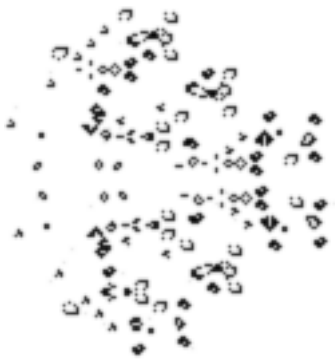
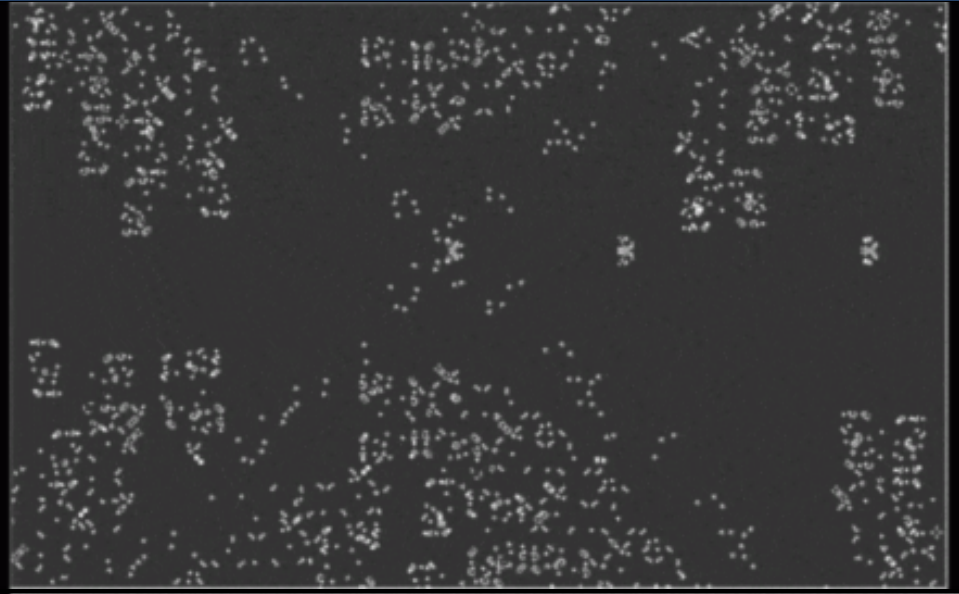
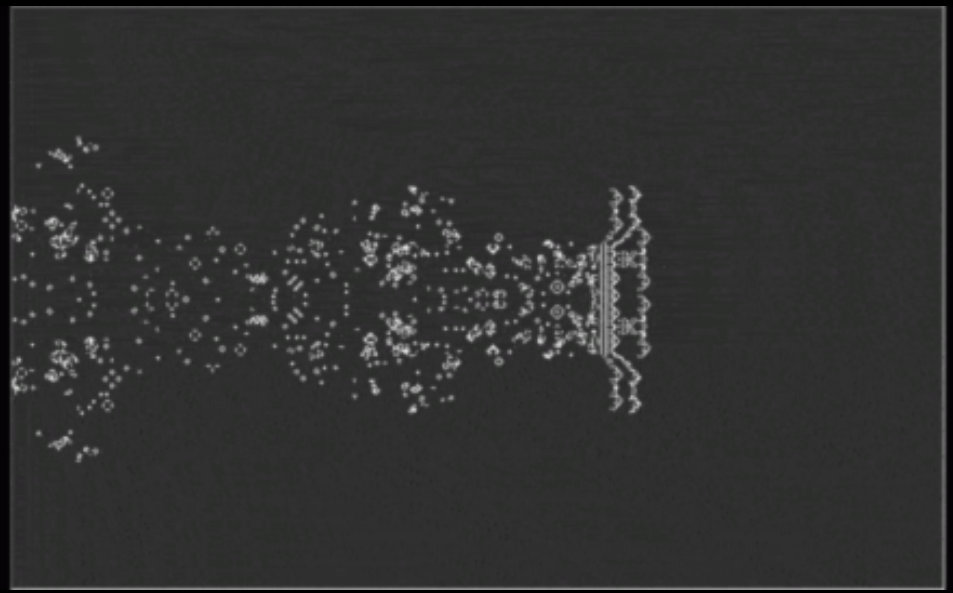
Models of cellular Processes - 03 cellular automata & maps

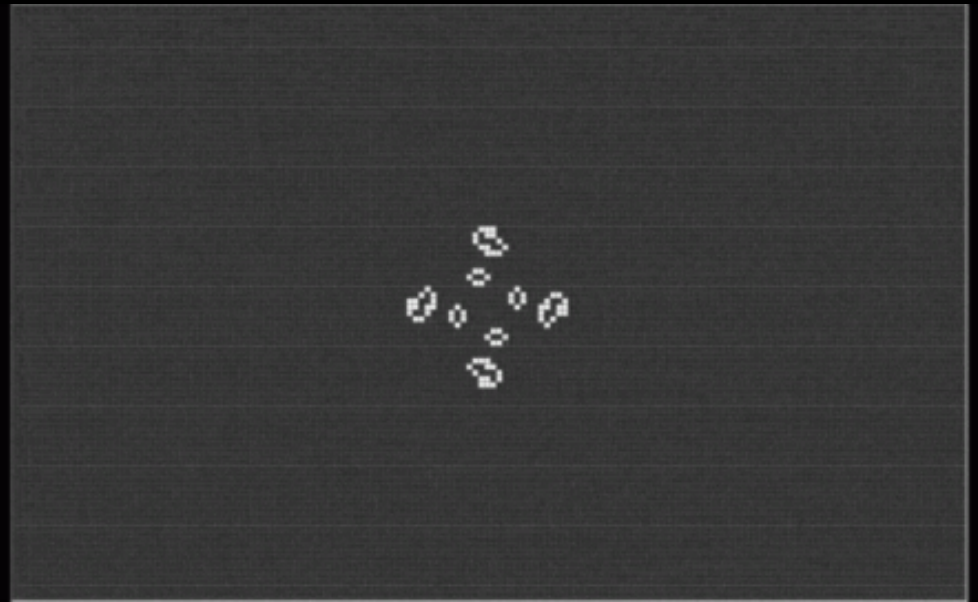
Matthias König
https://mcp.readthedocs.io



livermetabolism.com
@konigmatt

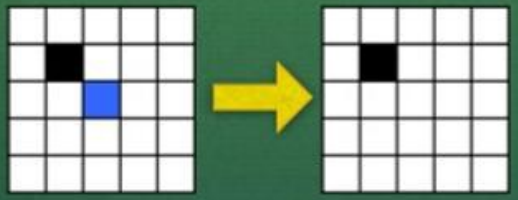




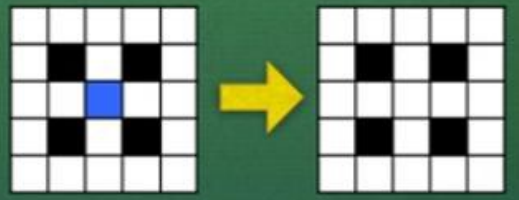


Basic Rules of Conway's Game of Life

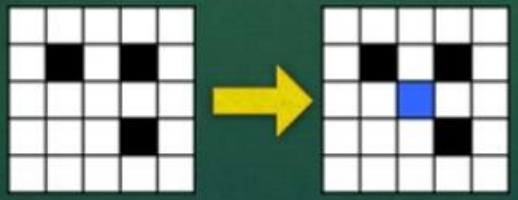
1. Living cells die if they have fewer than 2 neighbors (underpopulation/loneliness)



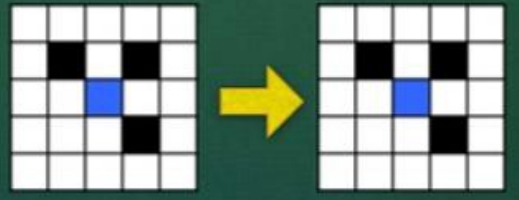
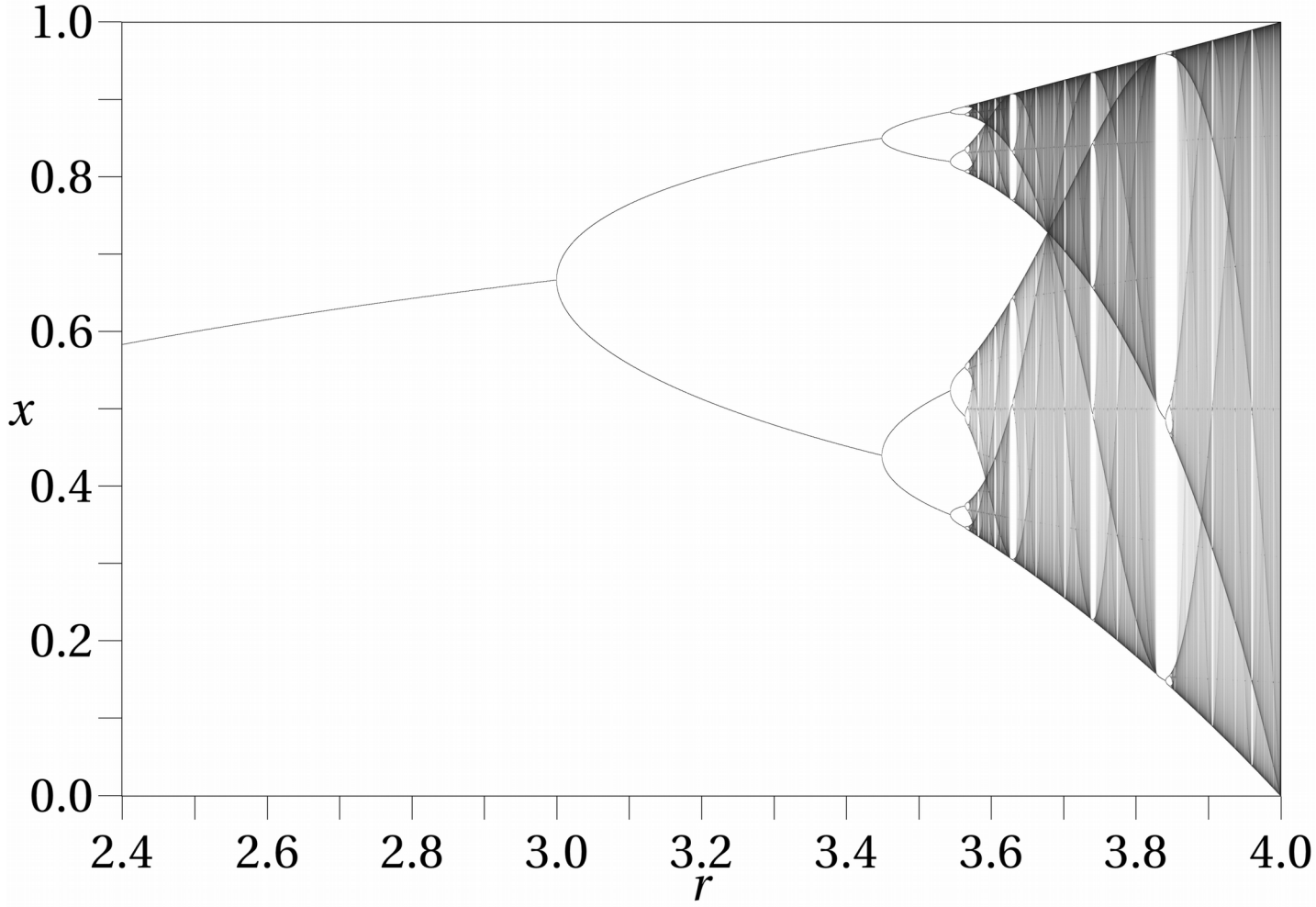
2. Living cells die if they have more than 3 neighbors (overpopulation)



3. Dead cells that have 3 neighbors become alive (reproduction)



4. Otherwise, there is no change (whether cell is alive or dead)



Logistic map (bifurcation diagram)