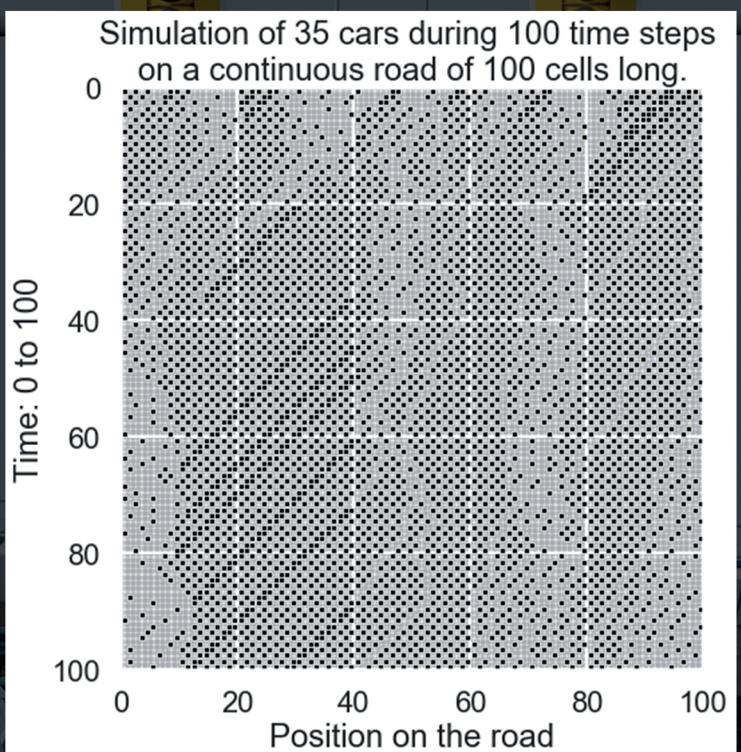
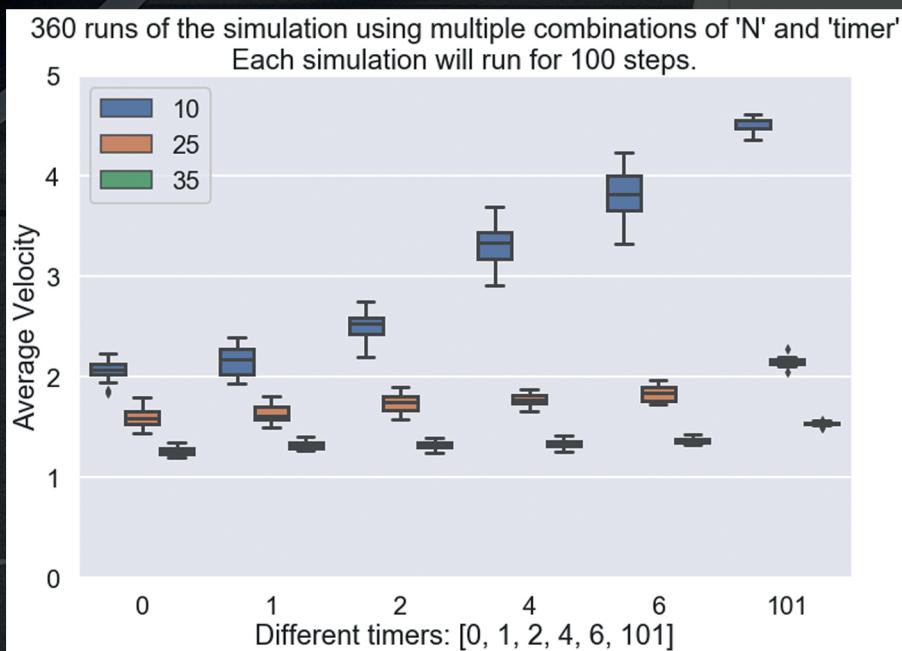


# Touring Machines

*With world poverty rates declining and access to private transportation methods increasing, road congestion is an ever-growing problem. Using the conducted experiment, we attempted to answer the following question: How does a traffic light on an on ramp and its timing affect throughput on a highway? In order to do this, we implemented and altered the Nagel-Schreckenberg congestion model.*



*Increasing the timer duration of the traffic light showed a positive effect on the throughput of the main road. Increasing the timer duration also caused the buildup of a large queue on the on ramp. Further research may focus on not only congestion on the highway, but also that of the on ramp. Finding the right balance between the two will hopefully improve throughput for the road network as a whole.*



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