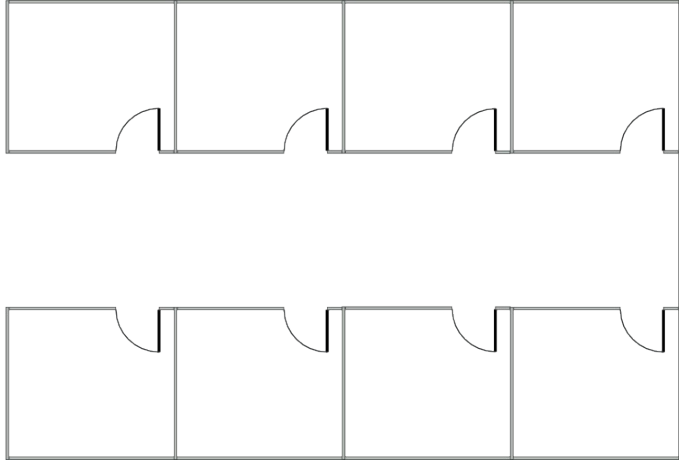


# Mobile Robots and Autonomous Vehicles

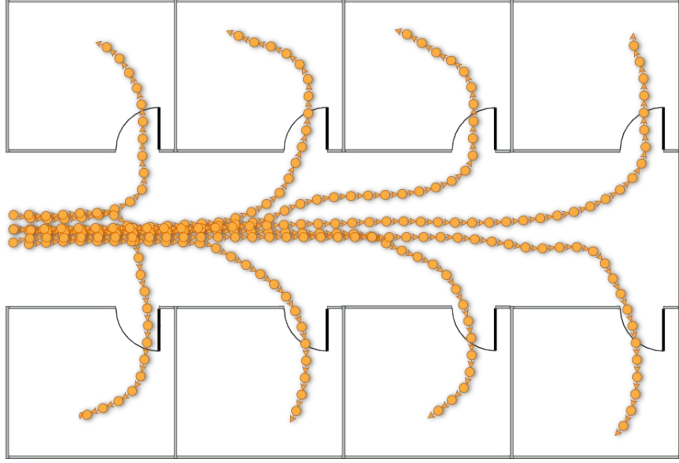
## Week 5: Behavior Modeling and Learning

- Typical trajectories: drawbacks

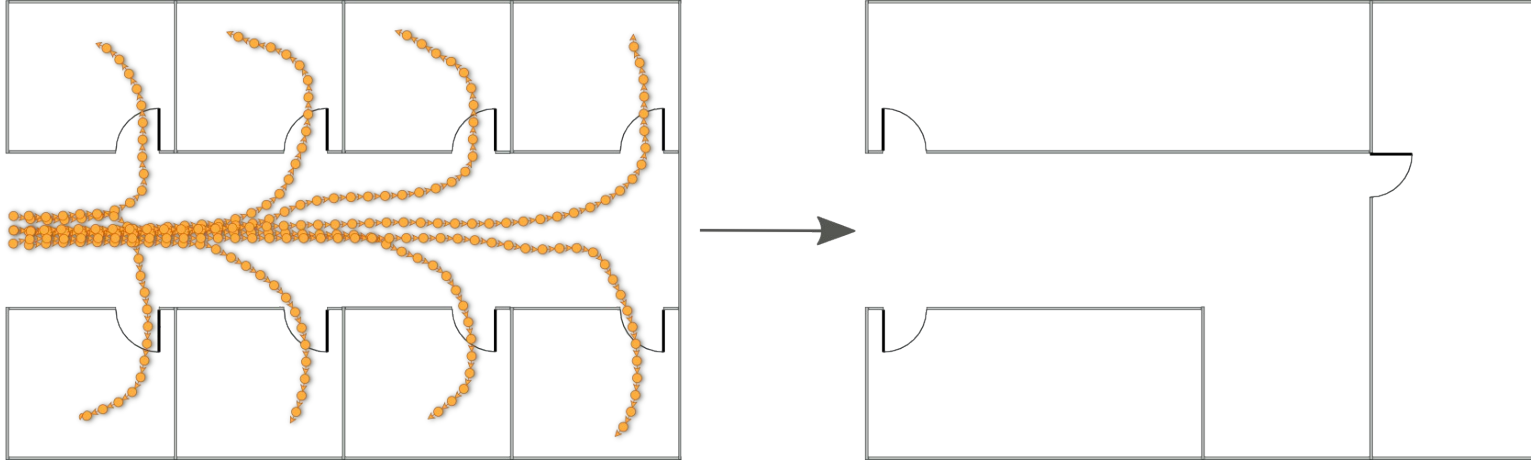
# Problems: lack of generality



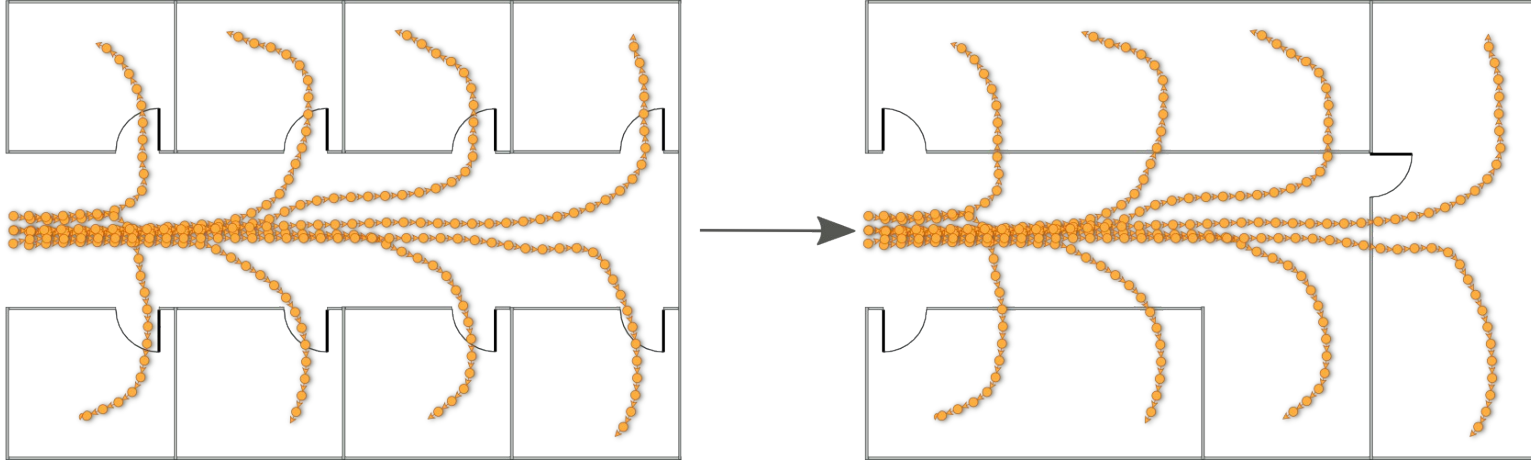
# Problems: lack of generality



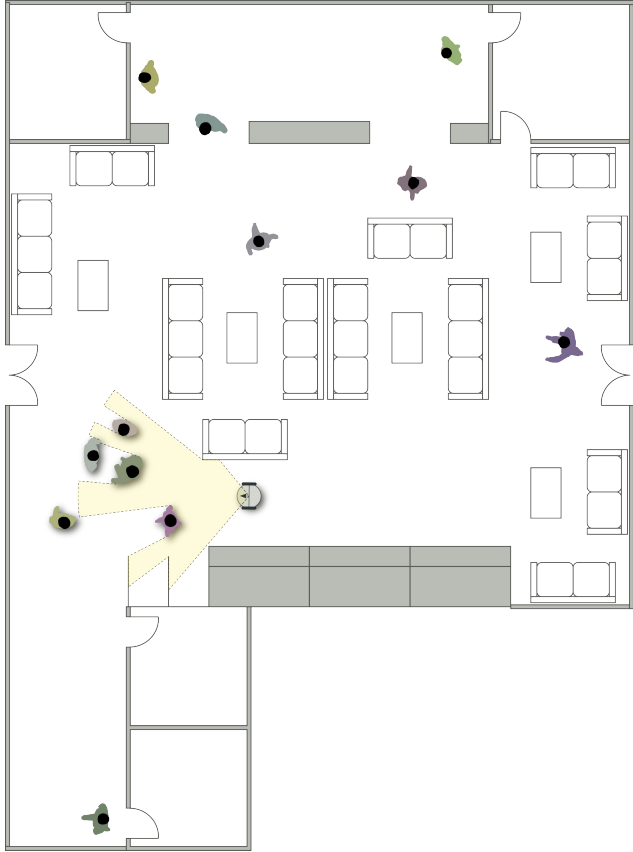
# Problems: lack of generality



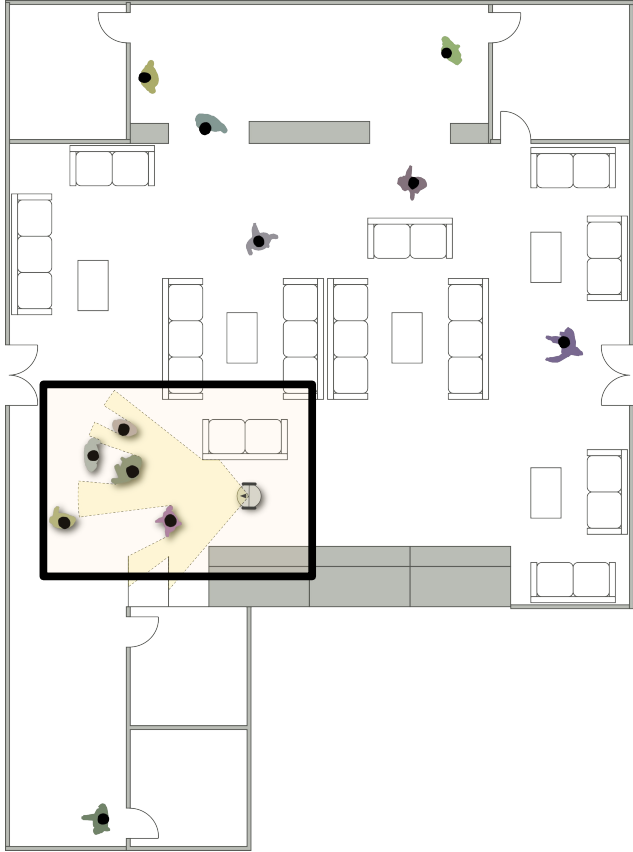
# Problems: lack of generality



# Problems: dependence on off-board sensors



# Problems: dependence on off-board sensors

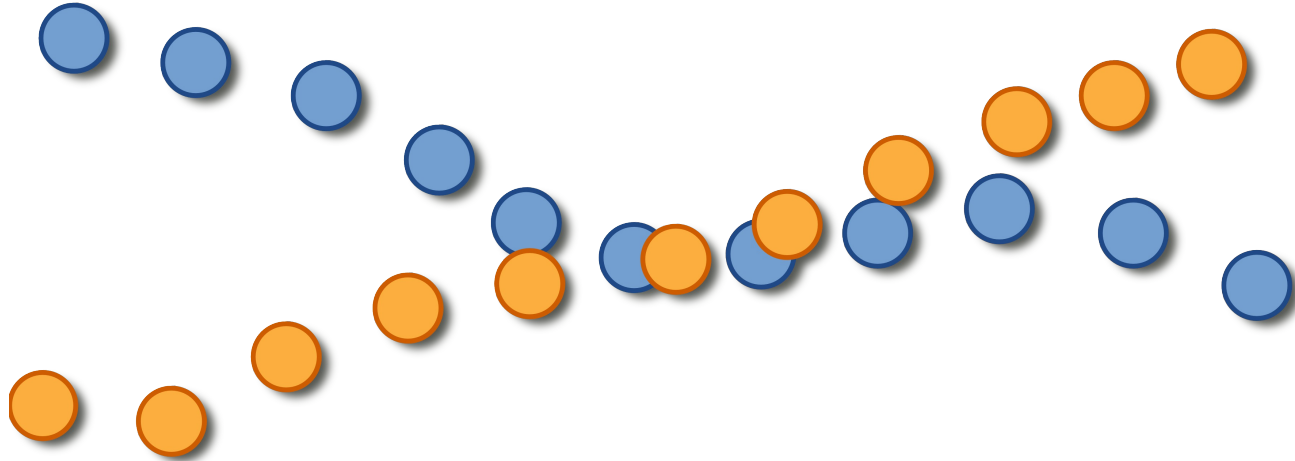


# Problems: dependence on off-board sensors

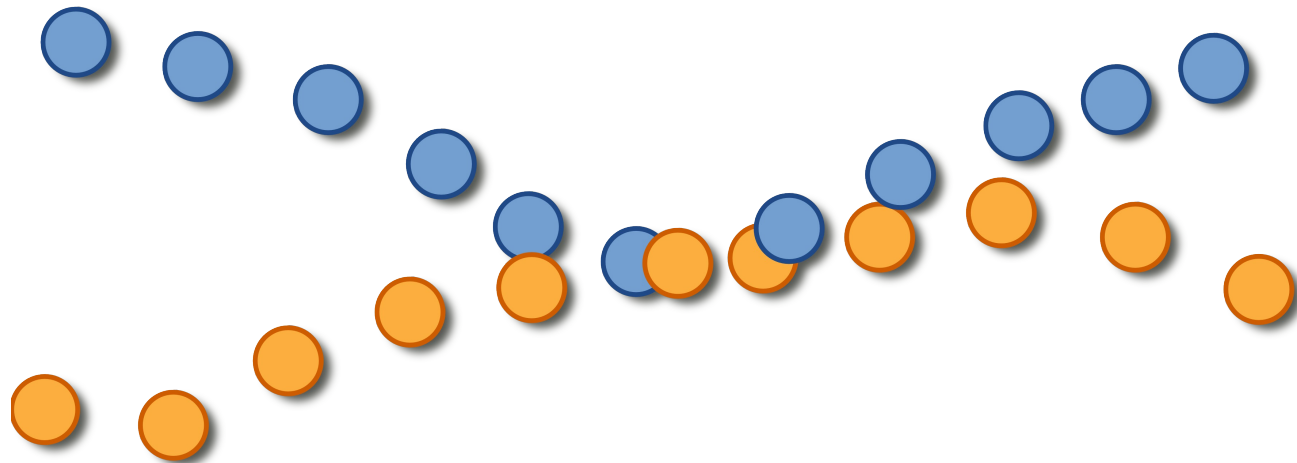




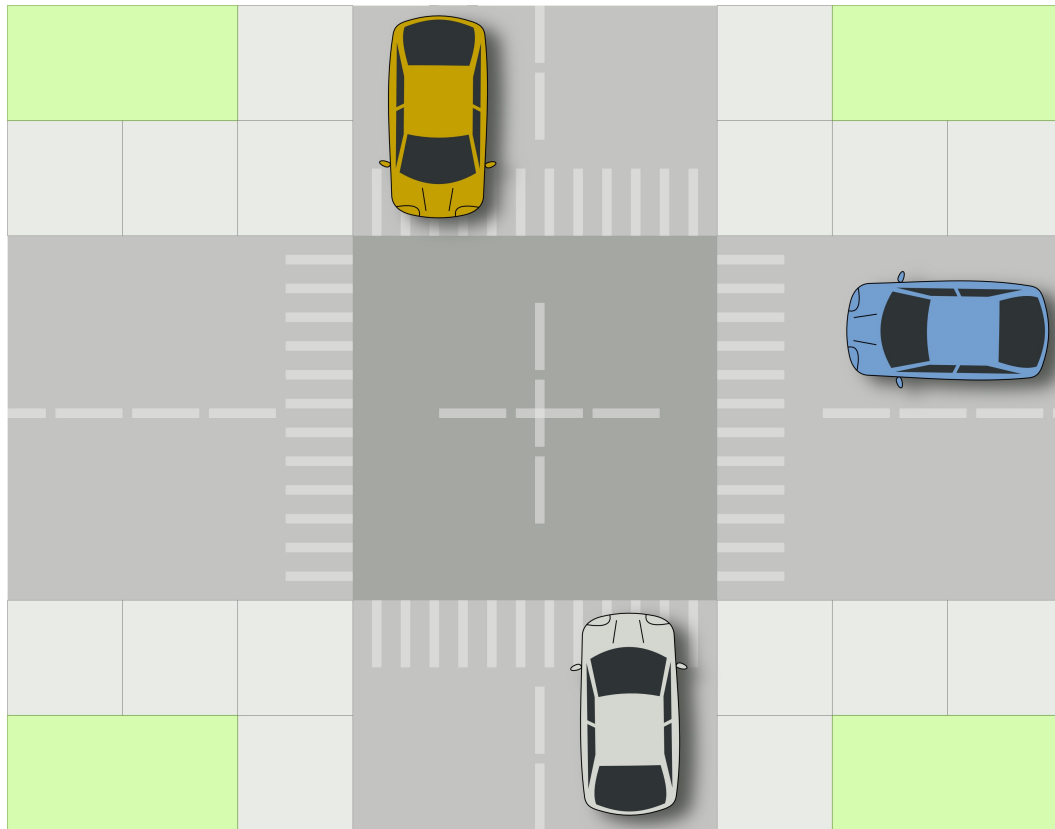
# Problems: dependence on robust tracking



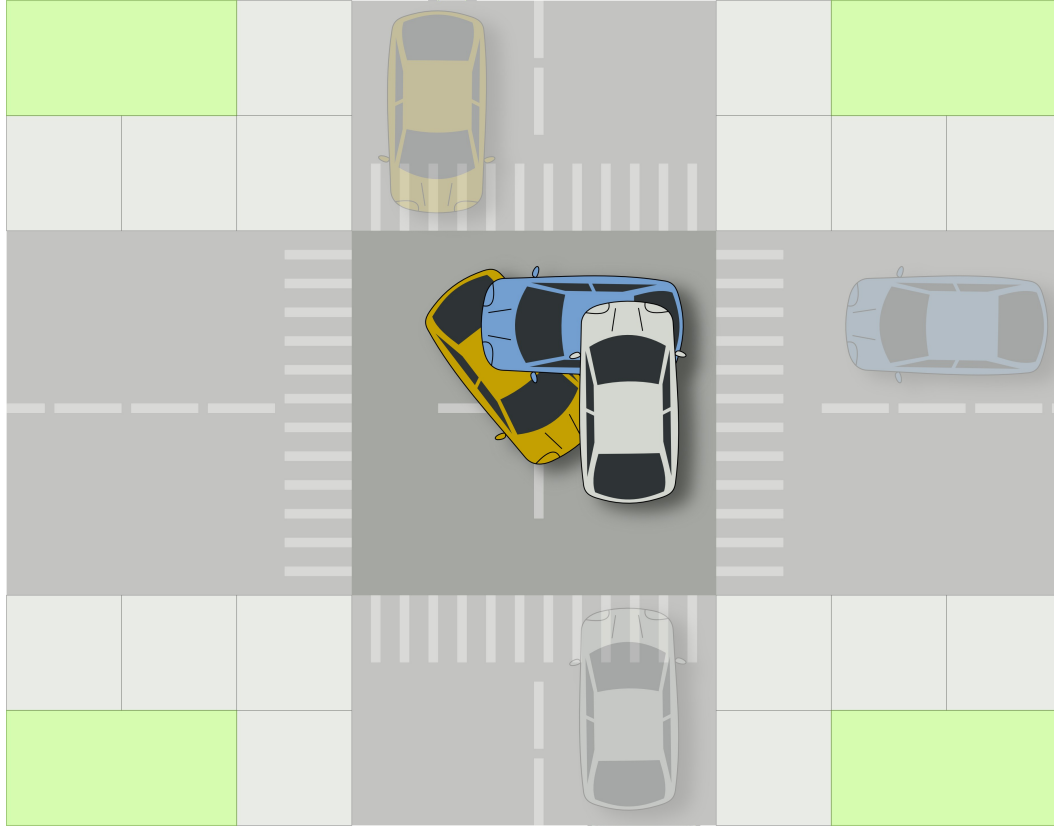
# Problems: dependence on robust tracking



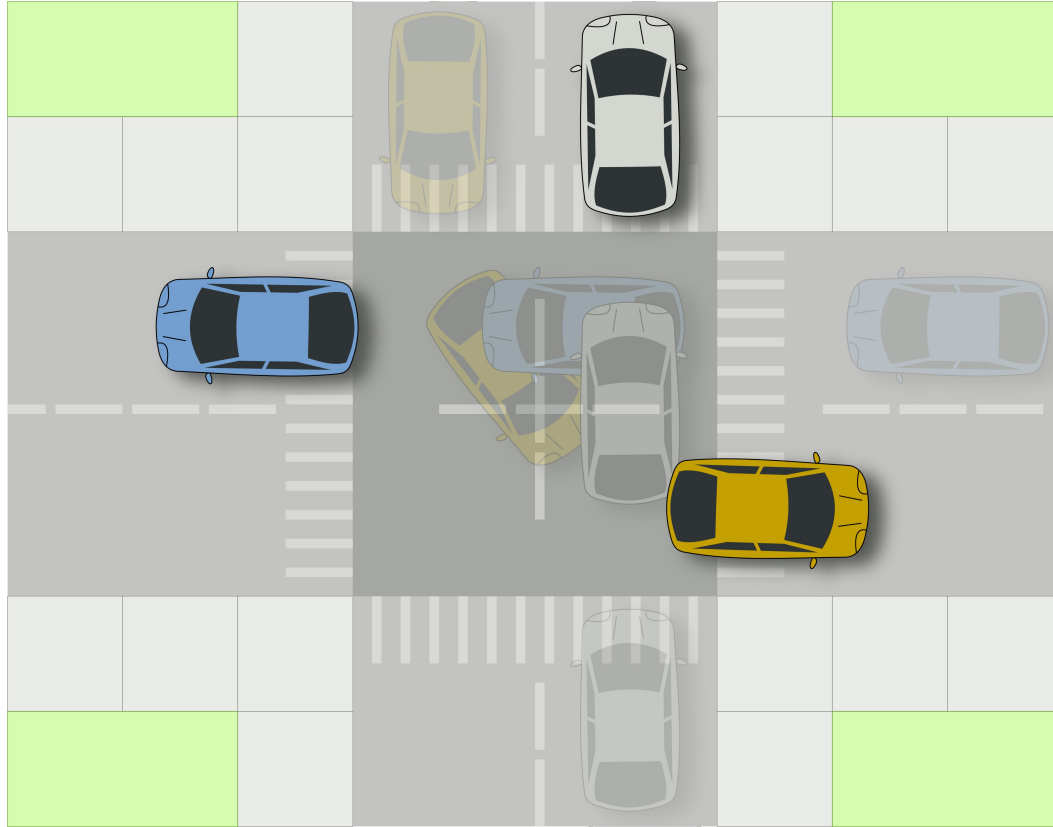
# Problems: do not model interaction



# Problems: do not model interaction



# Problems: do not model interaction



# What to do?

- Integrate prior knowledge (e.g. maps)
- Semantics (e.g. kind of place, affordances)
- Situation-anchored representations
- Two alternatives:
  - Social models (e.g. social forces)
  - Planning-based approaches