

The background image shows a wide-angle landscape at dusk or dawn. In the foreground, dark silhouettes of several people are visible against a bright, glowing horizon. The sky is filled with horizontal layers of clouds, ranging from deep orange and yellow near the sun to darker blues and purples further back. The sun itself is a large, bright white orb on the left side of the frame.

# Don't be Dinner

Ting-Hao (Howard) Chen + Samuel (Sam) Dyment +  
Michael (Mike) Lin + Ching-Heng (Richard) Lu +  
Yi-Tsen (Amy) Pan + Gaurav (Gary) Verma + Jackie Yang



# Demo - Single Player



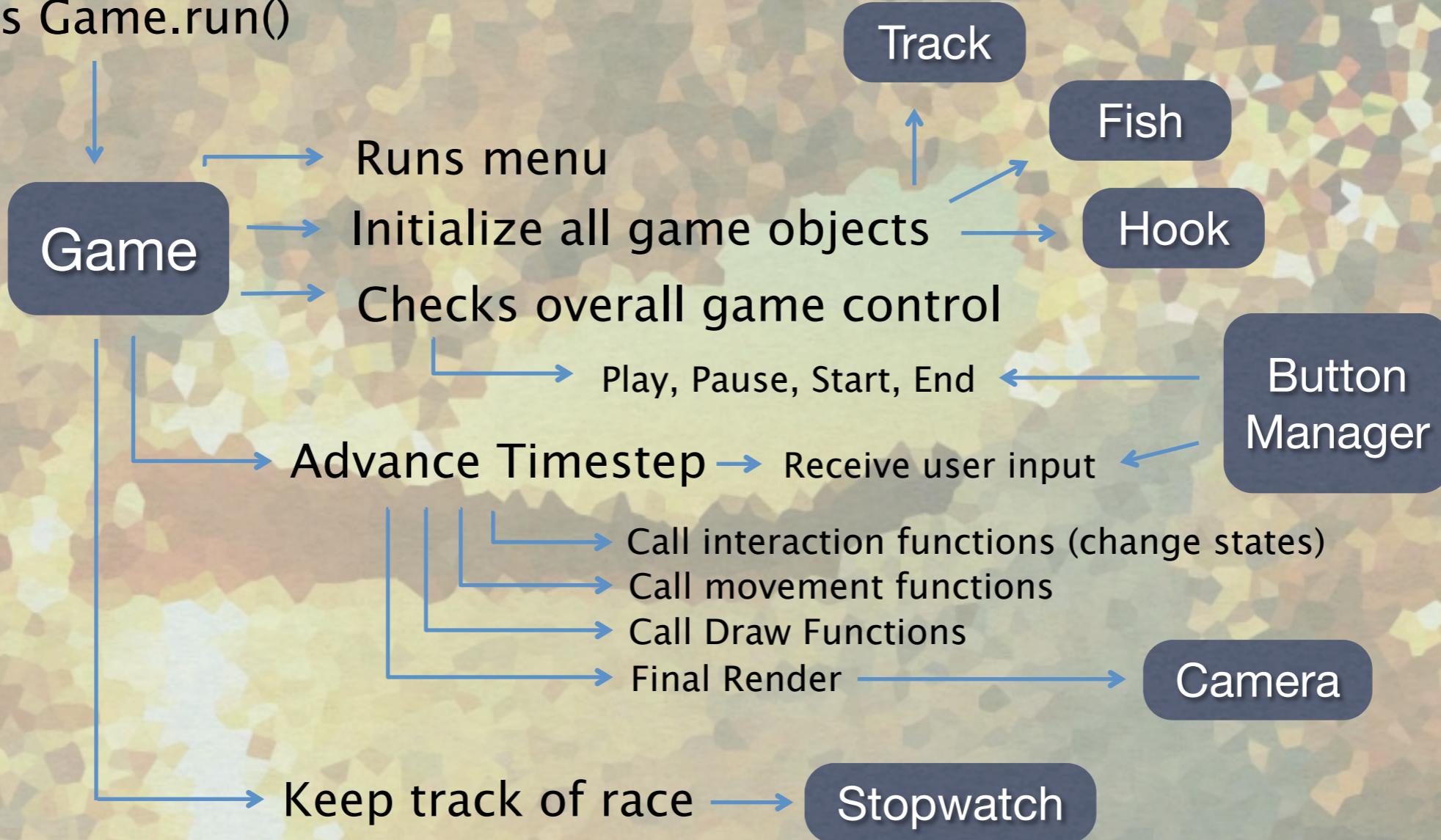
# Introduction

Gary

- ✳ Play off original fishing game with roles reversed
- ✳ Exciting racing game where you race through a course as fast as possible (multiplayer or single player)
- ✳ Avoid hooks and other swarms of fish as you explore an exciting world
- ✳ Rush to the finish line so you “Don’t be Dinner”

# Game Management

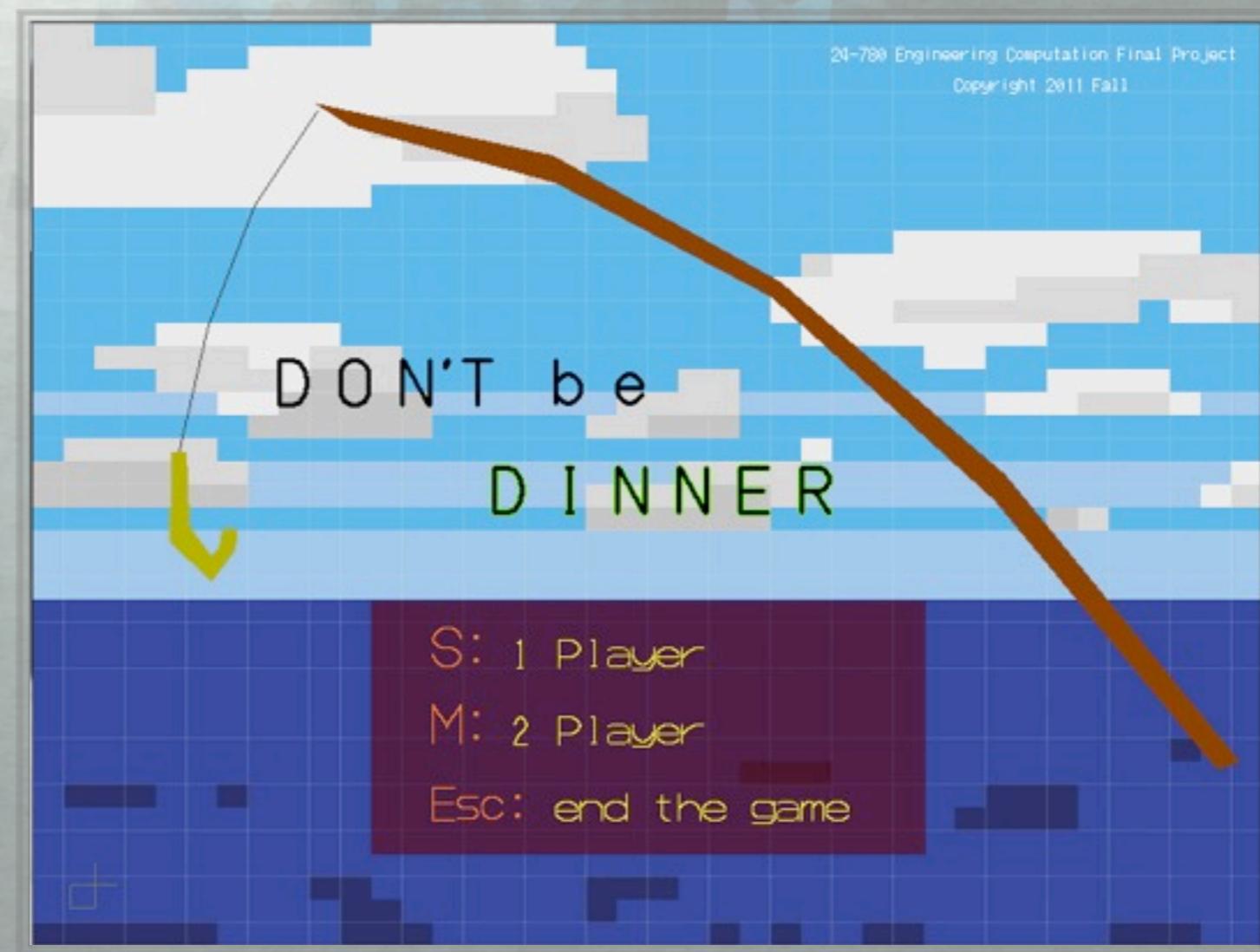
Main: Creates Game object,  
calls Game.run()



# Menu

Howard

- \* Template from shooting game
- \* Multi-modes
- \* Design



# Buttons

- \* Getting Started
- \* controls
- \* remapping
- \* Features
- \* pause
- \* restart



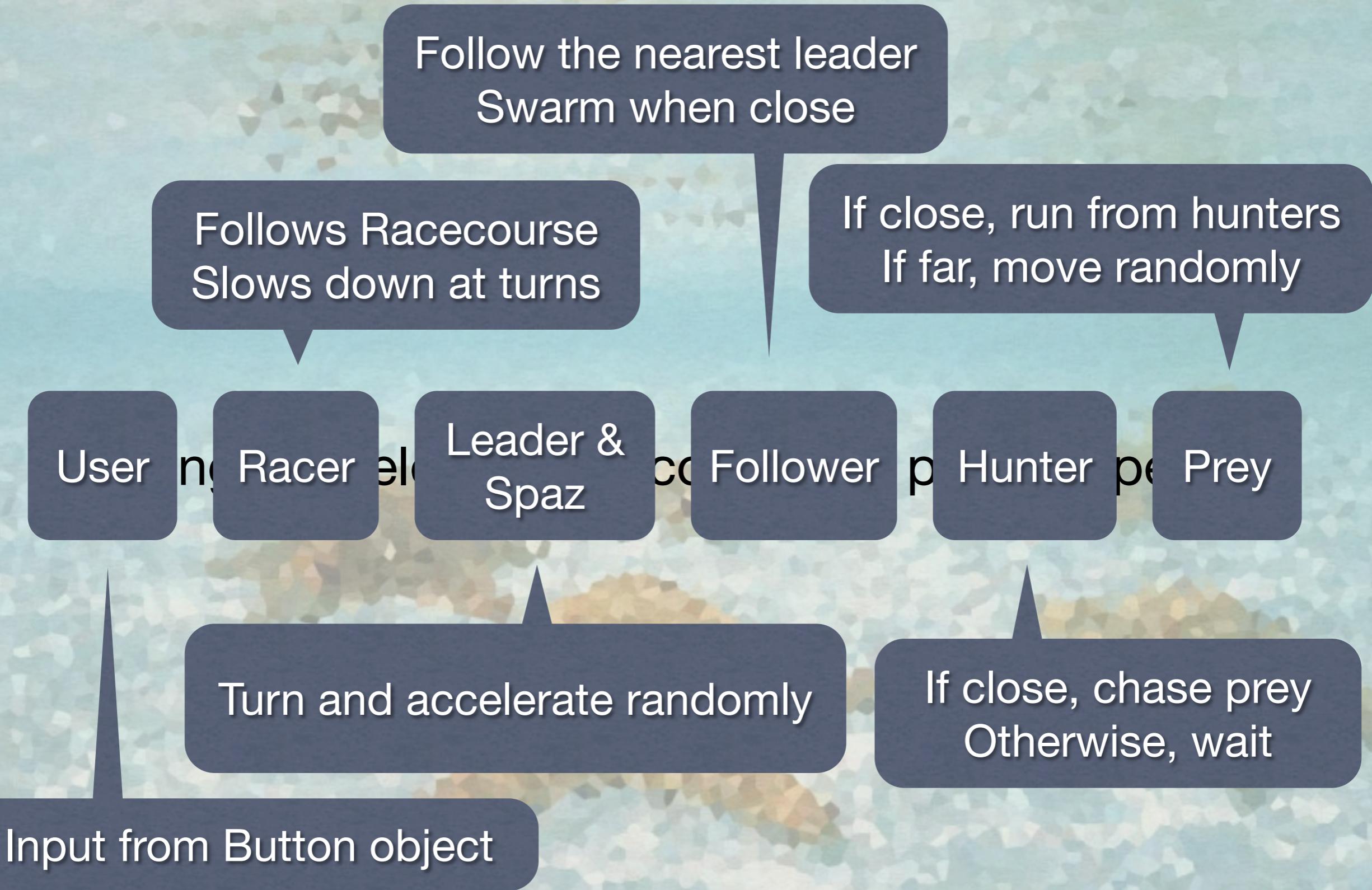
# Game Mechanics

Sam

- \* Players handle interactions between all game objects (Hooks, Cameras, Boundaries, other players)
- \* Different behaviors for different player types
- \* Go Function



# Player - Input / AI



# Player – Collisions, Movement, and Check

Boundary  
Collisions

Bounce/Reflect off of  
boundaries

Player-Player  
Collisions

Players/Racers bounce  
off of each other

Players/Racers slow down when  
they run into leaders or followers

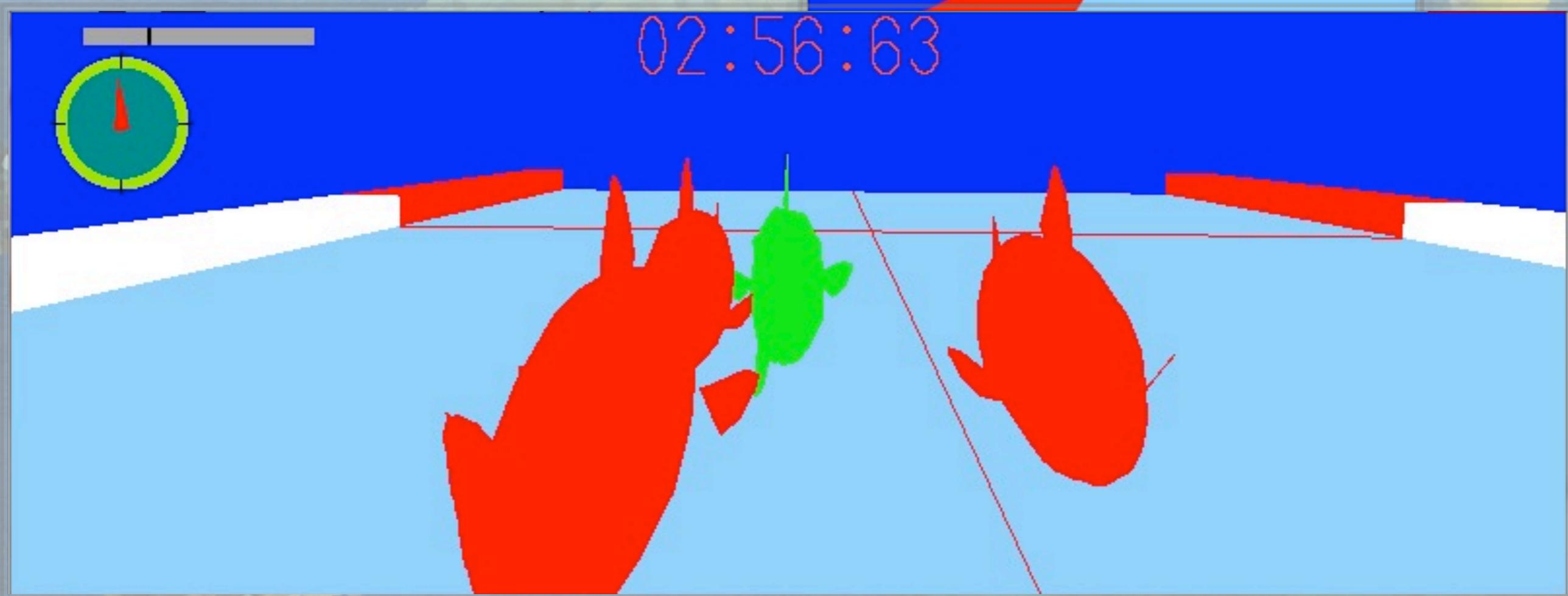
Apply drag to slow  
the players down

Update position and  
check location

# Multi Player

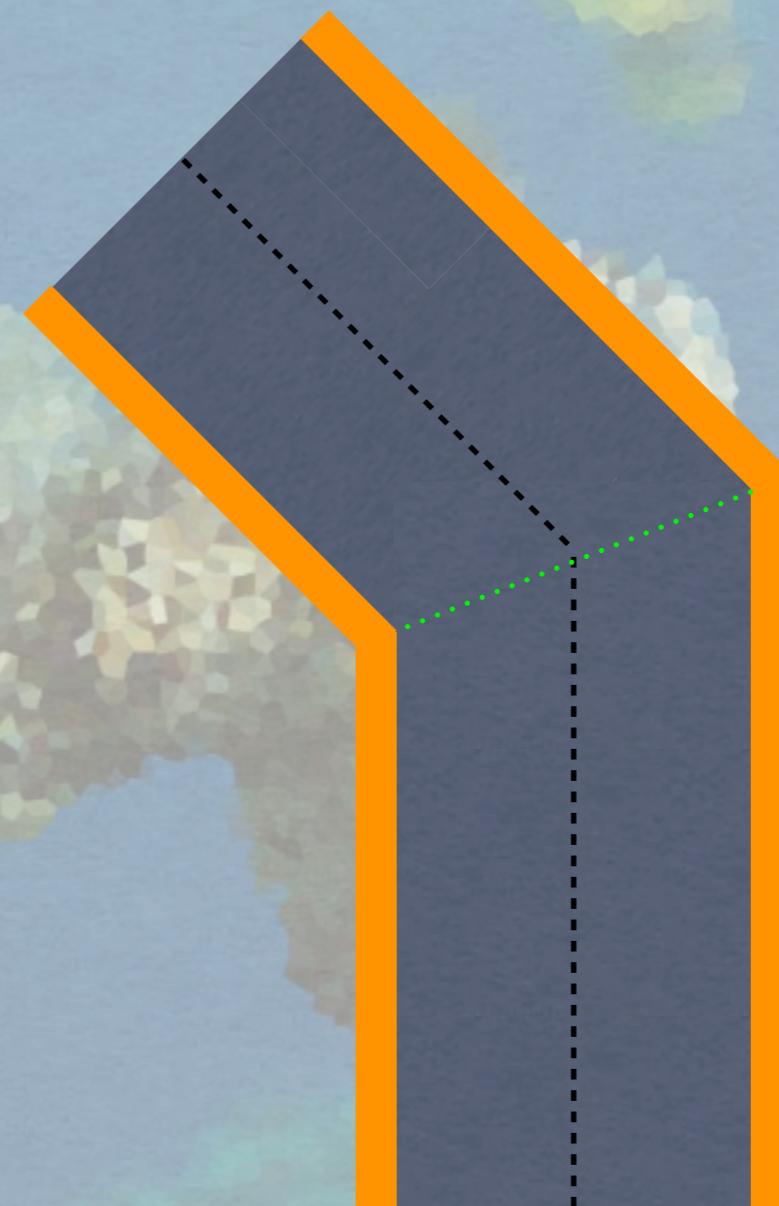
Jackie

\* Split screen



# Boundary

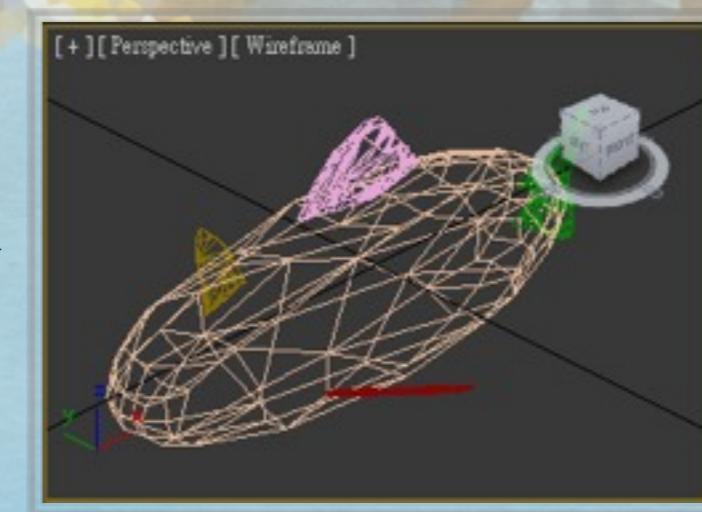
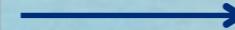
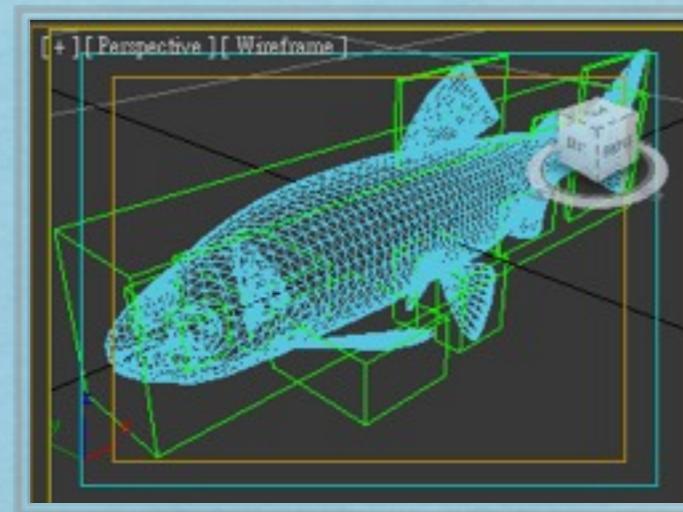
- \* Central line
  - \* read from text file
  - \* calculate angle
- \* Draw wall
  - \* create left/right points
  - \* modify by draw cube



# Fish Model

Amy

- \* Load 3D model to OpenGL .
- \* Edit and Export to obj and mtl files : Autodesk 3DMax.
- \* Calculate the triangles and vertex normals from the geometry data.

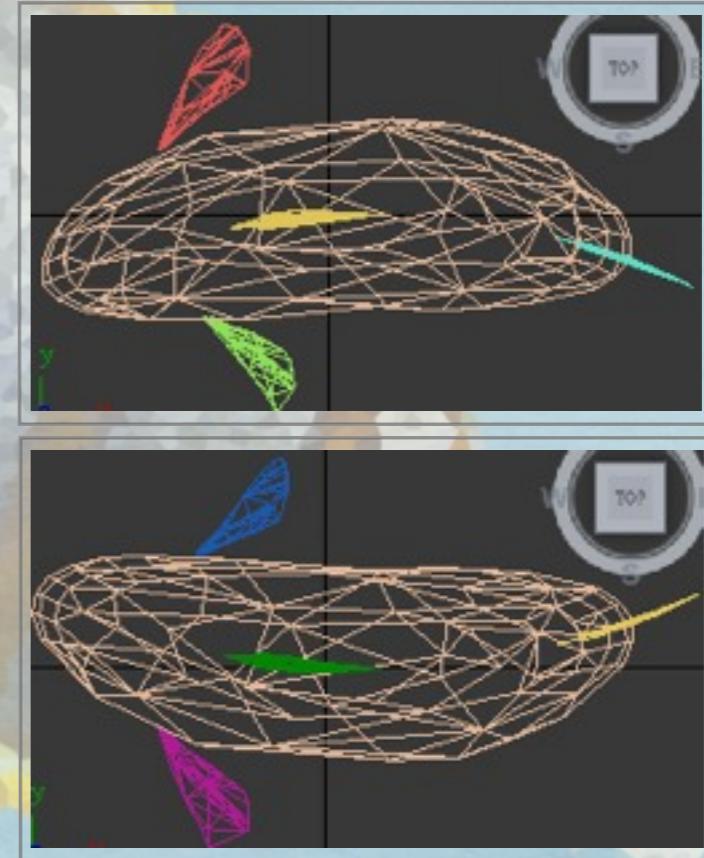


**!error:** Structure is too complex that can not run in the Game

Use less polygons and triangles to simplify it

# Import 3D Model

- \* Animation
  - \* Edit and create new objects in 3dMAX (ex. wagging tail)
- \* Texture Mapping



X failed – the original color will be influenced

# Obstacle

Mike

Hook

Bonus Item

Debris

\* Inher

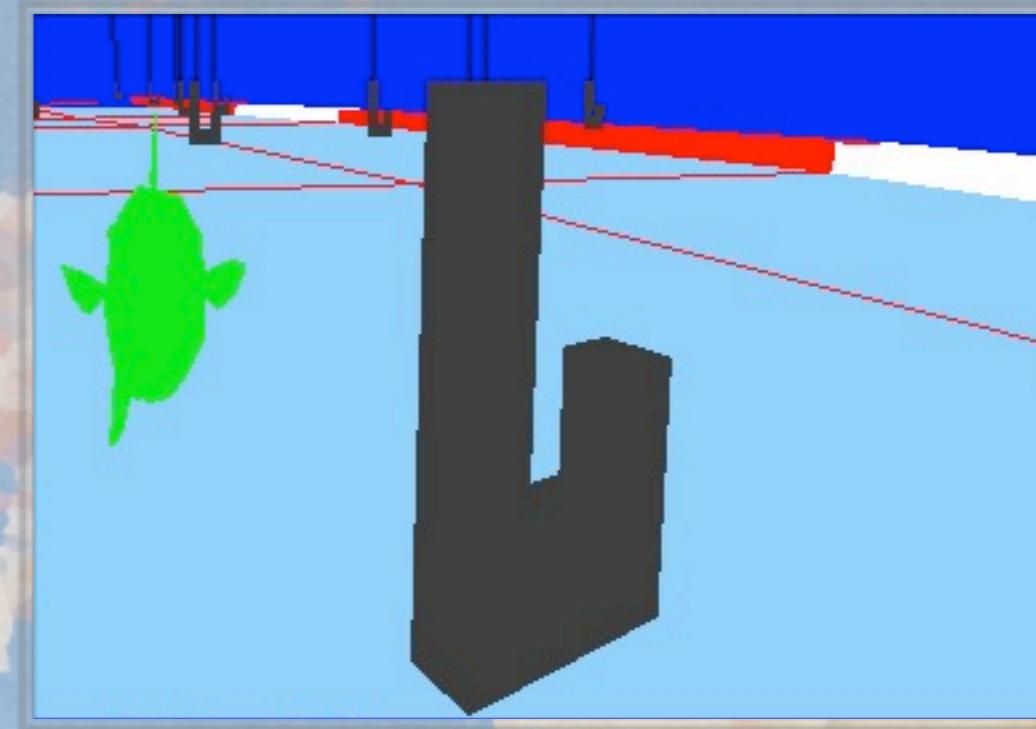


code re



# Hook

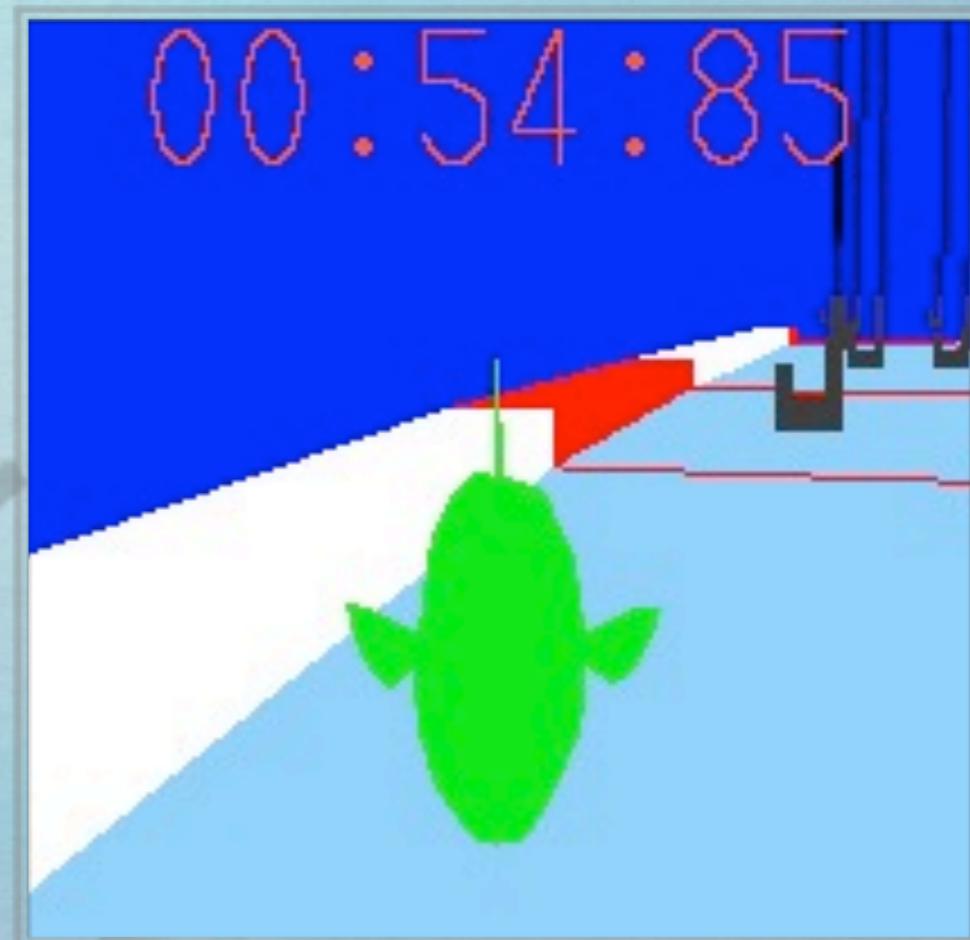
- \* Contains
  - \* position
  - \* ‘sphere of influence’
  - \* caught-or-not state
- \* Behavior
  - \* Fish checks if it is inside sphere of influence
  - \* Fish follows hook’s position until hook indicates it is released



# Stopwatch

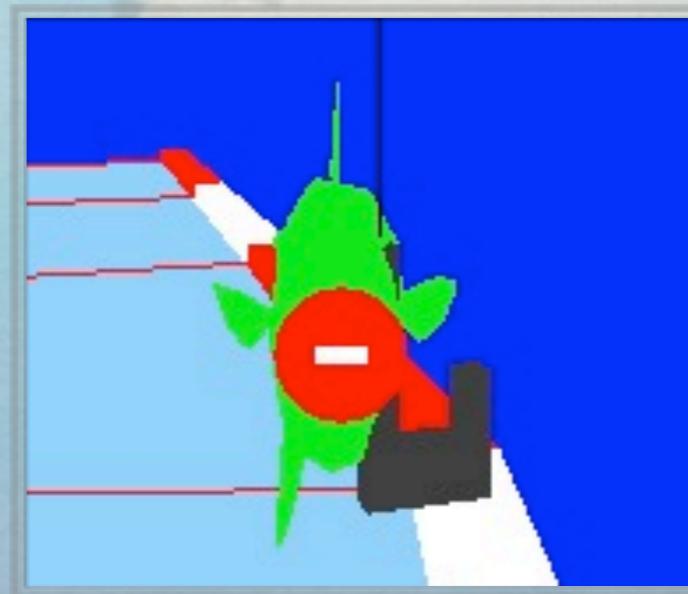
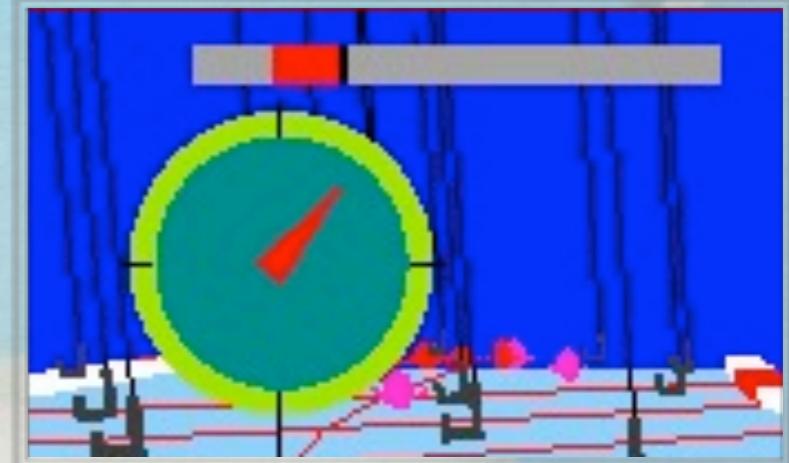
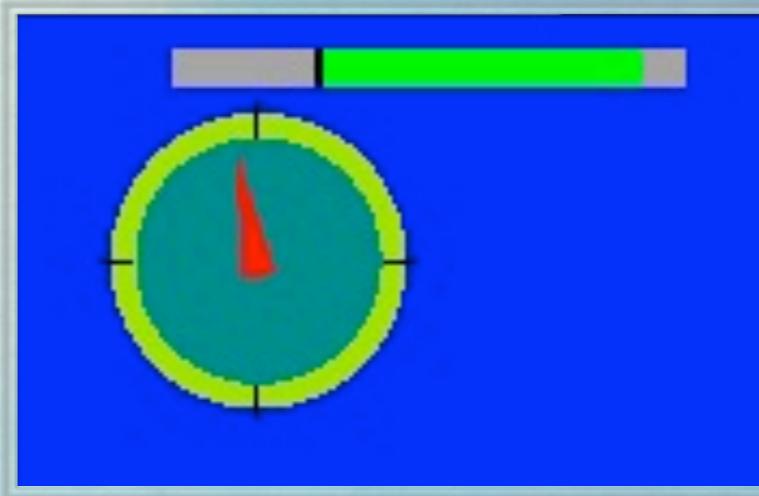
Richard

- \* Use `clock_t` function
- \* Get minute, second, and millisecond after math process
- \* Plot on the screen as a text string



# HUD

- \* Draw
  - \* velocity & direction (compass)
  - \* flashing wrong way sign
- \* Coordinates
  - \* call from player class (current velocity, angle)
  - \* change with the window size





# Demo - Multi Player



The background of the slide features a scenic sunset over a field. The sky is filled with warm, golden-yellow hues, transitioning into darker blues and purples at the top. A bright sun is positioned low on the left, casting a long, glowing orange and yellow path across the landscape. In the foreground, there's a dark, textured area that looks like a path or a cluster of bushes. The overall atmosphere is peaceful and dramatic.

# The End

Ting-Hao (Howard) Chen + Samuel (Sam) Dyment +  
Michael (Mike) Lin + Ching-Heng (Richard) Lu +  
Yi-Tsen (Amy) Pan + Gaurav (Gary) Verma + Jackie Yang