Visualizing AV Data with CesiumJS

Andrew Best
Research Scientist, Driving Simulations
TRI at a glance

Established: January 2016

Initial Budget: $1B over five years

Locations: Los Altos CA, Ann Arbor MI, Cambridge MA

Online: www.tri.global

Hiring!: www.tri.global/careers/
TRI's Mission

*Improve the quality of human life through advances in artificial intelligence, automated driving, and robotics*

Help Toyota produce cars in the future that are safer, more accessible and more environmentally friendly.

Develop robotics technology to allow people to extend their independence at home, offering freedom of movement and help with performing simple tasks.

Applying AI to accelerate scientific discovery of advanced materials for future mobility.
TRI Driving Simulation

Manage the virtual worlds around the vehicle

- Environments
- Agent behavior
- Sensor spoofing

Different tools for different uses:

- Generate training and test datasets for Machine Learning / Perception
- Algorithm development and testing
- Continuous Integration testing
- Vehicle log data visualization and troubleshooting
TRI Web Tooling

Today I will discuss:

Cloud-based log viewer for replaying vehicle log data

Data-collection/Analysis tool for aggregating and displaying map feature data

Scenario-creation tool for generating arbitrary scenarios
Vehicle Log Visualization Tooling
Data-collection Analysis Tooling
Scenario-creation Tooling
Thank you!

andrew.best@tri.global