

nume omervanderunde

CLASS CDV2

DOTE 13-15-2317

COME REVERSED OSTERODS

DOS TECHNISCH DOCUMENT

THECOME

The game seems like the original Asteroids arcade game, but the originally player controlled spaceship is now controlled by artificial intelligence.

While the spaceship is controlled by the AI, the player can instantiate asteroids and fire them at the AI controlled ship.

The player only gets 1 minute of time, and gains points for hitting the ship with asteroids.

POTTERNS

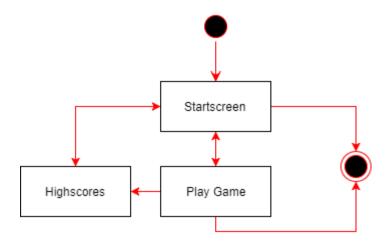
OBJECT POOL

Used for keeping a fixed amount of asteroid clones which can be spawned, preventing the constant instantiating and destroying of clones.

SINGLETON

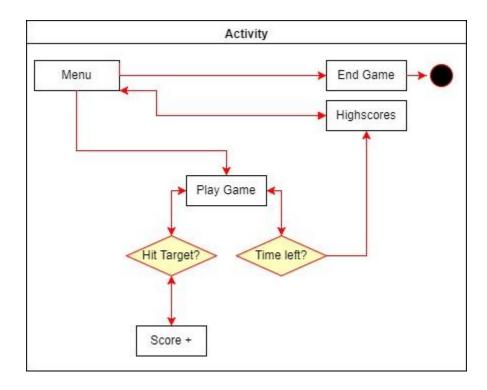
Since I'm using DontDestroyOnLoad() for my background music, I need to use a Singleton to prevent the music from duplicating.

SCENE FLOW DINGRAM



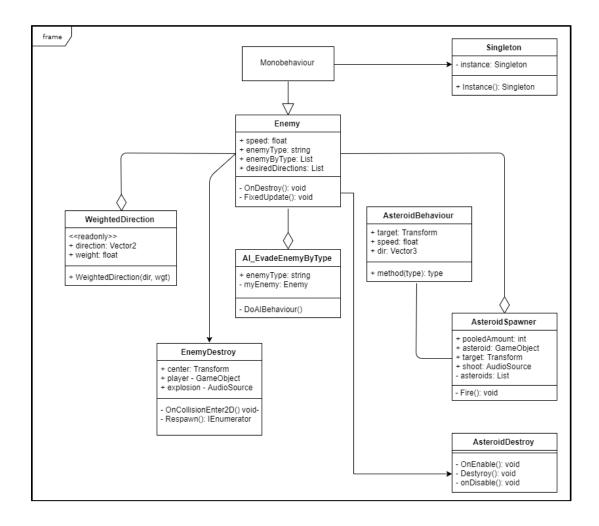
When starting the game, the player will enter a main menu screen. From there the player will have the options to visit the high scores, quit the game and to start the game.

activity diagram



When the player entered the game, the countdown of 60 seconds start to count and the player has to score as many points as possible. Each time a successful hit is accomplished, a point will be added to the score.

Class Dirgram



The main element of the game is the class Enemy.

Every instance in the game is an enemy with an enemyByType and desiredDirections List.

The enemyByType list is used to check other enemies, and the desiredDirections is used to calculate the direction to go. The direction to go is calculated in the WeightedDirection class by looping through the float weight and Vector2 direction. The asteroids spawned by the user get their behavior from the class AsteroidBehaviour

PLINING

WEEK	GOAL	NOTES
1	Concept	
2	Player controls,	
	start AI	
3	Finish AI, UI,	
	Design patterns	
4	Fix and finalize	Process feedback
		in game
5	Submit	