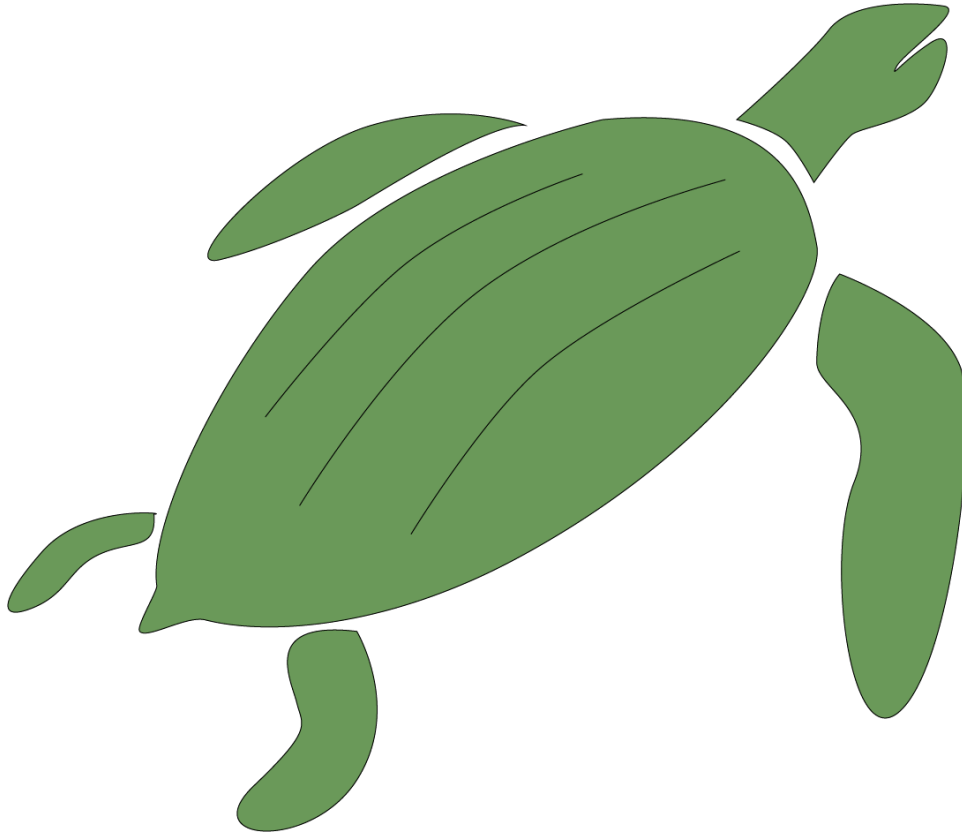


# Turtleation GDD



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## 1.1 Game overview

Turtleation is an online survival game for browsers where you control groups of turtles.

The game features a top-down view over hexagonal tiles.

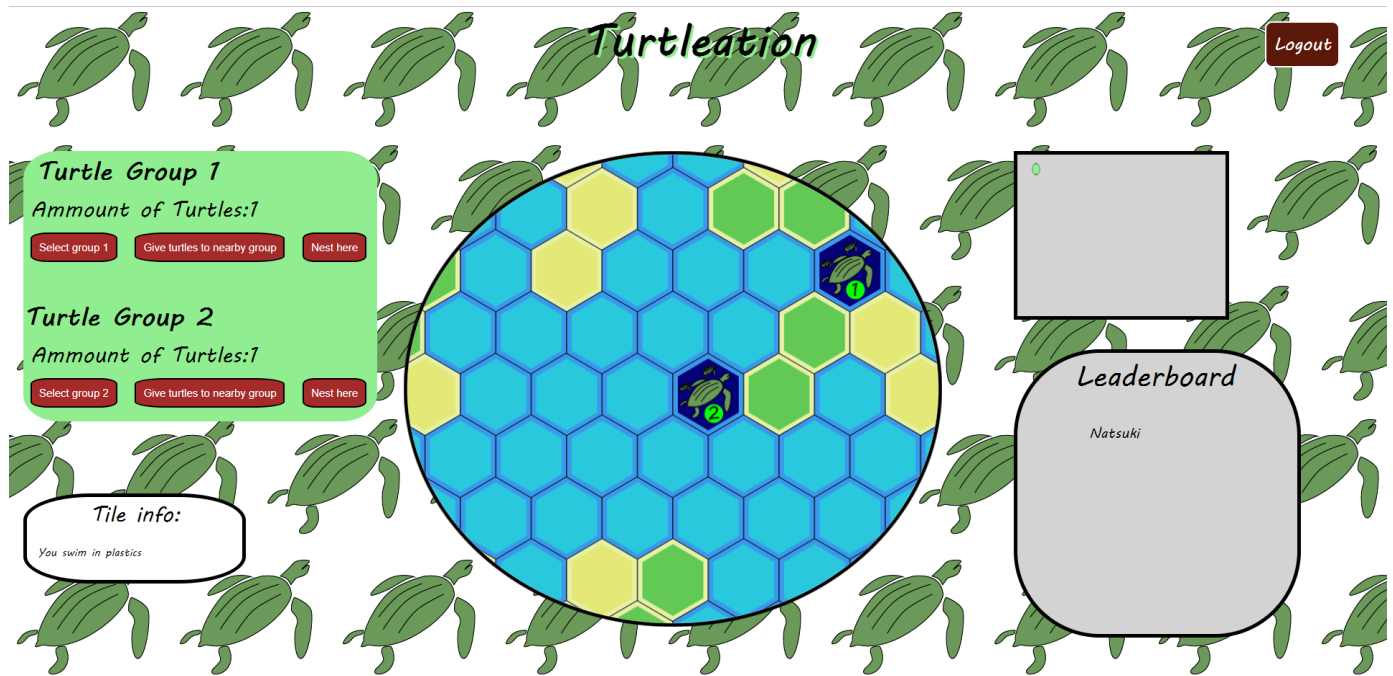
You start with two turtles ready to nest. On our game you manage groups of turtles, where you will move them around the map to collect food and try to avoid plastics in the ocean. Since there are other players around you will have to get to the food first if you want to survive. Once you have a pregnant turtle you can move her in a group to a beach and she will be left there to nest and get you more turtles.

## 1.2 Game Goal

- Survive for as long as you can and get as many turtles as you can in the minimum time possible to have the highest score.

## 1.3 Game context

- The goal of the game is to alert people about the dangers that Turtles go through on their day to day life and make them want to help, by recycling, keeping the beaches and the ocean clean.



## 2.1 Map

The map is built with multiple tiles.

- Water tiles, are empty;
- Food tiles, have jellyfish that you need to keep surviving but they have a chance to have plastics as well and damage your turtles;
- Plastic tiles, are water tiles with plastic that will damage you;
- Beach tiles, are used to nest and get more turtles for your colony, they have a 50% chance to damage you if they have humans;
- Island tiles, are just an obstacle in the map that you can't step on;
- You can't see if the tile that ur about to step has plastic or food until you step on it, after that on the bottom left under Tile info, you will be informed if the tile has plastic or food;

## 2.2 Leaderboard

There is a Leaderboard on the game page on the bottom right side that displays the top 5 players;

## 2.3 MiniMap

There is a MiniMap on the game page on the top right side that displays your position on the complete sized map;

## 3.1 Movement

You control turtles that are organized in groups to be more manageable.

The groups are represented on the image above as a hexagon with turtles and a number 1 and 2;

You have a total of 2 groups to use;

- On the left side of the screen you can select which group you want to move clicking on the button labeled as “Select Group”;
- Placing your mouse on the map over your selected group will display a highlighted position and you can select 6 different positions to move by clicking the highlighted area;
- You can't move into tiles occupied by other players;
- You can't move into island tiles, only water and beach;
- You can move 1 tile at a time;

## 3.2 Nesting

- A player can only have one nest at a time, and only when that nest is gone will he be able to nest again.
- Nesting on a beach without humans has a chance of giving you from 1 to 5 turtles, while doing that on a beach with humans can give you from 1 to 10 turtles, but the catch is that, it has a chance to damage your turtles as well;
- The player can steal the Turtles from the nest of another player;

## 4.1 Game Rules

- You can see other players on the map;
- Your range of vision is limited;
- A turtle can survive up to a max of 12 days and starts with 100% life span;
- You must find enough food to feed your turtles;
  - The more turtles you have the more food you will need;
  - If 24 hours have passed without a turtle eating her life span will be reduced in 34%;
  - If her life span reaches 0% she dies;
- You start with 2 turtles ready to nest;

- You can switch your turtles between groups;
- You have up to 2 groups that you can control;
- You must be close to your other group to switch turtles;
- You can only have one nest at a time;
- After you nest you must wait around to 15 minutes for the Turtles to be ready to join your Group;
- Food tiles have a chance to have plastics as well;
- If you step on a tile with plastics the entire group will take damage of 10% reduction to their life span;
- As you move around on the map turtles on a group can get pregnant;
  - If a turtle on the group gets pregnant, you need to move the group to a beach and after you start nesting the group will be unable to move out of there for 5 minutes;
- Nesting areas have a chance to have plastics and or humans;
  - Humans have a 50% chance to either help you nest making you get more turtles or damaging you;

## 5.1 Game Requirements

- Connection to the internet;
- A browser;

## 5.2 Game Creation Requirements

- MySQL;
- HTML;
- JavaScript;
- CSS;

## 6.1 Game progression

- You can register allowing you to keep your progress;

- The game is endless;
- There is a score system and a leaderboard that displays the top 5 players;
- You can lose by letting all your turtles die;
- Since the game is endless you don't really win permanently, the game gives you only a temporary victory;