

# Single Object Tracking with TLD, Convolutional Networks and AdaBoost

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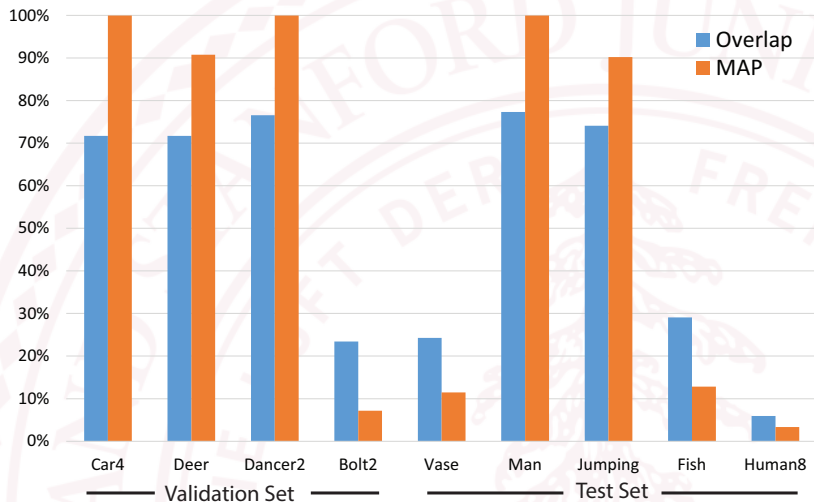
# Outline

- ▶ Patch Features
  - ▶ Raw Pixels, HOG, CNN
- ▶ Learning Methods
  - ▶ SVM, AdaBoost
- ▶ Tracker Regularization
- ▶ Quantitative Results

# Video Results

<http://albert.cm/cs231b/>

# SVM with Raw Pixels



# Convolutional Network Feature Extraction

- ▶ VGG-16 architecture using fc7 non-rectified features
- ▶ GTX Titan X
- ▶ Patches resized to 256x256
- ▶ Test time batch size of 200
- ▶ Overhead: 2 seconds per frame