



The image shows a 3x3 grid of diagrams, each representing a rule for a cellular automaton. Each diagram consists of a 3x3 grid of cells. The central cell's state in the next time step is determined by its current state and the states of its eight neighbors. The rules are as follows:

- Rule 1 (Top-left):** If the central cell is 0 and has 0 or 1 neighbors, it becomes 1. Otherwise, it remains 0.
- Rule 2 (Top-middle):** If the central cell is 1 and has 2 or 3 neighbors, it becomes 0. Otherwise, it remains 1.
- Rule 3 (Top-right):** If the central cell is 0 and has 2 or 3 neighbors, it becomes 1. Otherwise, it remains 0.
- Rule 4 (Middle-left):** If the central cell is 1 and has 0 or 1 neighbors, it becomes 0. Otherwise, it remains 1.
- Rule 5 (Middle-middle):** If the central cell is 0 and has 2 or 3 neighbors, it becomes 1. Otherwise, it remains 0.
- Rule 6 (Middle-right):** If the central cell is 1 and has 0 or 1 neighbors, it becomes 0. Otherwise, it remains 1.
- Rule 7 (Bottom-left):** If the central cell is 0 and has 0 or 1 neighbors, it becomes 1. Otherwise, it remains 0.
- Rule 8 (Bottom-middle):** If the central cell is 1 and has 2 or 3 neighbors, it becomes 0. Otherwise, it remains 1.
- Rule 9 (Bottom-right):** If the central cell is 0 and has 2 or 3 neighbors, it becomes 1. Otherwise, it remains 0.