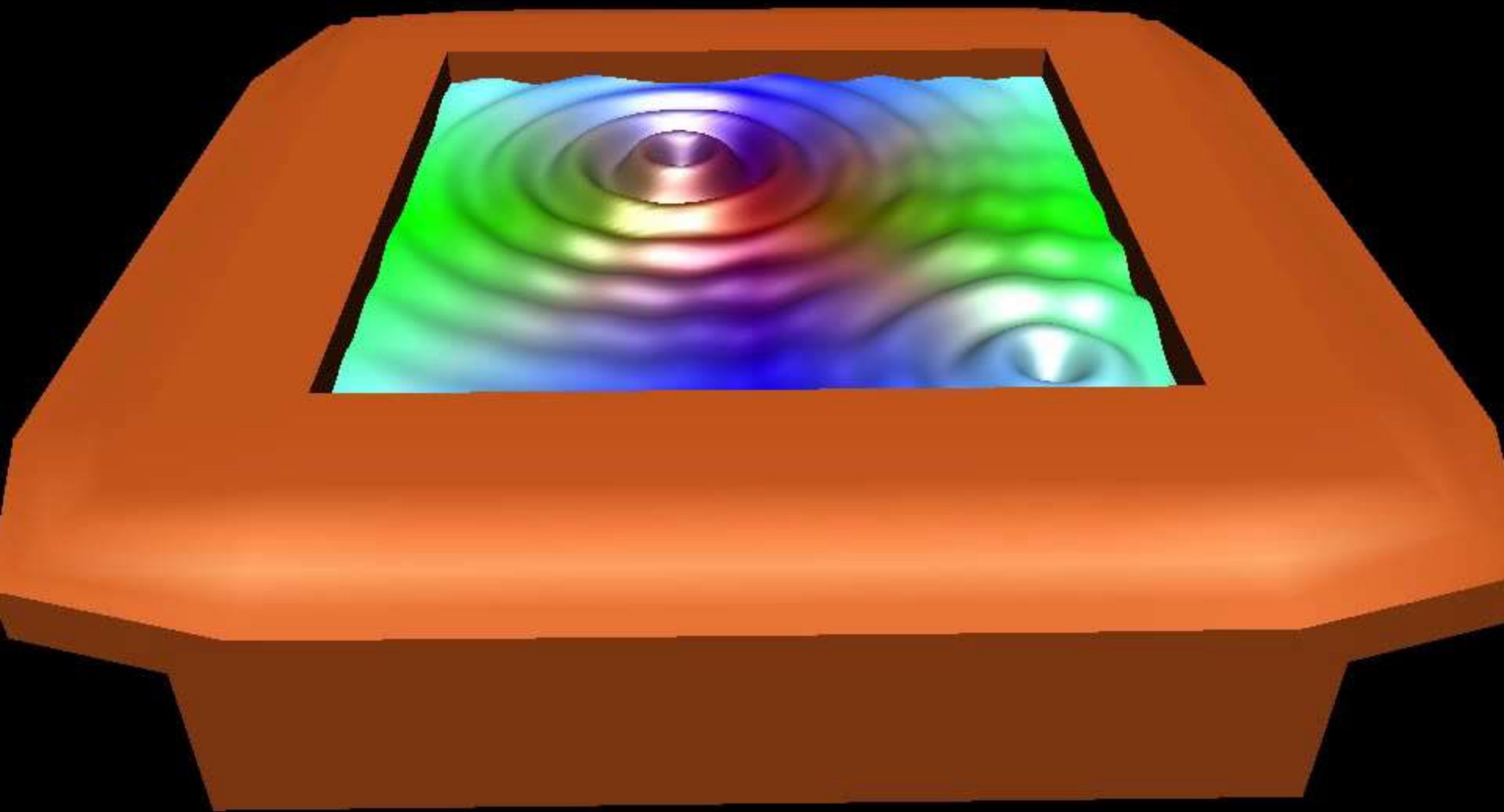


# Project 1: OpenGL

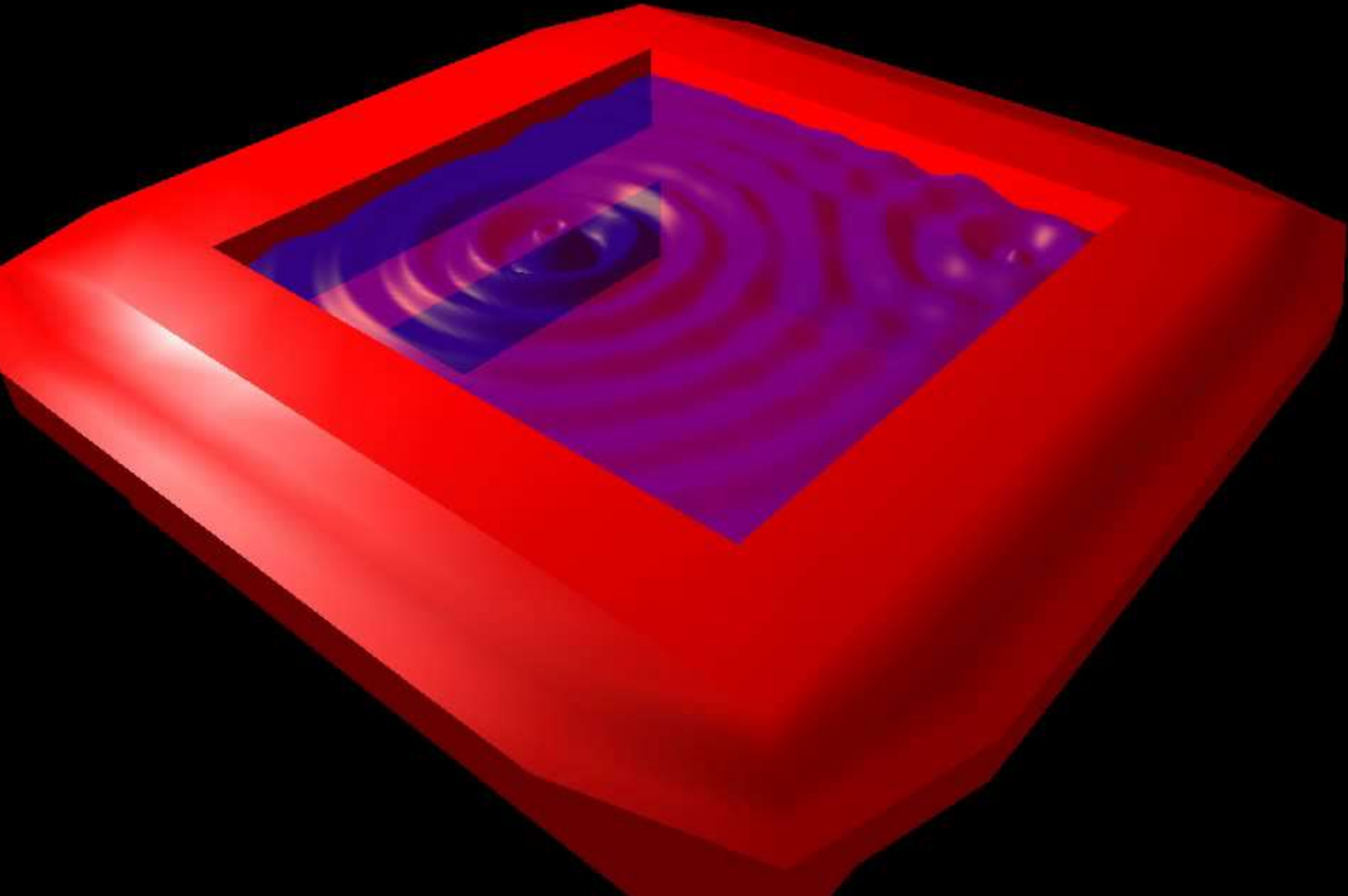
# Bronze –Franklin Ditzler

- Rainbow colors on water surface



# Silver – Runtian Liu

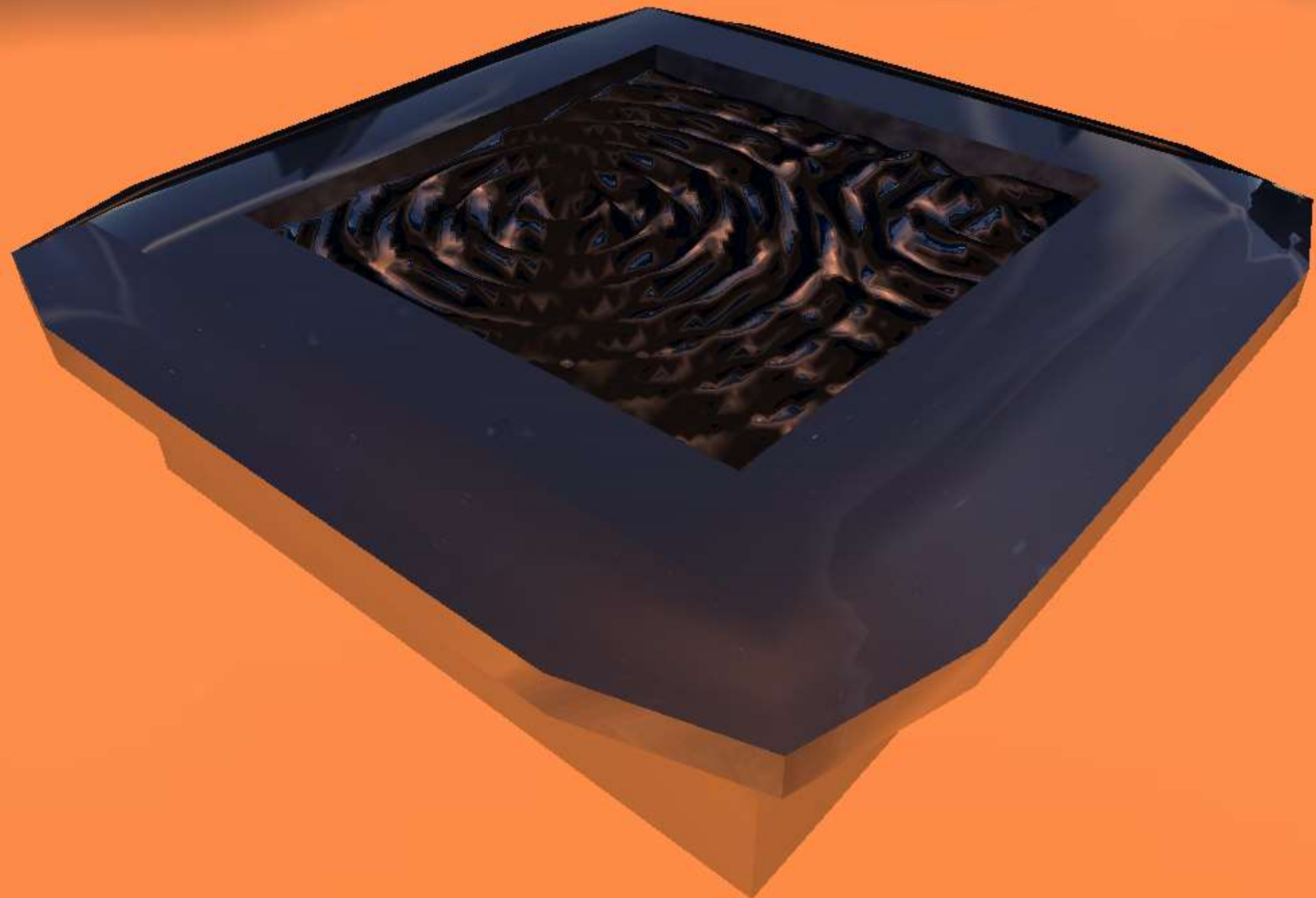
- Transparent water surface
- Light position changes



# Gold – Yunxin Zheng

- Add skybox (cubemap) to the scene
- Calculate surface reflection and refraction using shaders







# Project 2: Subdivision

# Bronze –Shengheng Xu

- 6 iterations of Stegasaurus in:

2.056 s

# Silver – Saagar Sethi

- 6 iterations of Stegasaurus in:

1.759 s

# Gold – Alexander Podolsky

- 6 iterations of Stegasaurus in:

1.043 s

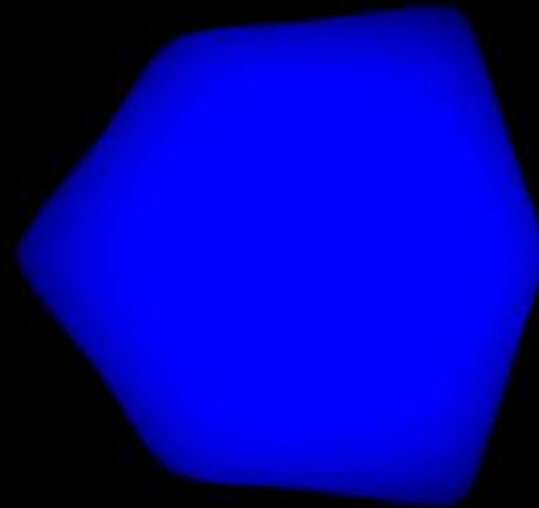
# Special Mention– Fan Wang

- Butterfly subdivision

Loop



Butterfly

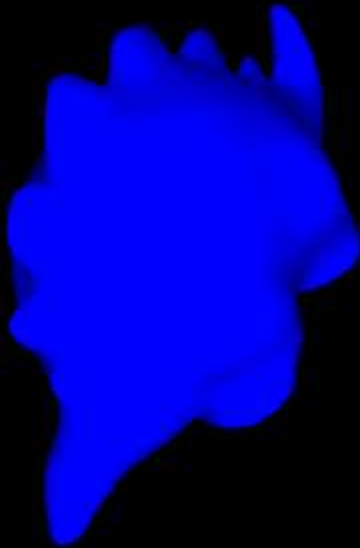


Cube

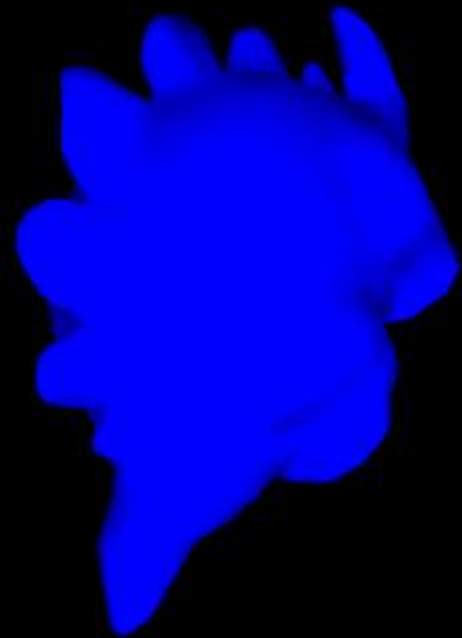
# Special Mention– Fan Wang

- Butterfly subdivision

Loop



Butterfly

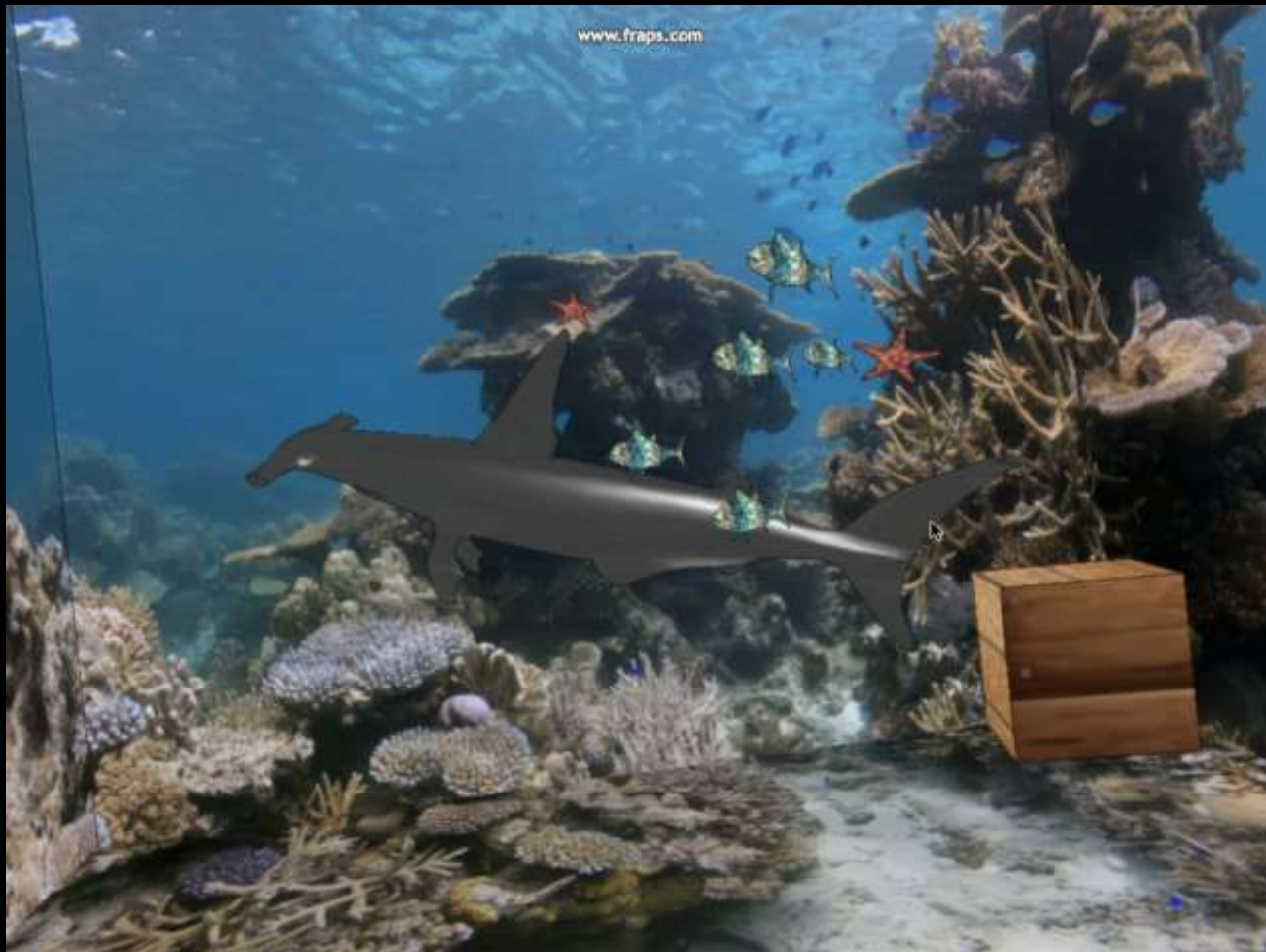


Stegasaurus

# Project 3: Shaders

# Bronze – Tsu-Hao Kuo

- Extra models and textures for pool scene





# Silver – Tsu-Hsun Lu

- “Predator-vision” scanning shader



# Gold – Jia Liu

- Pixelation shader
- Sharpening shader

# Gold – Jia Liu

- Pixelation shader



# Gold – Jia Liu

- Sharpening shader

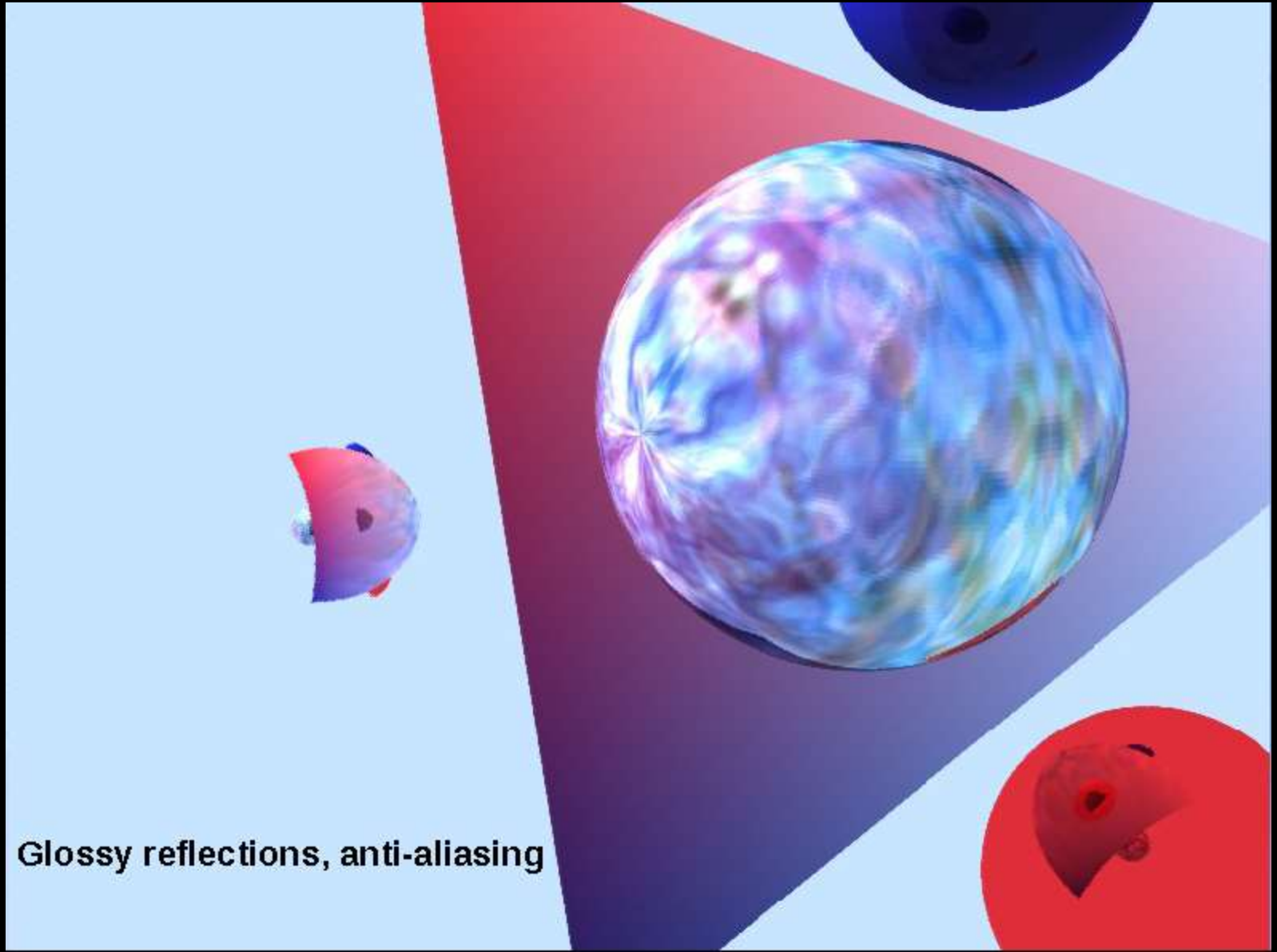


# Project 4: Ray Tracer

# Silver – Fangxiaoyu Feng

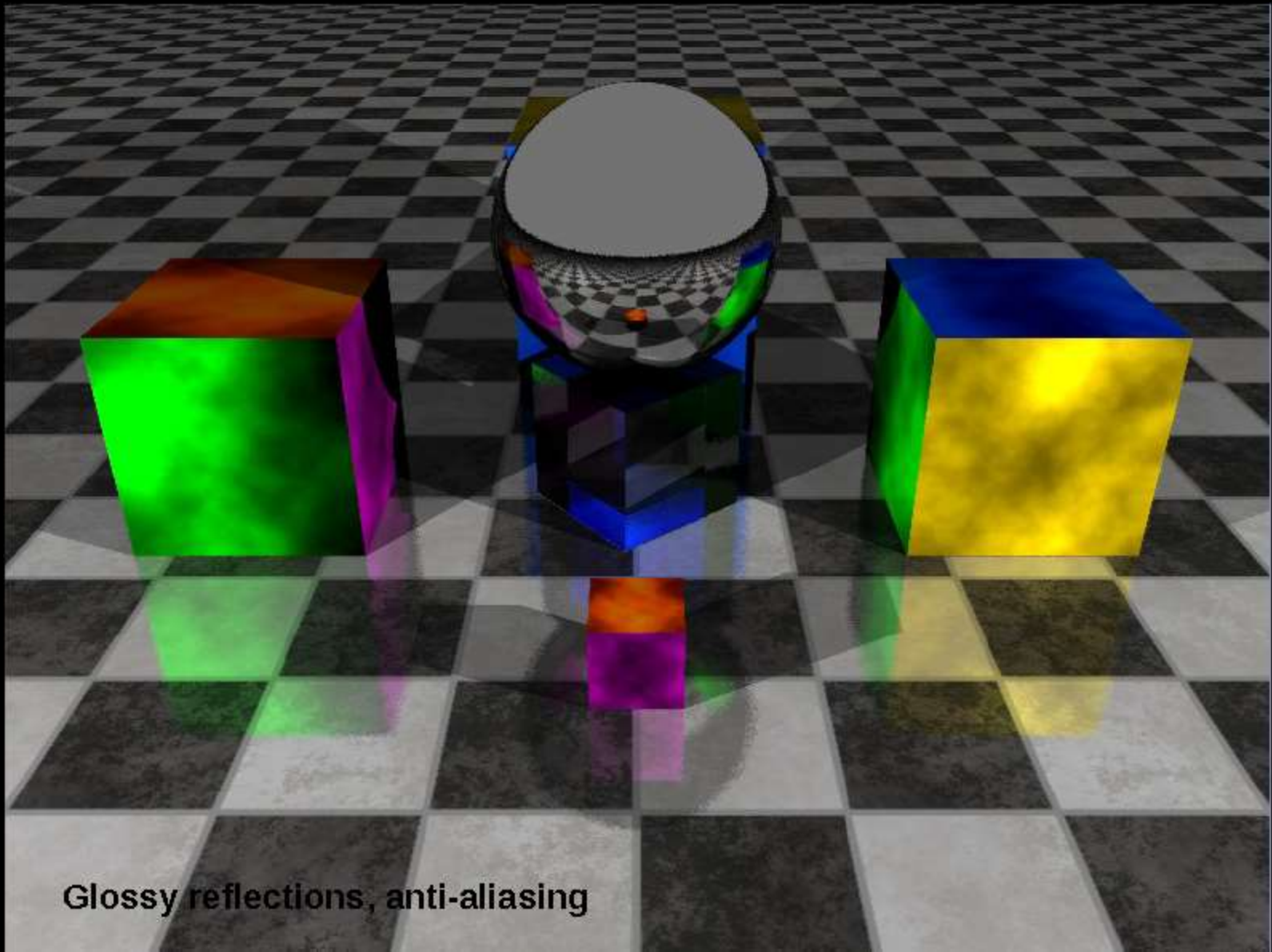
- Soft shadows
- Glossy reflections
- Antialiasing

# Silver – Fangxiaoyu Feng



Glossy reflections, anti-aliasing

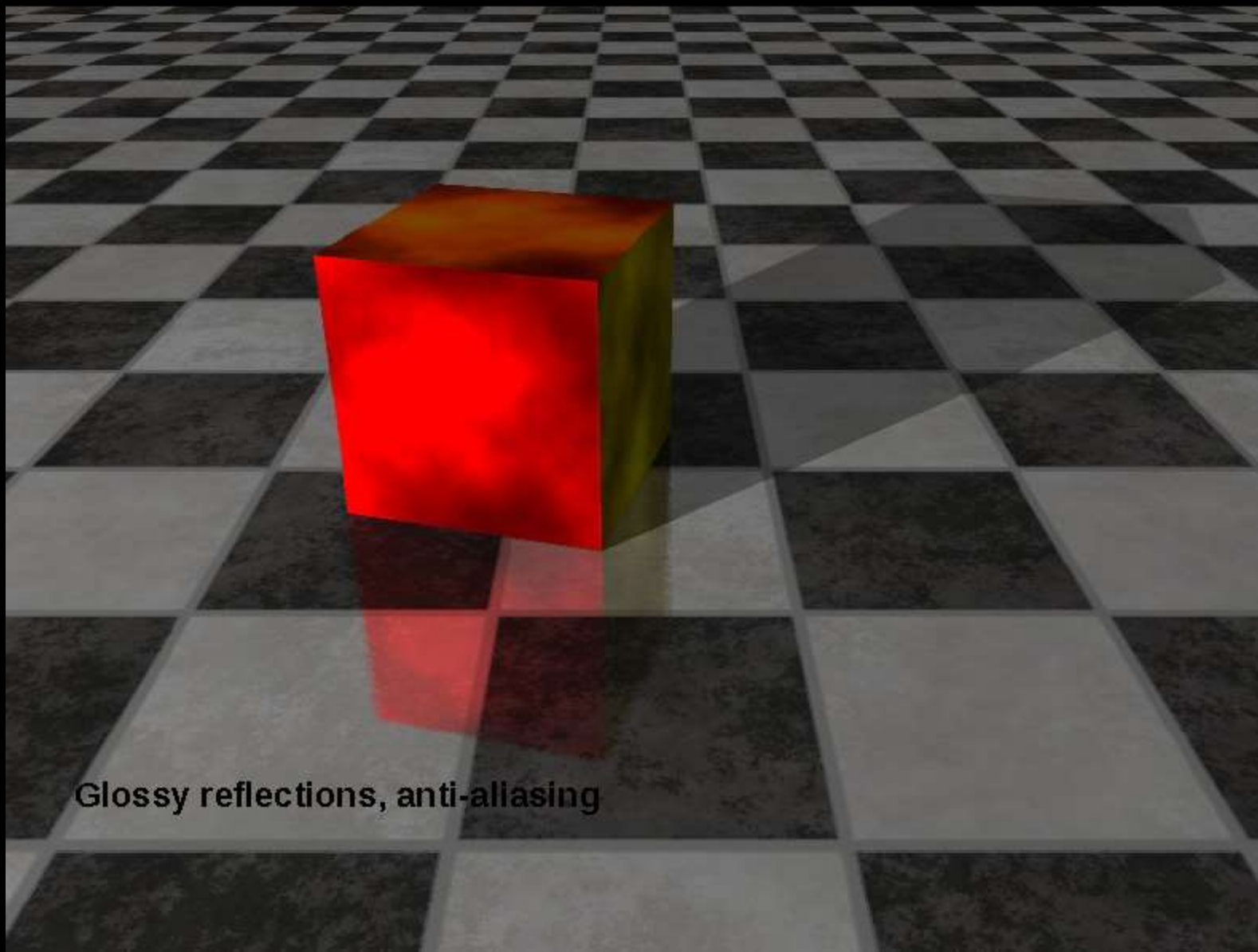
# Silver – Fangxiaoyu Feng



Glossy reflections, anti-aliasing

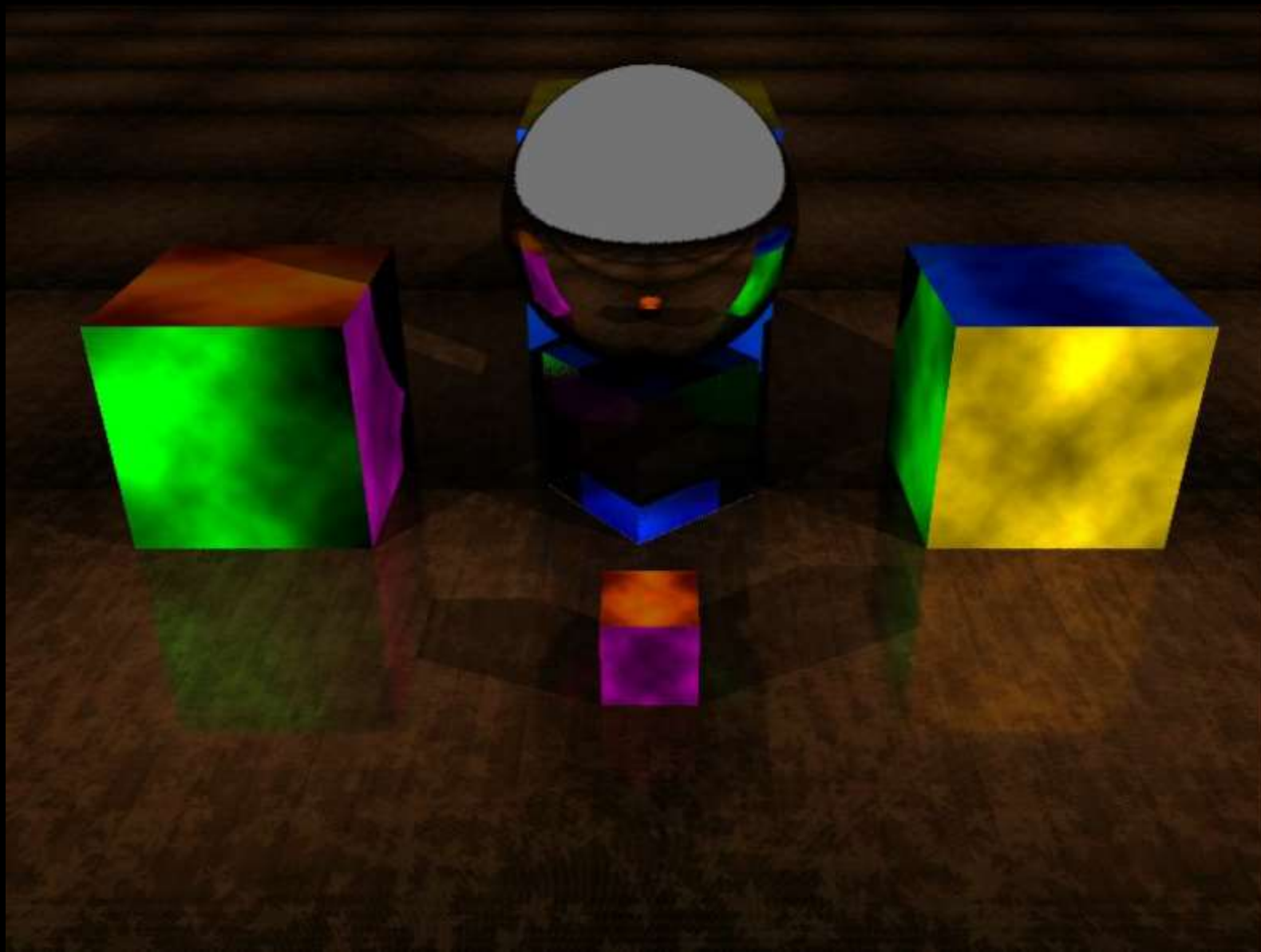


# Silver – Fangxiaoyu Feng



Glossy reflections, anti-aliasing

# Silver – Fangxiaoyu Feng



# Silver – Victor Qin

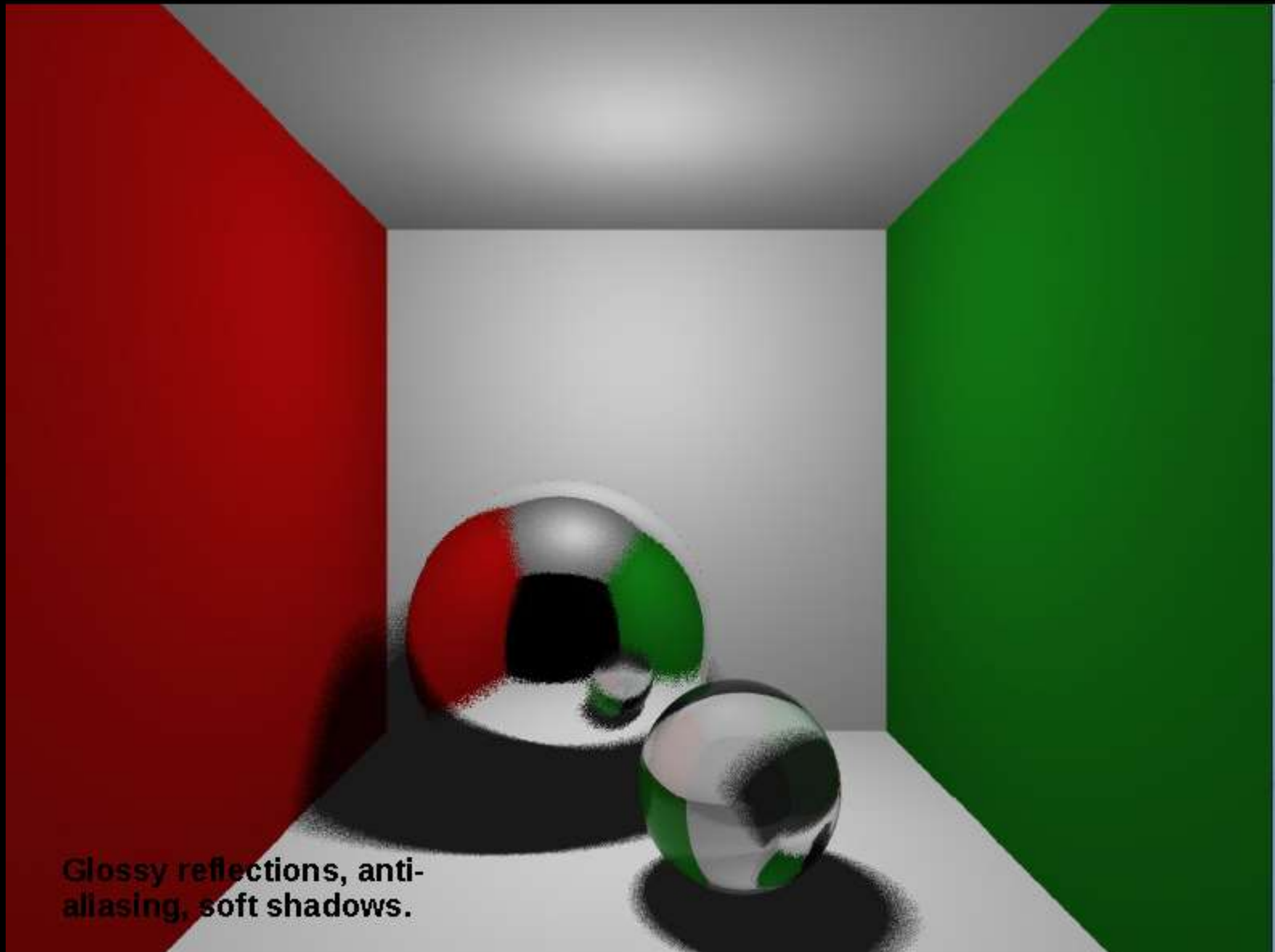
- Soft shadows
- Glossy reflections
- Antialiasing

# Silver – Victor Qin



anti-aliasing

# Silver – Victor Qin



Glossy reflections, anti-aliasing, soft shadows.

# Silver – Victor Qin

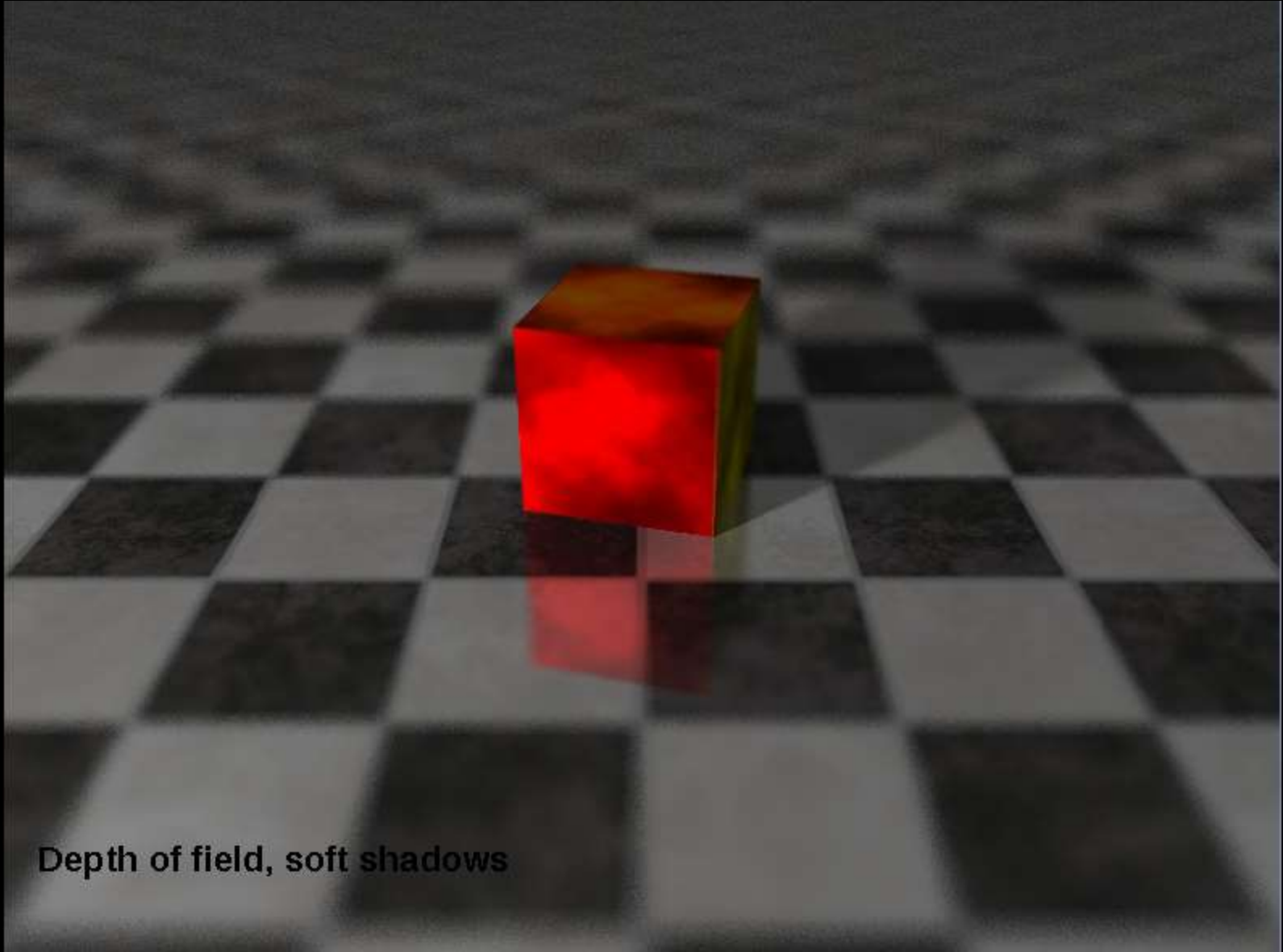


Rendered using Jia's raytracer  
on plane from P3.

# Gold – Sakar Khattar

- Soft shadows
- Antialiasing
- Depth of field

# Gold – Sakar Khattar



Depth of field, soft shadows

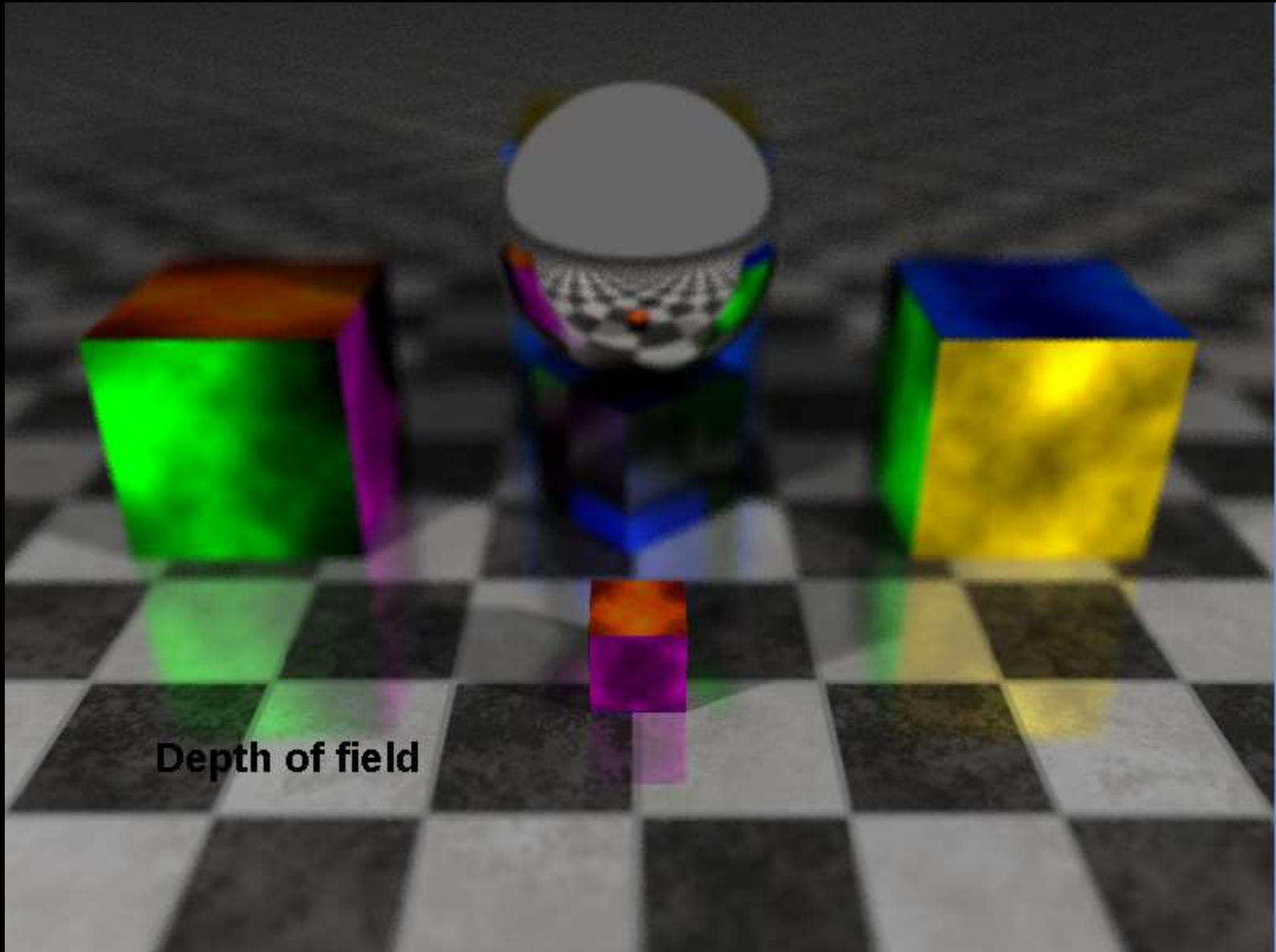


# Gold – Sakar Khattar



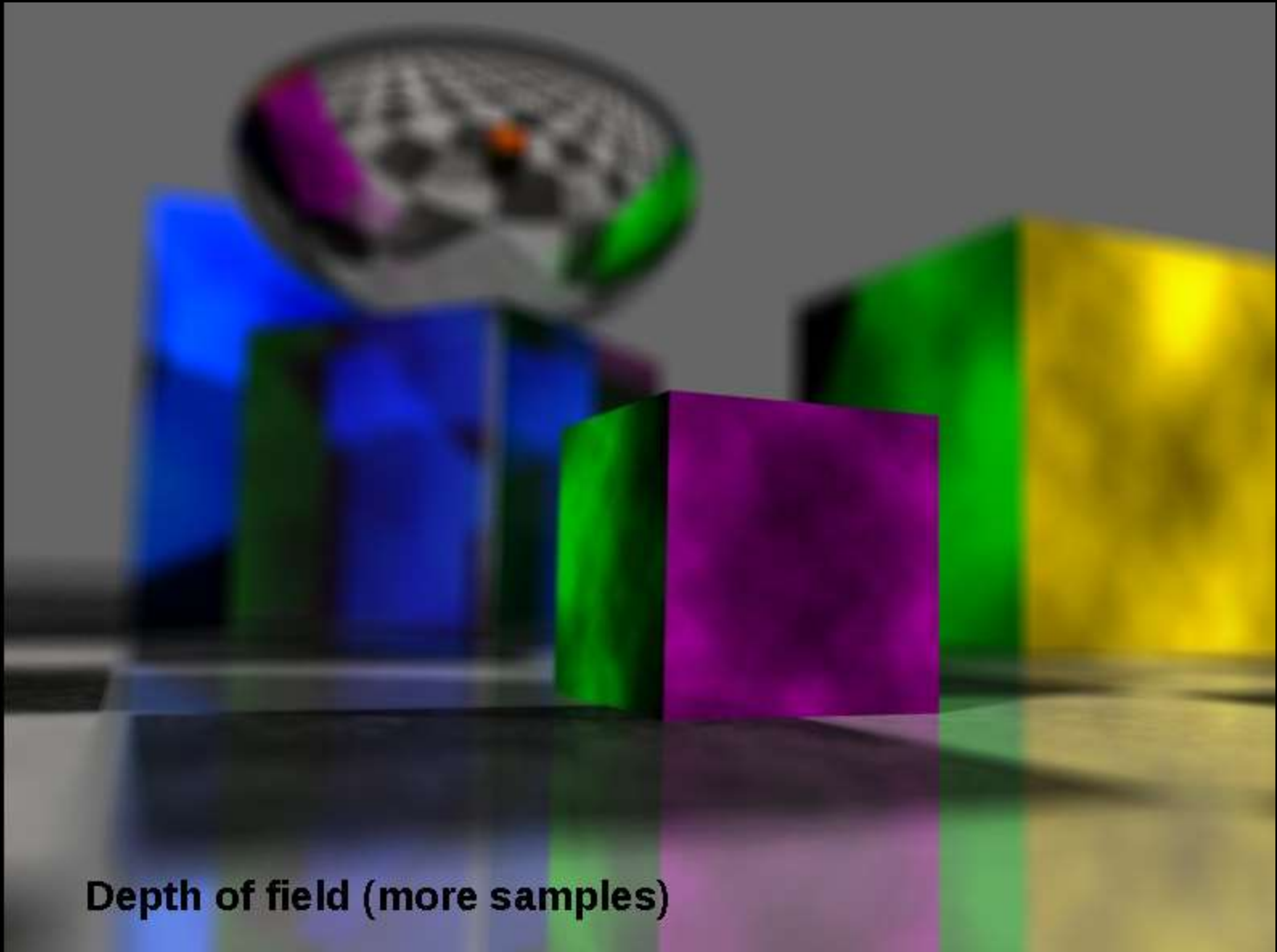
Glossy reflections, anti-aliasing

# Gold – Sakar Khattar



Depth of field

# Gold – Sakar Khattar



Depth of field (more samples)