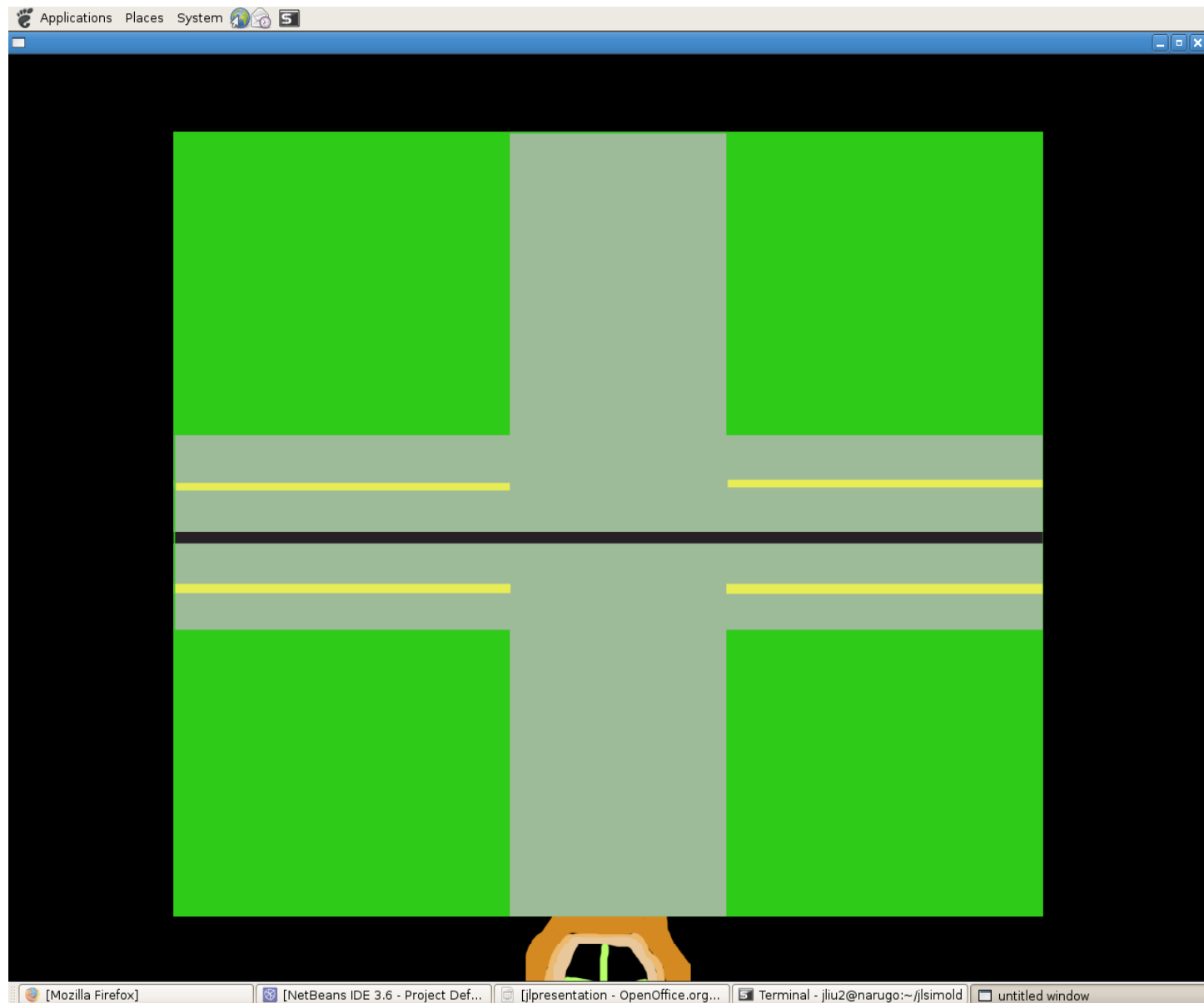
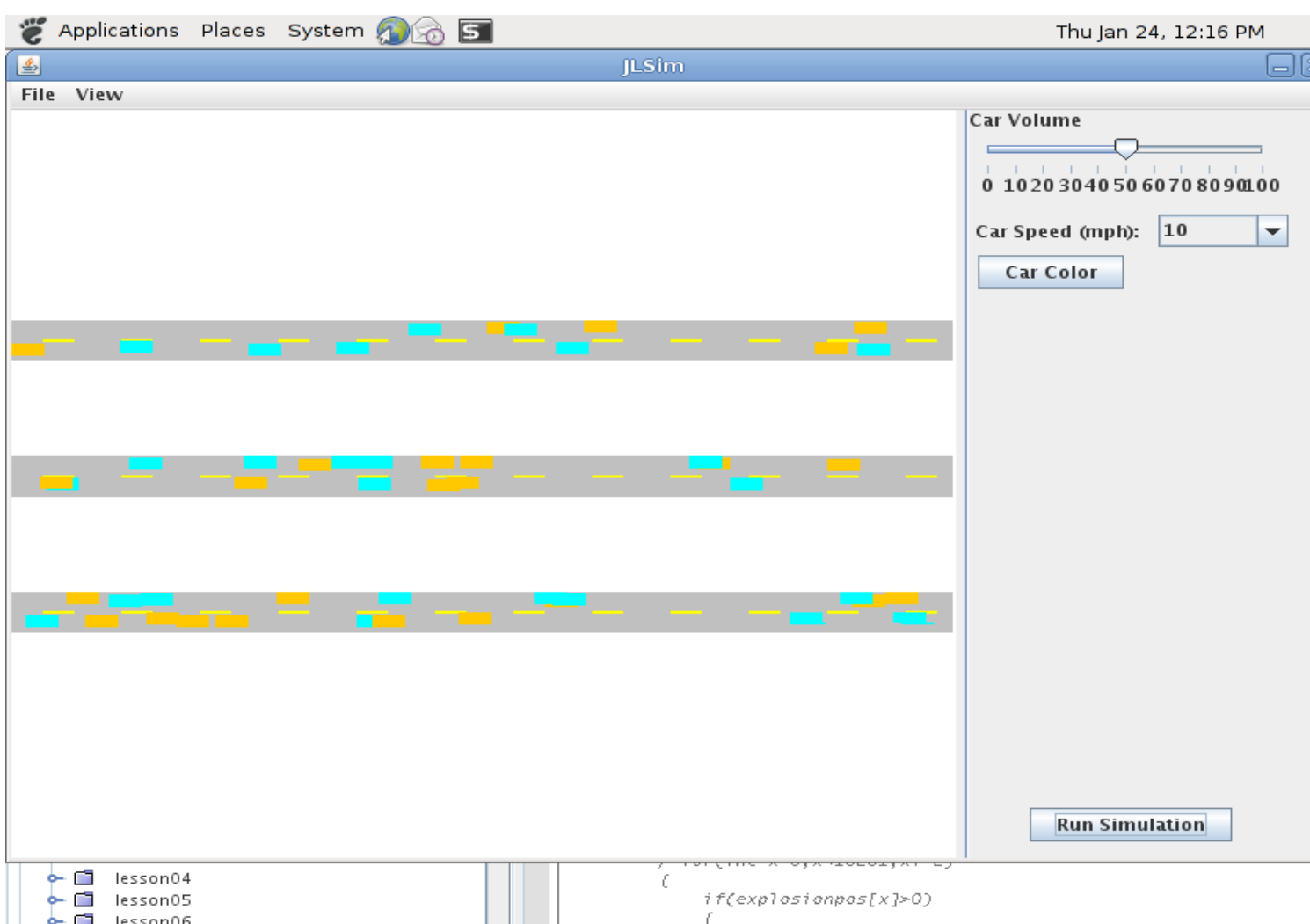


# JLSim: Visual Traffic Simulation Application with Extensive User Interface

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Initial Prototype  
(C/OpenGL [1<sup>st</sup> Quarter])



Second Prototype  
(Java) [2<sup>nd</sup> Quarter]

## Expected Results:

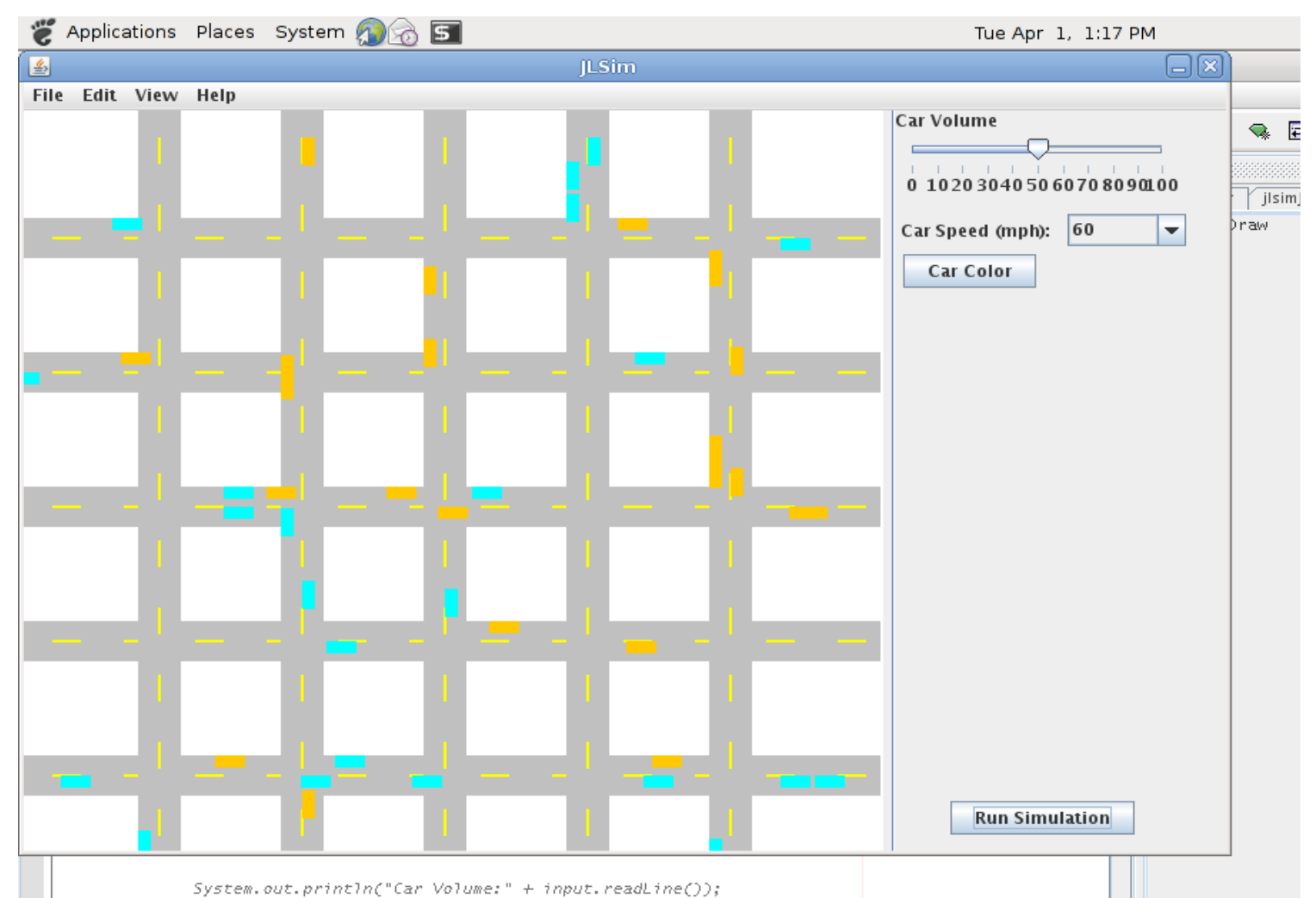
- Realistic simulation of real world traffic behavior.
- Extensive user interface to change program variables and design road networks.
- Crash analysis with independent probability calculations.(tentative)
- Design mode for developing road networks.(tentative)

## Abstract:

The primary goal of JLSim is to provide high customizability on the user-end. Many web applets have decent traffic simulations, but they offer minimal user interaction. The other primary goal is to provide an accurate simulation that reflects similarly to what would actually happen in the real world.

## Background/Specification:

Written in Java, this application will use the Java swing class to implement to user interface. The program will be divided into two halves, the left half being the visual part of the simulation and the right part being the extensive user interface where users can change program variables such as number of cars and traffic light length. (basic layout seen in screenshots)



3<sup>rd</sup> Quarter Prototype