

# Inspiration

I always like to add user interaction with a mouse and a generative aspect to my designs so they evolve to something I can't control so I looked for projects that would have these elements.

I started off learning programming in Java by implementing Conway's Game Of Life but I hadn't done a GUI, I only printed the results to the console.

Since I'm not too familiar with processing yet but it is made for making visual creative works I thought that implementing the game and making a visual interface would be interesting.

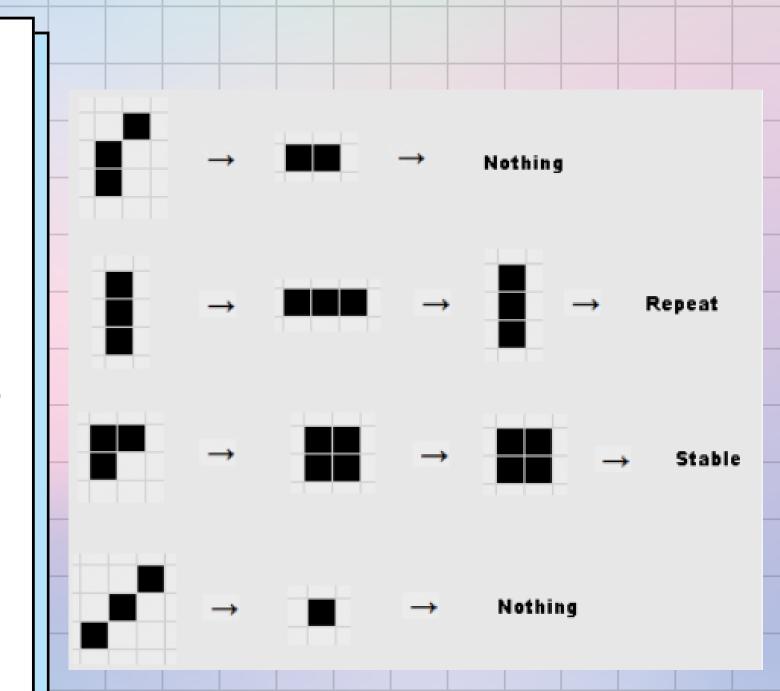
To add the usage of the L-System into the game, I intialize the game using patterns generated using a L-System.

## The game's basic rules

O player game, the game iterates based on an initial configuration chosen by the user

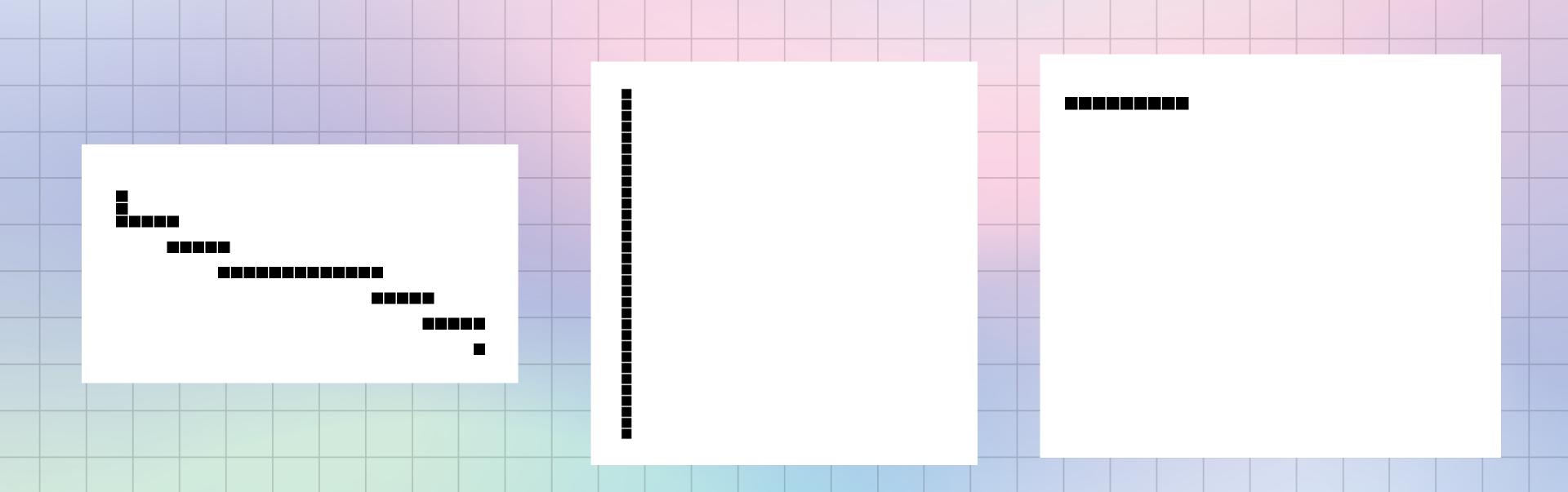
At each step in time, the following transitions occur:

- 1. Any live cell with fewer than two live neighbours dies, as if caused by underpopulation.
- 2. Any live cell with two or three live neighbours lives on to the next generation.
- 3. Any live cell with more than three live neighbours dies, as if by overpopulation.
- 4. Any dead cell with exactly three live neighbours becomes a live cell, as if by reproduction.

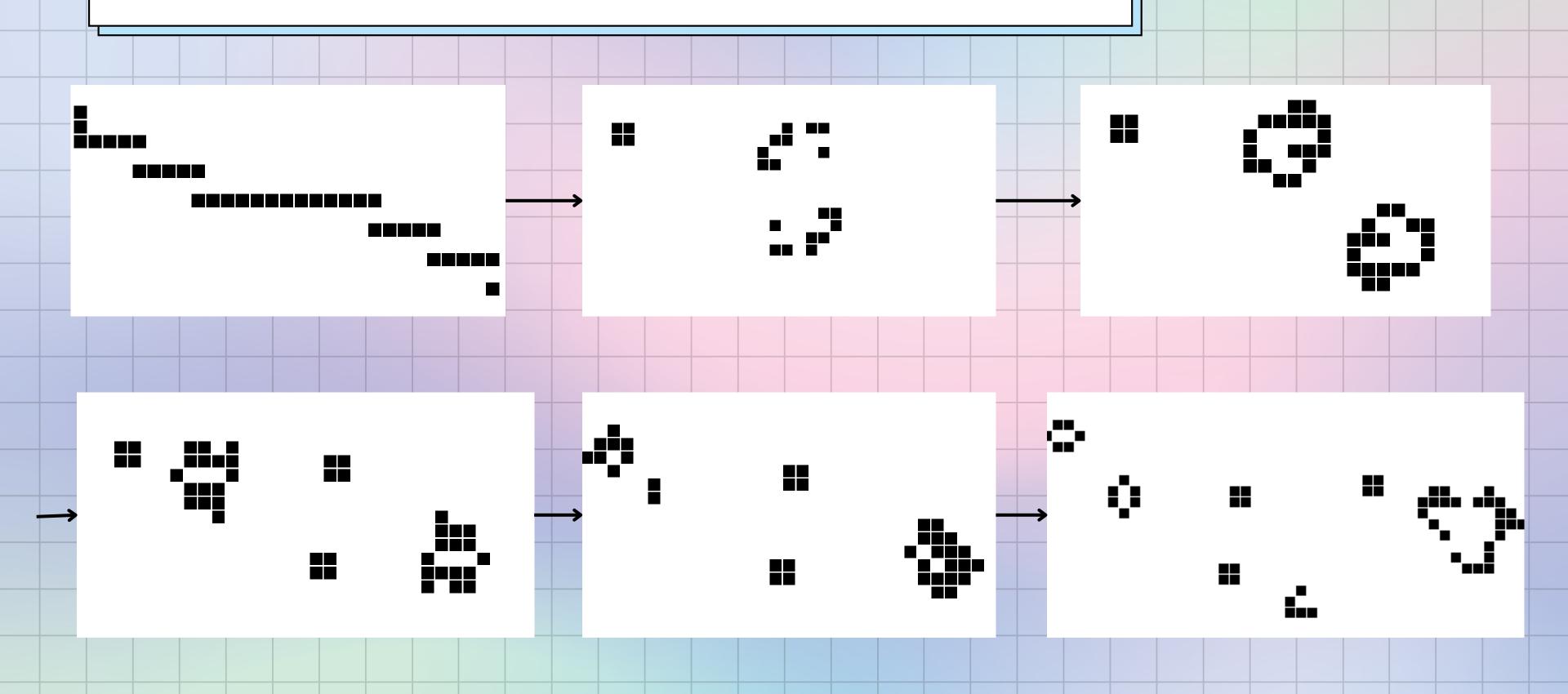


#### L-System generations

• I made three different initial configurations that we can use when starting the game using L-Systems



#### What these patterns turn to



### Changes I would like to add

• I sticked to simple patterns for initial configurations that are known in the Game of Life. I would like to make more complex patterns using Lsystem to have very different results.