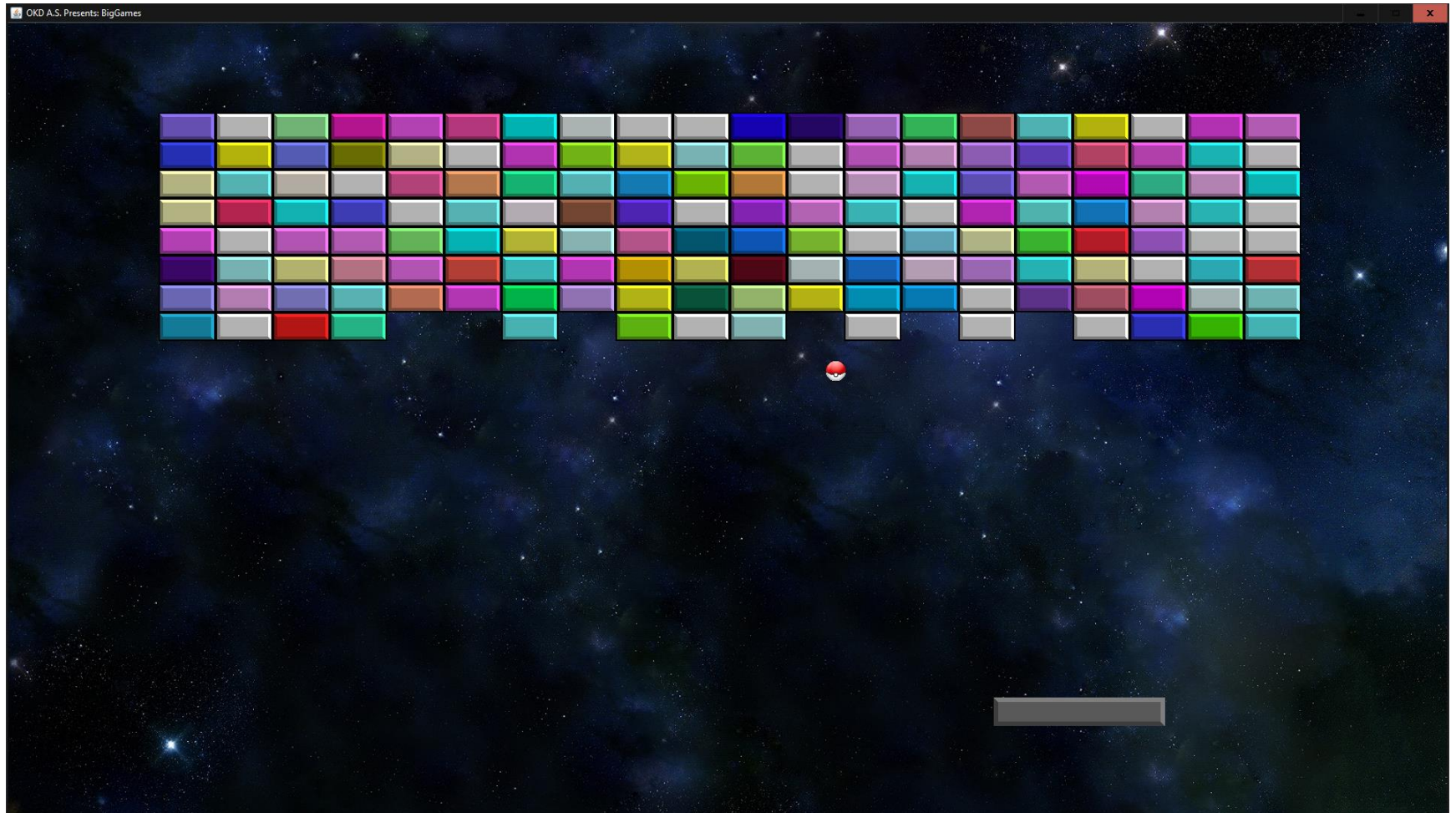


Osman Kaan Demiröz

Brick Breaker 3D

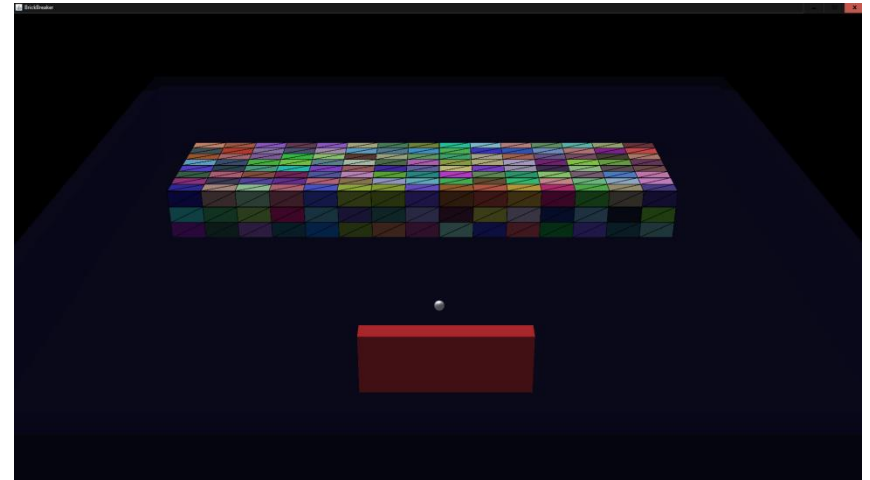
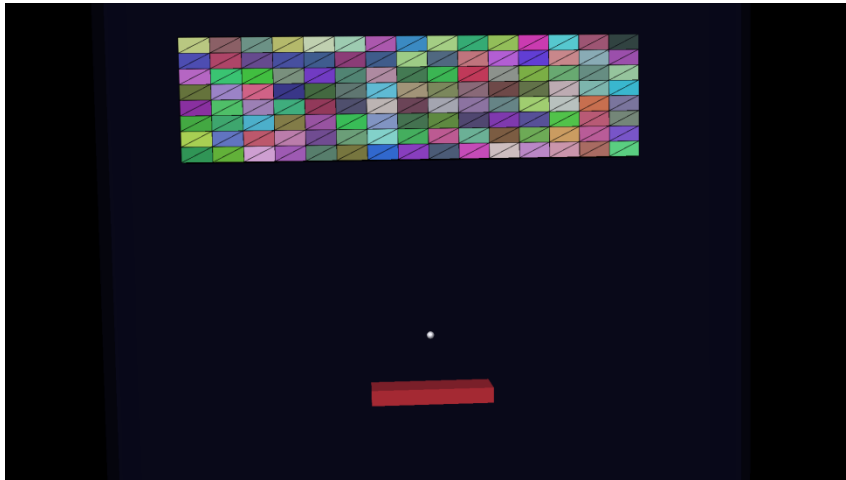
Brick Breaker



3D

- Implementation of the game in a 3D Scene
- Addition of the DEPTH element

Depth



JAVA₃D

- Object Oriented Design
 - Classes
 - Hierarchy
- Scene Graph Implementation
 - Branch Groups
 - Transform Groups
- Timer functions are used for animation

User Interaction

- Mouse Movement/Clicks
 - Mouse controls the bottom tray
 - Click begins the game
- Key presses control the flow
 - I / i for initializing rotation
 - P / p for pausing the game
 - Q / q for quitting the game

Appearance

- Lights are added as in OpenGL
 - Directional and Ambient (Point) lights
- “Appearance” classes are used for color
 - Material is also defined the same way
 - Ambient, Diffuse and Specular components

Collision Detection

- One of the main key points in the game
- Created a custom class and a custom interface to handle collisions
 - Ball changes direction according to the direction of the collision.
 - Blocks are destroyed on collision

Thank you for listening!
