TITLE PAGE

Class Structure

I chose to use the singleton design pattern for various parts of the game. This allows me the ability to…

WHAT ABOUT ABC FOR SINGLETON? Find out more and see what I should do. Probably unnecessarily complex.

InputController

Allows debounce by trapping the state of the player’s fire key every frame, to ensure that they aren’t able to fire repeatedly by holding down the button.

IRenderable

An interface designed to make rendering simpler, IRenderable is derived for all objects in the game which are drawn.

Player

Contains the information that pertains specifically to the player object i.e. health.

Debug

This class was created in order to more easily facilitate the drawing of debug information to the screen. As I understand it, text is drawn with IDiceInvaders::drawText , and when another string is drawn over the top of this, the original will be culled. I don’t directly have the ability to remove text from the screen, but I will need to update strings in position in the array. As such an STL map seemed to be the best option for storage of these strings. This allows me to very simply push a new string to the debug renderer, and also to access specific members of the map by index.

**Issues so far**

Memory leaking from Player destructor.

Leak possible within ProjectileManager.

Leaks: 172, 156, 136