

Filthy Cell-Culture Dish

User Manuel

(c) YYL Team

Based on Version 1.0.0

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Recommended Requirements

CPU: 2.0GHz i3 Dual Core or equivalent

RAM: 1 GB

OS: Windows 7 or later, Mac OS X 10.8+, GNU/Linux kernel 2.6.18
or later

Video Card: Yes

Sound Card: Yes

Free Disk Space: 500 MB

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1 Introduction to The Game

This game is a strategy game. Each player creates and evolves a kind of bacteria in an effort to populate the span of a culture dish in a biological laboratory. The game uses a population model with a complex and realistic set of variables and rules to simulate the evolution and competition of the bacteria. Player will be in charge with macro manage: the evolutionary path of his/her species and micro manage: exploration of the small world. The purpose of the game is to take the species into prosperity.

2 Game Terms

2.1 Cell

The world in the game is represented by consecutive cells. Individual cell has properties of current population of species and its' environmental limit. There will be additional statistics available for player for decision making.

2.2 Turn

Players take turns when playing. During each turn, a player can choose a cell to explore, select a trait to upgrade (if available) and check the status of the current game session. For demonstration, all the players will play on the same host.

2.3 Explore

During every turn, each player can choose a cell to explore by clicking that cell and a population advantage for that player's specie will be added to the cell. Players will be challenged to make decisions under an environment of uncertainty. The exploration element allows player treat the game like GO.

2.4 Traits

New traits will be obtained as game progress. At the end of each turn, if enough mutation is culminated, current selected trait will be advanced into next stage. The required mutation will be determined by whether this level of trait is obtained by other species (if it does, there is a discount) and current level of the trait.

The traits in this game is consisted of five main categories: Growth Trait, Explore Trait, Attack Trait, Defense Trait and Ultimate Trait.

- Growth Trait
 - Expanding pace of species' population in a cell
- Exploring Trait
 - Population advantage of exploration act
 - Threshold for expanding to neighbor cells
- Attacking Trait
 - Positive factor for your specie during the battle among species

- Defensive Trait
 - Negative factor for other species during the battle among species
- Ultimate Trait
 - The very only approach to win the game with a special trait.
This trait will enable the specie to fly out of the culture dish and earn victory

3 Download the Game

4 Start the Game

This game is build by Unity and no installation procedure is needed before running the game. Just unzip the downloaded game package and double click the main program, the game will run.

4.1 Screen Resolution Choice

1024 × 640 and other 16:9 screens with higher resolution are suggested.

4.2 Main Menu

The first scene will be shown is the main menu of the game. In this menu, players can start the game, review credits and turn on or off the sound effect.

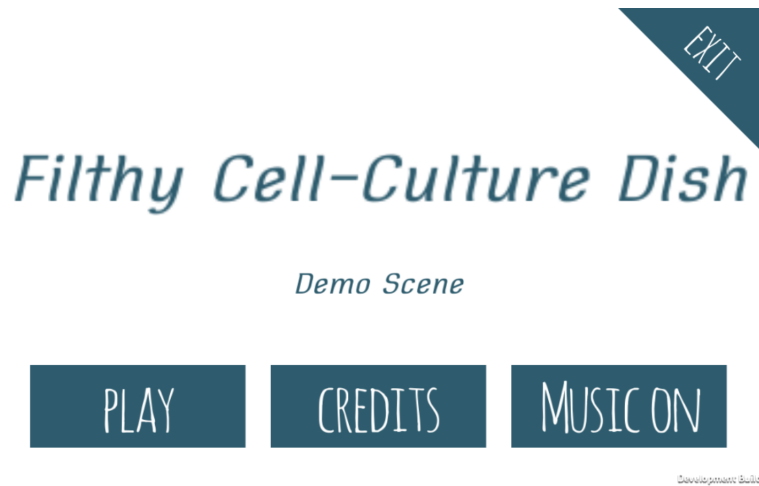


Figure 1: Main menu of the game

4.3 Difficulty Level

The following scene will allow the user to choose a difficulty level for the game. In this demo version, the difficulty of all three levels will be the same.

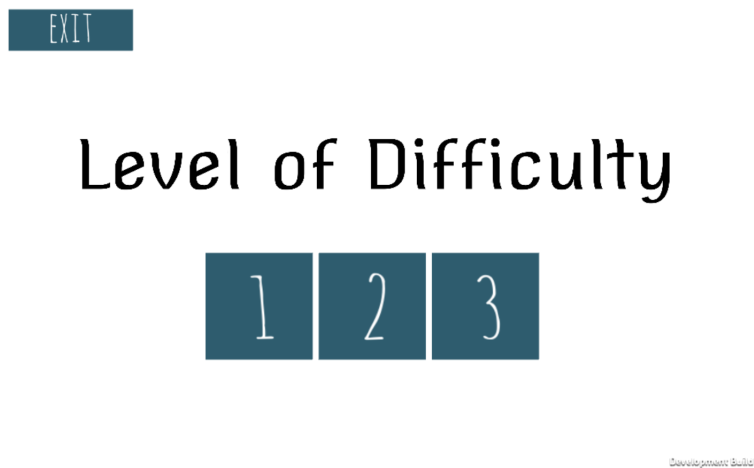


Figure 2: Main menu of the game

4.4 Game Options

The next menu will allow players to configure several essential game settings in the way they like, such as the number of players, the maximum turns allowed, the width of the map and the height of the map. It should be noticed that, the last three parameters should be equal or larger than 10.

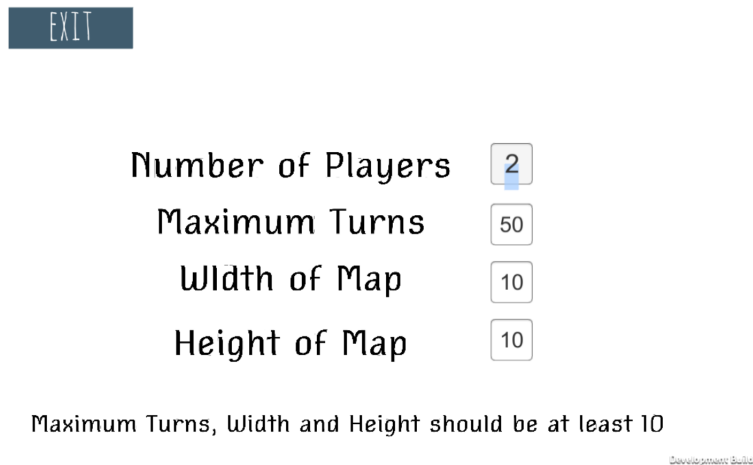


Figure 3: Main menu of the game

Press [Enter], after finishing the configuration, to start the game.

5 Exit the Game

During the game session, players can press [esc] at any time to exit the game. All the user data of current session will be lost.

6 Victory Conditions

Game will be over when the whole world is all filled with bacteria. During the competition process, the players can gain a touch of biological knowledge and skills about bacterial reproduction. Moreover, the players will be able to enjoy themselves and feel satisfied during the competition and, possibly, corporation with each other. Therefore, the player will be offered rich opportunities for getting a sense of achievement, recognition, and satisfaction at the same time.