# Automobile Detection and Classification Through the Use of Computer Vision Techniques

First Quarter Report Drew Stebbins, Pd. 3

# Background and reasoning:

- Existing license plate tracking technology
- Need for specific vehicle detection

### Problem statement:

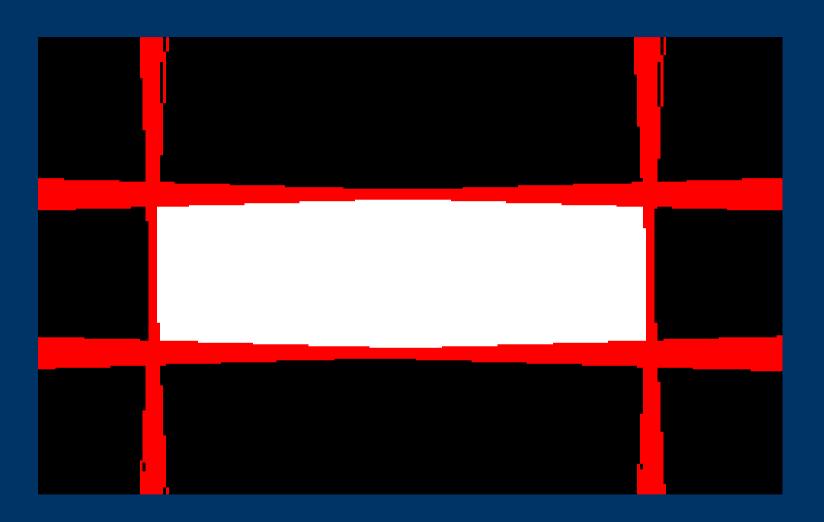
- Object isolation
  - -Complicated by noise
- Feature identification
  - -Colour, size, shape...
- Matching
  - -Compare identifying qualities against database of automobile profiles

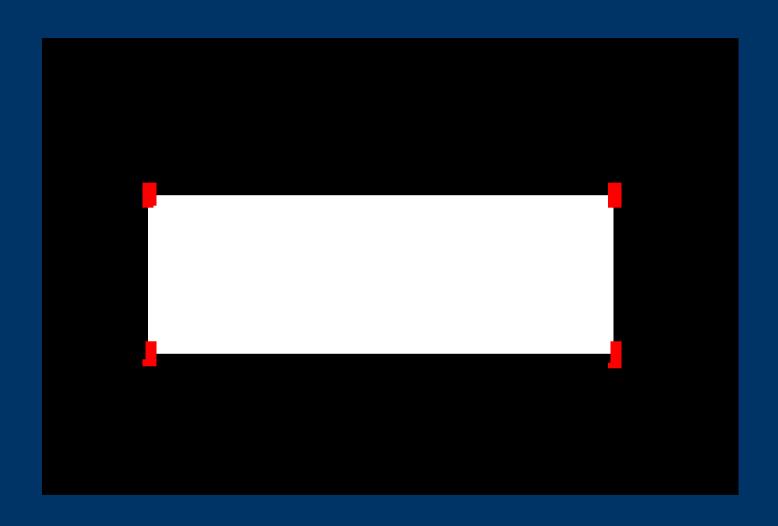
## Progress:

- Object Isolation
  - -Block grouping, color categorization
- Feature Identification
  - -Edge detection, line detection (Hough transform)
- Matching
  - -Construction of testing database



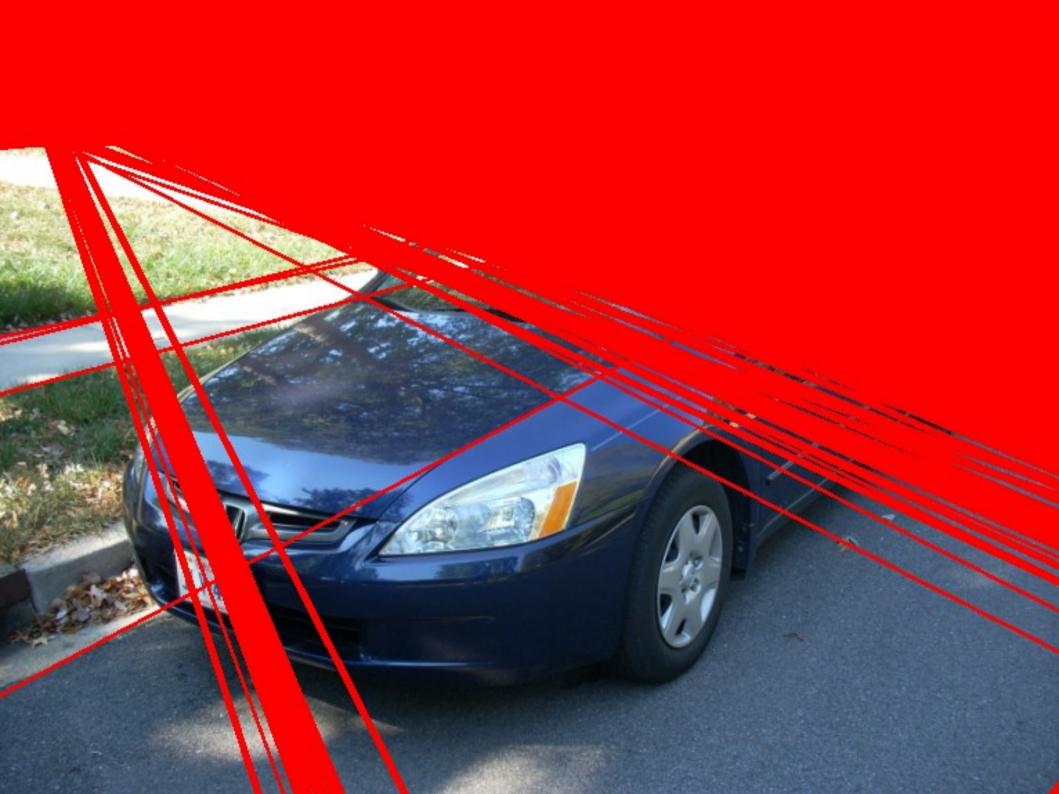


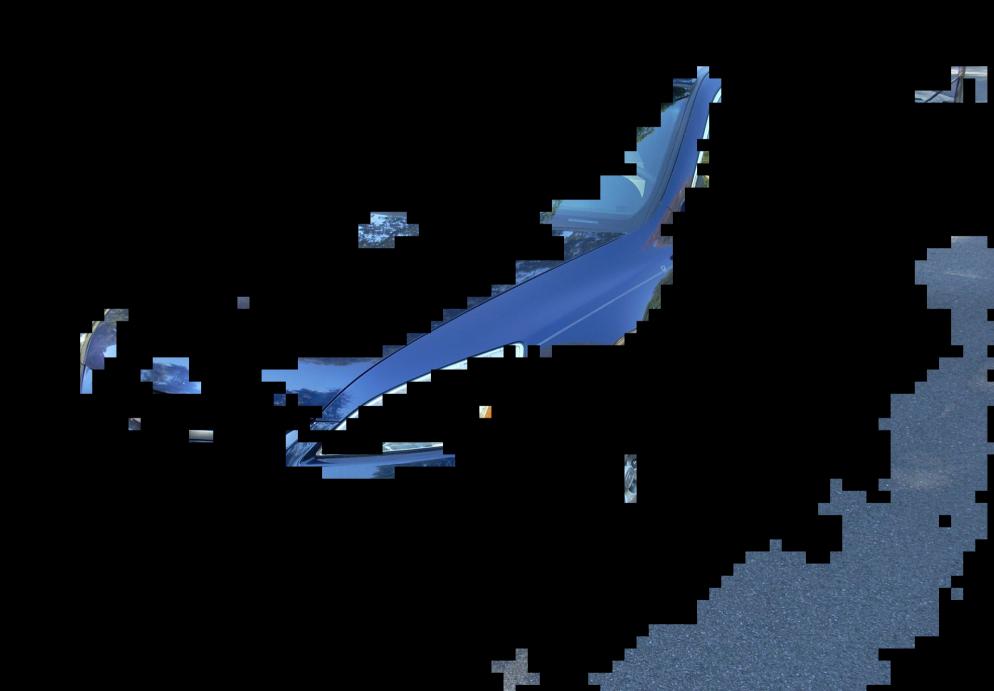












### The Plan™:

- Finish object isolation
  - -Image warping, realignment
- Implement feature identification
- Expand testing database
- Connect to streaming input source