



Due Mar 10 11:59 PM

Team Assignment 1

Last updated: Feb 22, 2016 7:00 AM 20 Points Late due dates as described in syllabus

Write a 3D game in Unity 5 that combines features from a couple of popular carnival games. Handout 06 has been updated to include the name of your Blender artist; your team should contact this person as soon as possible and engage them in the project.

- 1. Create a 3D Unity project.
- 2. Your game will be a combination and adaptation of two carnival games: the milk bottle game (https://www.youtube.com/watch?v=0eN1rZpL3Qc) and the duck shooting game (https://www.youtube.com/watch?v=hLIAGlu9cB4).
 - o In your game, you will have pyramids of three objects, but the pyramids will move past the player in a manner similar to the duck movement.
 - o There must be pyramids of at least 5 different types of 3D objects (only one type of object in a given pyramid). The different types of objects should be of similar size.
 - Your team will work with a student from the *Blender* course, who will design the pyramid objects for you.
 - o Each pyramid sits on a circular platform, and all objects from the pyramid must be knocked off of the platform to score a point.
 - o The player shoots balls out of an air cannon at the front of the arcade booth. The air cannon pivots left-to-right and up-and-down on some point along the barrel. The air cannon and balls will be designed by the *Blender* course student.
 - o The player uses the mouse to pivot the cannon and uses the left mouse button to shoot.
 - The main camera of the game is approximately 45° to the right of the line between cannon and the center of the pyramid area, and approximately 45° up from horizontal. (Similar to a 2.5D RTS game.)
 - The main UI consists of a score and a countdown timer (60 seconds).
 - The game is over when the timer reaches zero.
 - When the game begins, an overlay UI menu should display a "Start" button.

- When the game ends, an overlay UI menu should display the current score and the highest score since play began; if the current score is the high score, display a message to that effect.
- o The game end UI also displays "Play Again?", along with "Yes" and "No" buttons. If the player presses "Yes", reload the scene; if the player presses "No", exit the game.
- The game should have sound effects for shooting the air cannon and for knocking down object pyramids.
- Stereotypical carnival music should play in the background (softly) at all times.

Submission

 After closing the Unity editor, Copy your project folder to one that is named according to the following format:

Team01_TeamColor

where *TeamColor* is *Red*, *Green*, *Blue*, *Silver*, *Orange* or *Black*, corresponding to your team.

- In this project folder, remove everything except the *Assets* and *ProjectSettings* subfolders.
- Zip the remaining contents of this project folder.
- Submit the zip file to the appropriately-named D2L Dropbox folder.