

SPG-Project

Based on my EZG-project.

Controls

W	Move forward
A	Move left
S	Move backward
D	Move right
Mouse X	Control camera yaw
Mouse Y	Control camera pitch
Q	Rotate camera roll anticlockwise
E	Rotate camera roll clockwise
F1	Reset camera roll
F2	Toggle wireframe
F4	Toggle free-cam/cinematic-mode
Comma	Reduce speed
Period	Enhance speed
Strg comma	Reduce sample count (antialiasing)
Strg period	Enhance sample count (antialiasing)
Alt comma	Steps- -
Alt period	Steps++
Alt strg comma	Finesteps- -
Alt strg period	Finesteps++
Esc	Quit game

Important program segments

almost everything of interest is found in the Chunk-class. additionally there are four shader files of interest:

generateChunk_CS.glsl : generating the density volume.

Chunk_VS.glsl

Chunk_GS.glsl : rendering pipeline, containing the marching cubes algorithm.

Chunk_FS.glsl

Chunk_FS.glsl : displacement mapping.