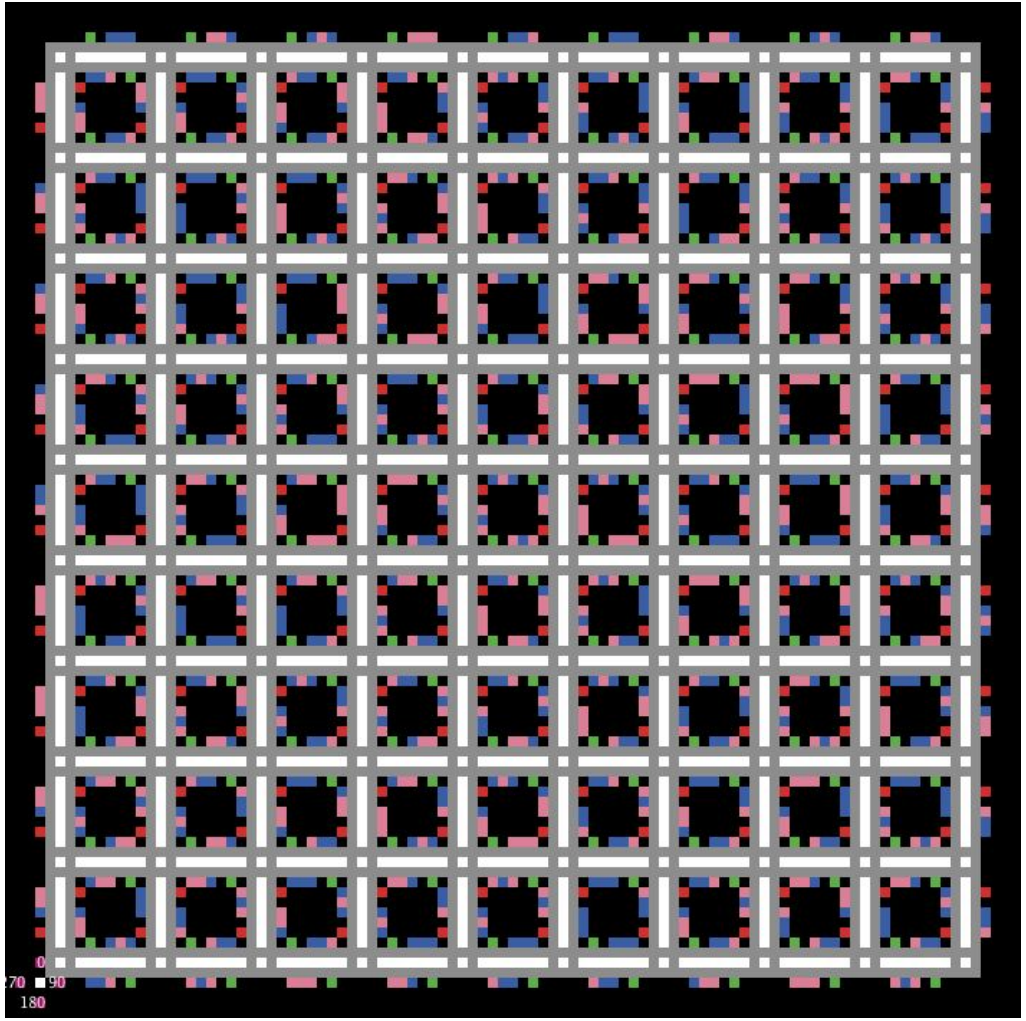
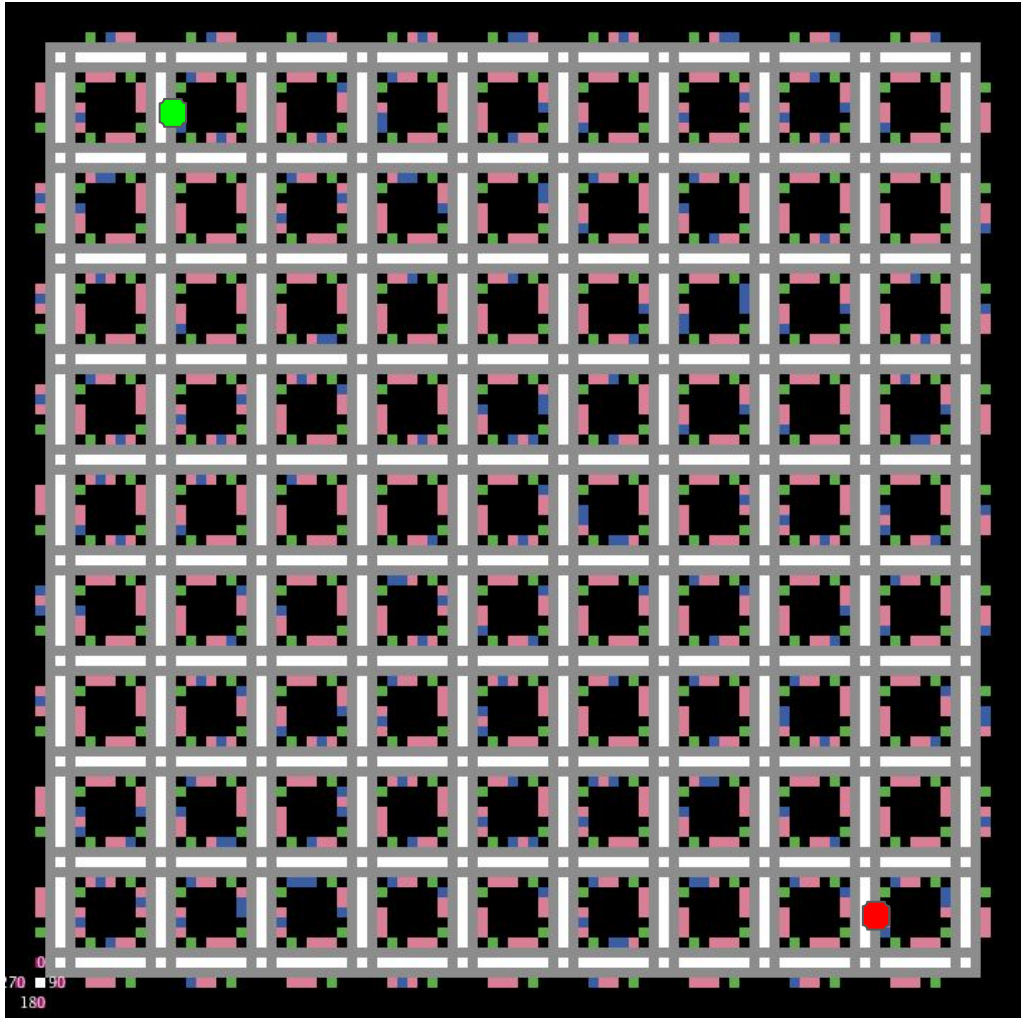
AI seminar

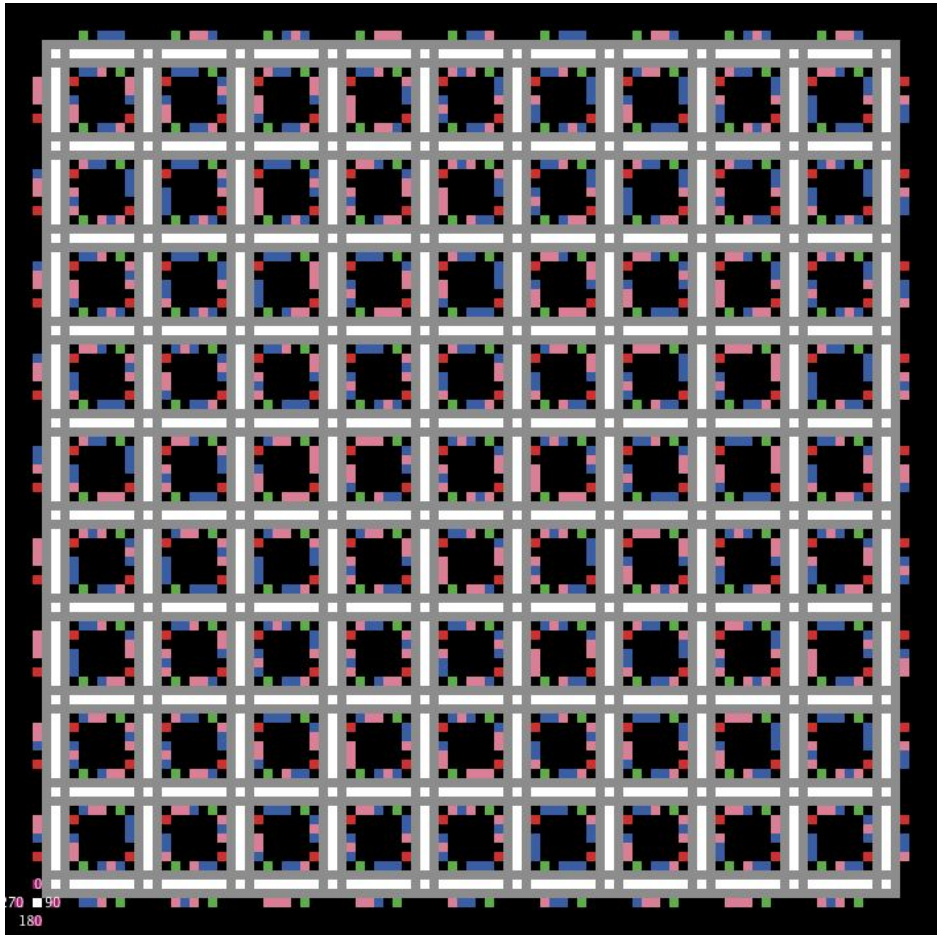
T3 - Jan Frauknecht - Semaphore (for now)


0
270
90
180


0
270 90
180

Driving Problems

- 4 cars on cross-road
- speed
- how about city limits?
- ...



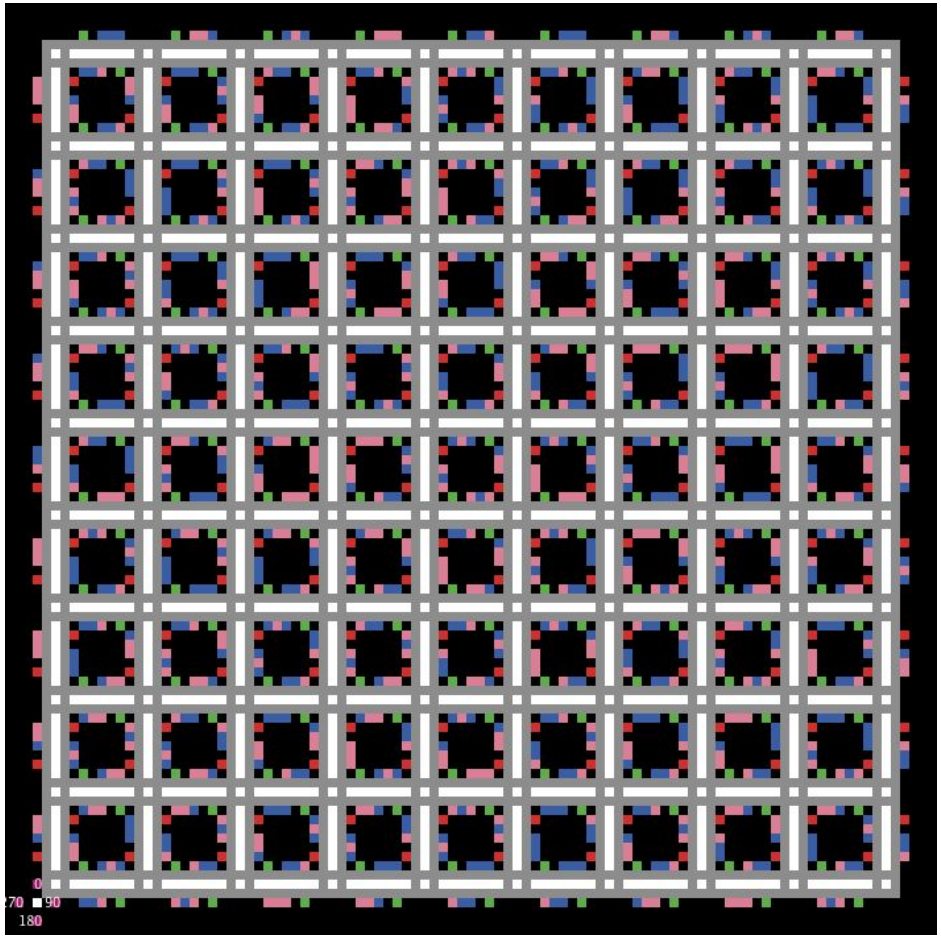
Semaphor solutions

decide red/green based on

- nr of waiting cars.
- nr of coming cars.
- communication with neighbor.
- ask neighbour to hold the traffic.

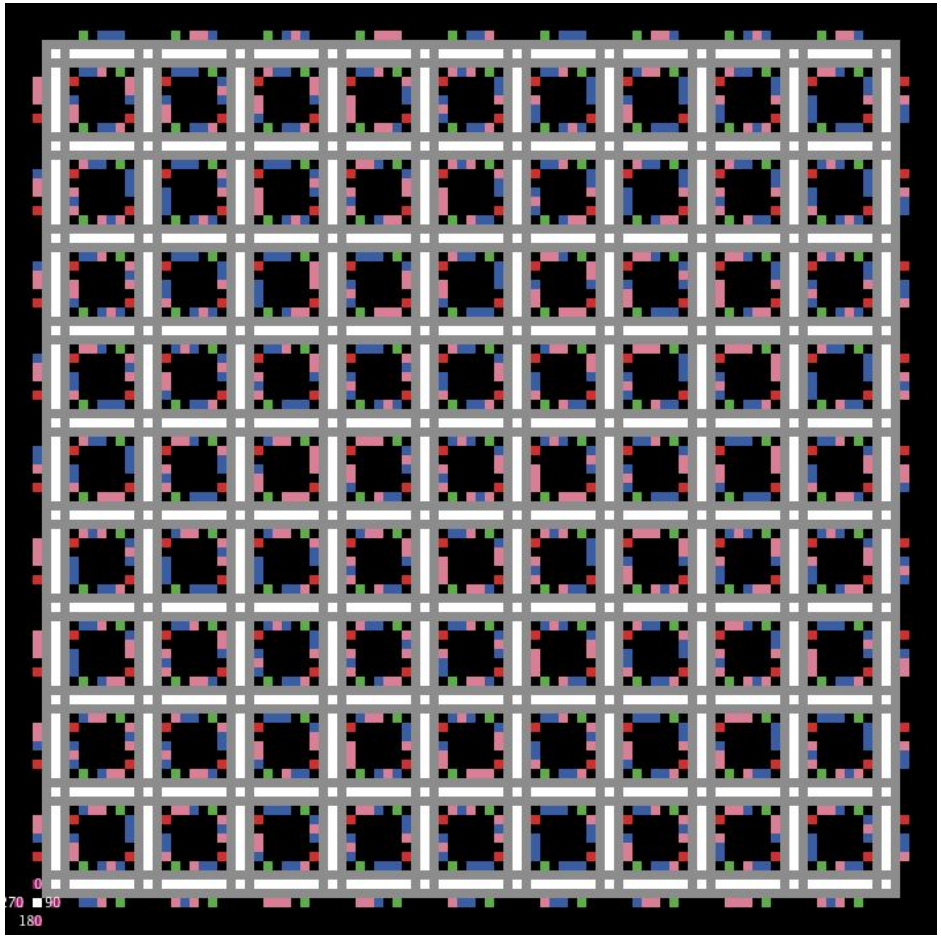
how to run this?

- patches
  - every one / every cossroad



Possible Patch Updates

- update max speed of roads to prevent jams.
- forbid cars to get to the jammed areas



how about robots?

- if full graph - no problem (planning)
- if can go around each other - no problem (one way roads)
  - or maybe can transfer infos between two blocking robots?
- semaphors
  - if synchronised (all move in the same timespan) - no problem
  - if communicating and dealing with a jams - no idea!
    - semaphor might be ozobot again
    - is there another piece of equipment to use?