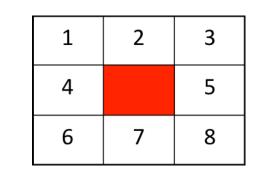
New Geometries for Cellular Automata

Samanvitha Basole, Phyllis Lau, Dr. Tim Hsu

San Jose State University

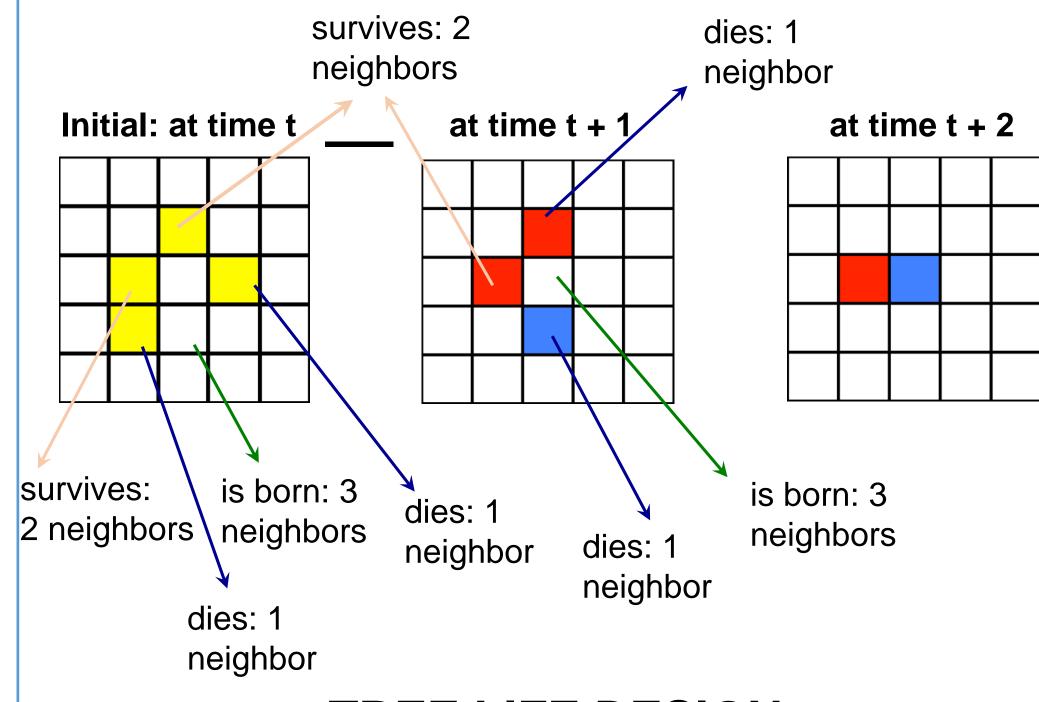
INTRODUCTION

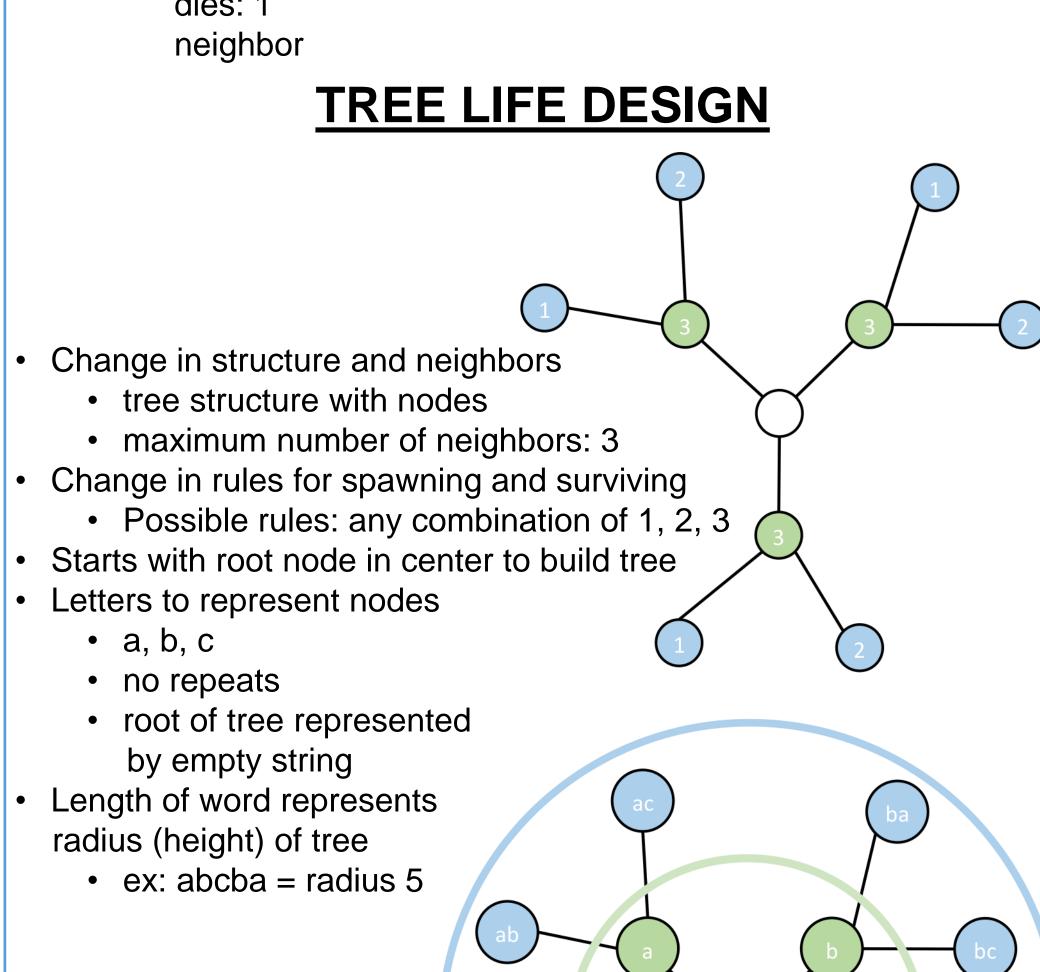
- Tree Life is adapted from an existing game called Game of Life (or simply Life) invented by John Conway
- Cellular automaton: game that is played by itself, giving results through its previous states after one initialization
- Uses 2D square grid where a cell has eight adjacent neighbors



- Two states only: a cell is either alive or dead
- Rules: At time t + 1, a cell survives if it had 2-3 neighbors at time
 t. At time t + 1, a dead cell comes alive (is born) if 3 of its
 neighbors were alive at time t.

GAME OF LIFE IN ACTION





radius of 2

radius of 1

