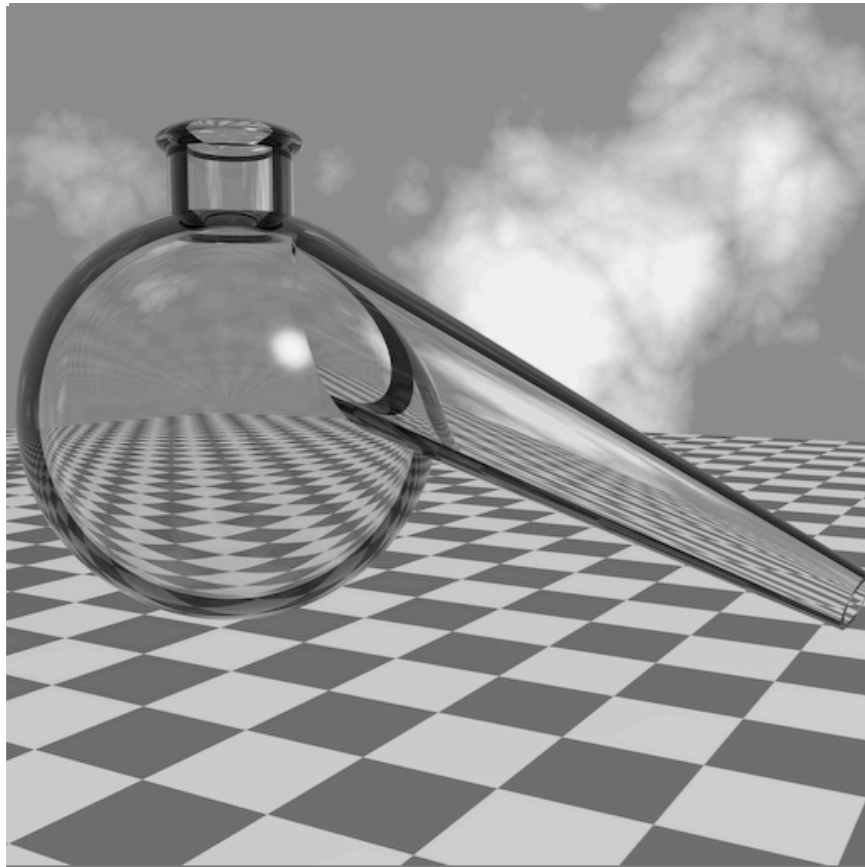


Sampling & Reconstruction I

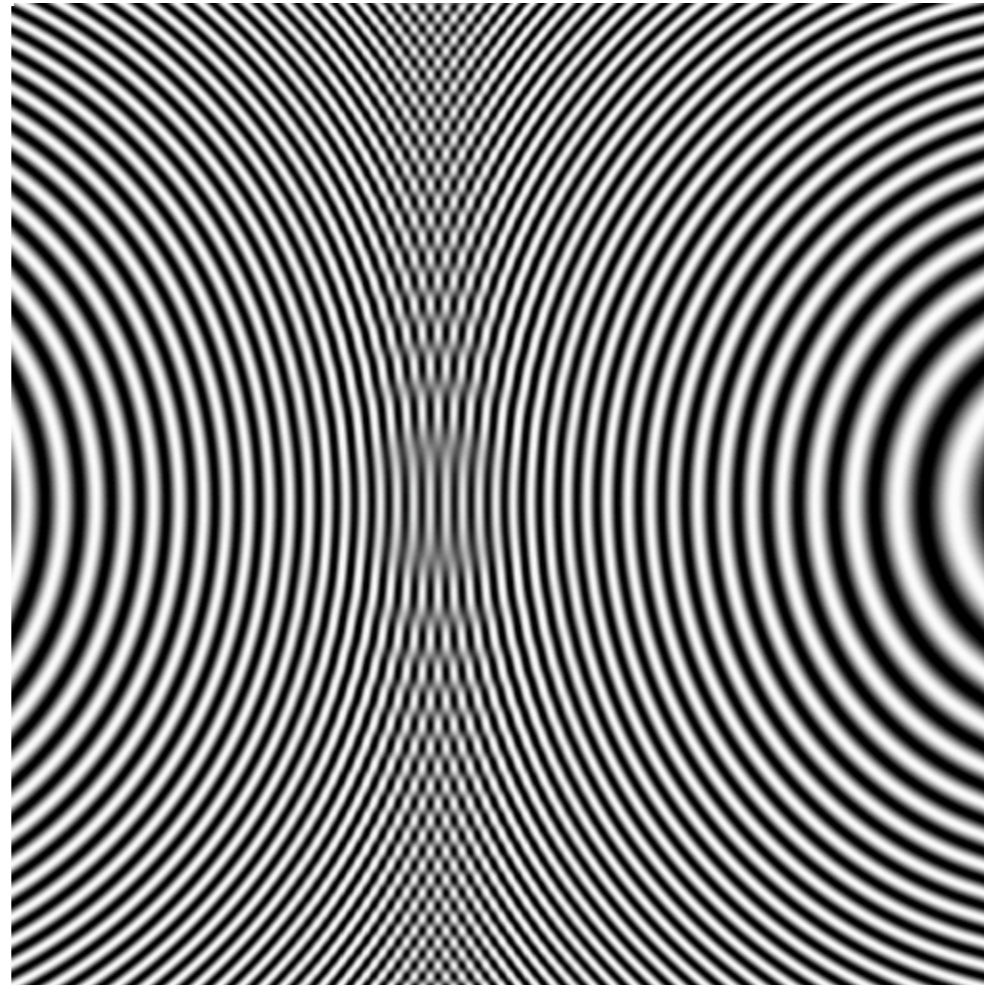
cs348b
Matt Pharr

Jaggies

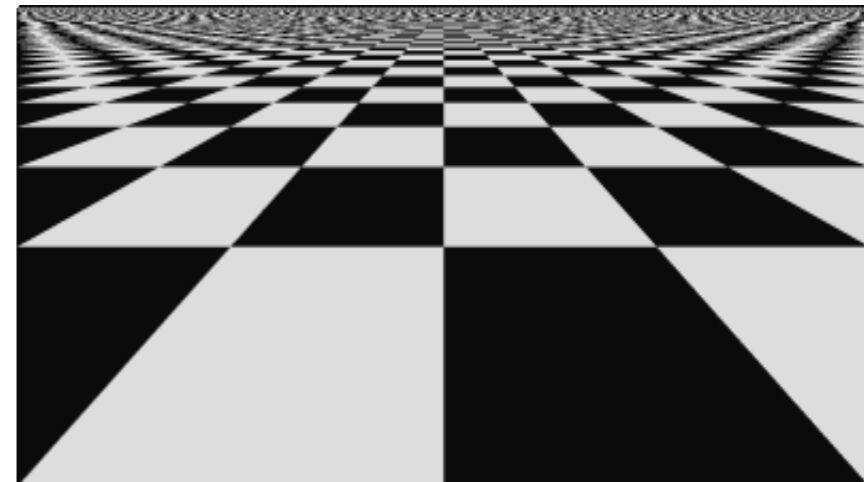
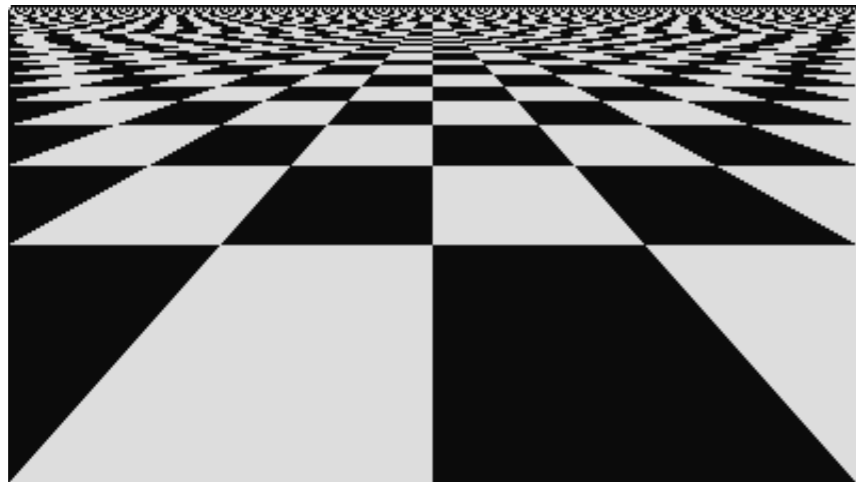
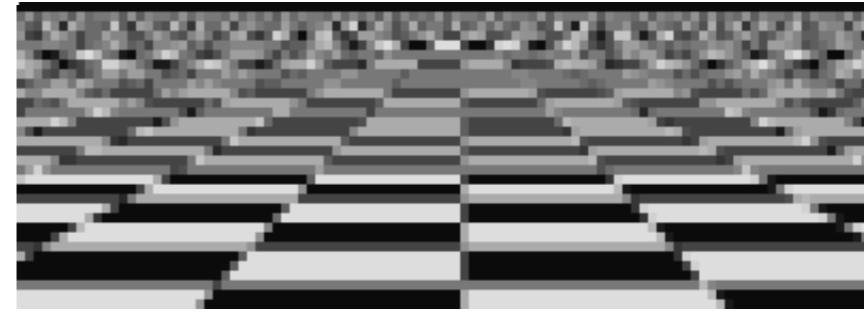
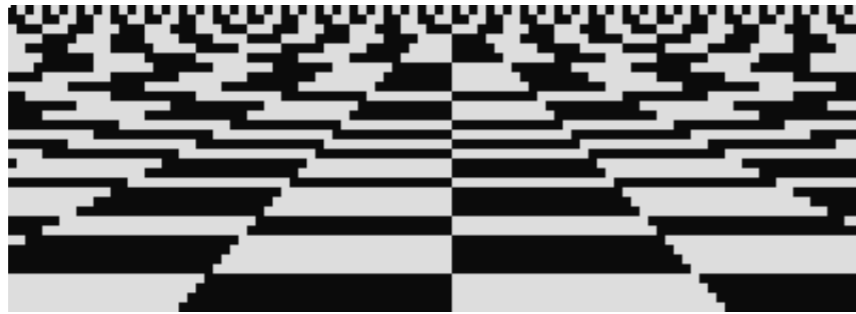
- Don Mitchell



Sampling a “Zone Plate”

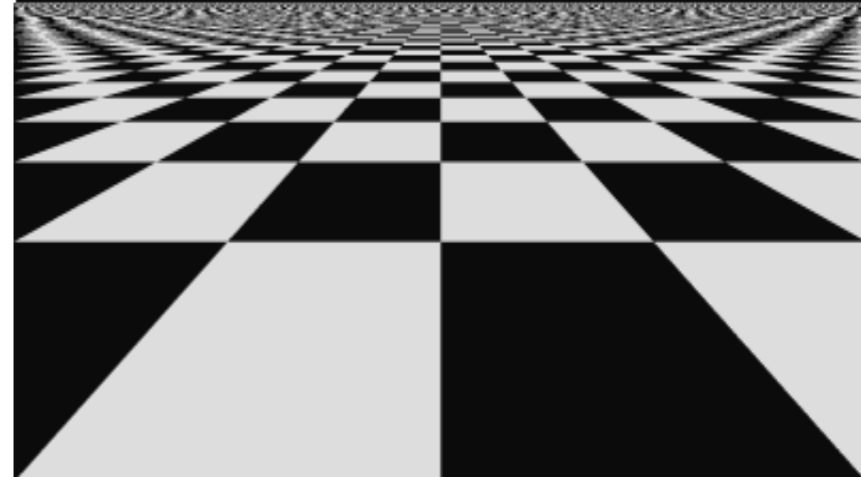
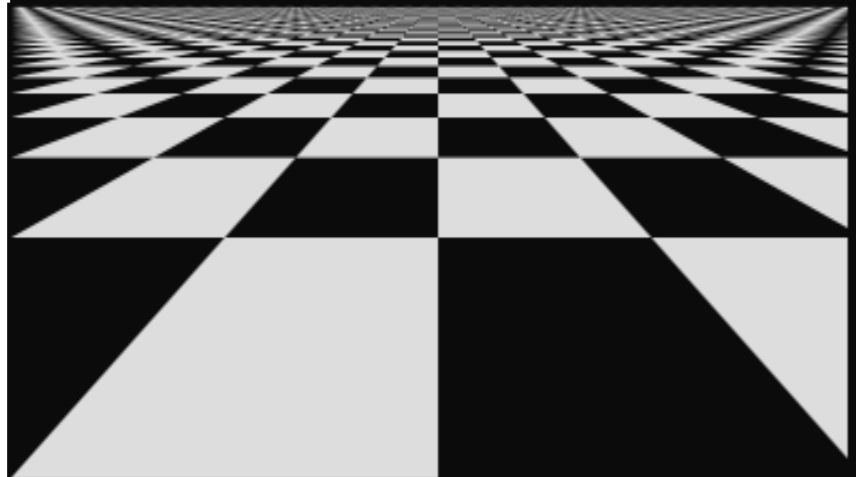
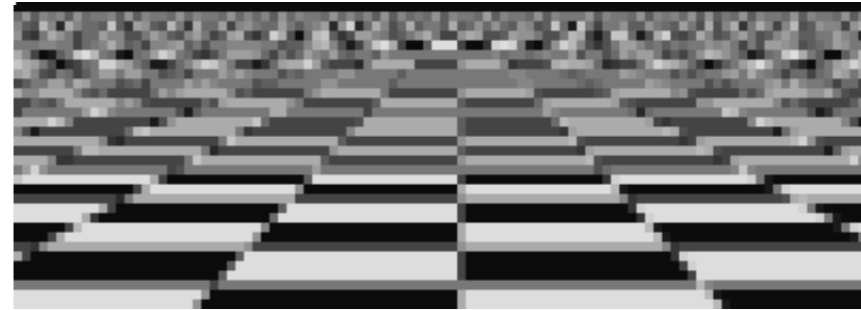
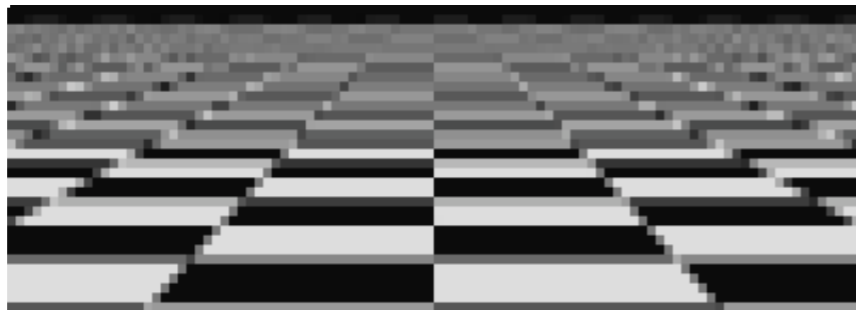


Point vs. Supersampled



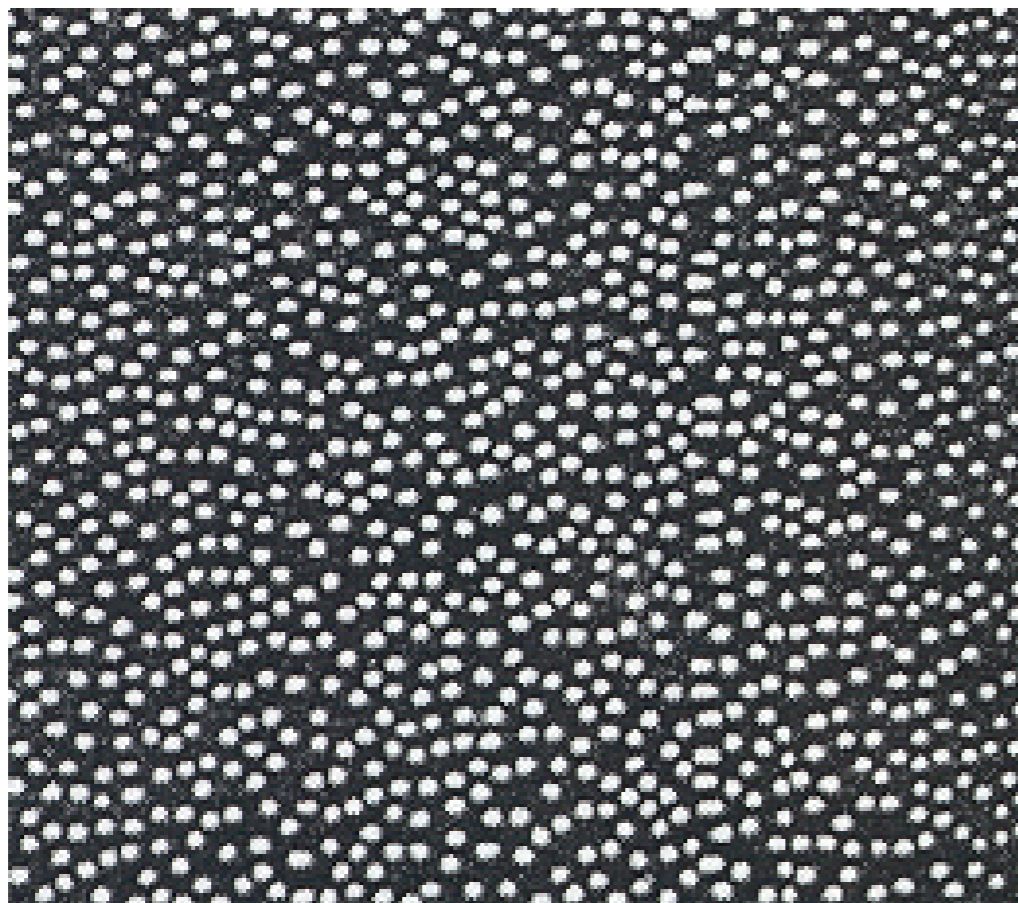
Tom Duff

Analytic vs. Supersampled



Blue Noise Patterns

- Yellot, '83: monkey eye photoreceptor pattern. Aliases replaced by noise

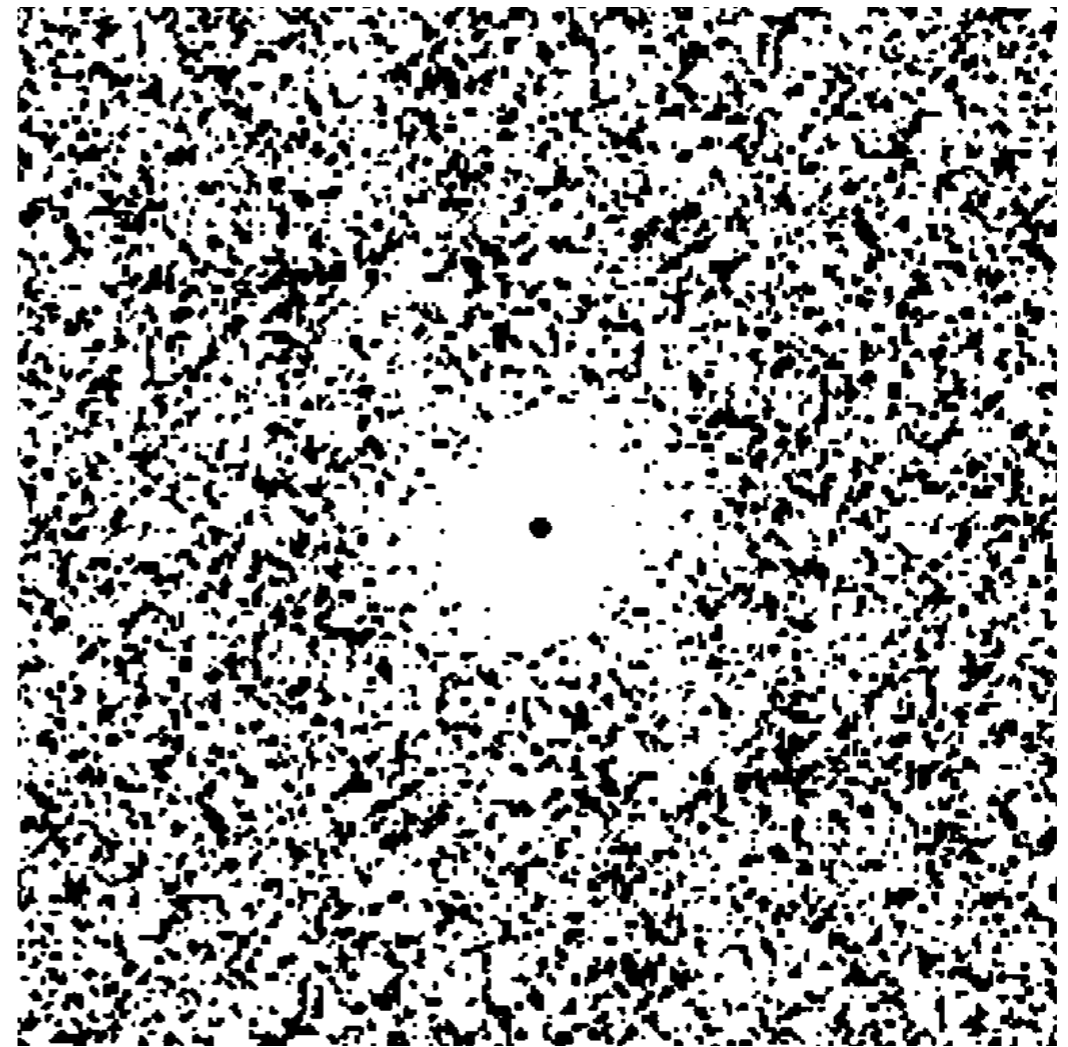
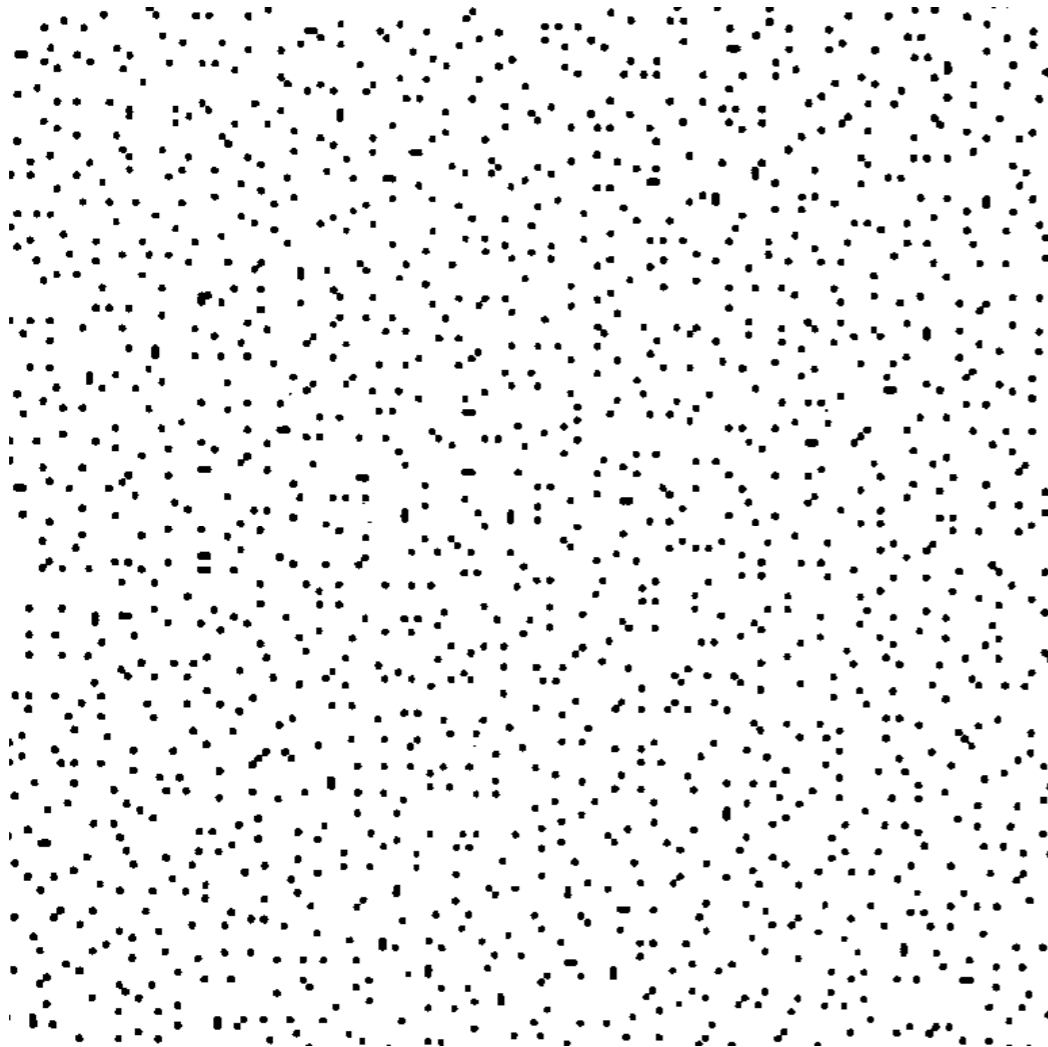


cs348b

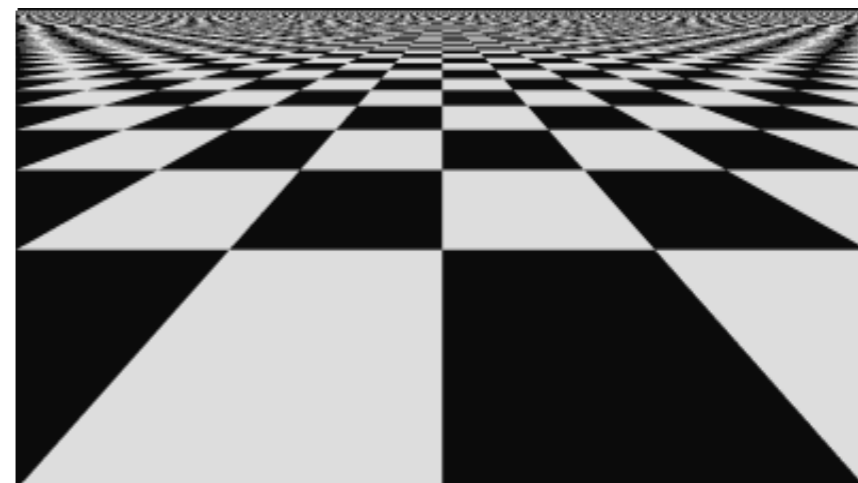
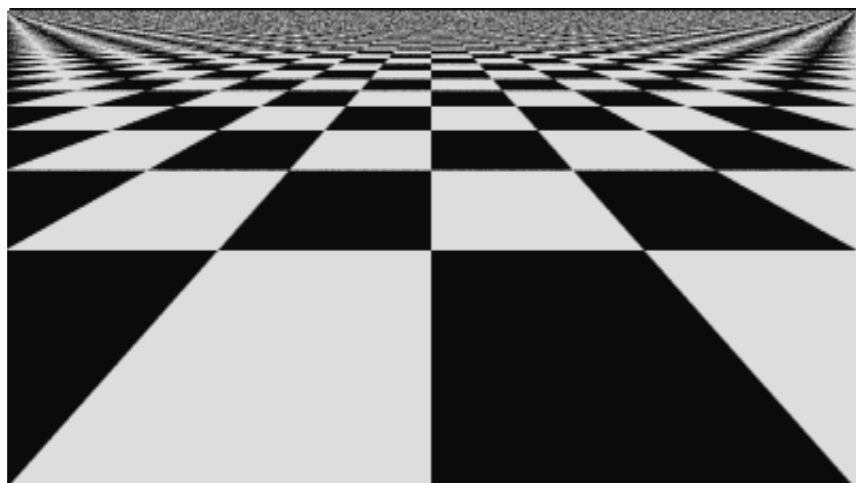
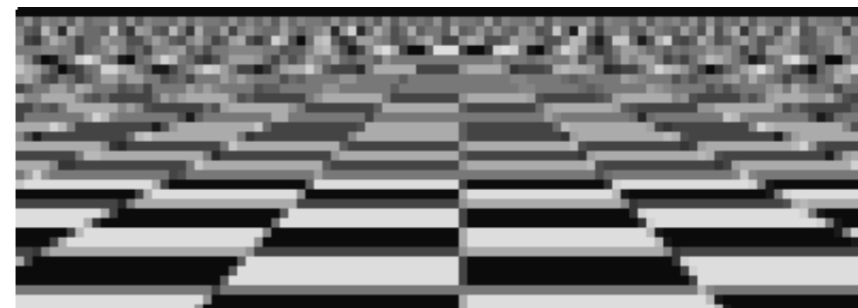
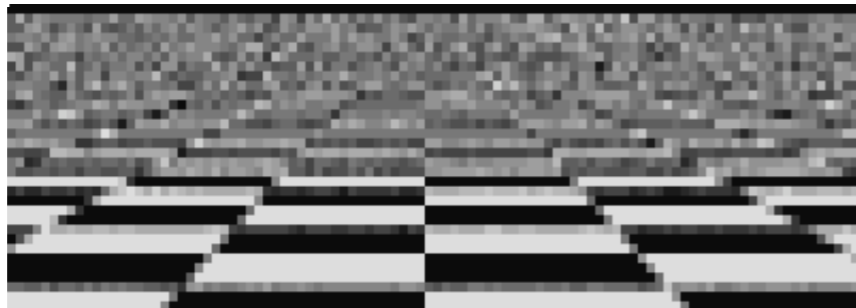


Matt Pharr, Spring 2003

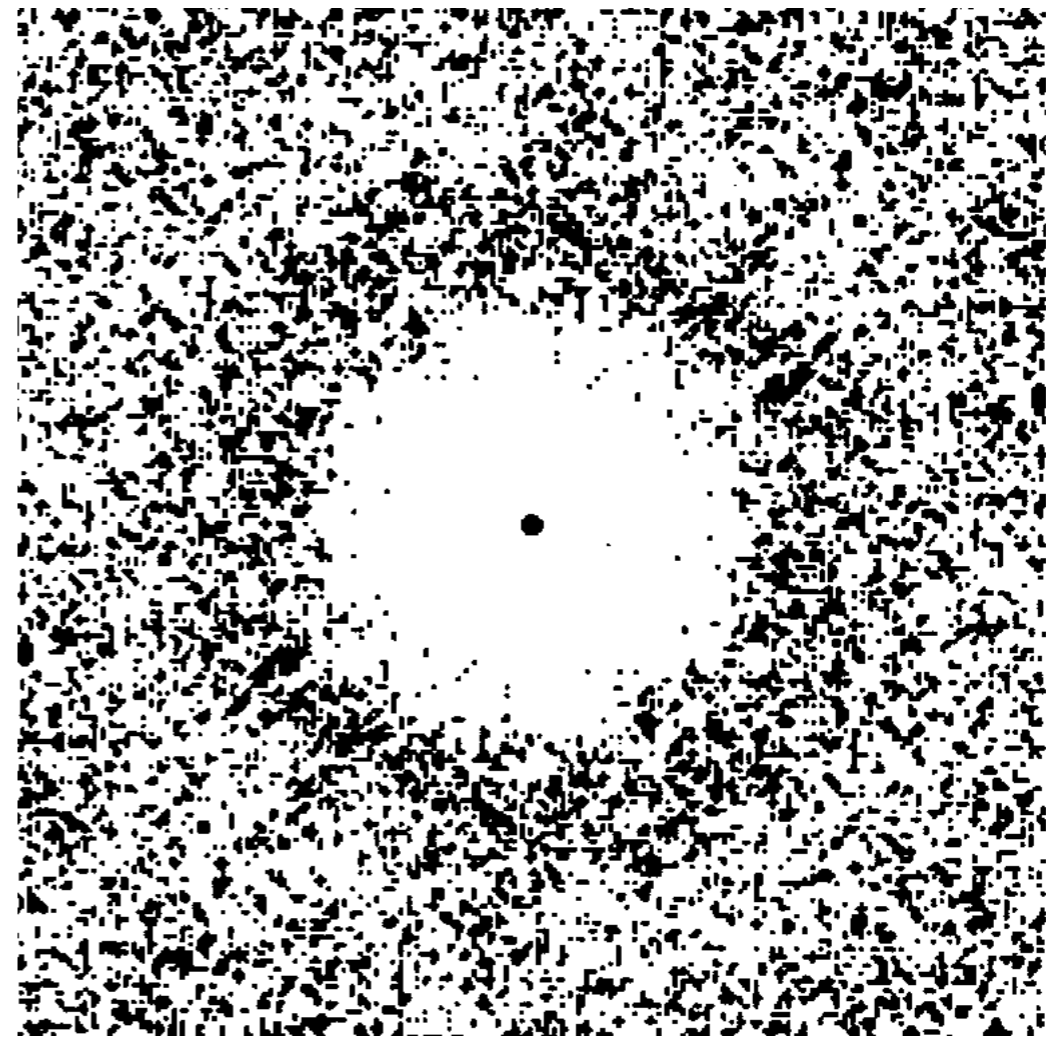
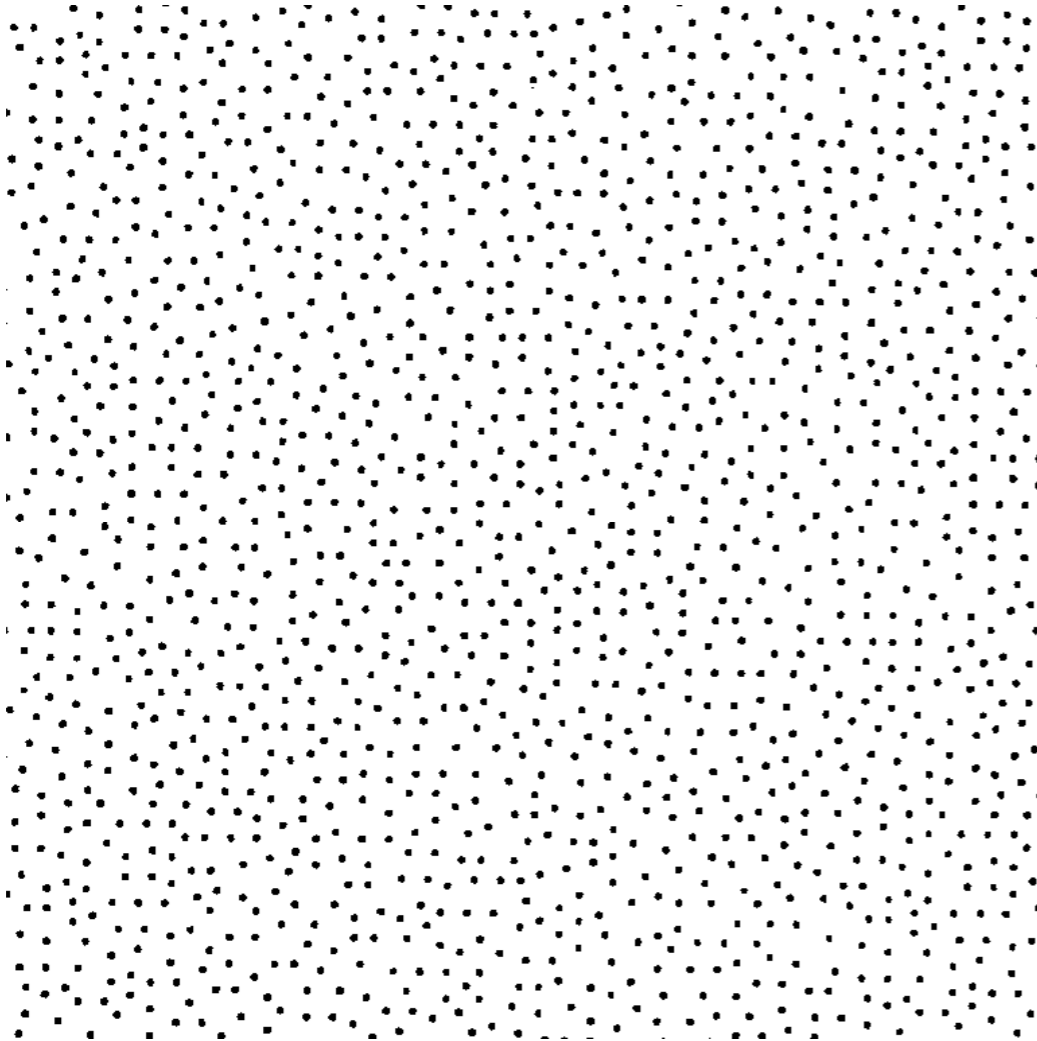
Jittered Sampling



Jittered vs. Uniform Supersampling

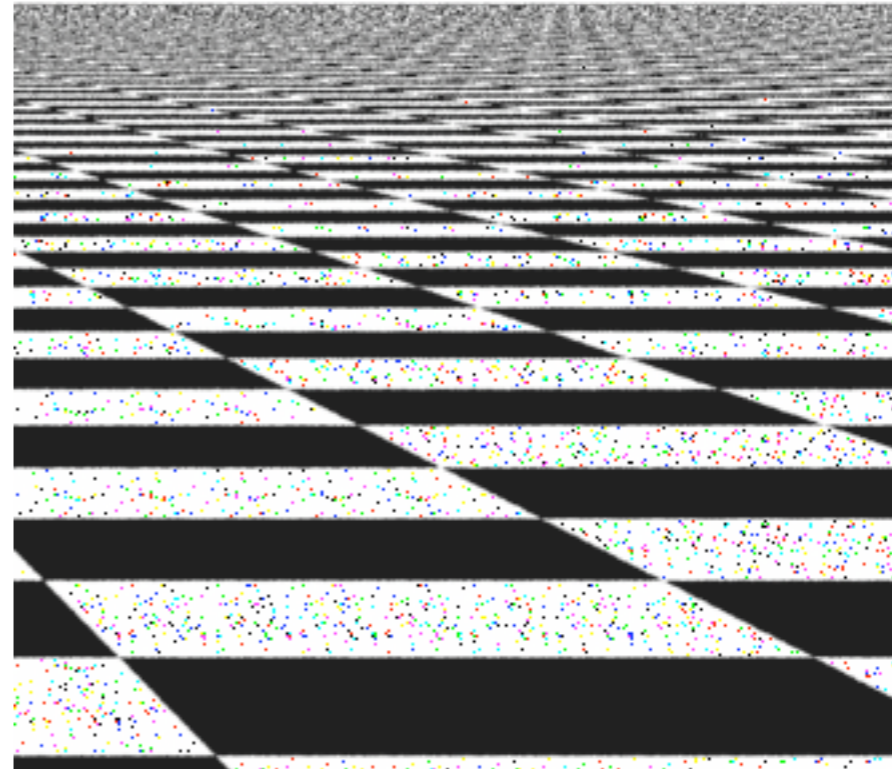
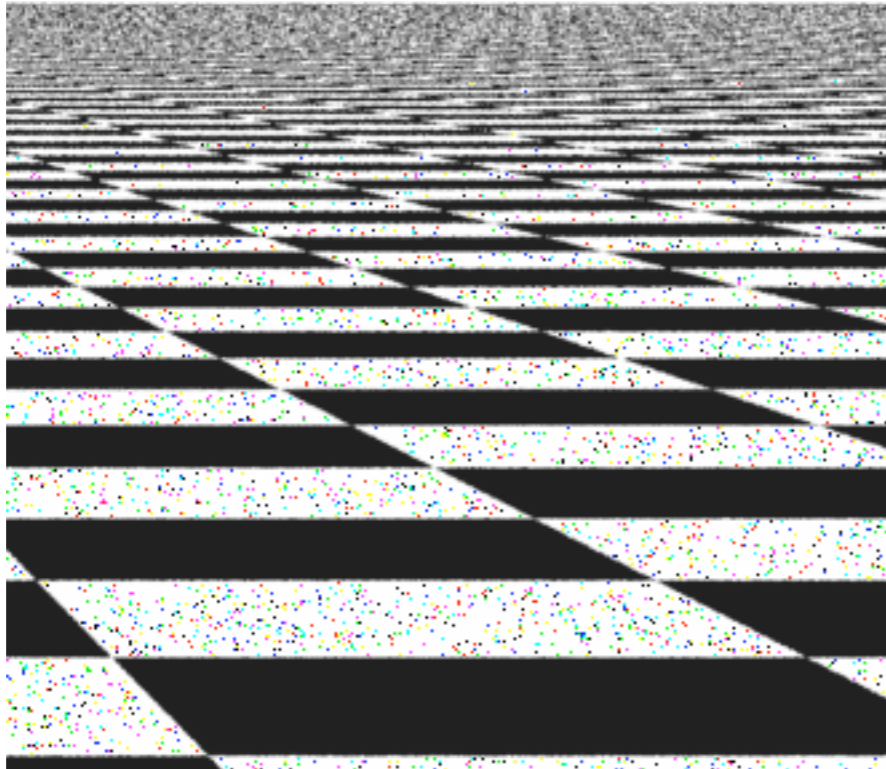


Poisson Disk Sampling



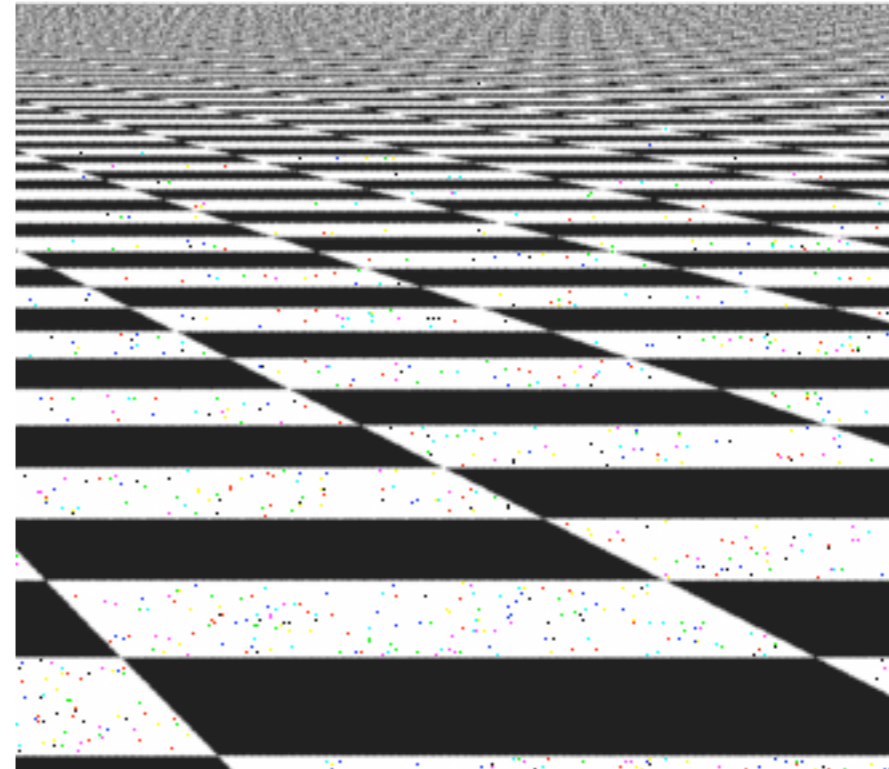
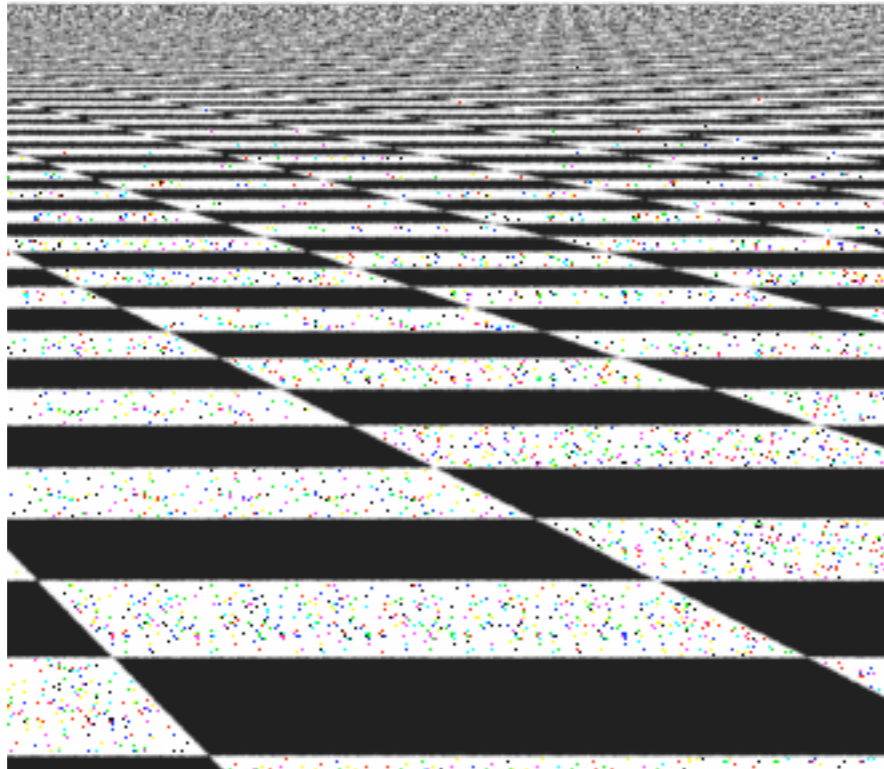
Examples

- Jittered vs. Poisson Disk



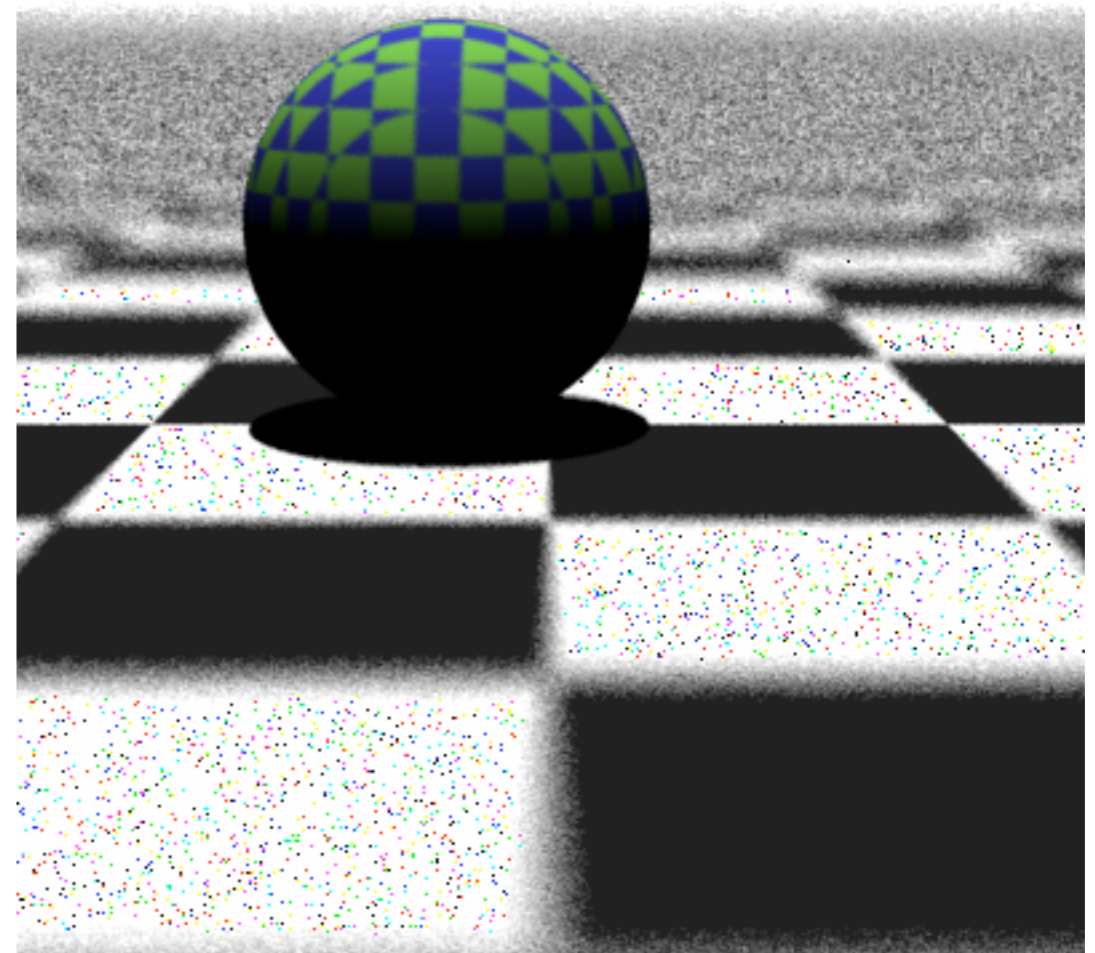
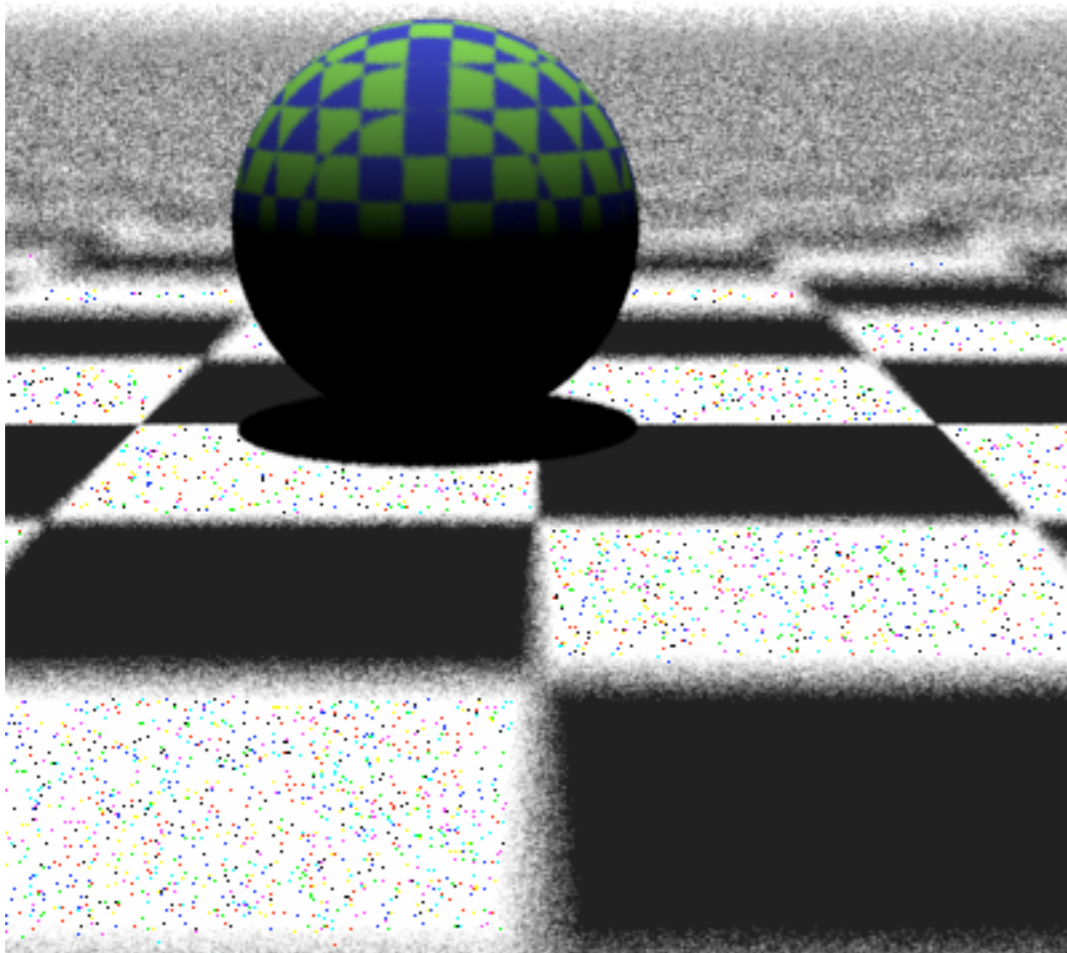
Examples

- Poisson Disk vs. Low Discrepancy



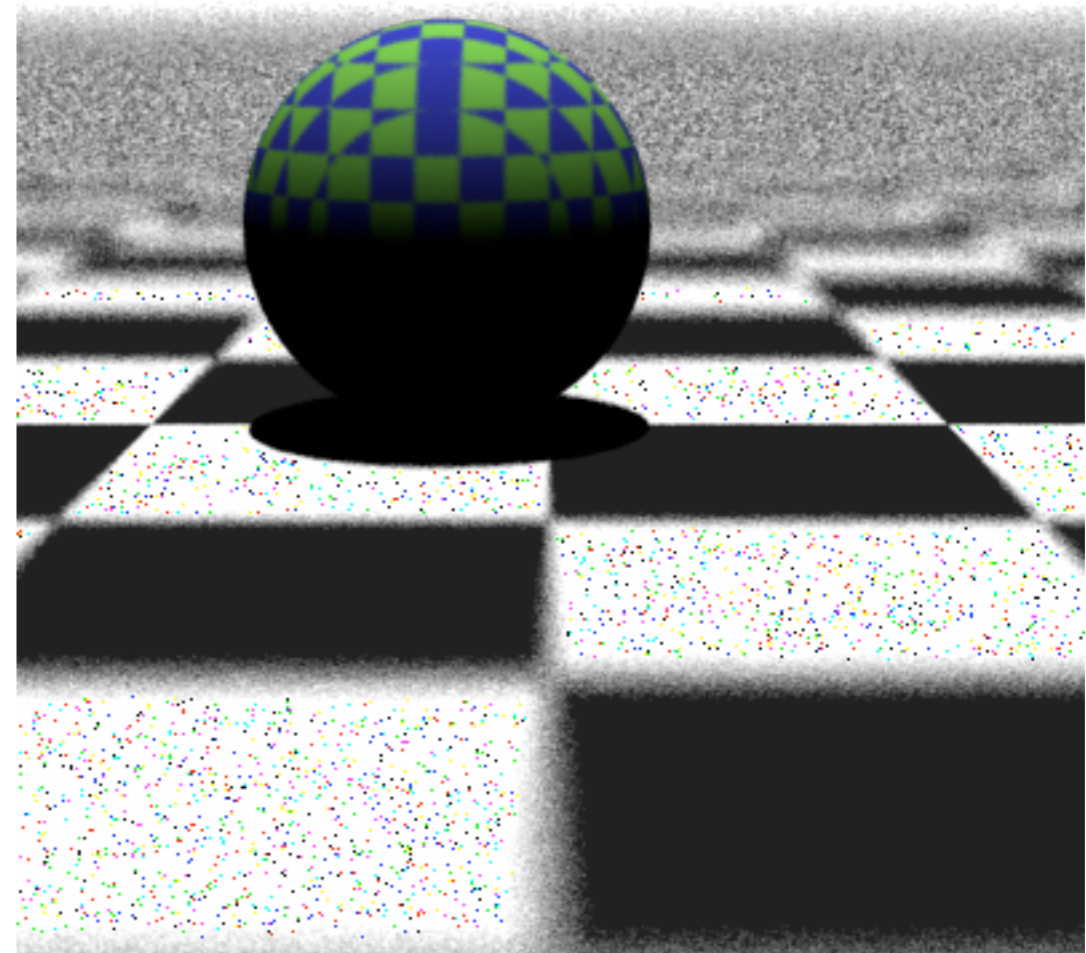
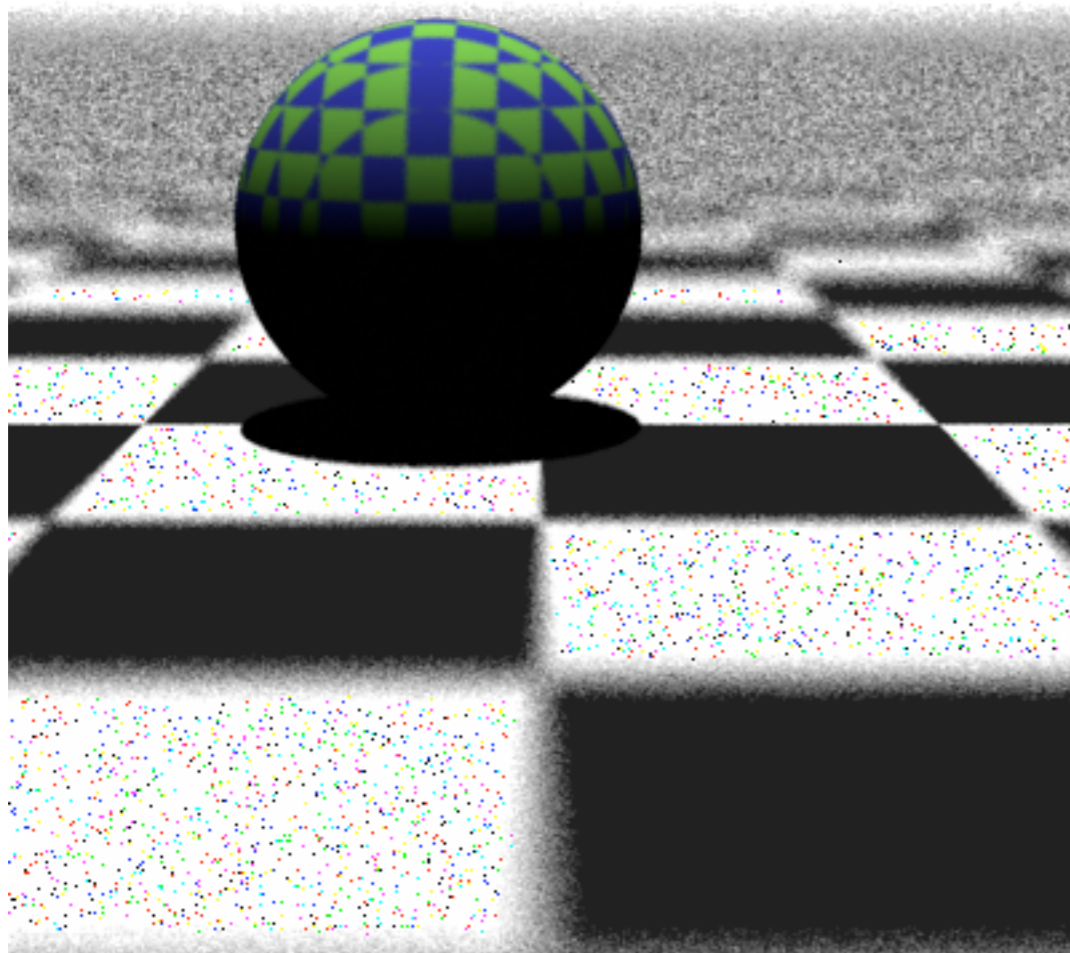
Depth of Field

- Jittered, random vs stratified lens samples



Depth of Field

- Jittered vs Best Candidate



Depth of Field

- Best Candidate vs Low Discrepancy

