



Don't be Dinner

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



Demo - Single Player

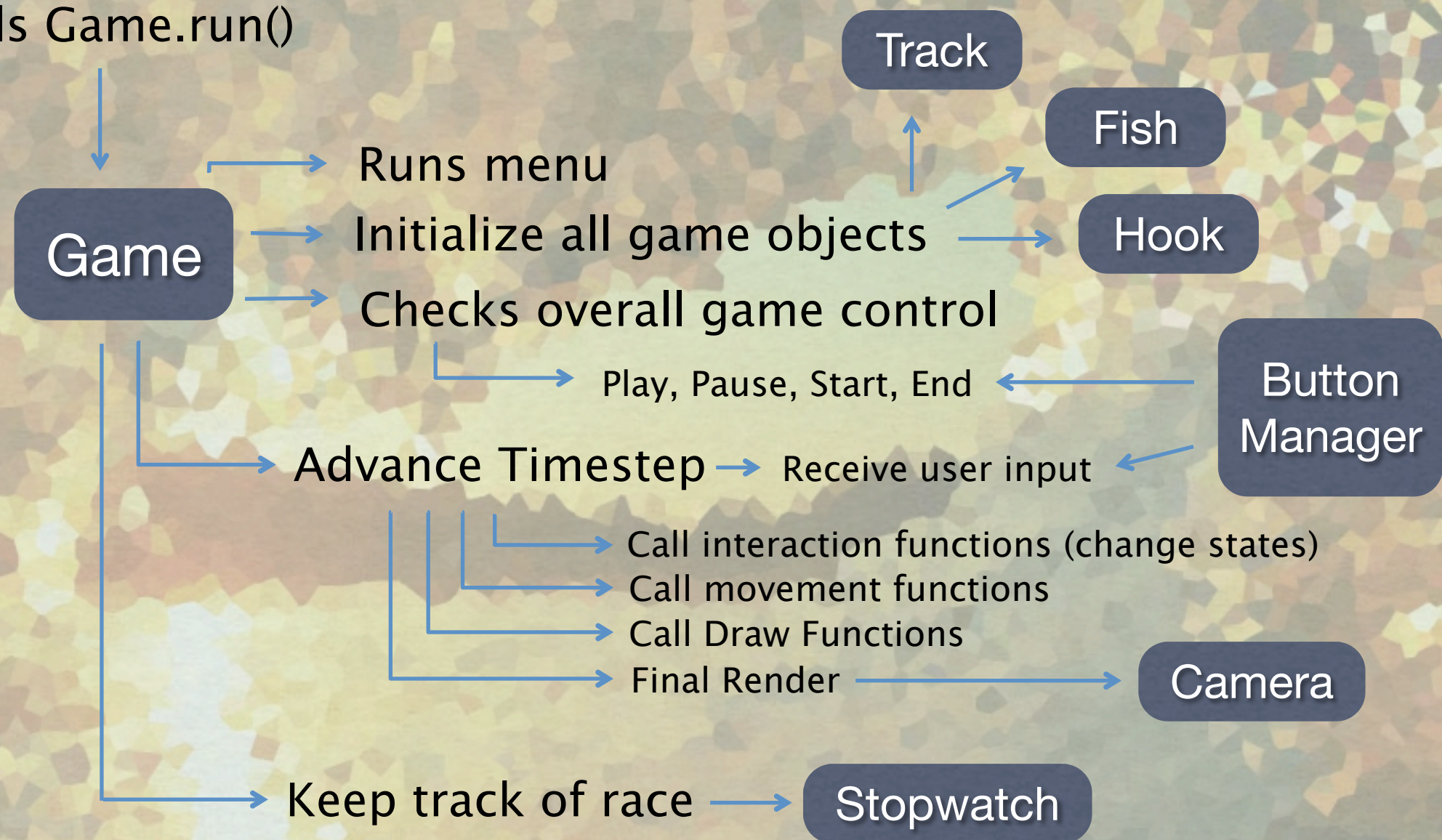
Introduction

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

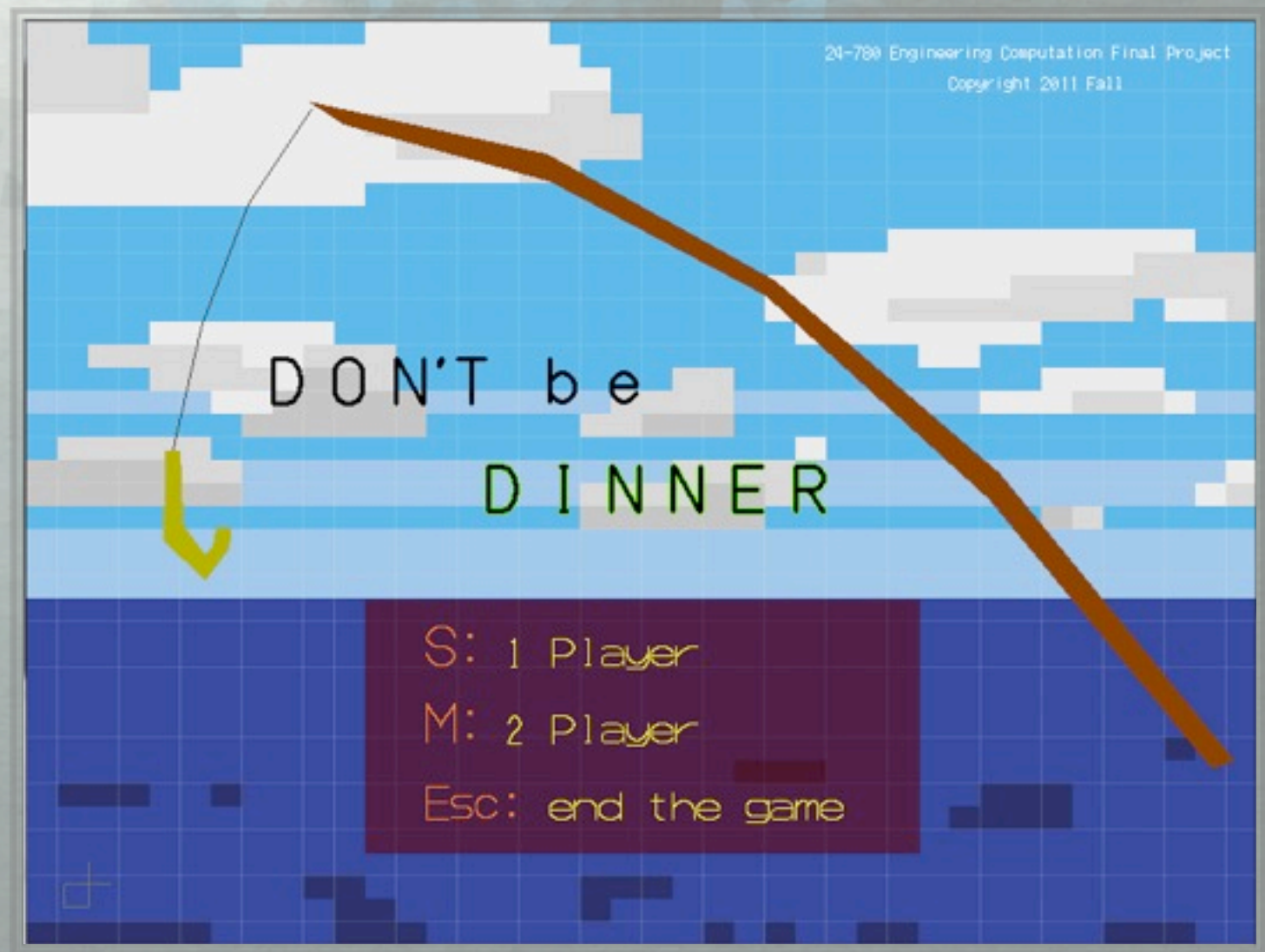
Main: Creates Game object,
calls Game.run()



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

Input/AI	Collisions	Movement & Check
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Player - Input / AI

Follow the nearest leader
Swarm when close

Follows Racecourse
Slows down at turns

If close, run from hunters
If far, move randomly

User

Racer

Leader &
Spaz

Follower

Hunter

Prey

Turn and accelerate randomly

If close, chase prey
Otherwise, wait

Input from Button object

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

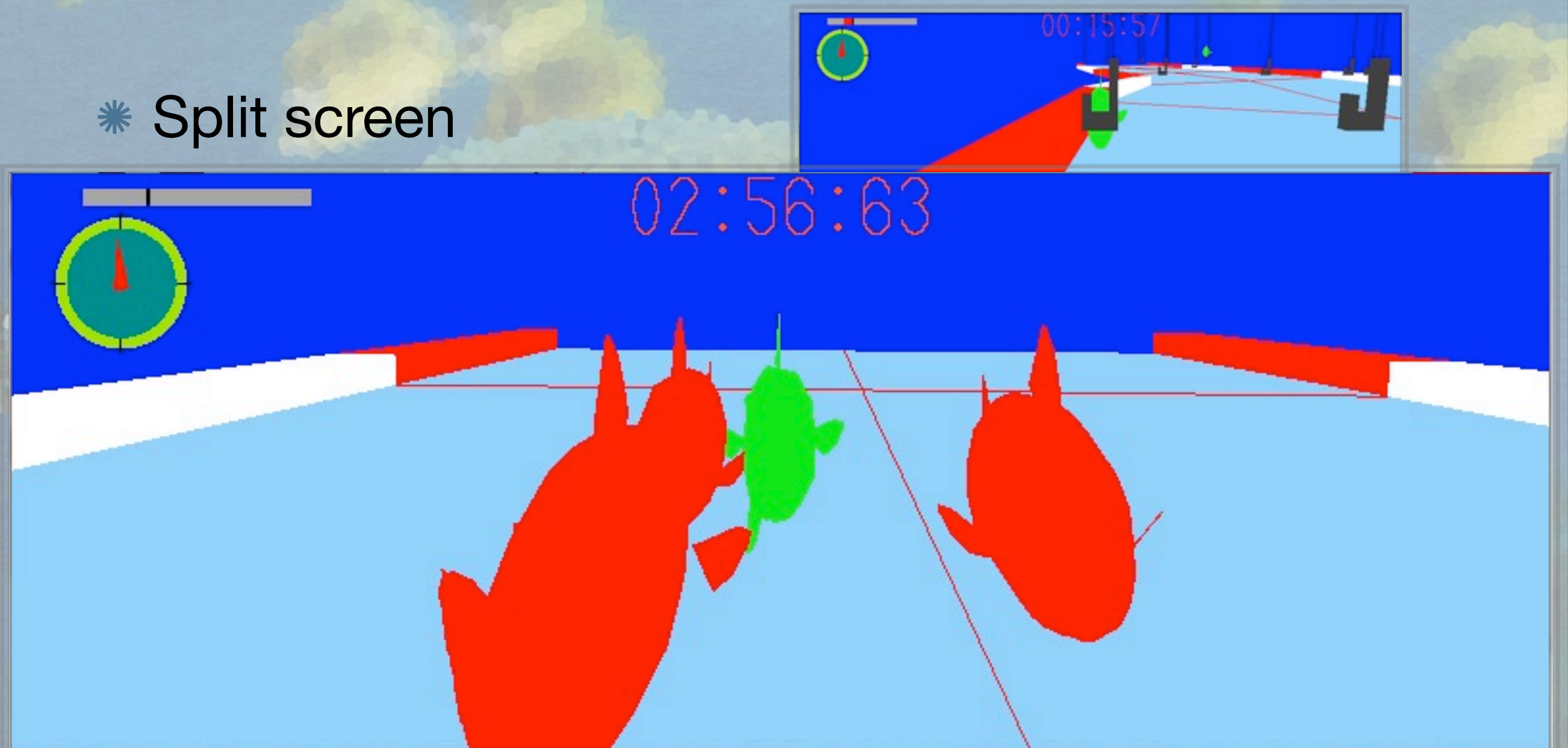
Apply drag to slow the players down

Update position and check location

Multi Player

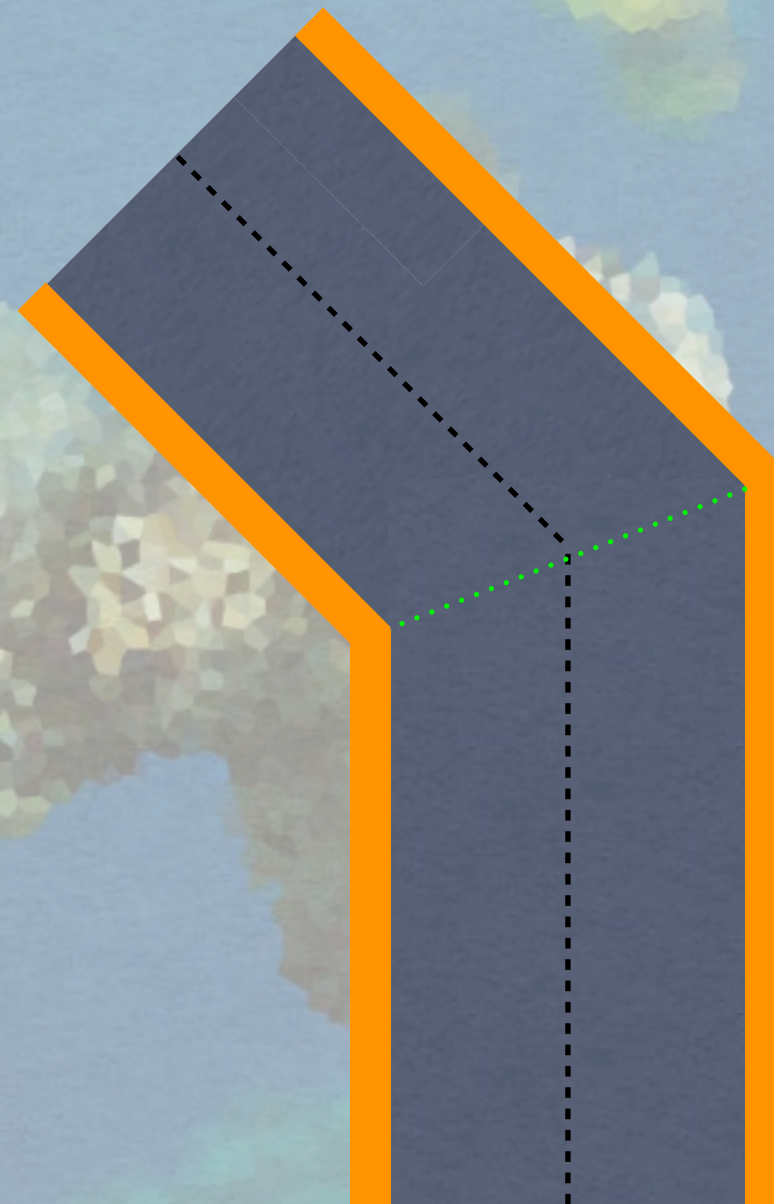
Jackie

* Split screen



Boundary

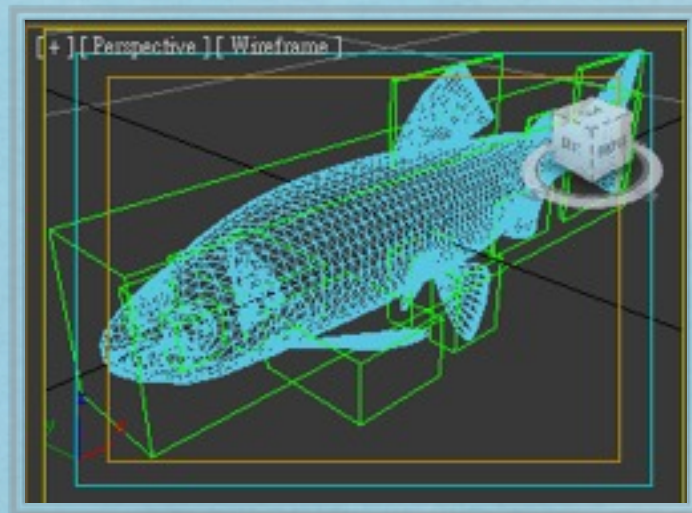
- * Central line
- * read from text file
- * calculate angle
- * Draw wall
- * create left/right points
- * modify by draw cube



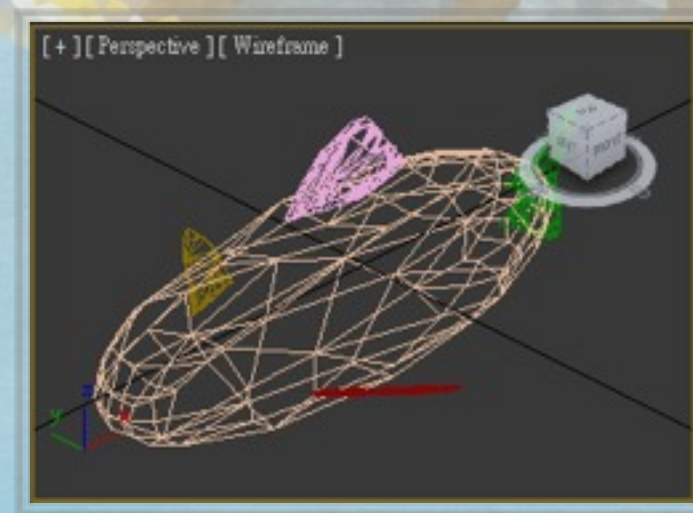
Fish Model

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

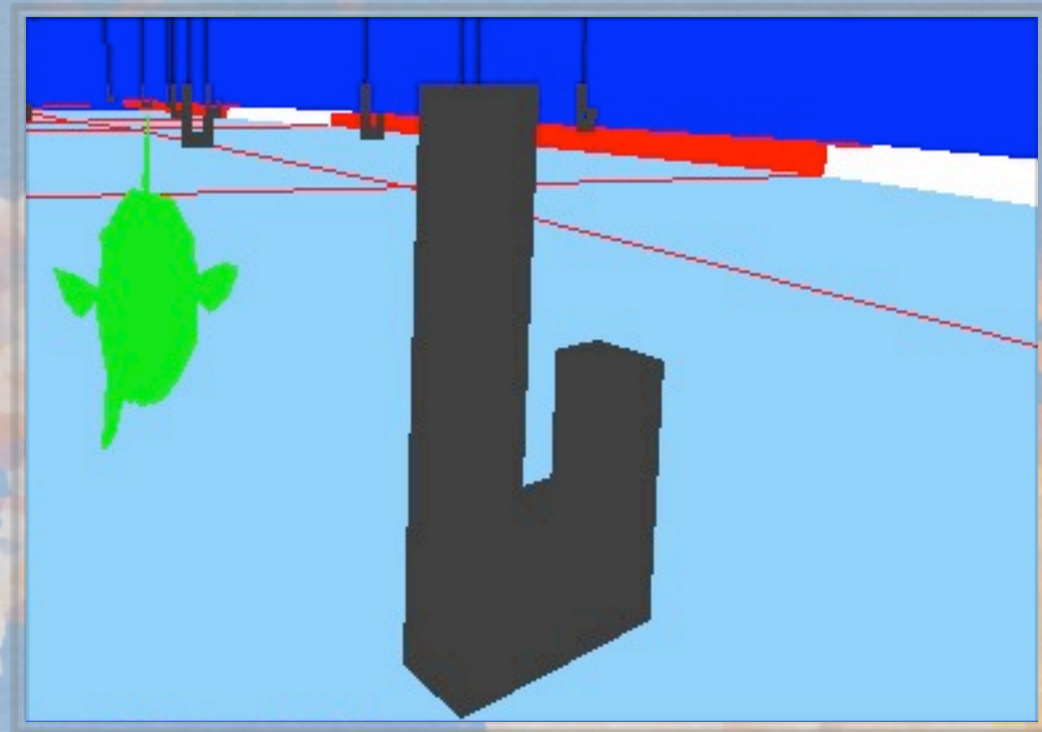
* Inhe

code rec



Hook

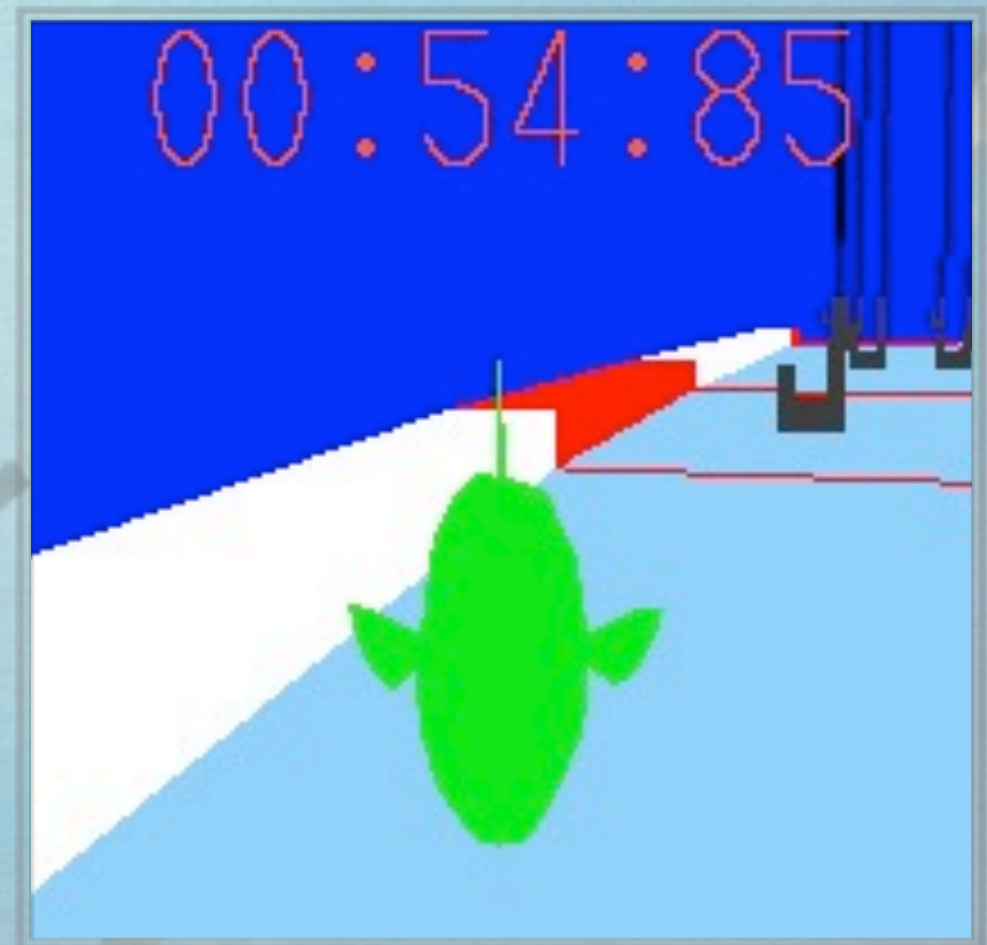
- * Contains
 - * position
 - * 'sphere of influence'
 - * caught-or-not state
- * Behavior
 - * Fish checks if it is inside sphere of influence
 - * Fish follows hook's position until hook indicates it is released



Stopwatch

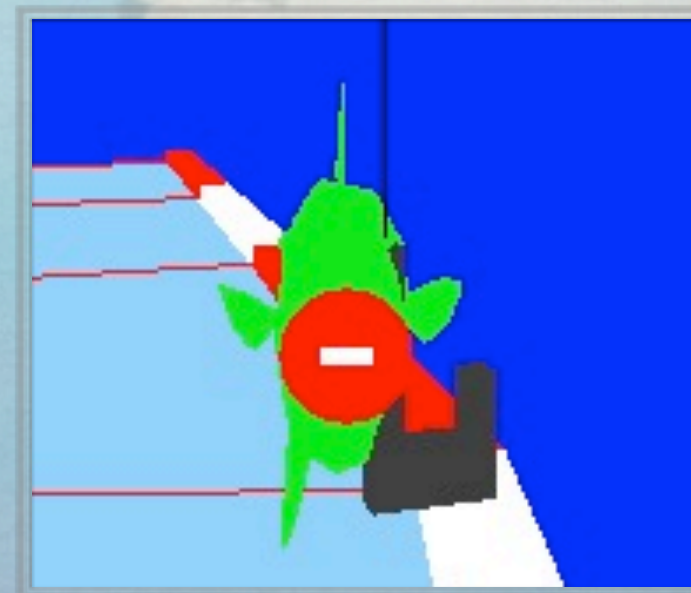
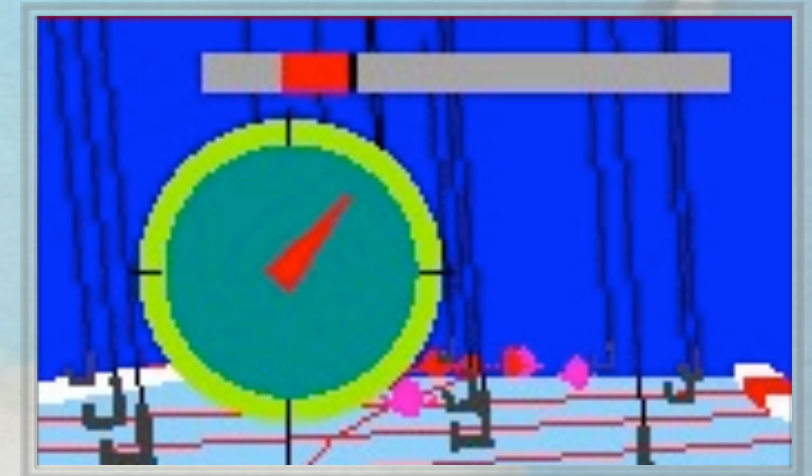
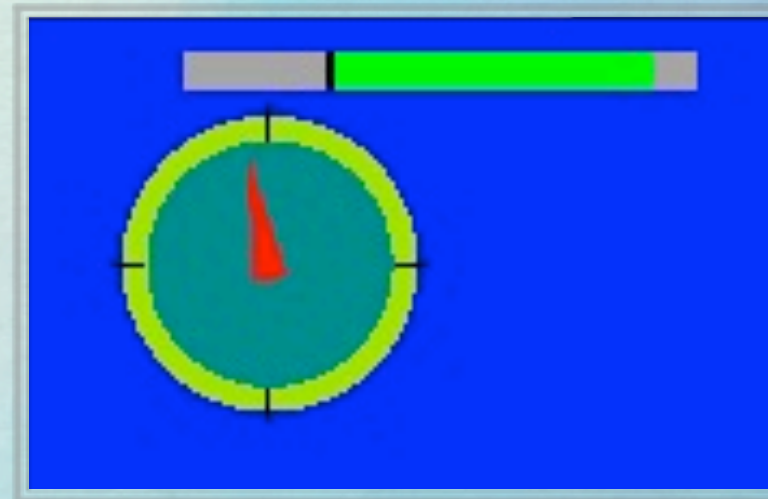
Richard

- * 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



The background is a pixelated image. The top half shows a bright, overexposed sky with a white sun. Below the sky is a dark, pixelated horizon line. In the foreground, there is a body of water. On the left side of the water, there is a small, pixelated figure of a person standing on a beach, wearing a red shirt and dark pants. On the right side of the water, there is a larger, pixelated figure of a person standing in the water, wearing a dark suit and a white shirt. The text "Demo - Multi Player" is centered in the middle of the image.

Demo - Multi Player



The End

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