Real Time Rendering Engine

Real – Time Graphics with a modern graphics approach

Flow Render Engine

Rendered scenes

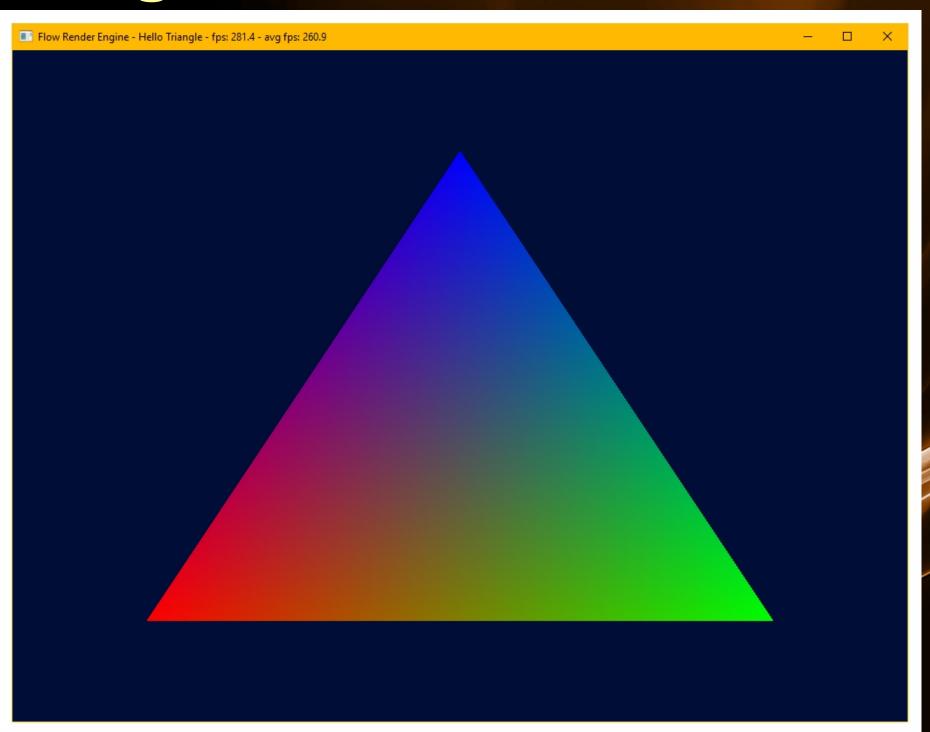
Master's degree final project Master computing engineering High performance computing area



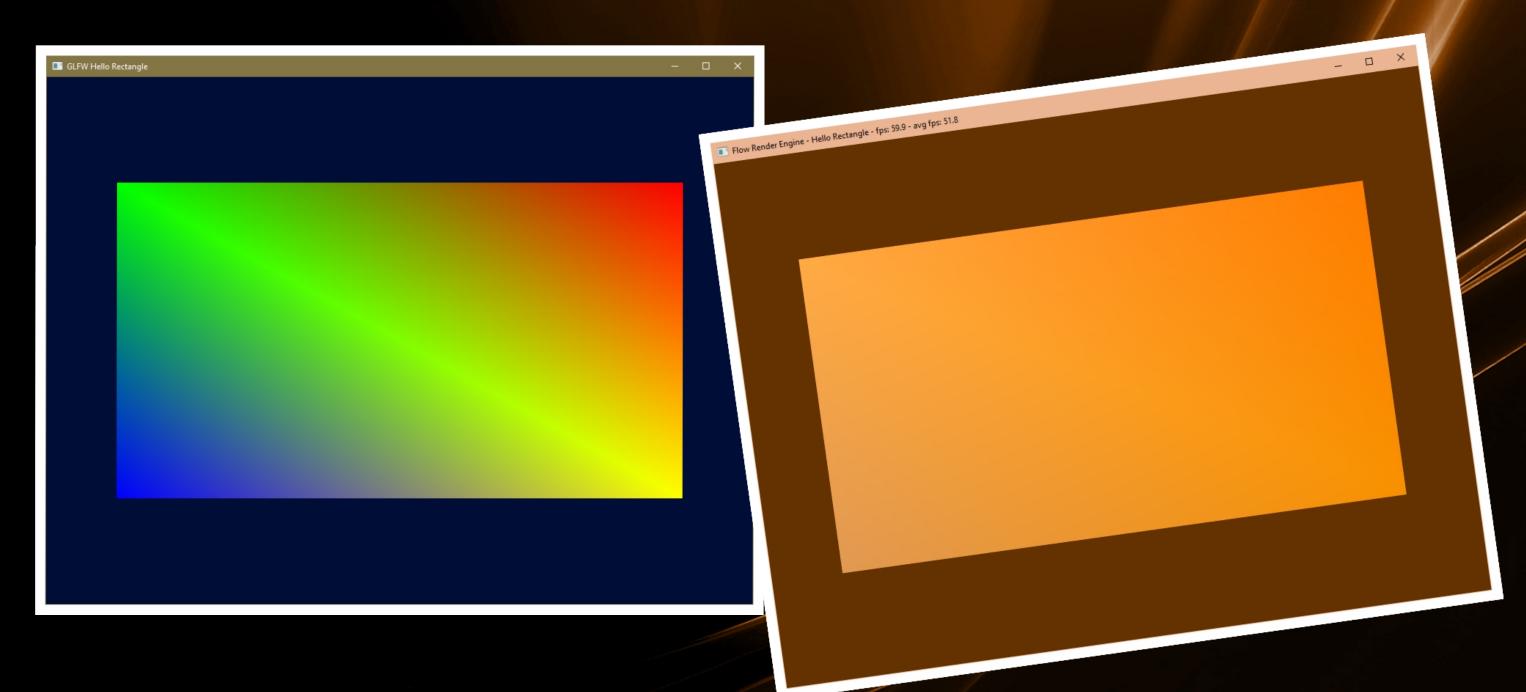
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Tutors: Ester Arroyo Garriguez
Josep Jorba Esteve
December 2019

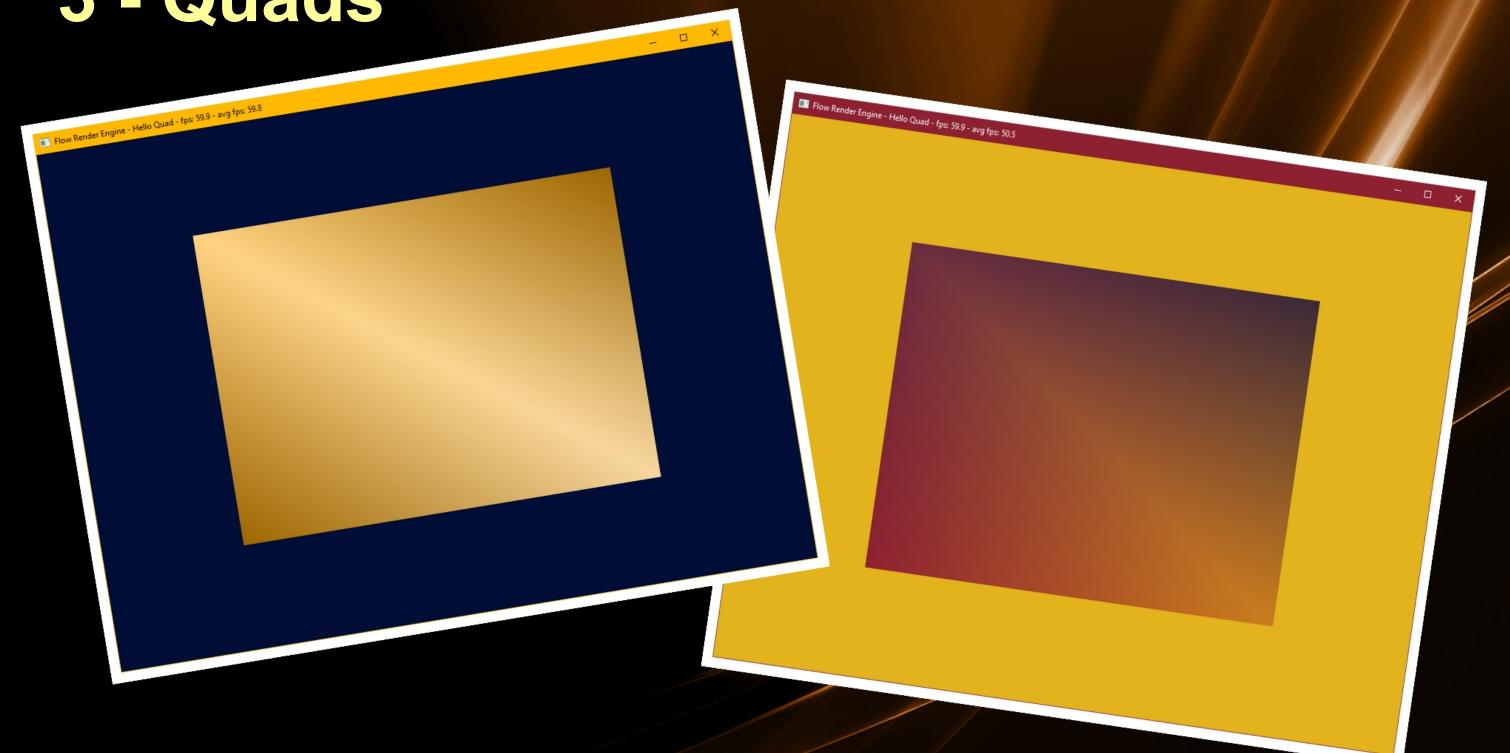
1 - Triangle



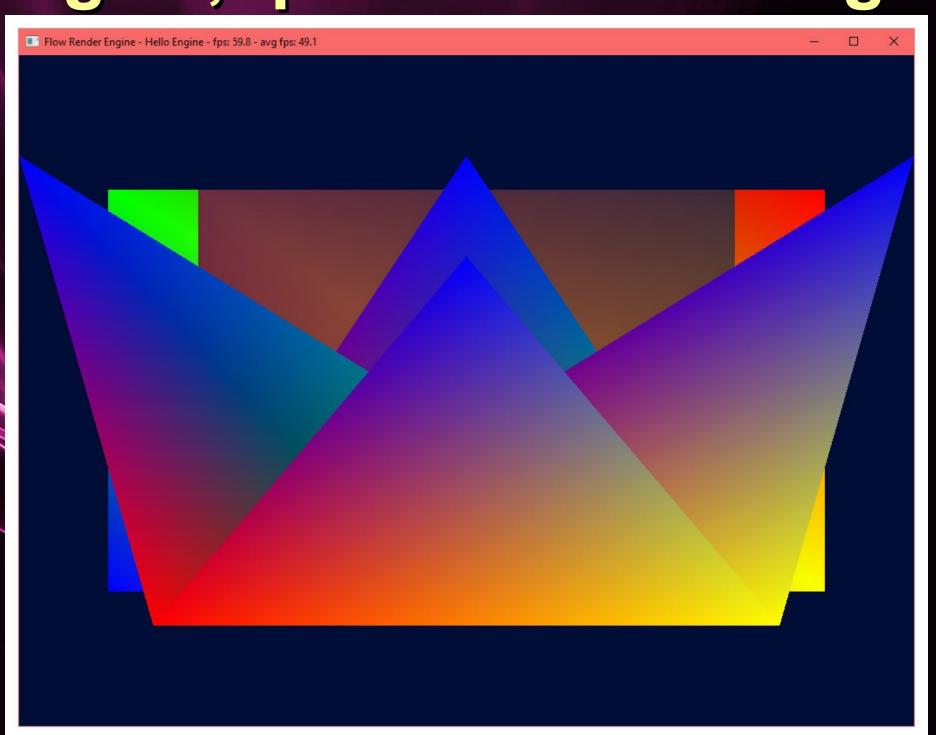
2 - Rectangles



3 - Quads

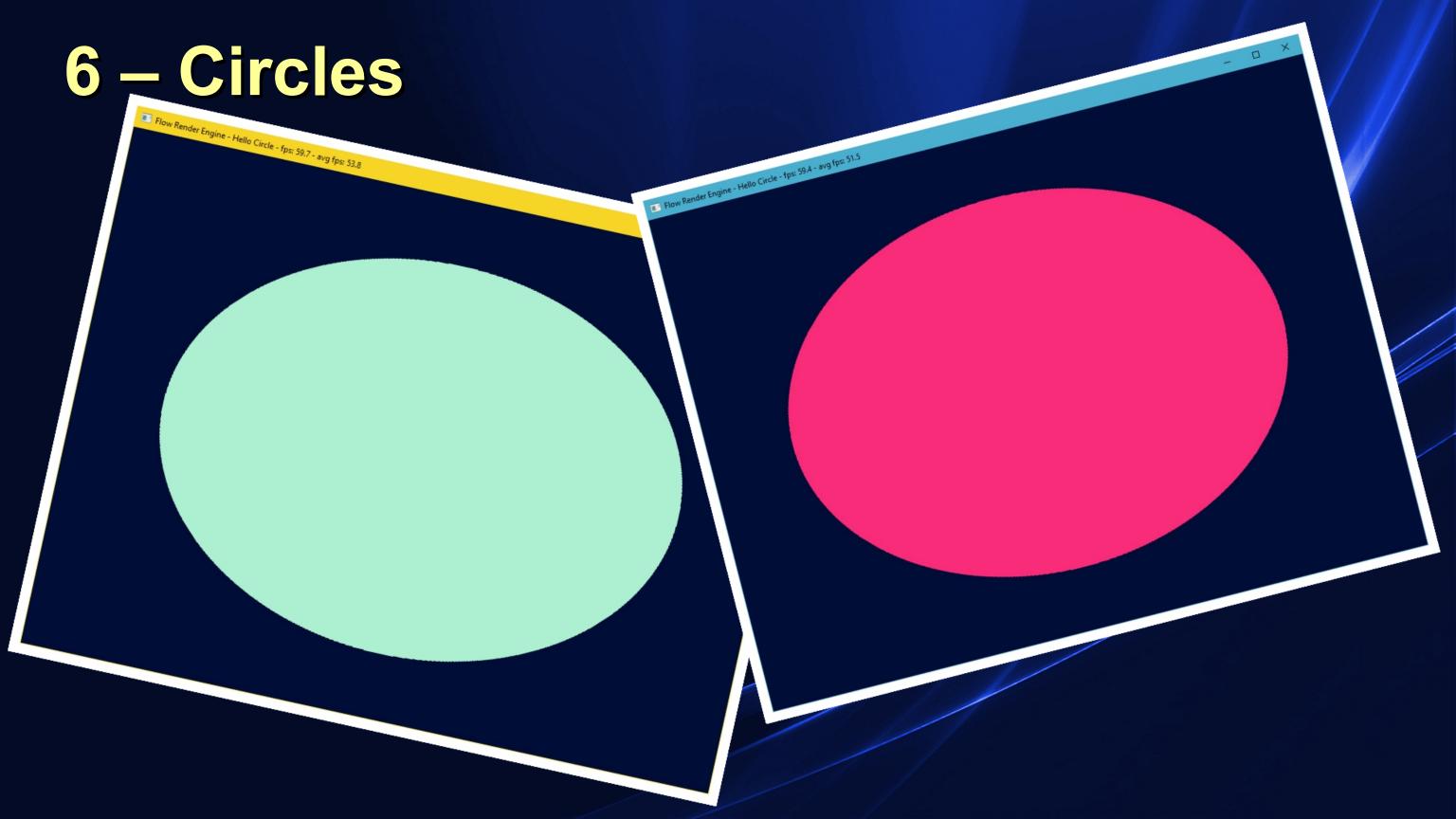


4 – Triangles, quads and rectangles

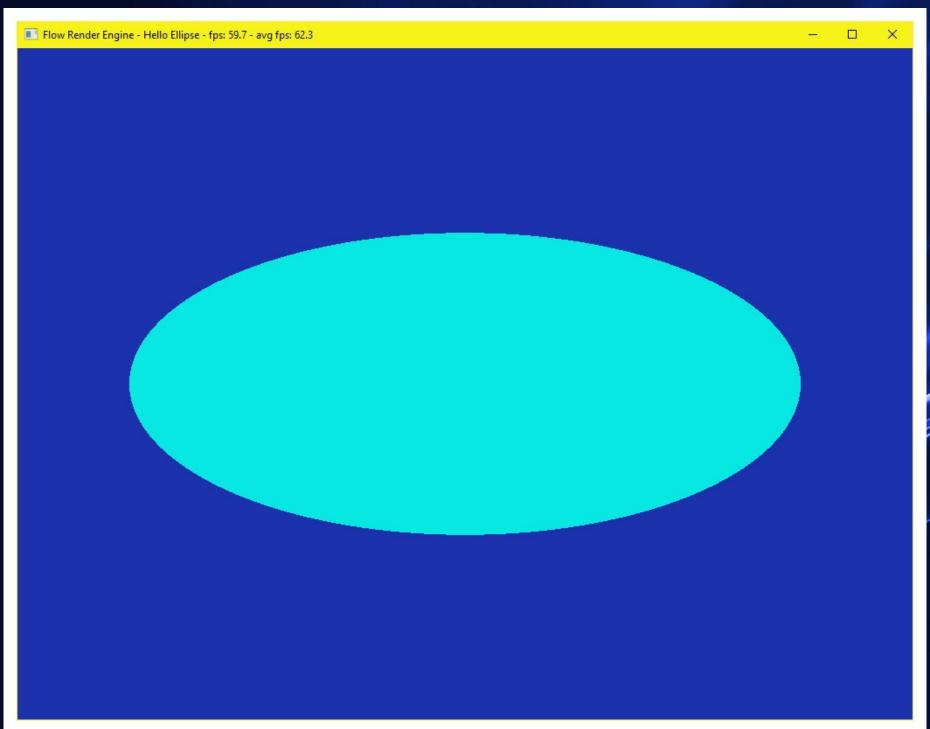


5 - Rhombus with two triangles



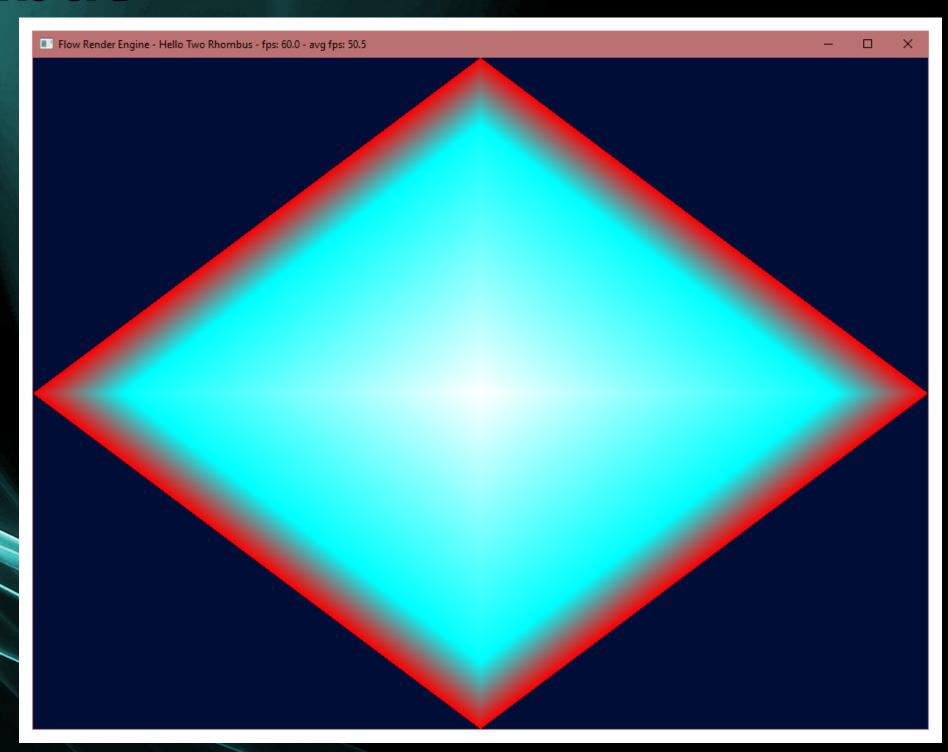


7 – Ellipse

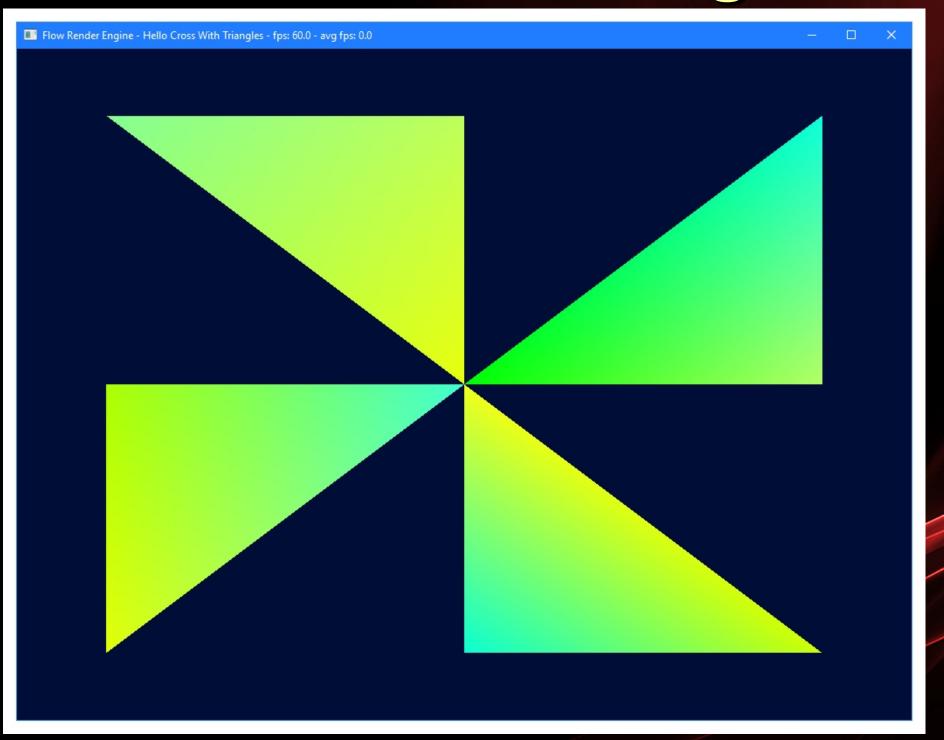




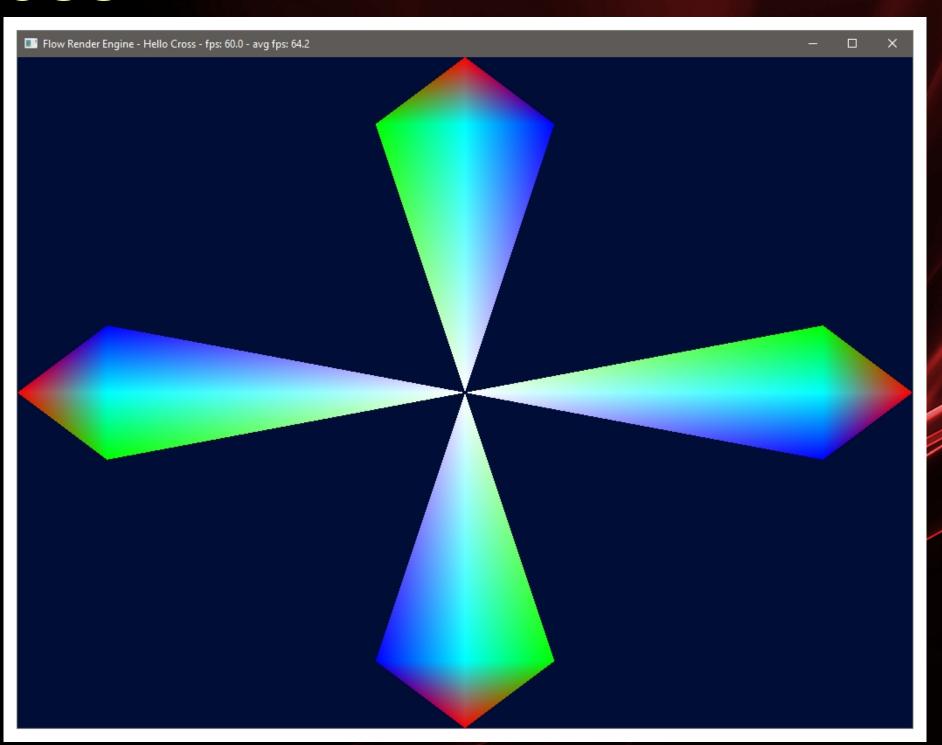
9 – Two Rhombus



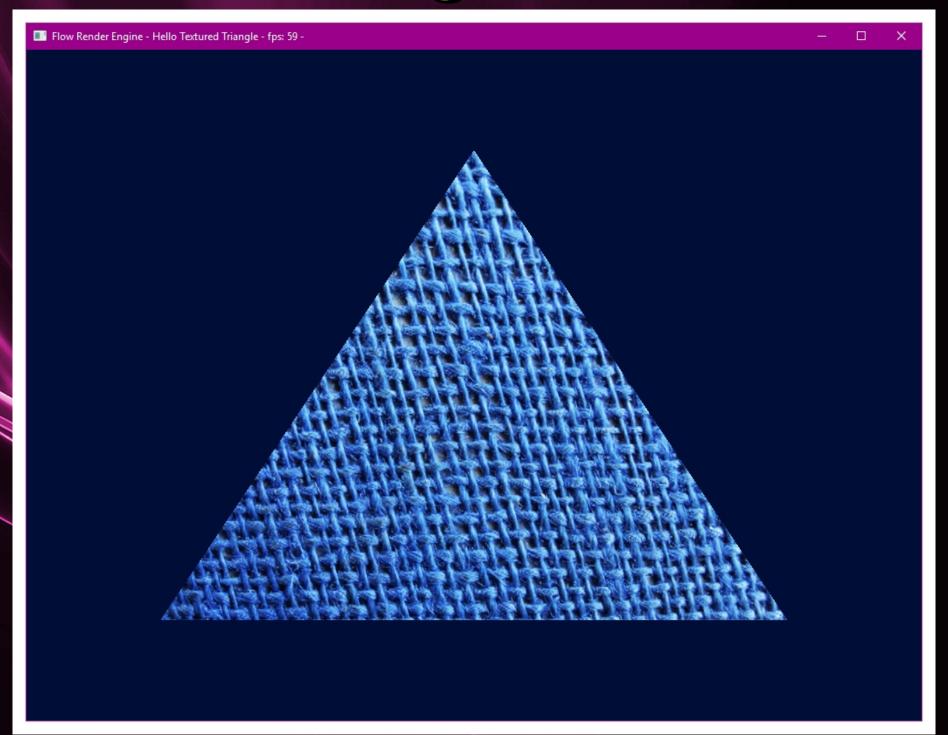
10 — Cross with triangles

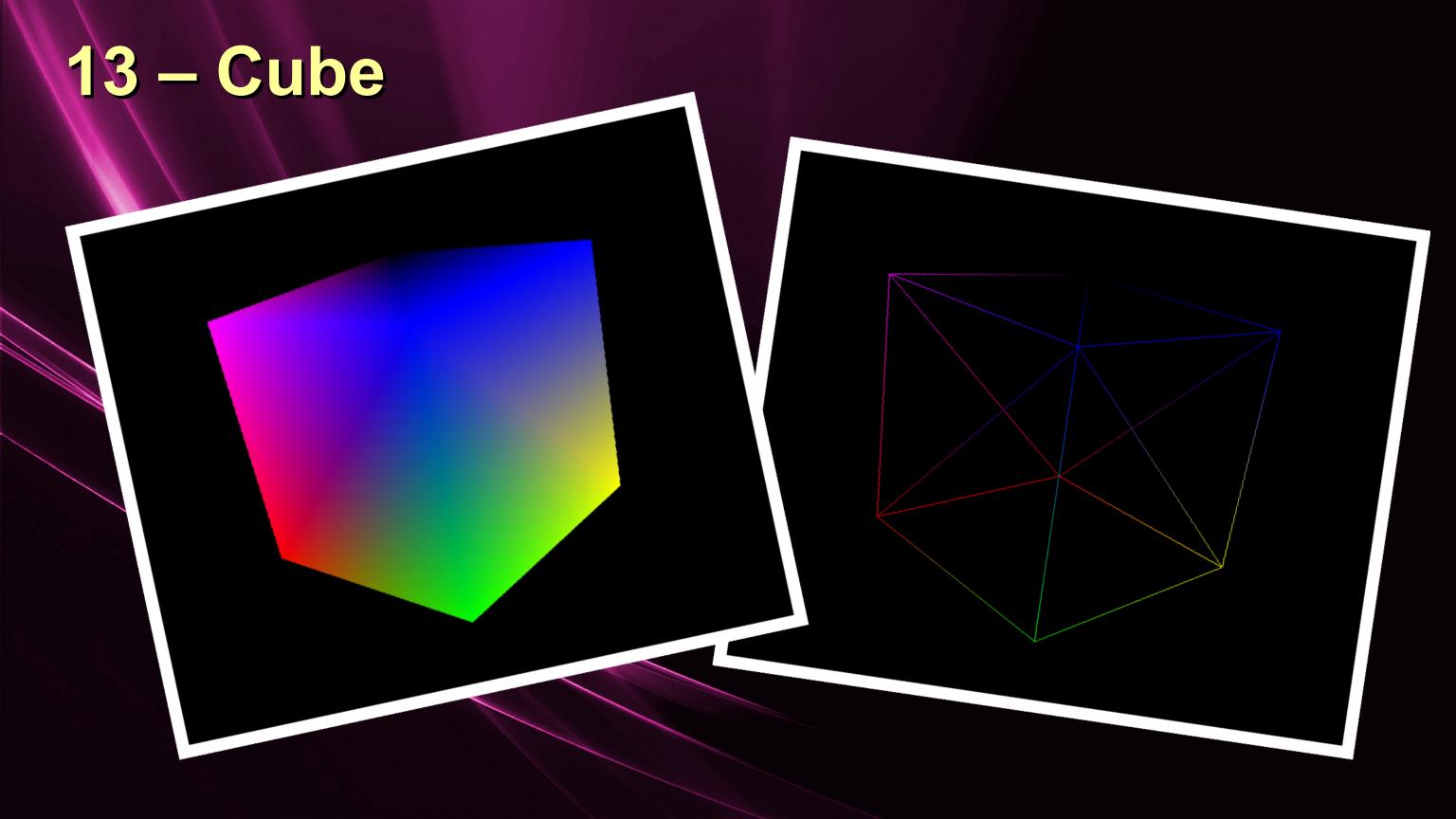


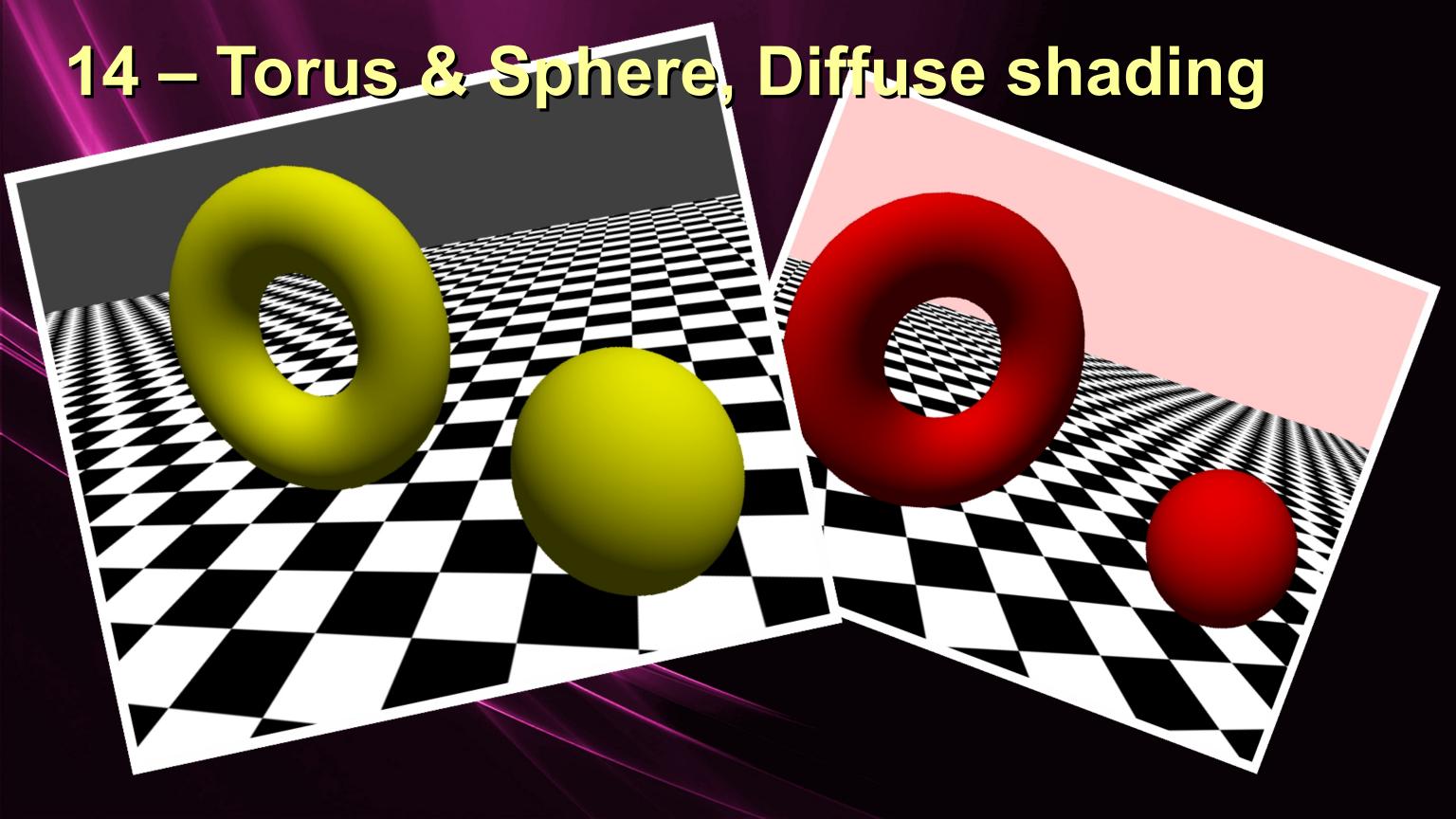
11 – Cross



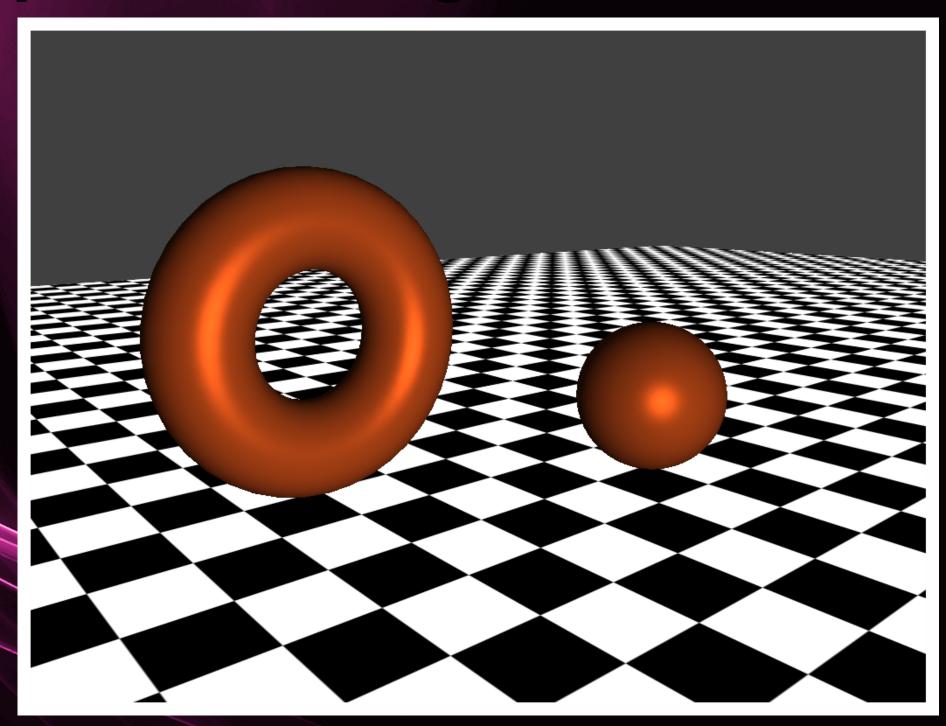
12 – Textured Triangle



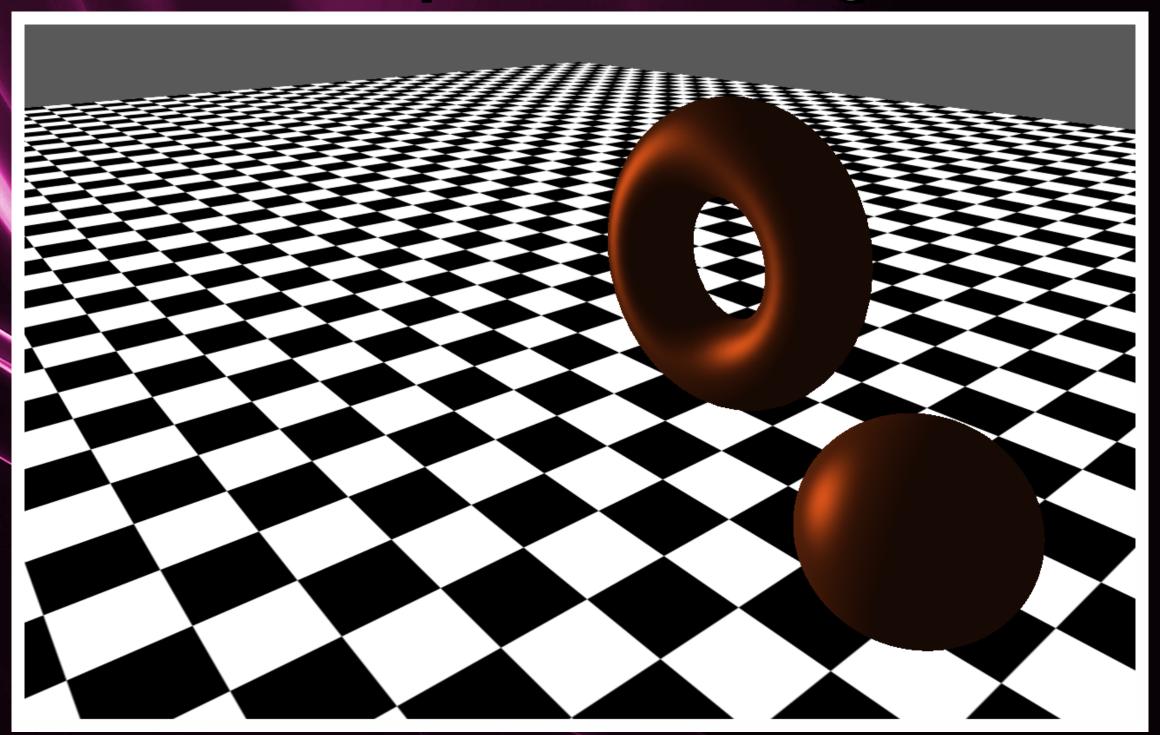


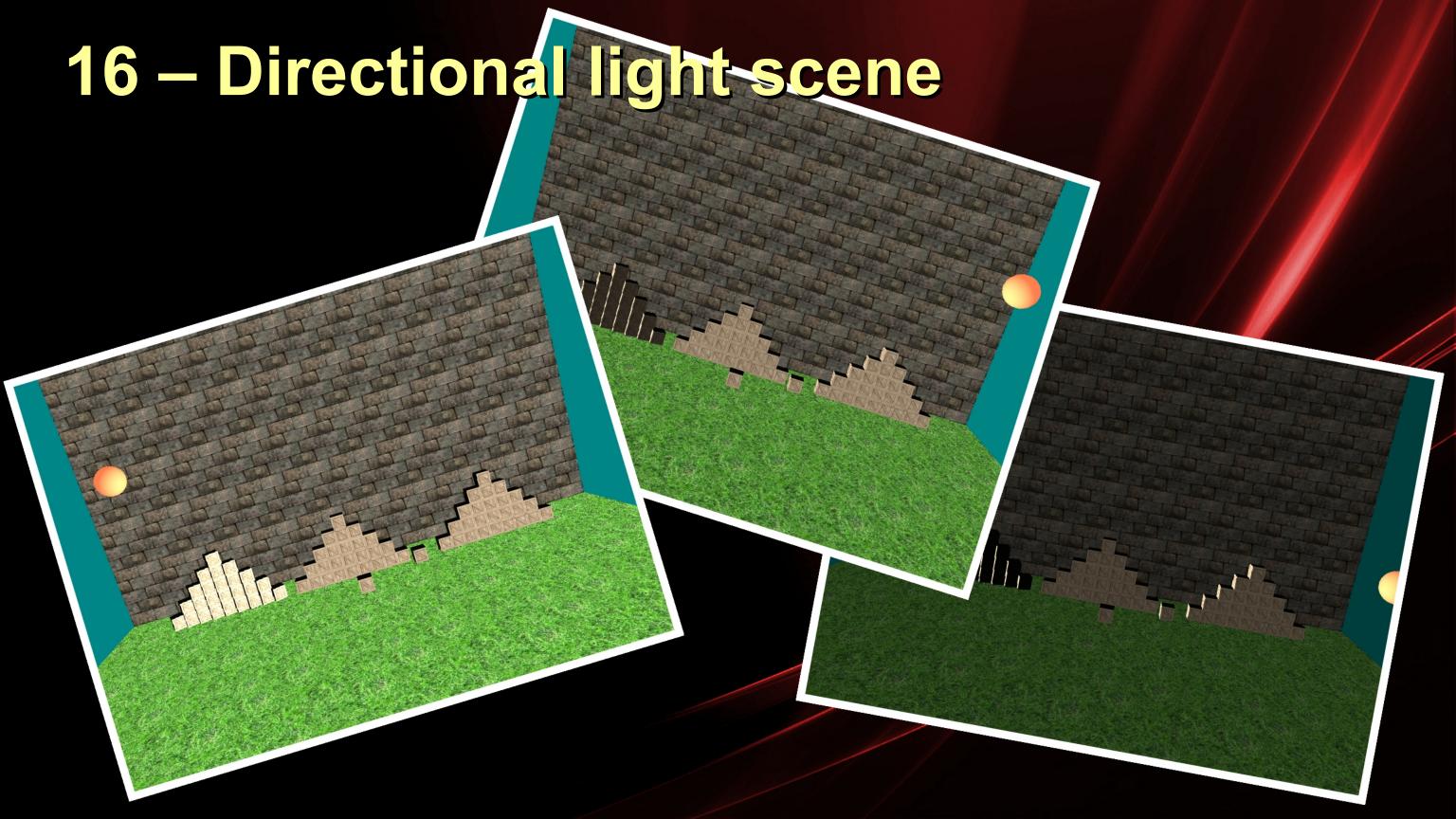


15 – Torus & Sphere, Phong reflection

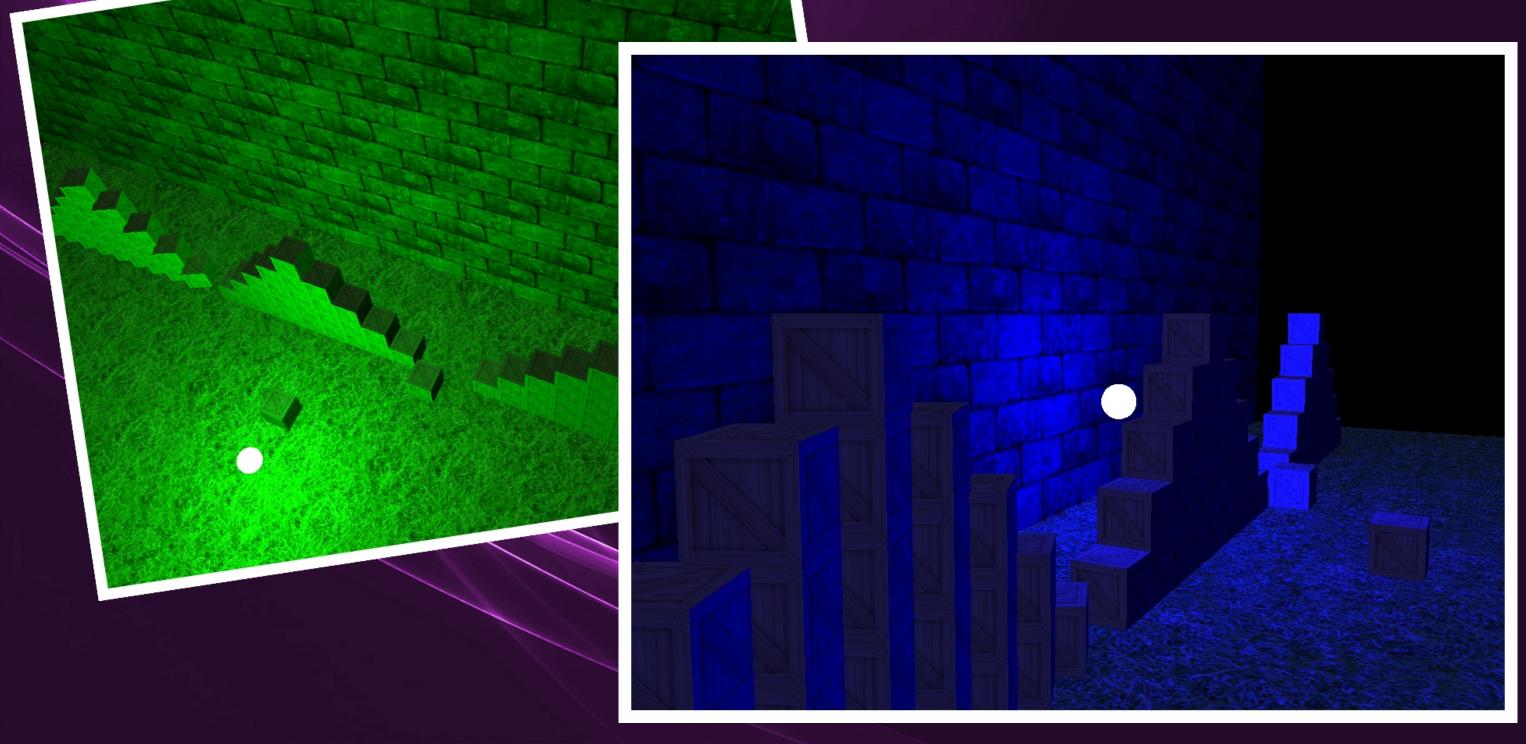


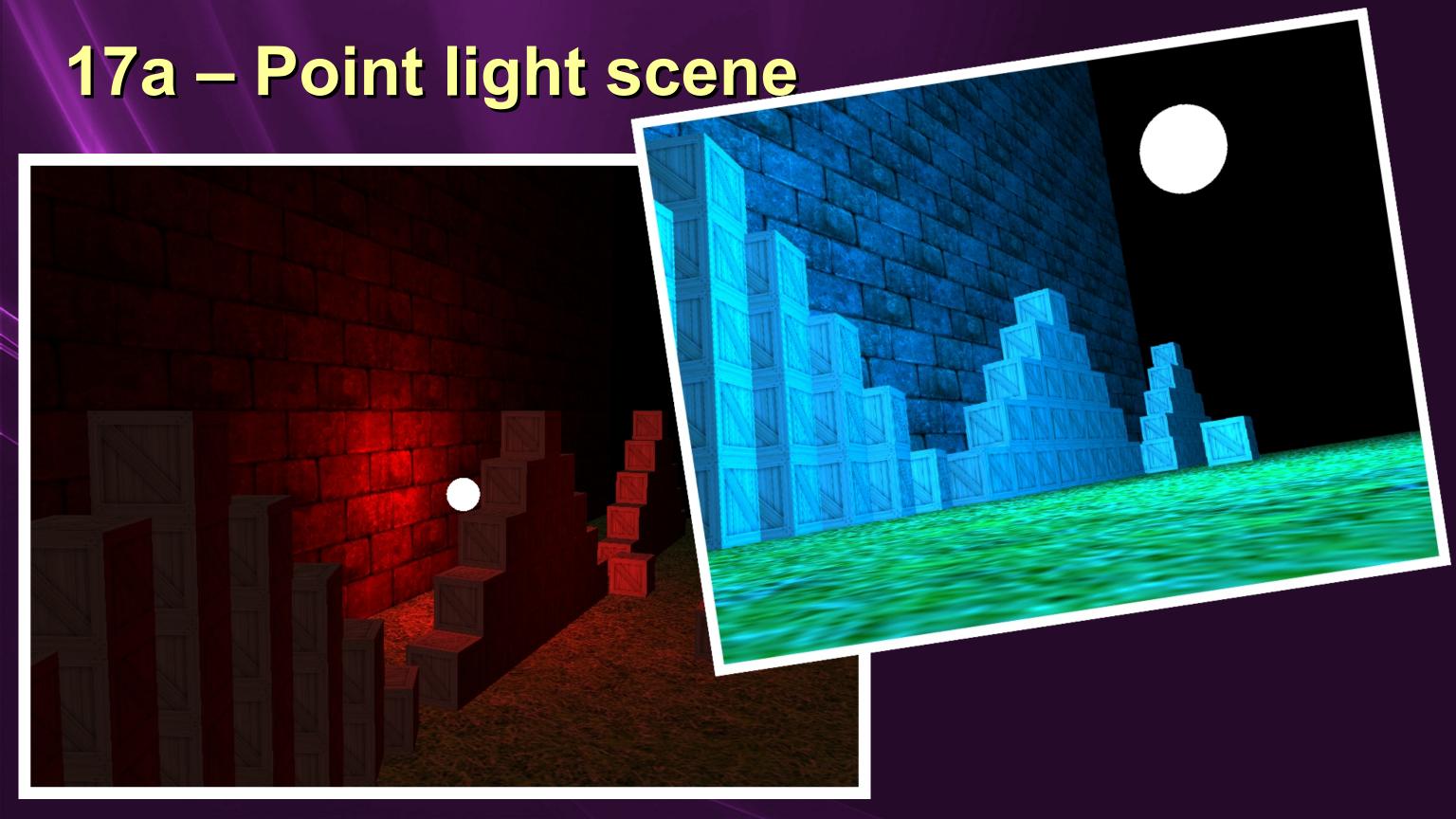
15a – Torus & Sphere, Phong reflection

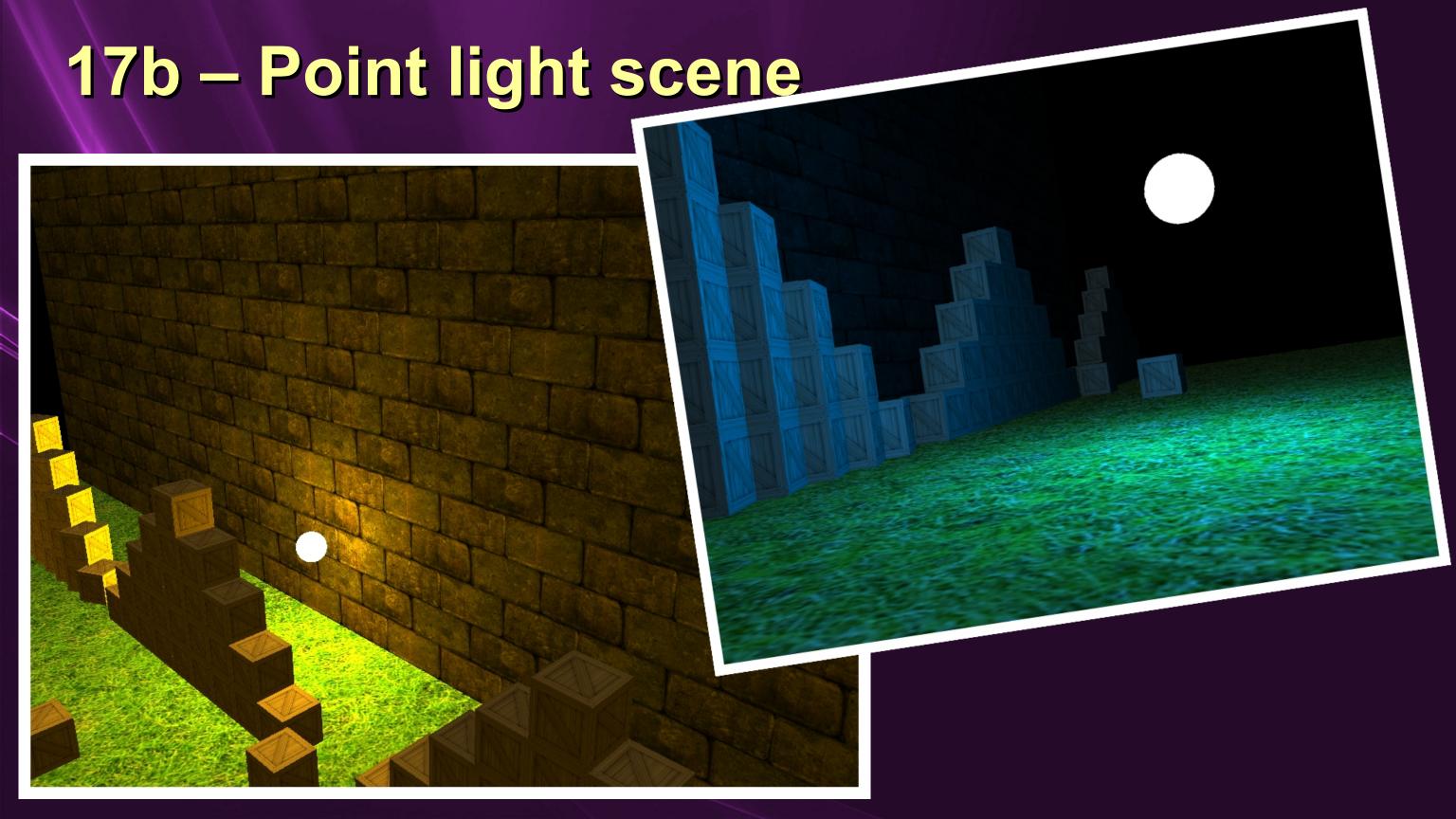


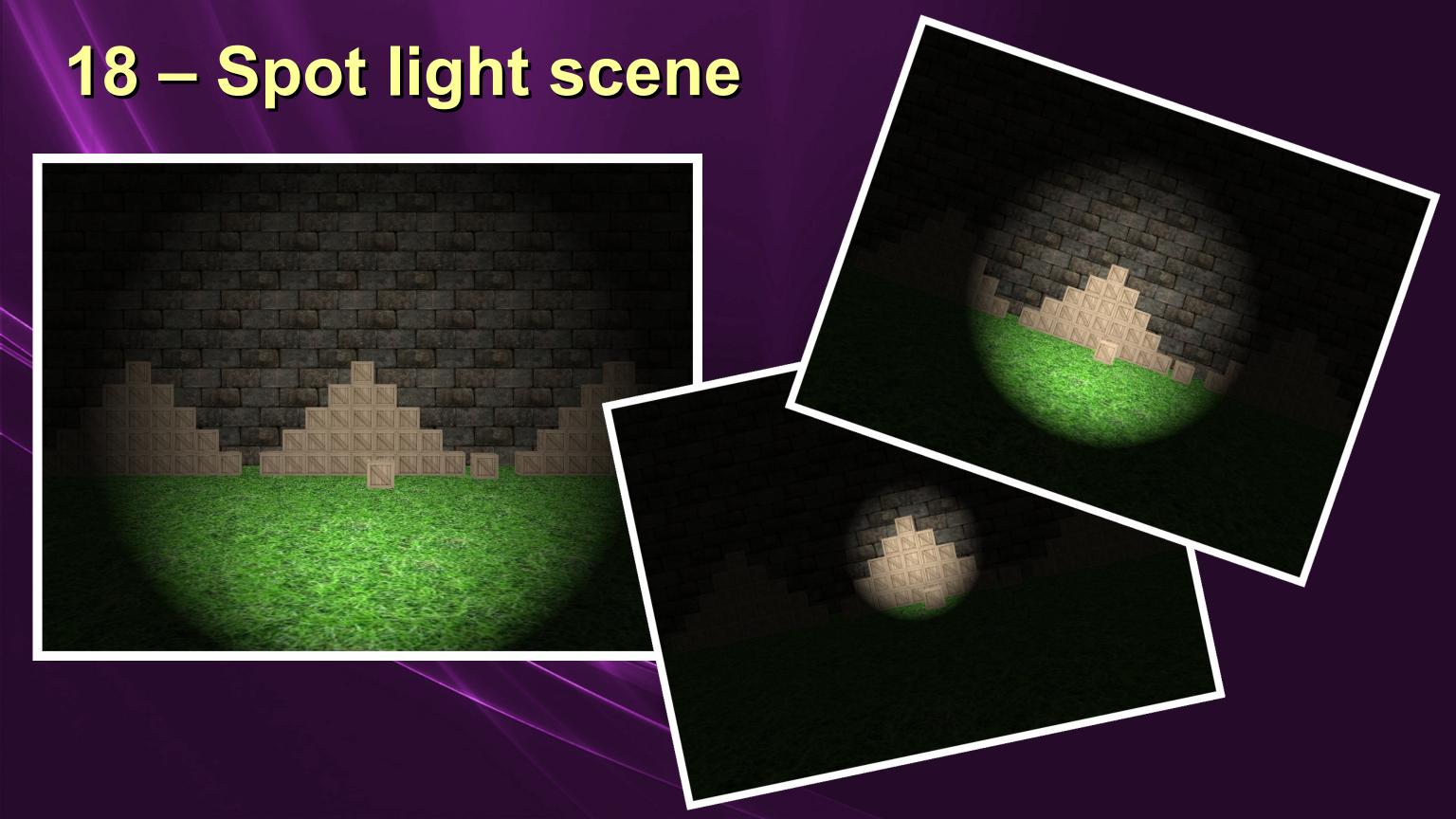


17 – Point-light scene

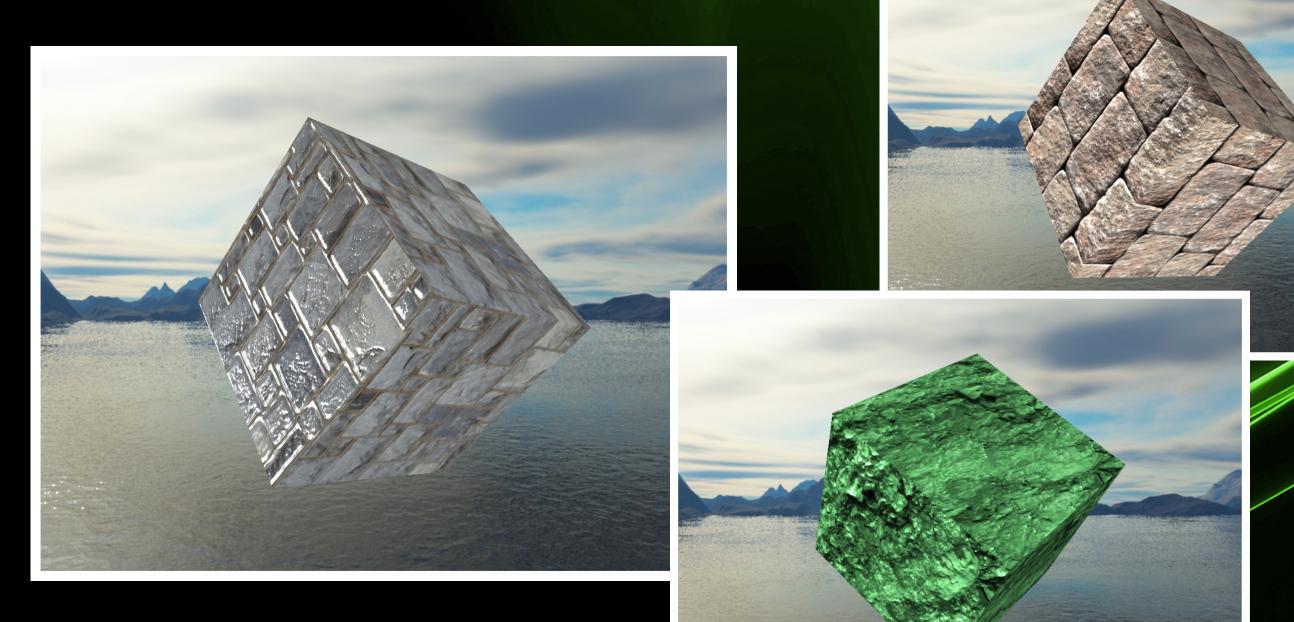






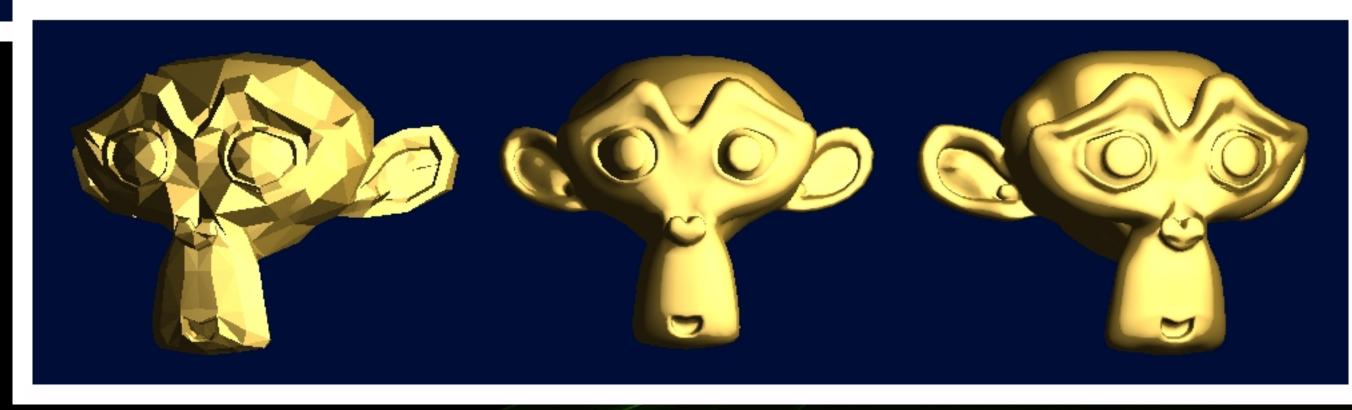


19 — Skybox and cube with normal map

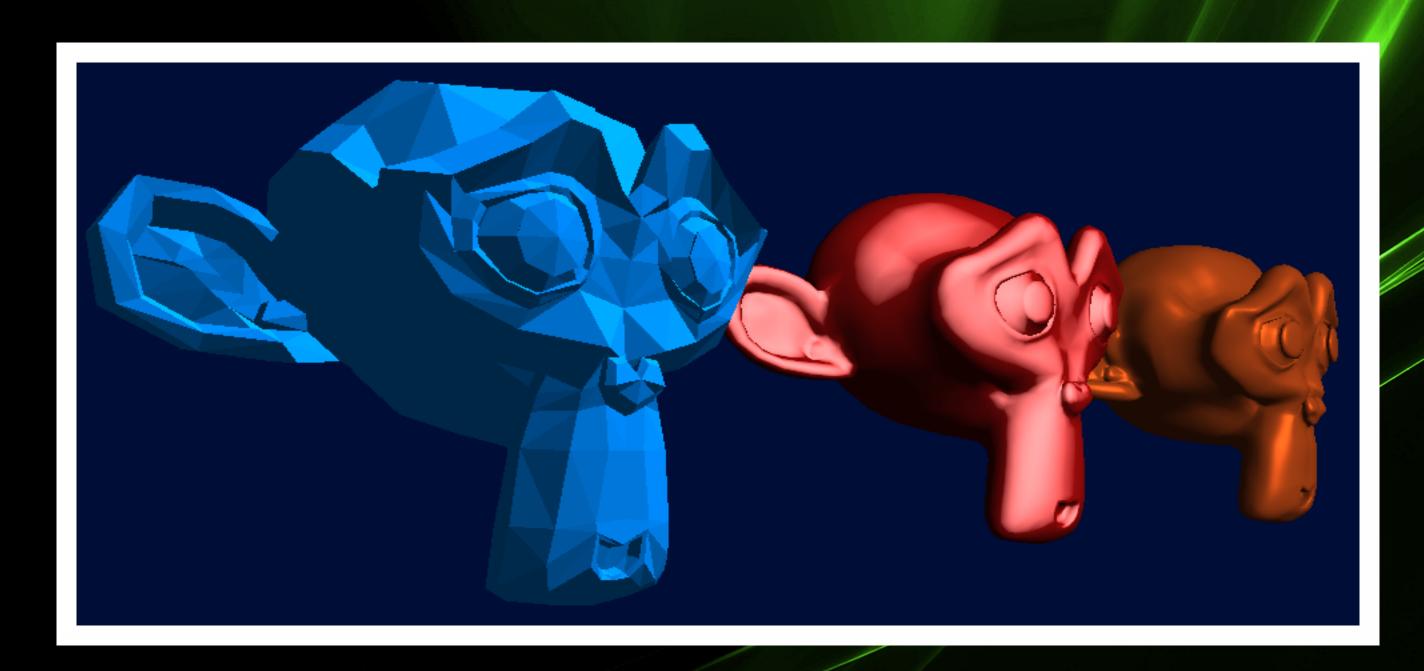


20—Suzanne-model-diffuse-shading-

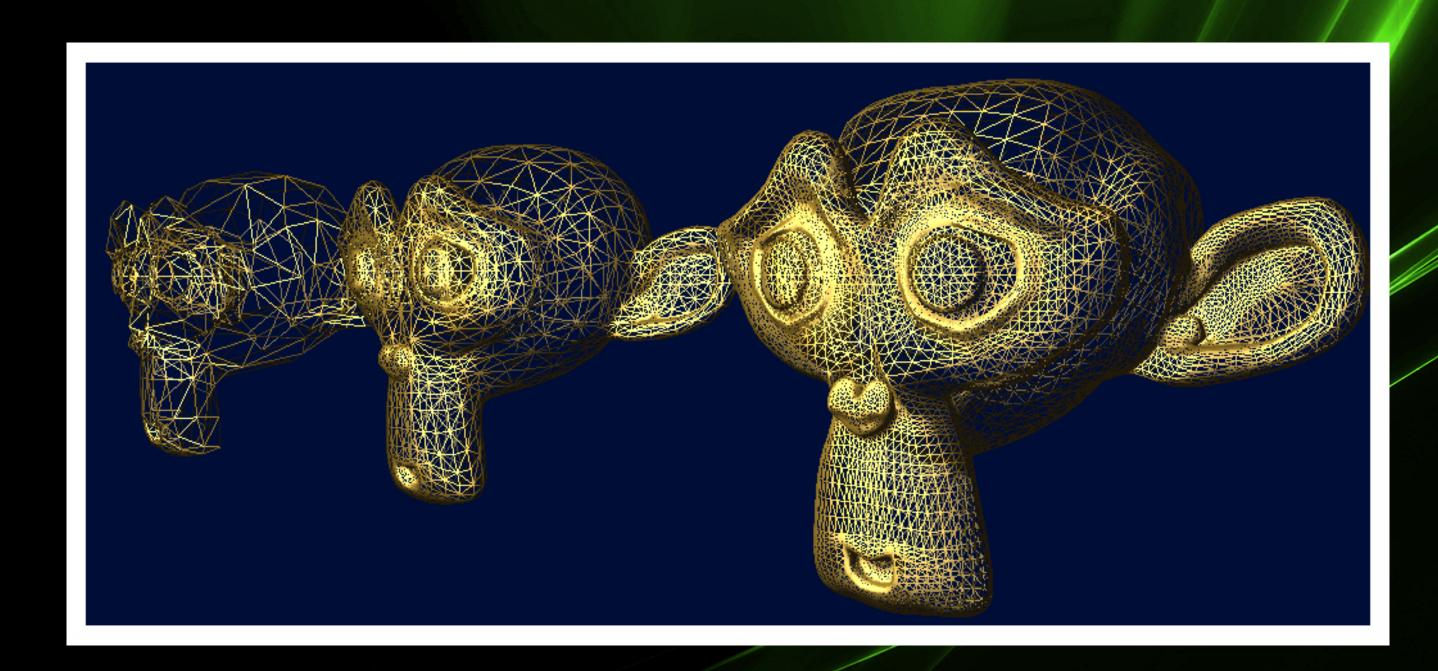




20a – Suzanne model diffuse shading

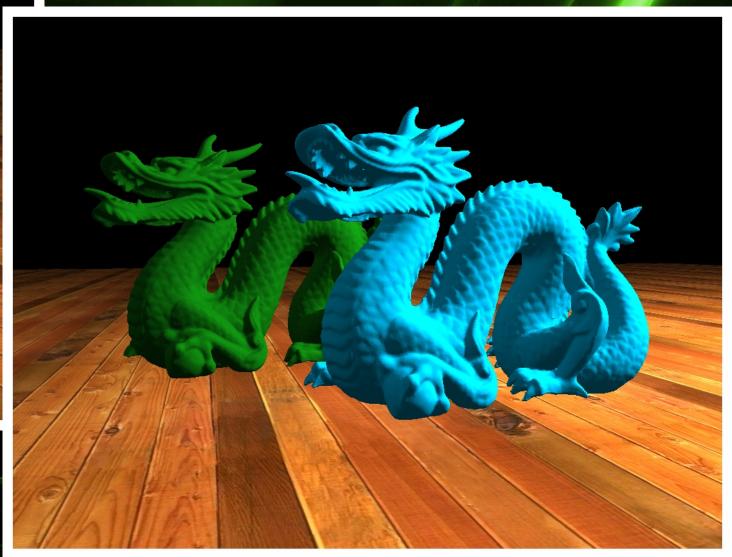


20b – Suzanne model wireframe

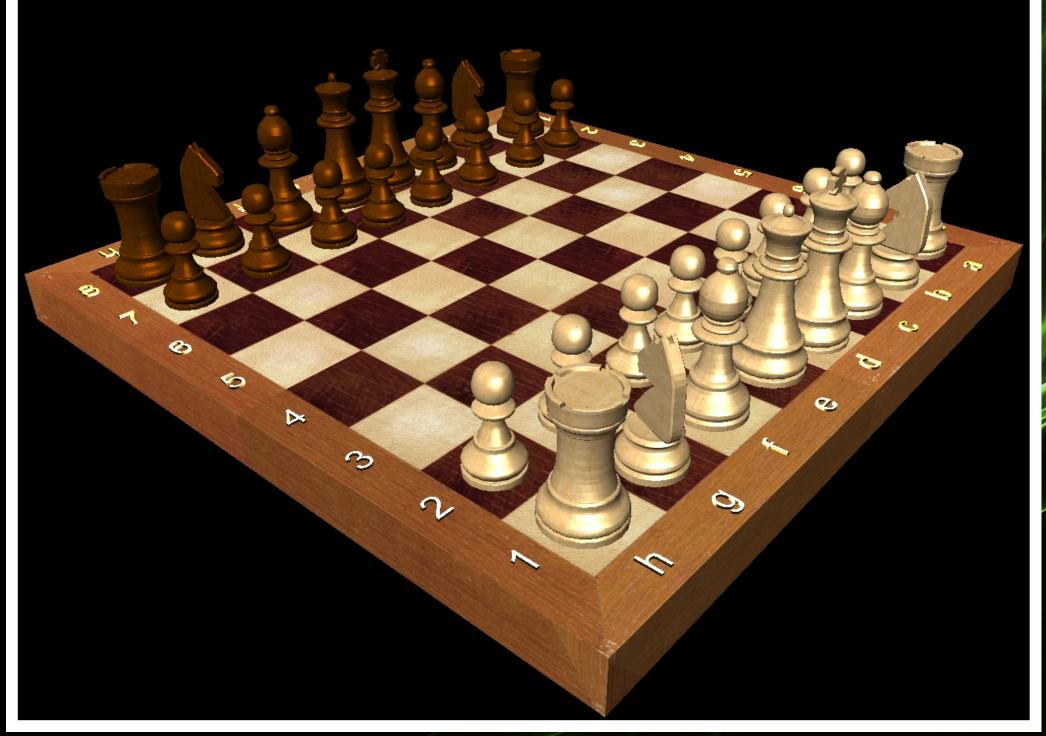


21 – Stanford dragon diffuse shading





22 – Chess Phong reflection



22a - Chess Phong reflection



22b - Chess Phong reflection

22c - Chess Phong reflection _

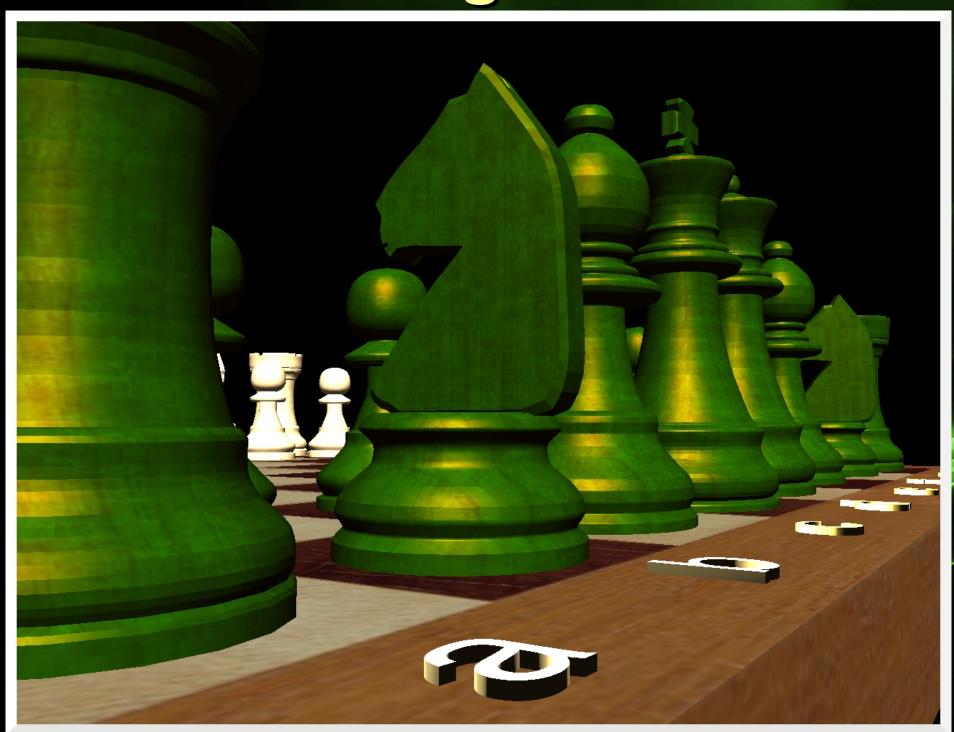
23 – Chess Phong reflection&Normal map



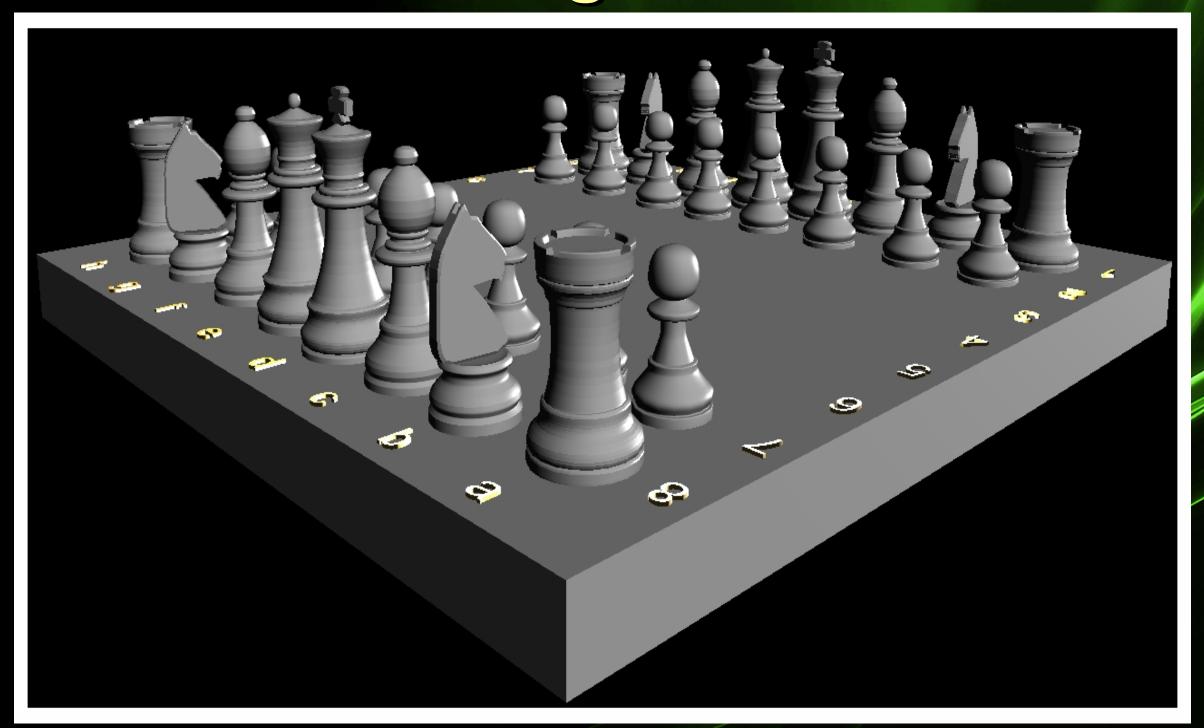
23a - Chess Phong reflection&Normal map



23a - Chess Phong reflection



24 – Chess Phong reflection&no textures



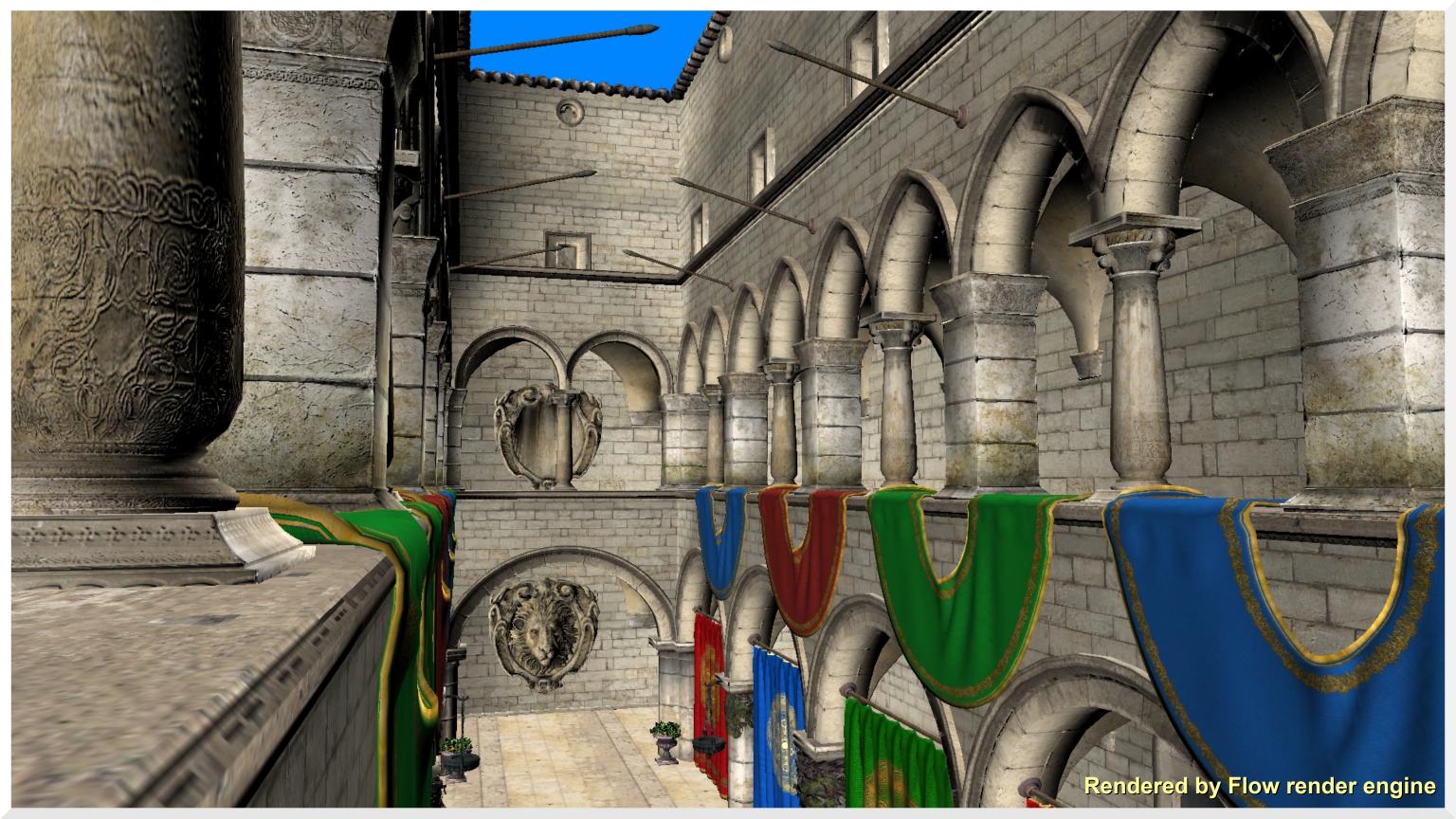










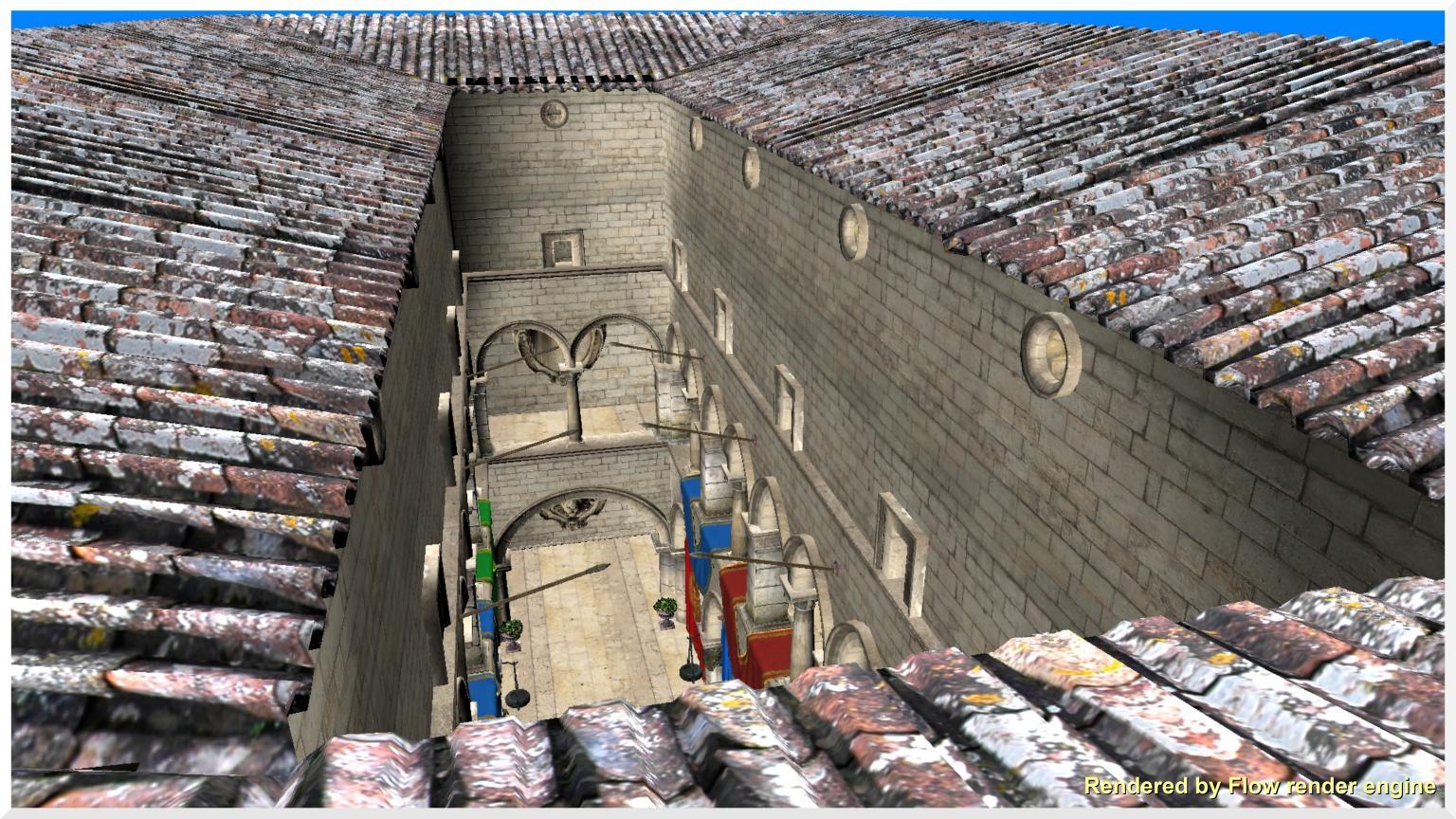












Flow Render Engine Real-Time Rendering Engine with a modern graphics approach

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