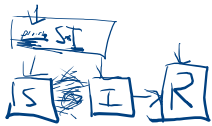
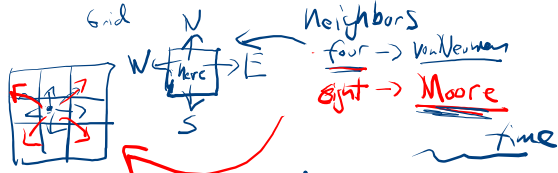


- diff eq \rightarrow rates of change \rightarrow population level \rightarrow Deterministic
- continuous \rightarrow

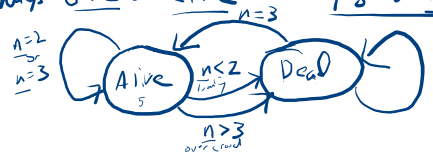


- Individual $\in L$
- Location / Environment / Space



Cellular Automata

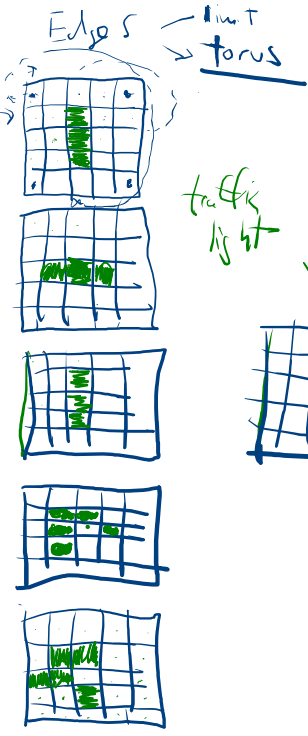
Conway's Game of Life



- update simultaneously

Make a copy
 plan what happens next
 over board moves

$t=0$
 $t=1$
 $t=2$



Edges \rightarrow limit \rightarrow torus

traffic light

