**Advanced Computer Graphics Assignment #3**

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Aperture = 15/2.2 mm

* Output Images in difference z-position (depth)

|  |  |
| --- | --- |
| depth | Figure distributed sample = 10 |
| 20 cm  (front) |  |
| 40 cm  (middle) |  |
| 60 cm  (back) |  |

* The way to set the distributed samples:

1. Initialize eye-position
2. Generate a random float ranging from [0,1) as a random\_radio.
3. Generate a random integer from [0,360] as random\_angle of polarized coordinate.
4. Update the eye position with original eye position + the shift

Δx = aperture\*random\_radio\*cos(random\_angle)

Δy = aperture\*random\_radio\*sin(random\_angle).

