HOV Image Detection
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Presentation: https://youtu.be/-PwZyRgBoV0
Source Code: https://github.com/alrightihov

Motivation: Catch HOV-lane violators!!!

Image

FC-CNN Model
Image size: 64x64x3
Batch size: 32
Epochs: 3
Optimizer: Adam
Loss: MSE
Train/Val: 80/20
Accuracy: 99.4%

YOLOv2 Model
Image size: 608x608x3
Batch size: 32
Epochs: 10
Optimizer: Adam
Loss: Classification & Bounding Boxes
Non-Max Suppression: IOU boxes

YOLOv2 model for Person Detection
2 persons?

YOLOv2 model for Bumper Detection
Bumper?

FC-CNN model for Sticker Classification
Sticker?

ipre-trained model with dataset from ImageNet

pos images: 56, accuracy: 0.9885714285714285
neg images: 55, accuracy: 0.98
total images: 111, accuracy: 0.956113207547169