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Unity Ver.	2018.2

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1.Description of the package.

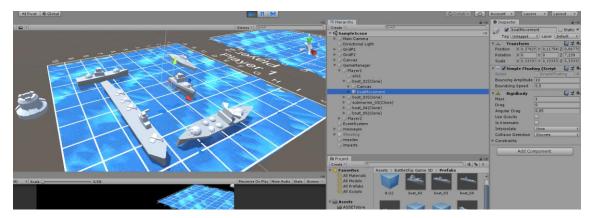
With this addictive package you will be able to recreate a futuristic battleship game in which the objective is to sink the enemy ships by launching several missiles to the unknown enemy zone. After each try the grid will show if you have missed or hit an objective. When all the ships are destroyed the game ends.

This package includes the following features:

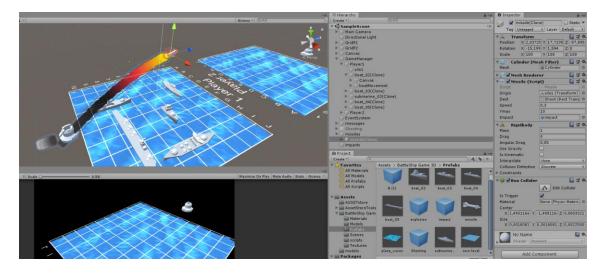
- 3D ship models.
- Camera movement, zoom and rotation.
- Game manager that shows several canvases with instructions.
- Missile generation, movement and management.
- Impact management in water and in ships with different markers.
- Transparent and friendly-code.
- Water simple dynamics.
- Boat floating effect.

2. Colliders, tags and physics

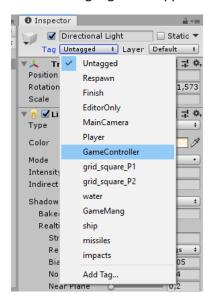
Rigidbodies are used for boat movement and trigger interactions when placing the ships and when launching missiles. Here we can see where the RB is attached to a boat.



Here we can see where is attached to the missile:



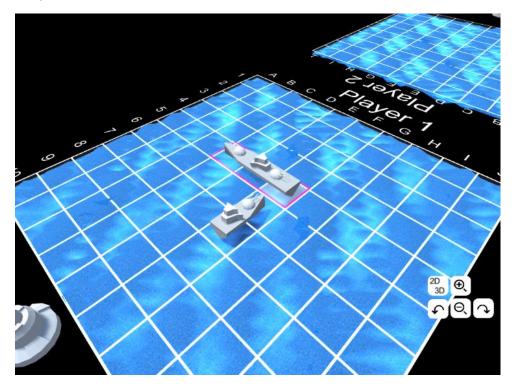
The following tags must appear in your project:



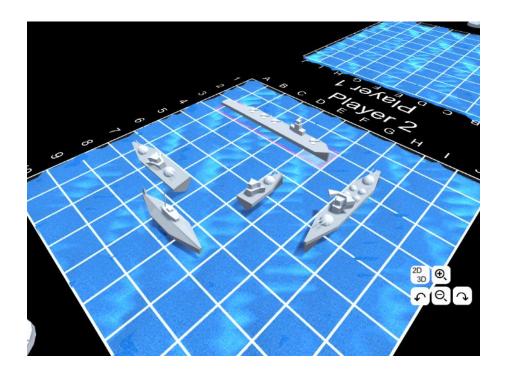
3. Game Evolution

The game is divided into different stages.

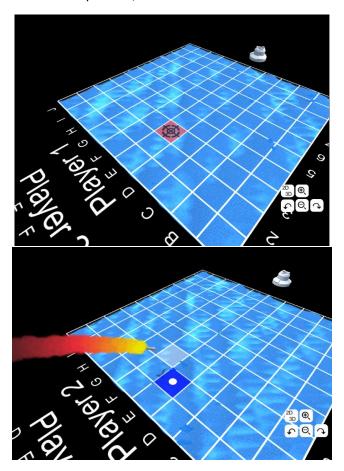
• Player 1 places its boats. Thanks to the colliders, we are able to know when the boats are misplaced or overlap other ships. Boats are placed by clicking on the grid and rotating the boat in the four possible directions. A magenta line will appear around the ship.



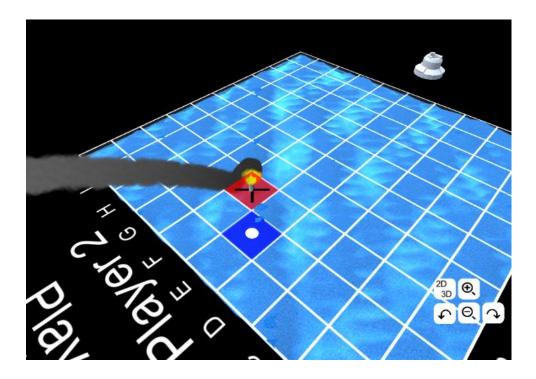
• Player 2 places its boats. Same process as shown before but this time it is player 2 who places the boats in the screen.



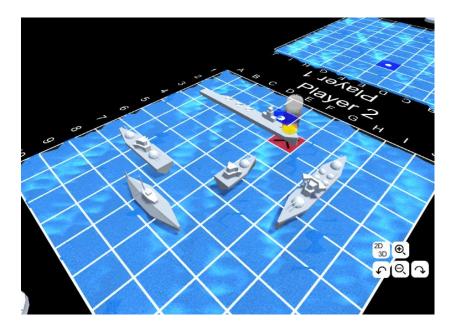
• **Player 1 turn.** The player can select a square from the enemy grid and it will show the "shooting button". Once pressed, the missile will launch.



If the player hit the water a blue marker will stay over the grid, while a red marker will appear if the player hits an enemy boat.



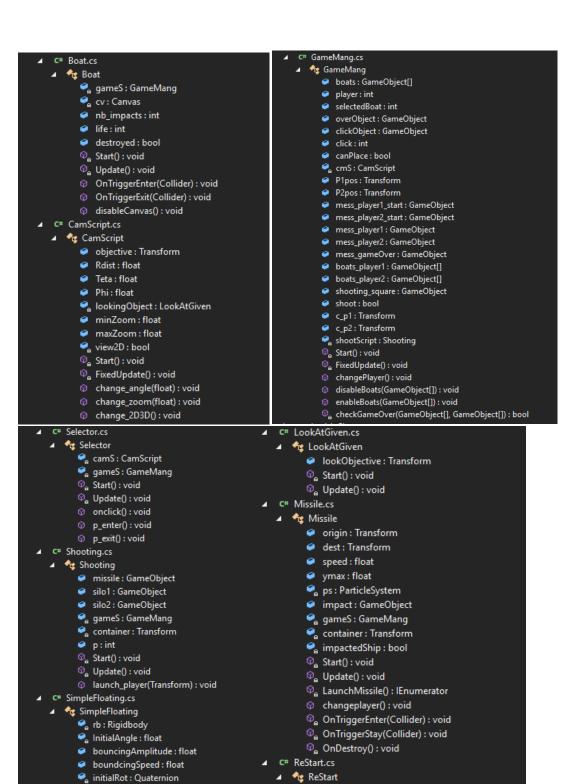
• Player 2 turn. The player can select a square from the enemy grid and it will show the "shooting button". Once pressed, the missile will launch. Same process than in player 1. In this case the player can check the state of his boats on the grid.



5. Scripts

We have made a specific tutorial explaining how scripts and game dynamics work.

https://youtu.be/za5wvYbn7nM



© Start(): void

© Update(): void

restart(): void

nitialPosition : Vector3

© FixedUpdate(): void

© Start(): void

