This is optionally a group assignment – it can be completed by a team of 1, 2, or 3 members. Each submission will be expected to complete the tutorial and implement the items below, so more team members equals less total work per person. Also, we’ll be working on a team project (team size 3) for the remainder of the term, so I highly encourage you all to use this as an opportunity to begin forming teams!

Please find a team by posting on Piazza or otherwise connecting with your classmates. Also please email me before end of day on Monday, April 6th if you’d like help finding a team – I will randomly group people together upon request.

1. [60] Do all of this:

https://learn.unity.com/project/john-lemon-s-haunted-jaunt-3d-beginner

One suggestion for splitting this up between 3 team members:

Build the basic project and environment together (Setting up 3D Beginner, The Environment). Then split up the remaining tasks – something like:

- The Player Character Parts 1 and 2
- The Camera, Ending the Game, Audio
- Enemies Parts 1 and 2

These tasks will require coordination; we’ll be using Kanban boards later in the term, so you might try using Trello to manage your milestones and dependencies for the project – available here:


2. [10] Add at least one gameplay element that uses a dot product in some way (e.g., calculate length, distance, angle, facing direction).

3. [10] Add at least one gameplay element that uses linear interpolation in some way (e.g., calculate intermediate position, orientation, color).

4. [10] Add at least one particle effect.

5. [10] Create a repository (github, bitbucket, etc) for your project. In the repo readme, describe the use of the dot product, linear interpolation, and particle effect and how to triggered these in game. Also include the names of your team members and the contributions from each team member.
Feel free to customize the look and feel of your project by adjusting colors, lighting, assets, etc. Be creative!

Ensure that your game plays as intended both in the Unity player and when built for the WebGL player!

Submit a link to your repo for Assignment 2 on Canvas. Please ensure that eric@cs.uoregon.edu, bergsttr@cs.uoregon.edu, and mylife1@cs.uoregon.edu all have access to the repo!