Project 4

WebGL 3D Project

Overview

In this project you will create a unique 3D animated scene composed of WebGL graphic components. The scene should include animation, lighting, textures, frame buffers and multiple objects.

Requirements:

- 1. Using WebGL create a unique 3D animated scene. The scene has the following specifications:
 - a. Size: minimum 640x480
 - b. Includes at least 10 different objects.
 - c. Uses multiple lighting effects on different materials
 - d. Uses multiple textures
 - e. Includes radio buttons, slider bars or other widgets to turn on or off certain components of the animation.
 - f. Uses frame buffers to organize the memory resources that are needed to render the scene.
- 2. Use WebGL
- All JavaScript source code should be written using Google JavaScript style guide.(http://google.github.io/styleguide/jsguide.html)
- 4. Prepare, conduct and document a test plan verifying your application is working as expected. This plan should include a test matrix listing each method you tested, how you tested it, and the results of testing

Deliverables:

- 1. All JavaScript source code used for this project. Code should adhere to the Google Javascript style guide.
- 2. Word or PDF file demonstrating with clearly labeled screen captures and associated well-written descriptions, the successful execution of your 3D WebGL animated scene. The document should be well-written, well-organized, include your test plan, include page numbers, captions for all screen captures, and a title page including your name, class, section number and date. References should be included for all sources used and formatted in APA style.