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## Assignment Two: Path Tracing and Distributed Ray Tracing

**Build Instructions:** 

- \*\*run in command line, in the folder the files are located
  - For path tracing compile using the path.cpp file:

To generate the image:

- o main > image.ppm
- For distributed ray tracing compile using the path.cpp file:

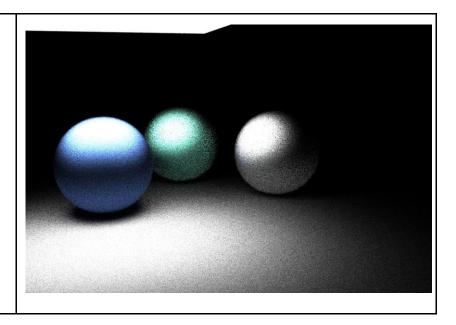
$$\circ$$
 g++ -std=c++11 drt.cpp -o drt  $\bullet$ 

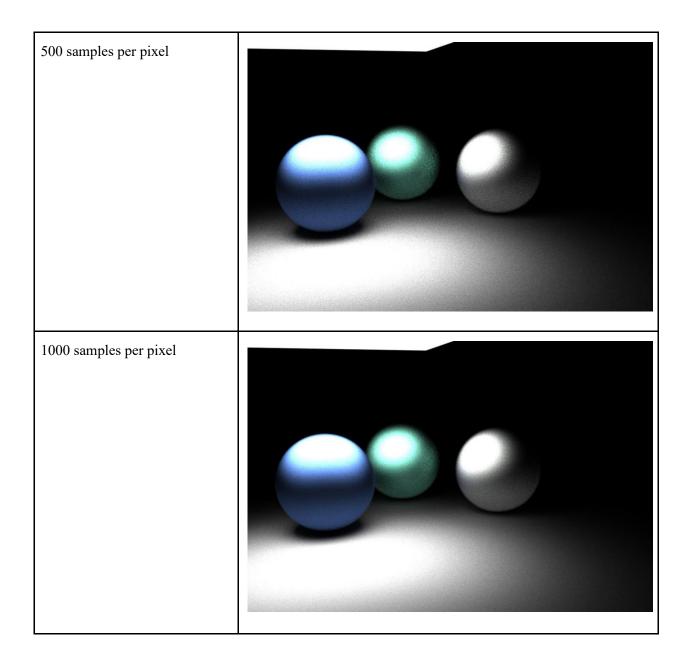
To generate the image:

 $\circ$  drt > image.ppm

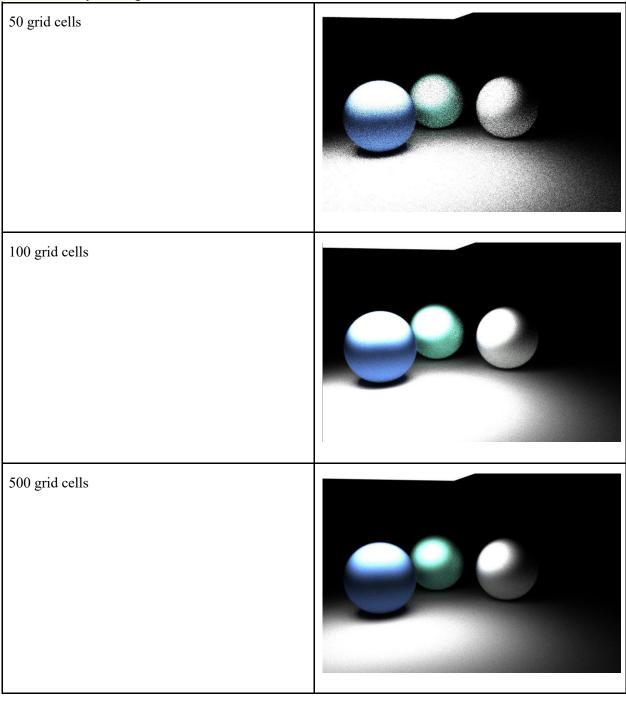
## Path Tracing

100 samples per pixel





## Distributed Ray Tracing



## Evaluation:

With path tracing a reasonable image can be made with 100 rays per pixel, while distributed ray tracing produces a reasonable image when there are 100 grid cells (a 10x10 grid).

A code book on ray tracing was referenced that belongs to the public domain according to <a href="https://creativecommons.org/publicdomain/zero/1.0/">https://creativecommons.org/publicdomain/zero/1.0/</a> while working on this project.