

Tesla AI Day | August 2021



Lex Fridman @lexfridman · 12h



Tesla AI day presented the most amazing real-world AI & engineering effort I have ever seen in my life.



350



1.7K



18.6K



- Neural network - vector space, fusion, time, planning
- Autopilot - compute hardware for inference
- DOJO - compute hardware for training
- Data & annotation - 4D labeling, auto-labeling
- Simulation - edge cases, complex scenes
- Tesla Bot - general robotics perception & planning

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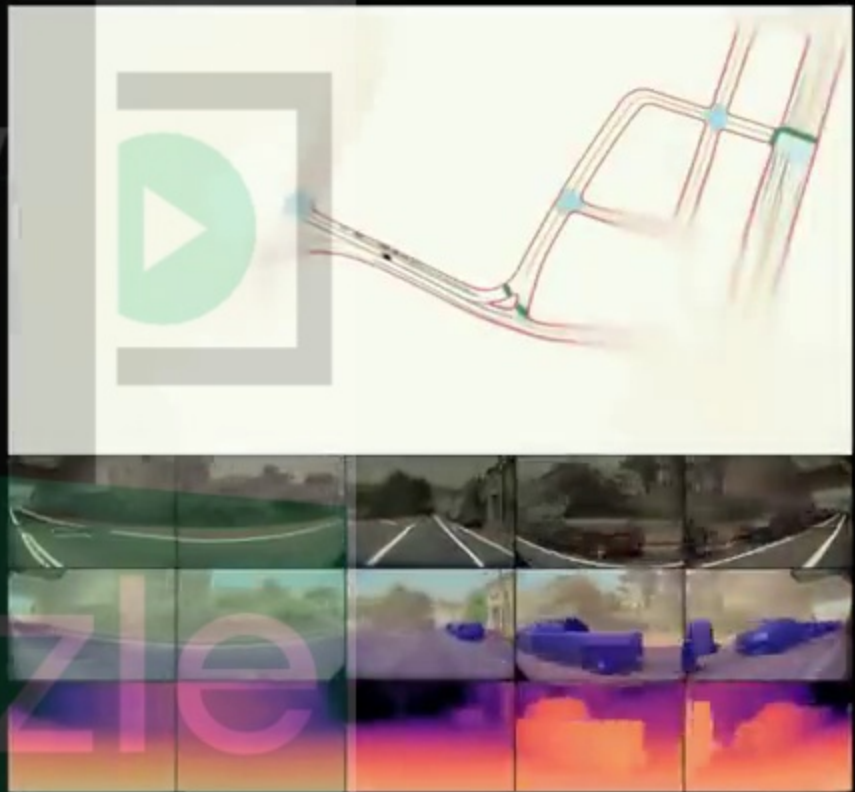
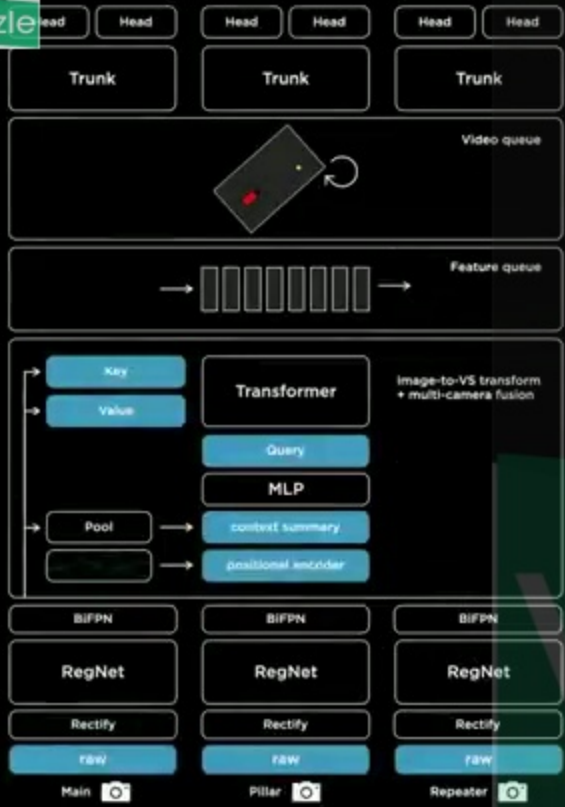


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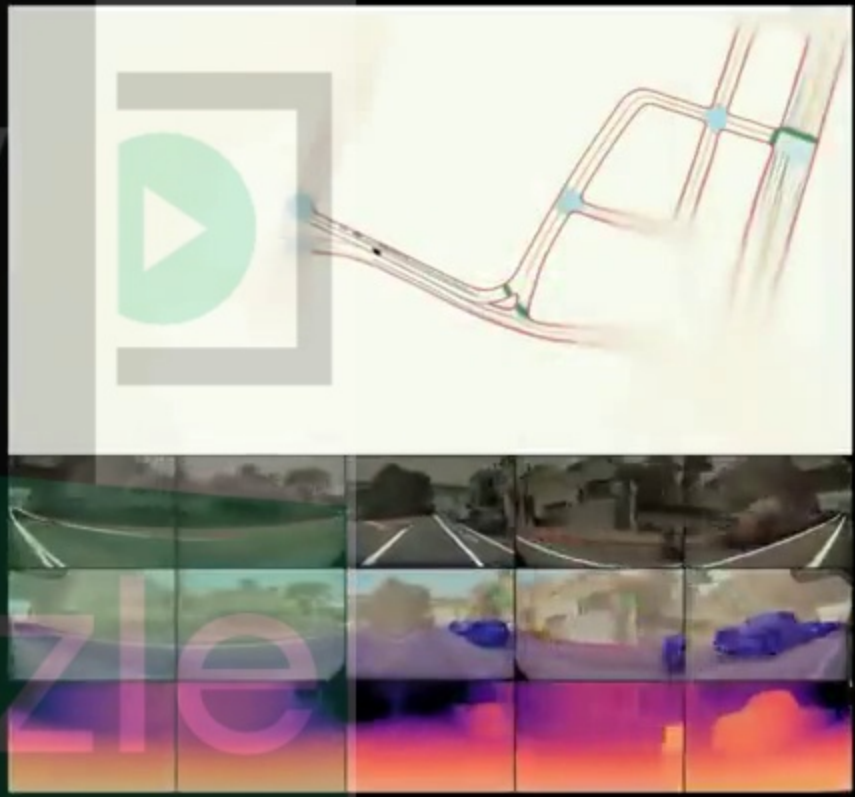
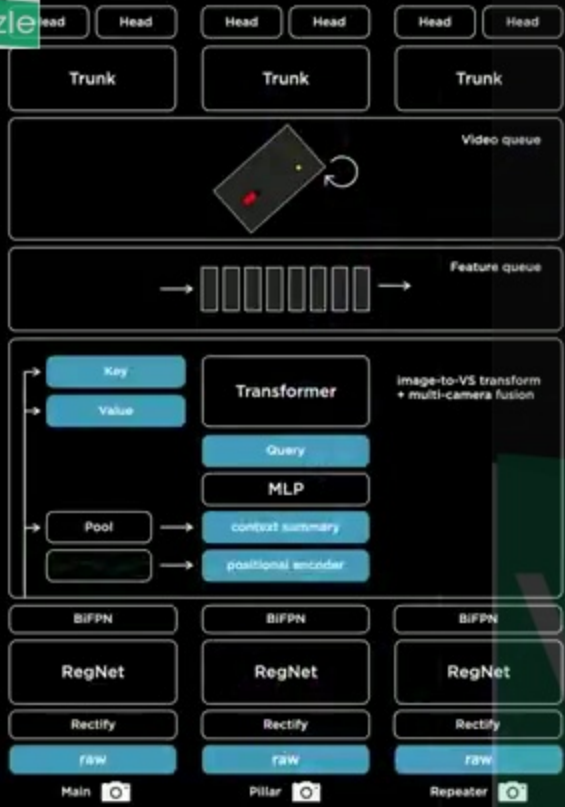
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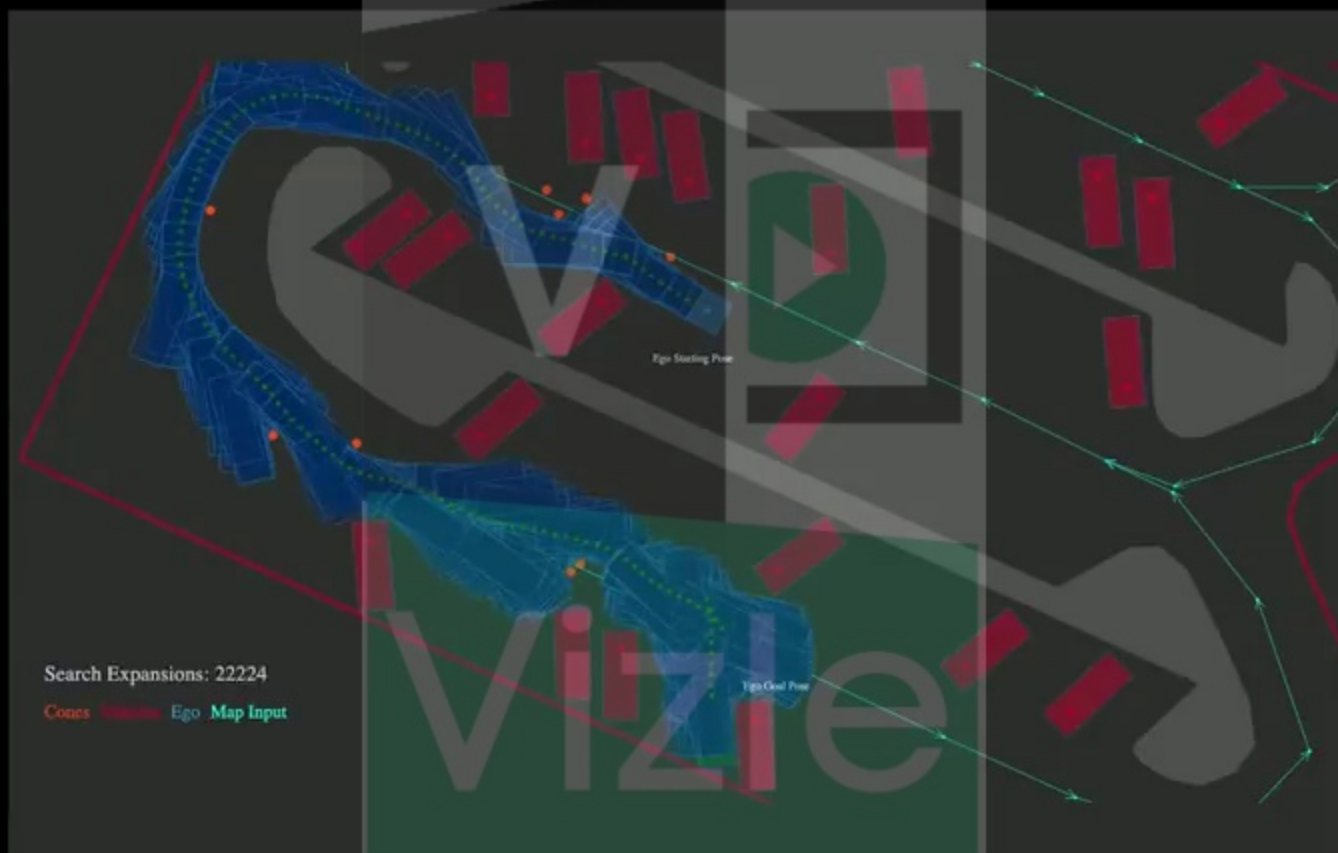
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Spatial RNN: Feature Channel Visualization

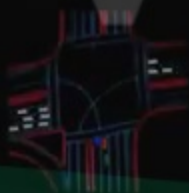






The Final Architecture

Vector Space



Explicit
Planning &
Control

Trajectory
Distribution

Steering
& Accel



Vision



Intermediate
Features

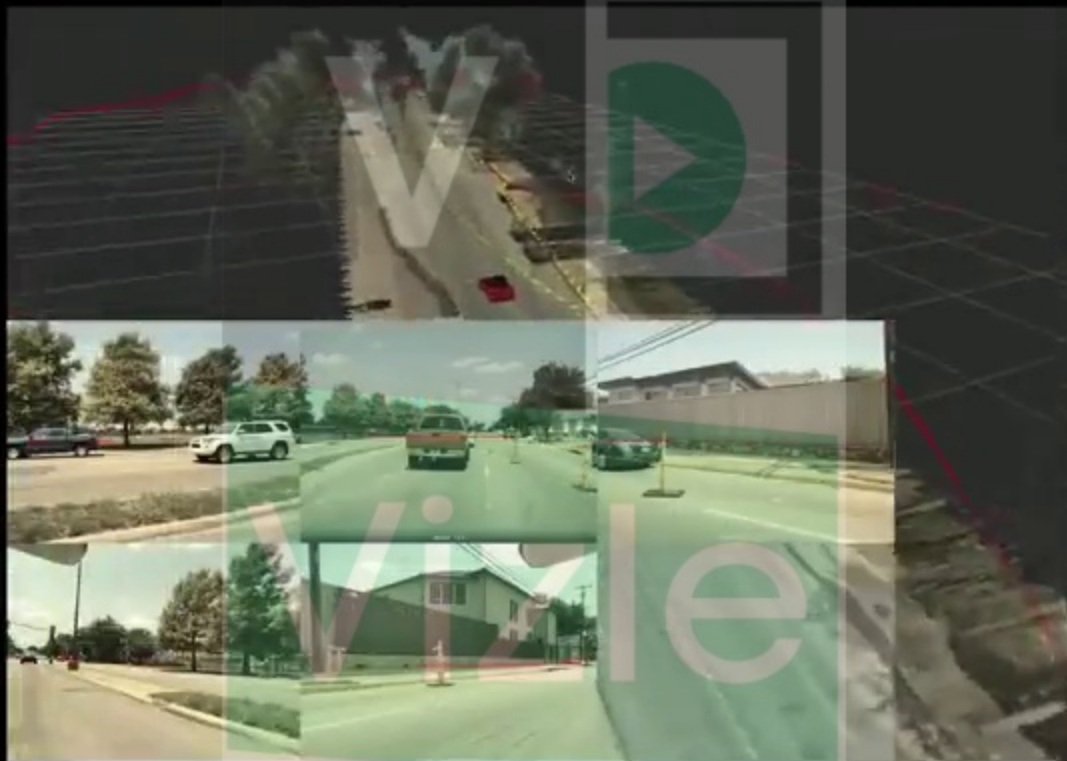
Neural Net
Planner





4D Space + Time Labeling

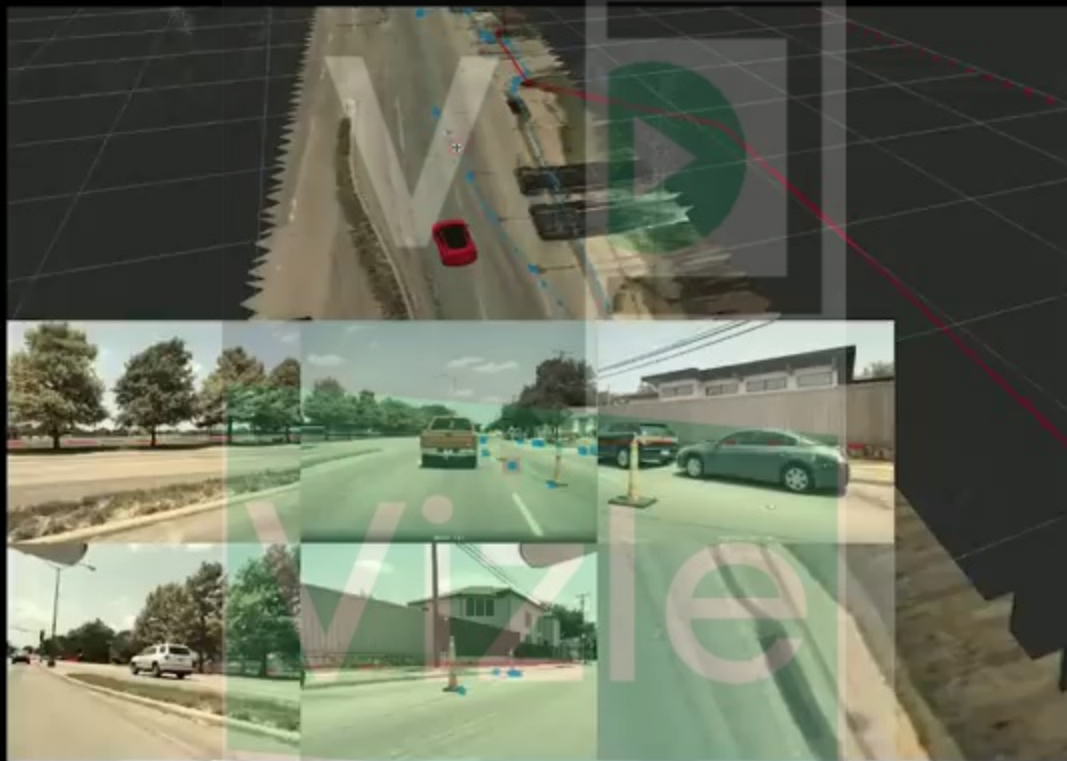
Label Once, Simultaneously Labels All Cameras at Many Frames





4D Space + Time Labeling

Label Once, Simultaneously Labels All Cameras at Many Frames



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