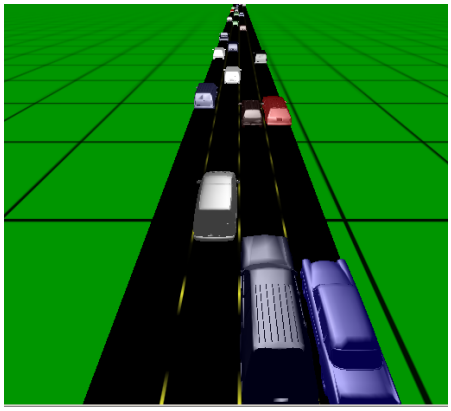
Flocking for Modeling Driving Behaviors

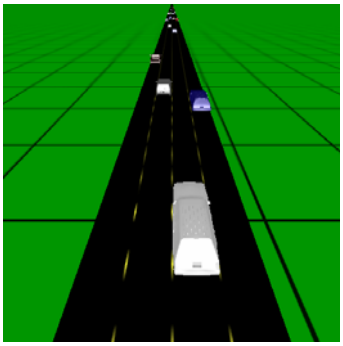
Jessica McGregor and Mike Bailey
mcgregoj@onid.oregonstate.edu and mjb@cs.oregonstate.edu

Purpose: This application is using "flocking" behavior as a means to simulate automobile driver behavior in traffic. The goal is to create a 100+ automobile community exhibiting a plausible-looking set of driving interactions.

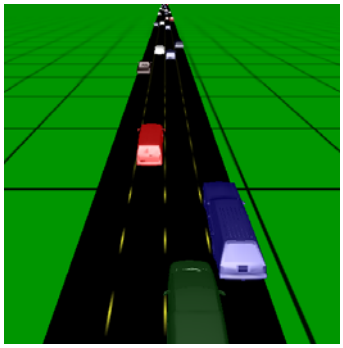
View from Inside the Car



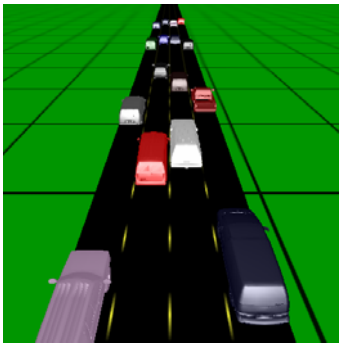
View from Outside the Car



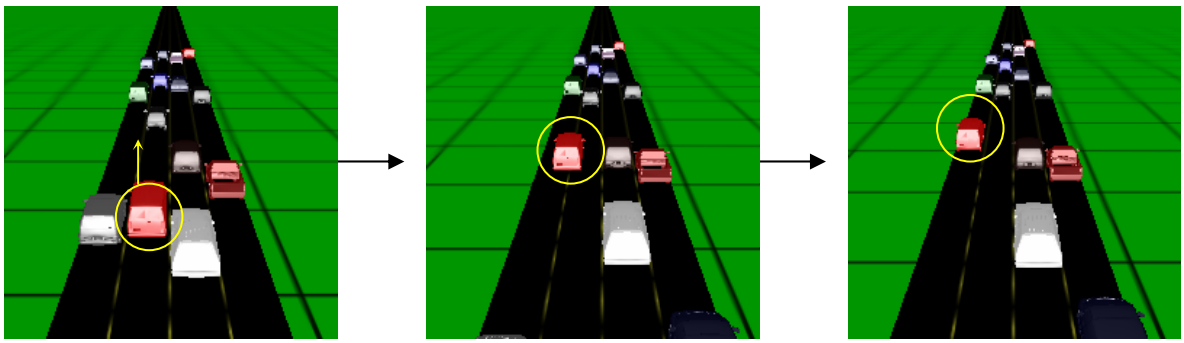
Safe Stopping Distance



Half of Safe Distance



Closest-to-Personally-Observed Distance



Passing behavior

September 28, 2006