Parking Analysis via Image Processing

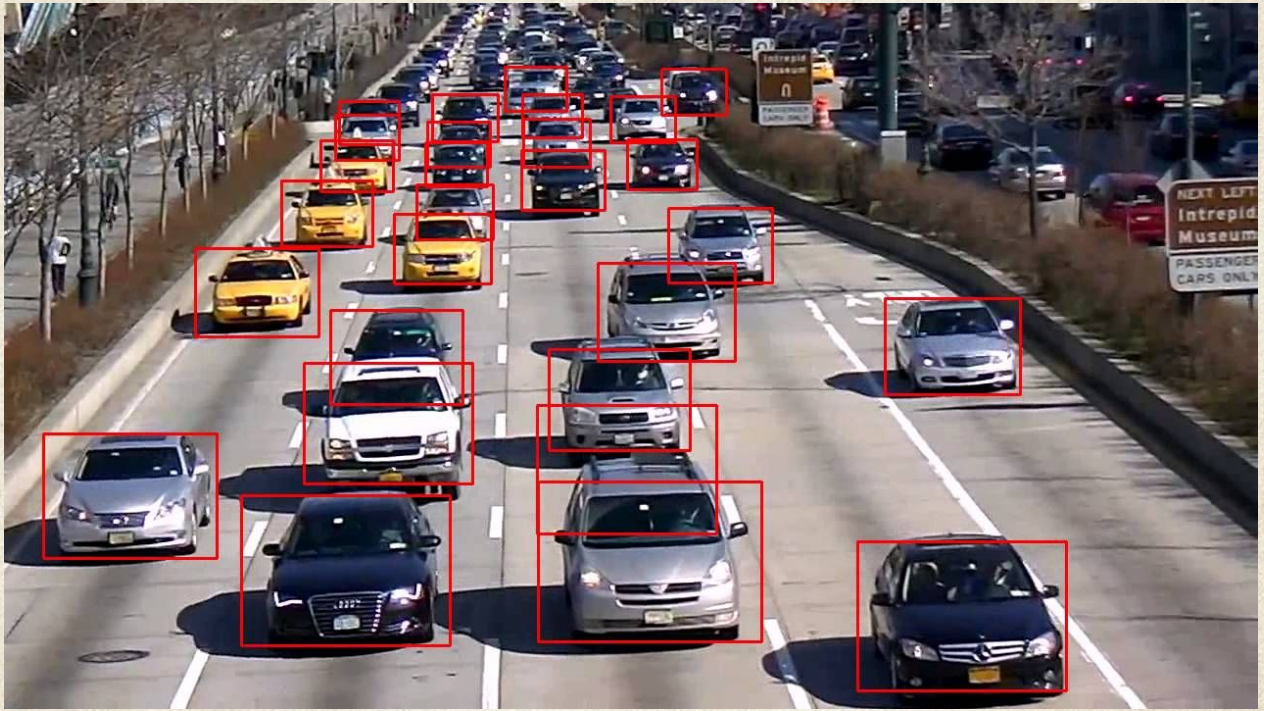
Presented by

Wi-Fight It

Phase Breakdown	Timeline
I. Proof of Concept	(Sept.-Oct.)
II. Program Implementation	(Nov.-Dec.)
III. Online Interface for Users	(Jan.-Feb.)
IV. Predictive Models	(Mar.-May)

Phase I: Proof of Concept

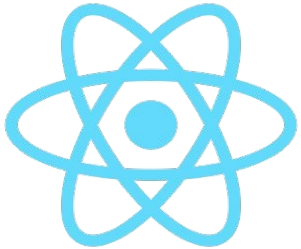
- Testing phase with test footage
- Initial Frameworks
  - Raspberry Pi with a Wifi card
  - OpenCV
- Recursive methodology as we search for functional combination

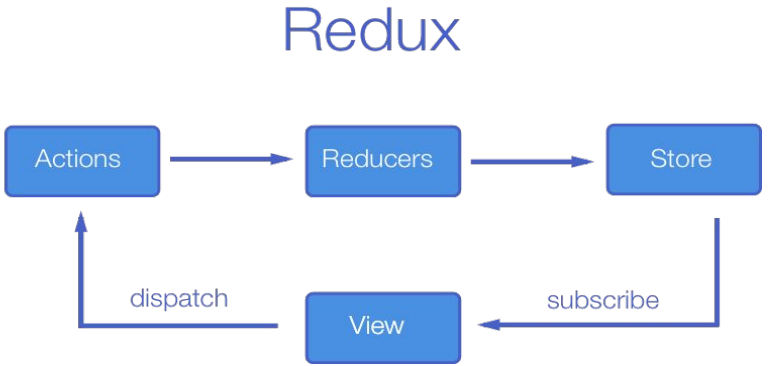

Intrepid
Museum
NEXT LEFT
Intrepid
Museum
PASSENGER
CARS ONLY

Phase 2: Program Implementation

Phase 3: Online Interface for Users

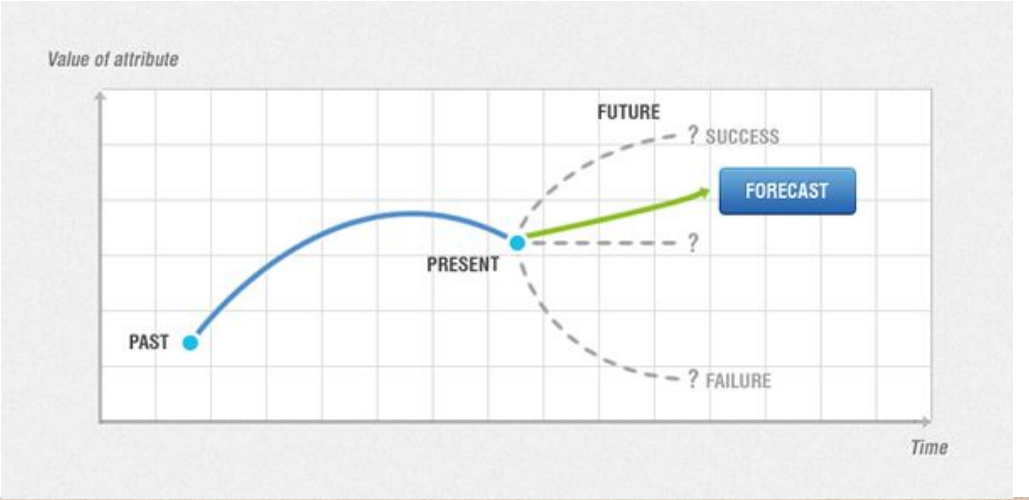
- Web Application
  - React with Modern Redux
  - Redux uses a global store for the application's state, which you can interact with by sending actions.





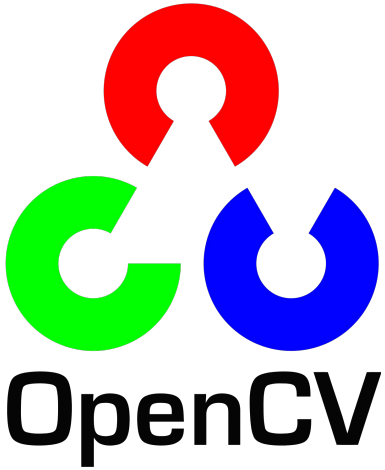
Phase 4: Predictive Modeling

- Forecast Model
  - Time based occupancy
  - Direction based movement



Software

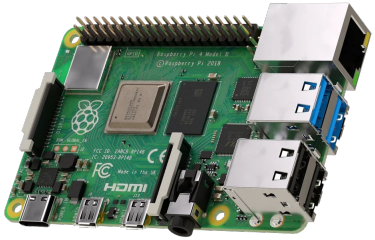
Back End



Front End

Hardware

Raspberry Pi



Jetson Nano

Thanks for listening!

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