CS 480 Computer Graphics

PA 10: Pinbabers:

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Overview

This a pinball game using Assimp for models & textures loading, lightings, Bullets implementation, and basic game logic.

Extra Credit:

1) Other: Beautiful theme with uniform textures.

User Manual

Compile Instruction:

- cd PA10
- mkdir build
- cmake ..
- make
- ./Pinball

Controls:

- 'z'----- Left Paddle
- '/' ----- Right Paddle
- 'space'----launch the ball (start the game)
- 'p'----- Change per Vertex between Per Fragment Lighting
- 't' ----- Side View
- 'y'----zoom out view
- 'r'----- default view
- 'a'----- decrement specular light
- 'd'----- increment specular light
- 'w'----- decrement ambient light
- 's' ----- increment ambient light



Fig 1: 'r' – button Default view and the initial startup of pinball game.

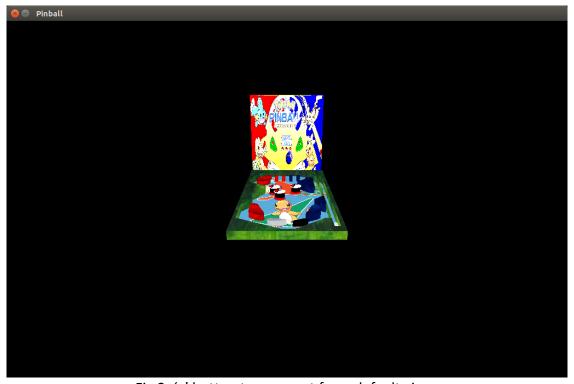


Fig 2: 'y' button to zoon out from default view.

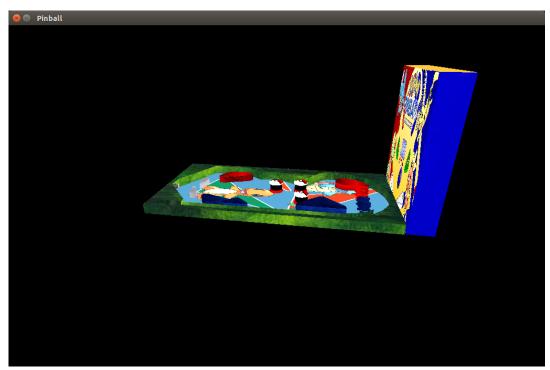


Fig 3:'t' button to change to side view.

Rules:

- Try to get the most scores
- Keep the ball inside the board
- 3 balls (3 tries)
- After 3 balls then game (program exit code 1)
- Scoring system based on the amount of time that player keep the ball alive.

Tech Manual

Issues

- 1) Spotlight doesn't work.
- 2) Multiple lights.

Things to do differently in the future

- 1) Better understand of light calculations
- 2) Create the lighting code to work with multiple lighting.

Changes (modified)

- 1) Added more bumpers.
- 2) Added blackboard.
- 3) Added more textures to pinball game.
- 4) Modified pinball game logic.
- 5) Added lightings