

Wrap Up

# We talked about

- Filters
- Edges
- Corners
- Interest Points
- Descriptors
- Image Stitching
- Stereo
- SFM

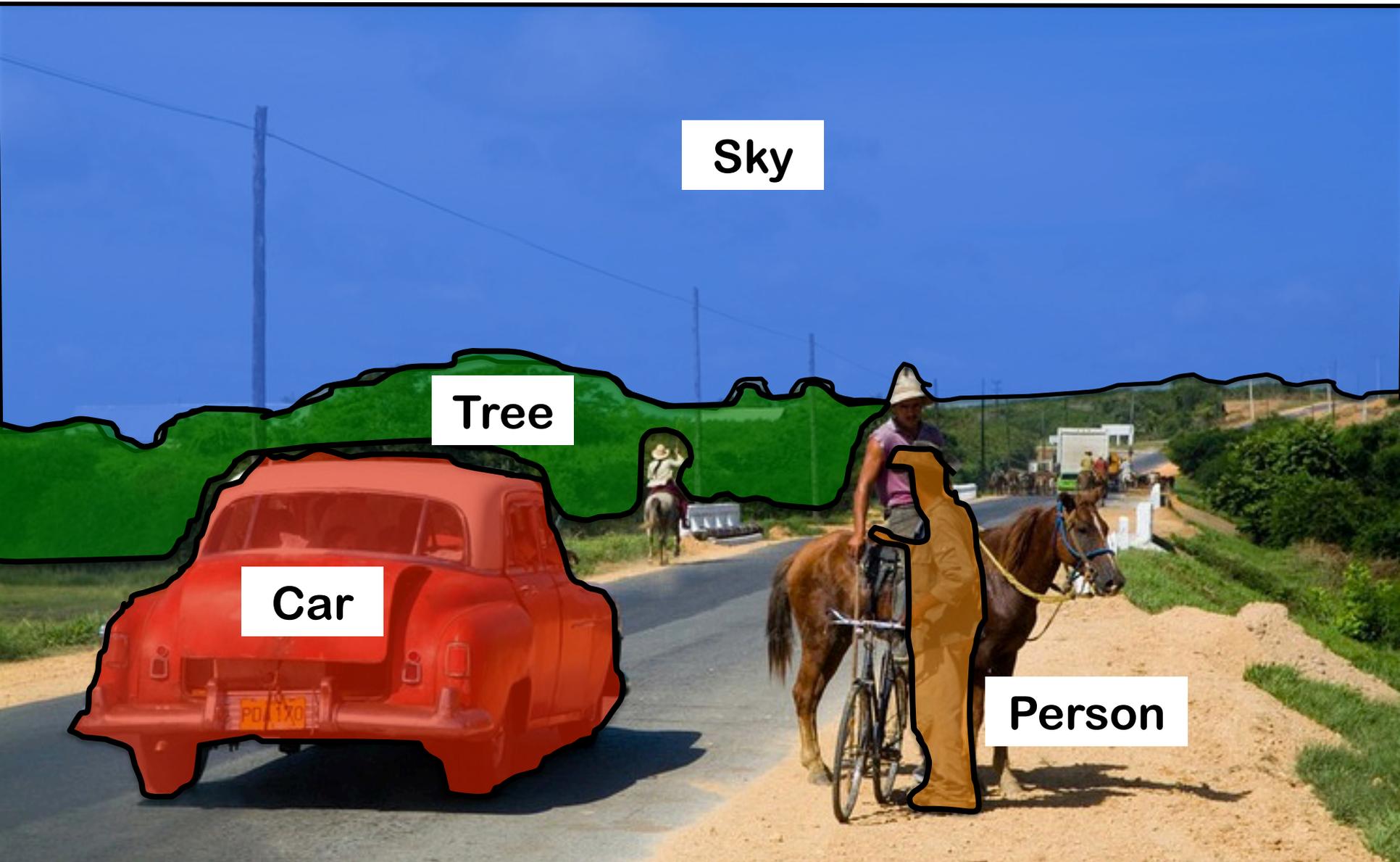
# We talked about

- Reconstruction
- Flow
- Face Detection
- Face Recognition
- Pedestrian Detection
- Part-Based Recognition
- ...

# What else?

- Several other interesting stuff that we wanted to talk about them

# Image Segmentation



Sky

Tree

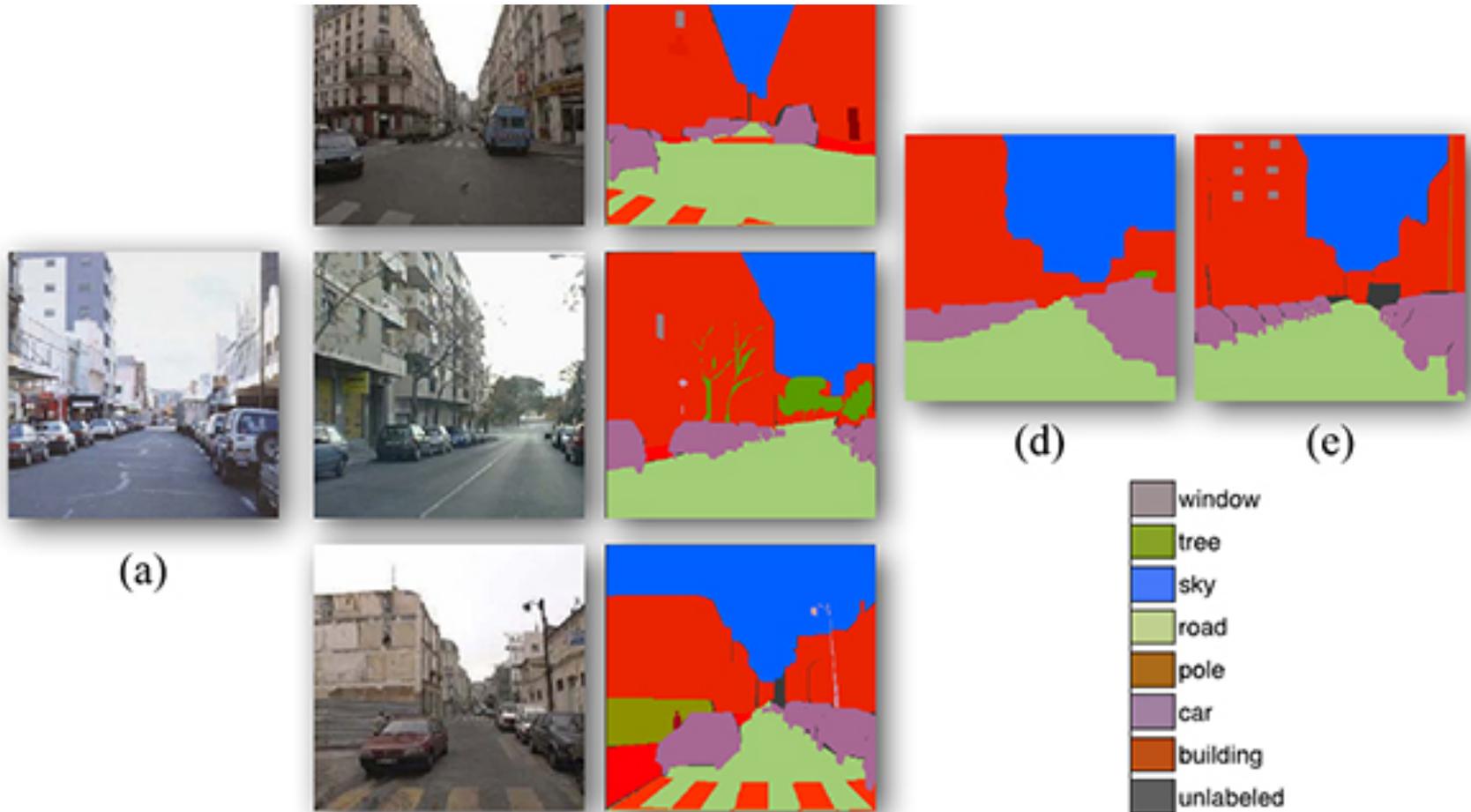
Car

Person

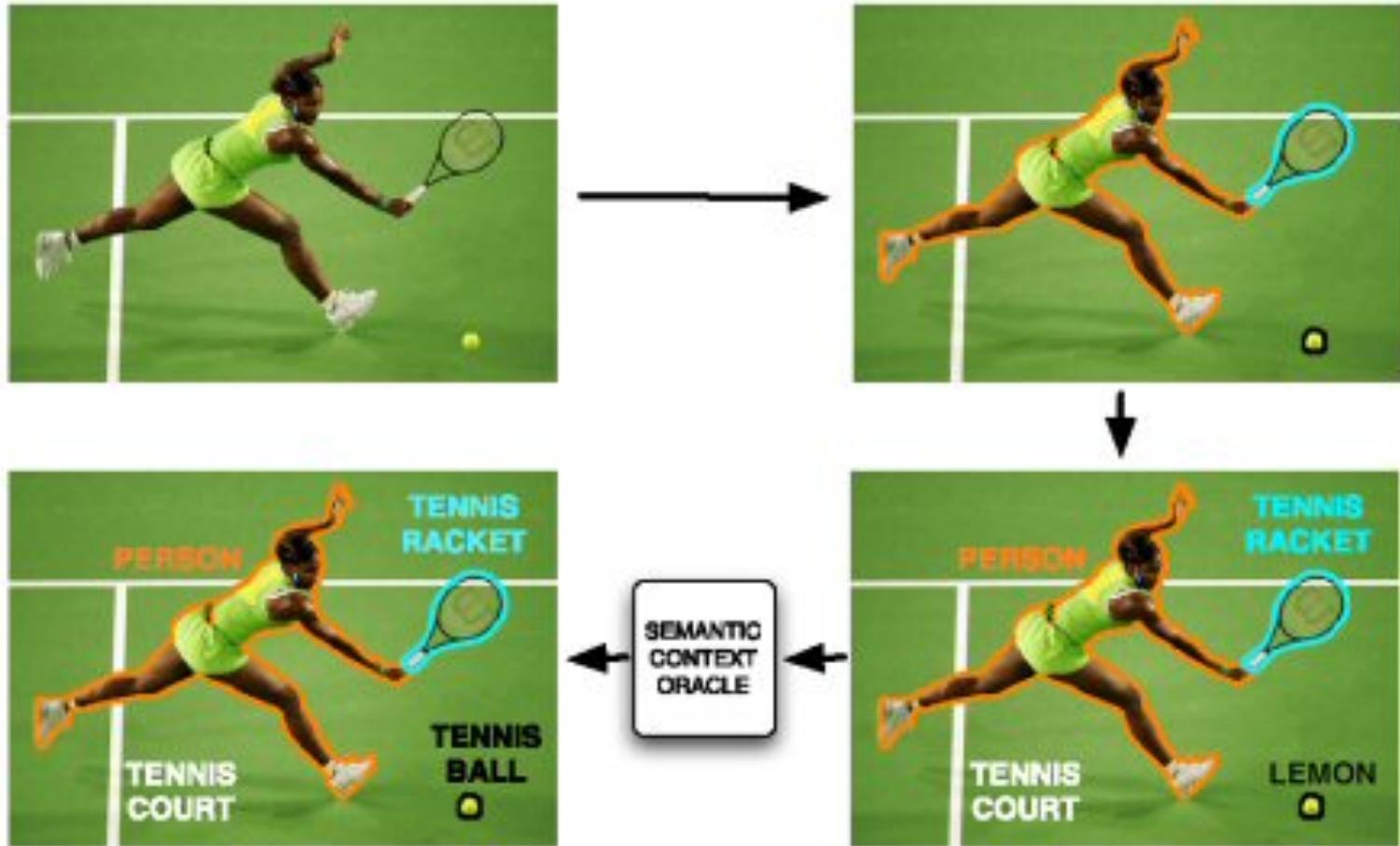




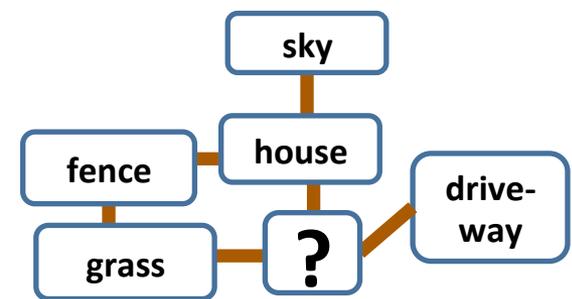
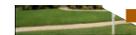
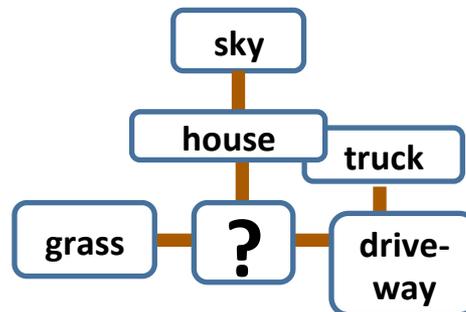
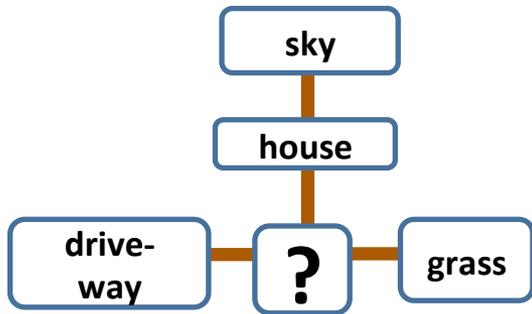
# Scene Parsing



# Context



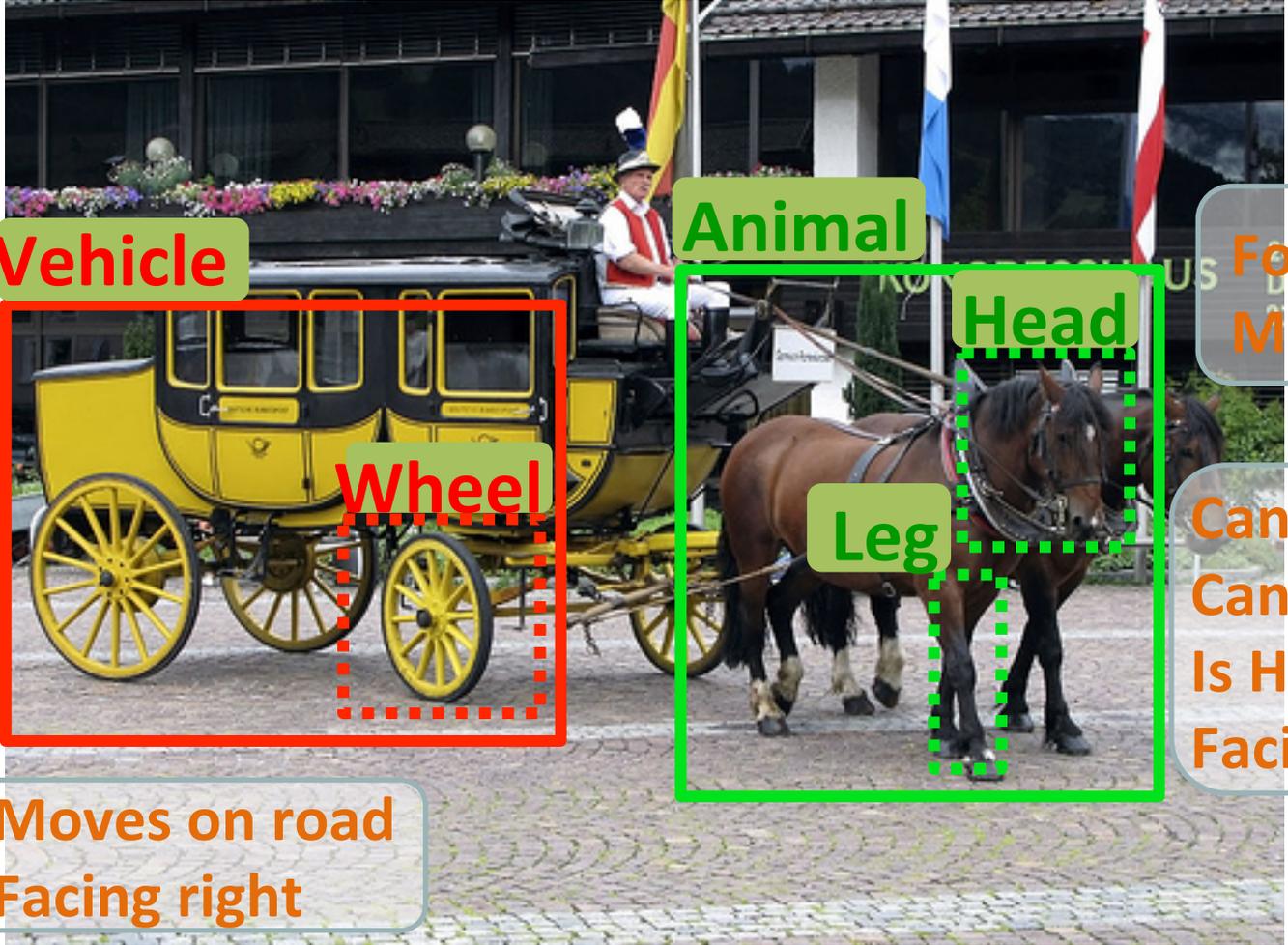
# Context-aware visual discovery



*Context in supervised recognition:*

[Torralba 2003], [Hoiem et al. 2006], [He et al. 2004], [Shotton et al. 2006], [Heitz & Koller 2008], [Rabinovich et al. 2007], [Galleguillos et al. 2008], [Tu 2008], [Parikh et al. 2008], [Gould et al. 2009], [Malisiewicz & Efros 2009], [Lazebnik 2009]

# Attributes



**Vehicle**

**Animal**

**Head**

**Wheel**

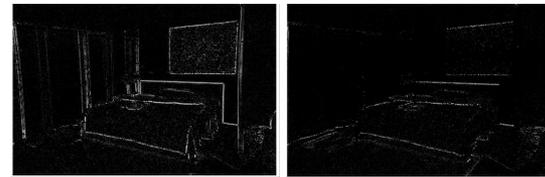
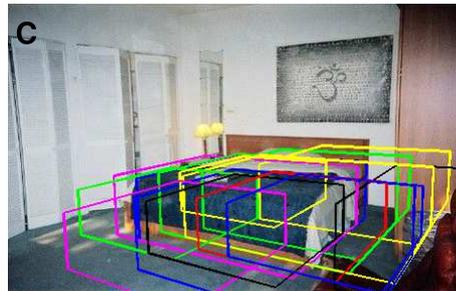
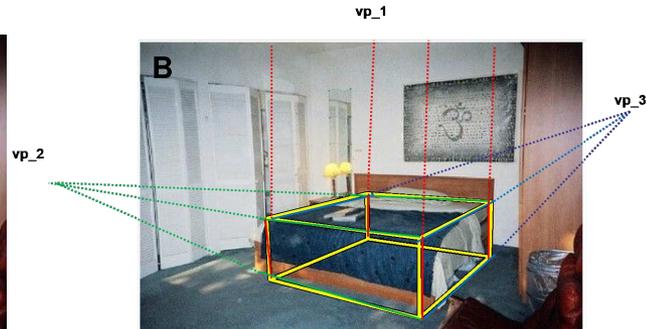
**Leg**

Four-legged  
Mammal

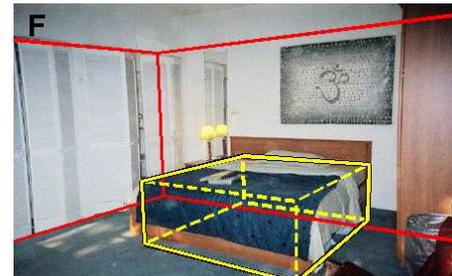
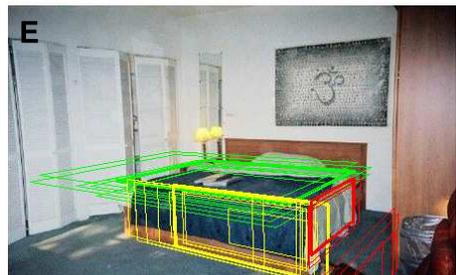
Can run  
Can Jump  
Is Herbivorous  
Facing right

Moves on road  
Facing right

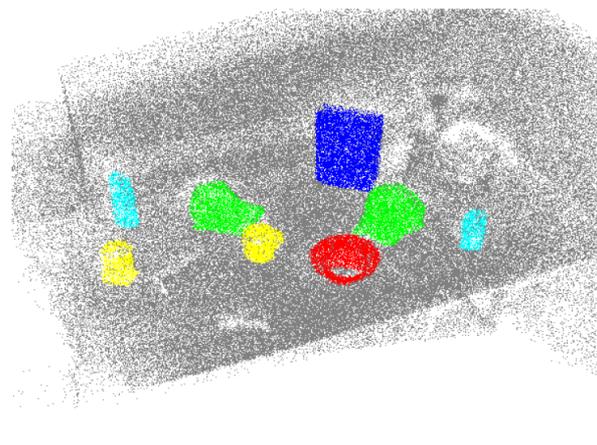
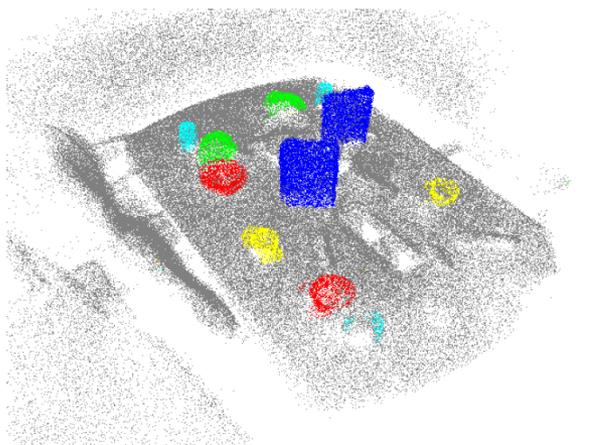
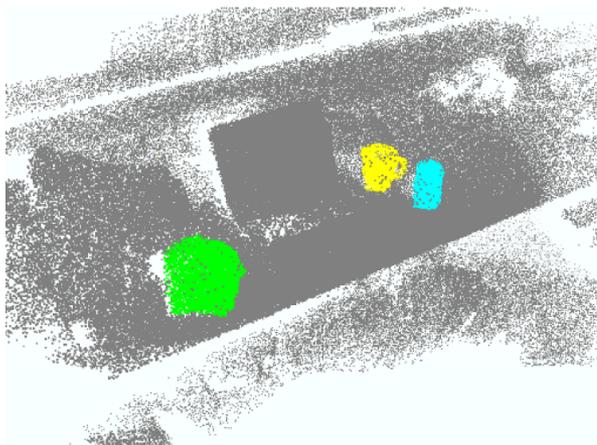
# 3D Recognition



**D**



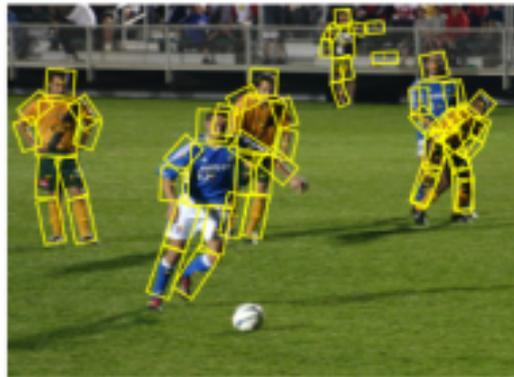
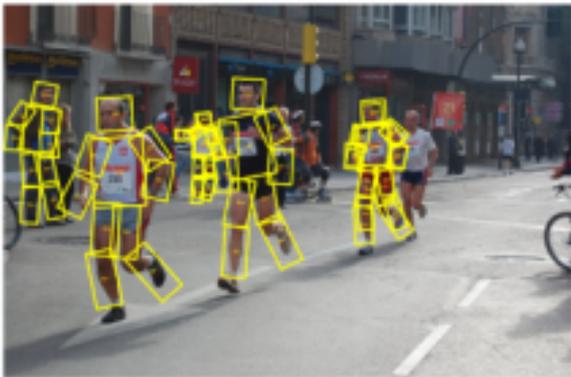
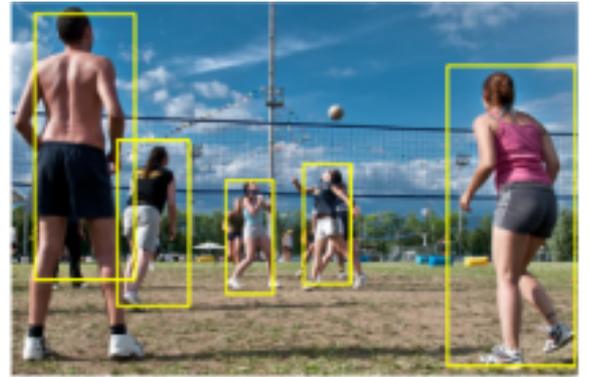
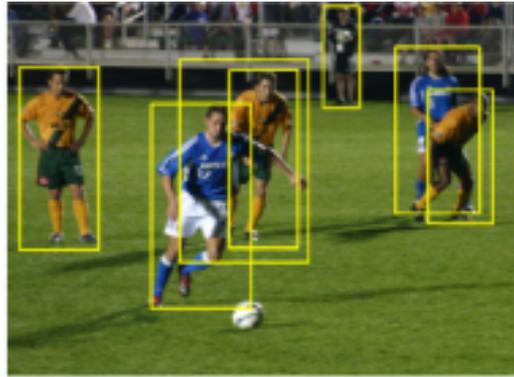
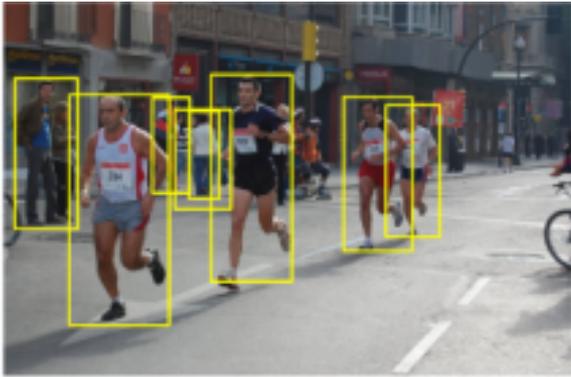
# RGB-D



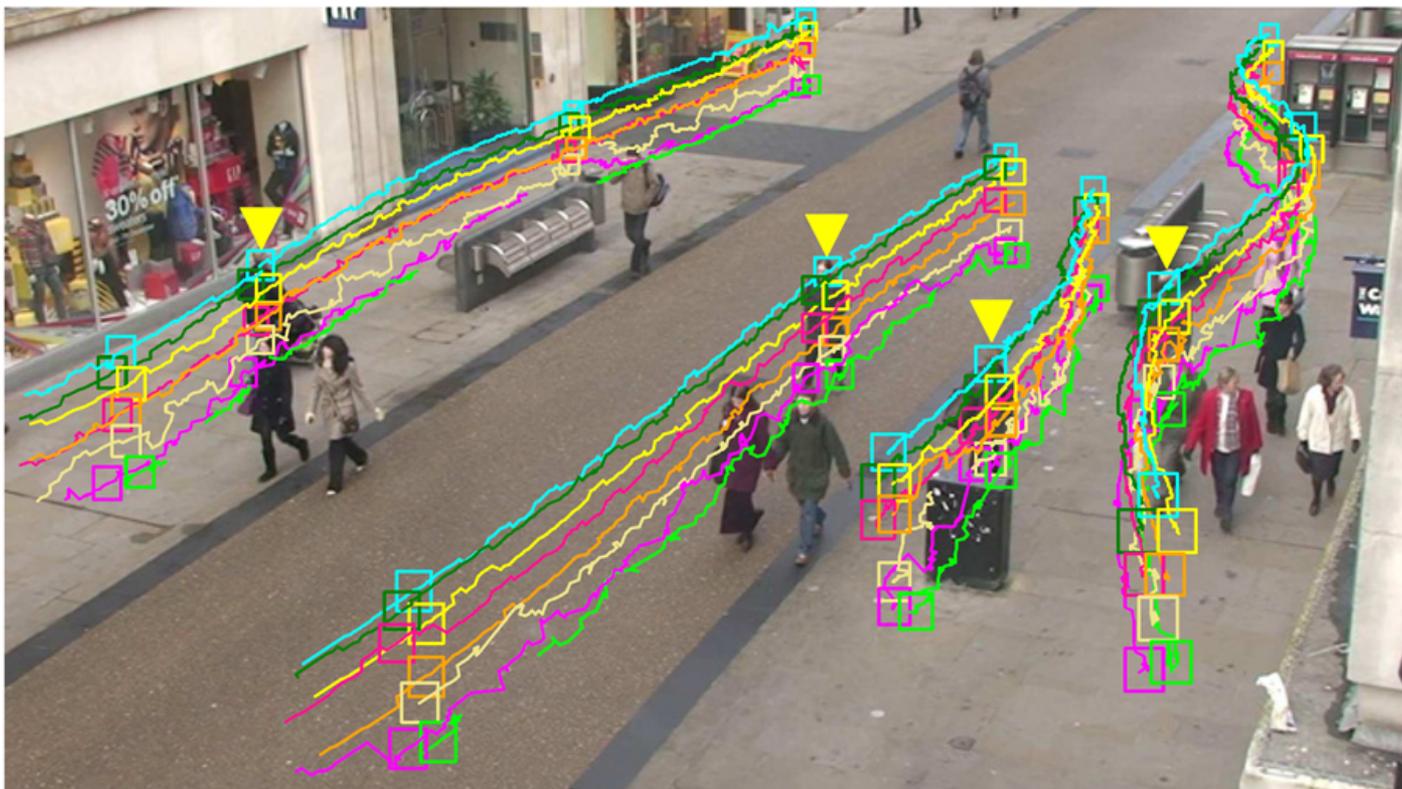
# Pose Estimation



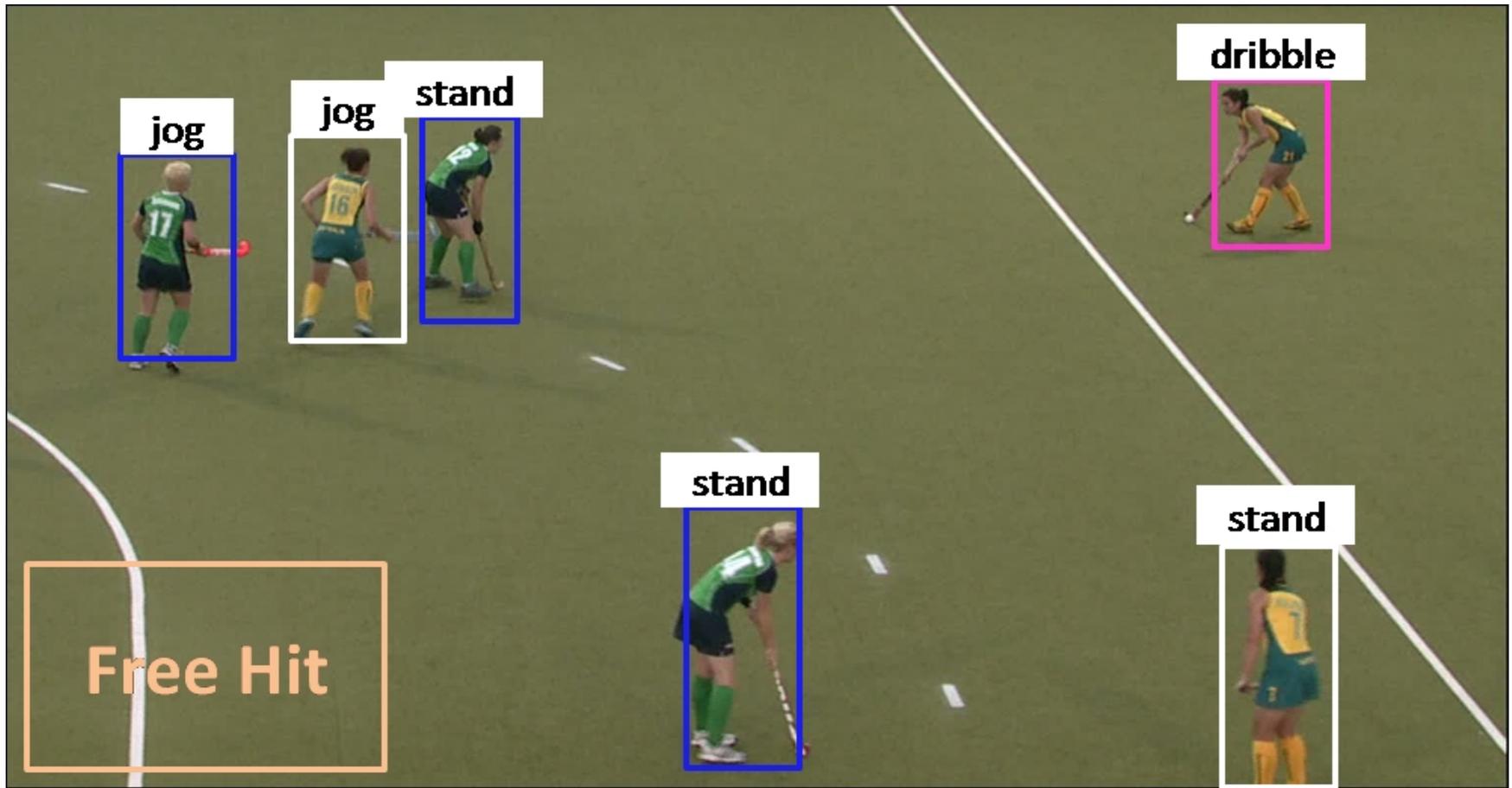




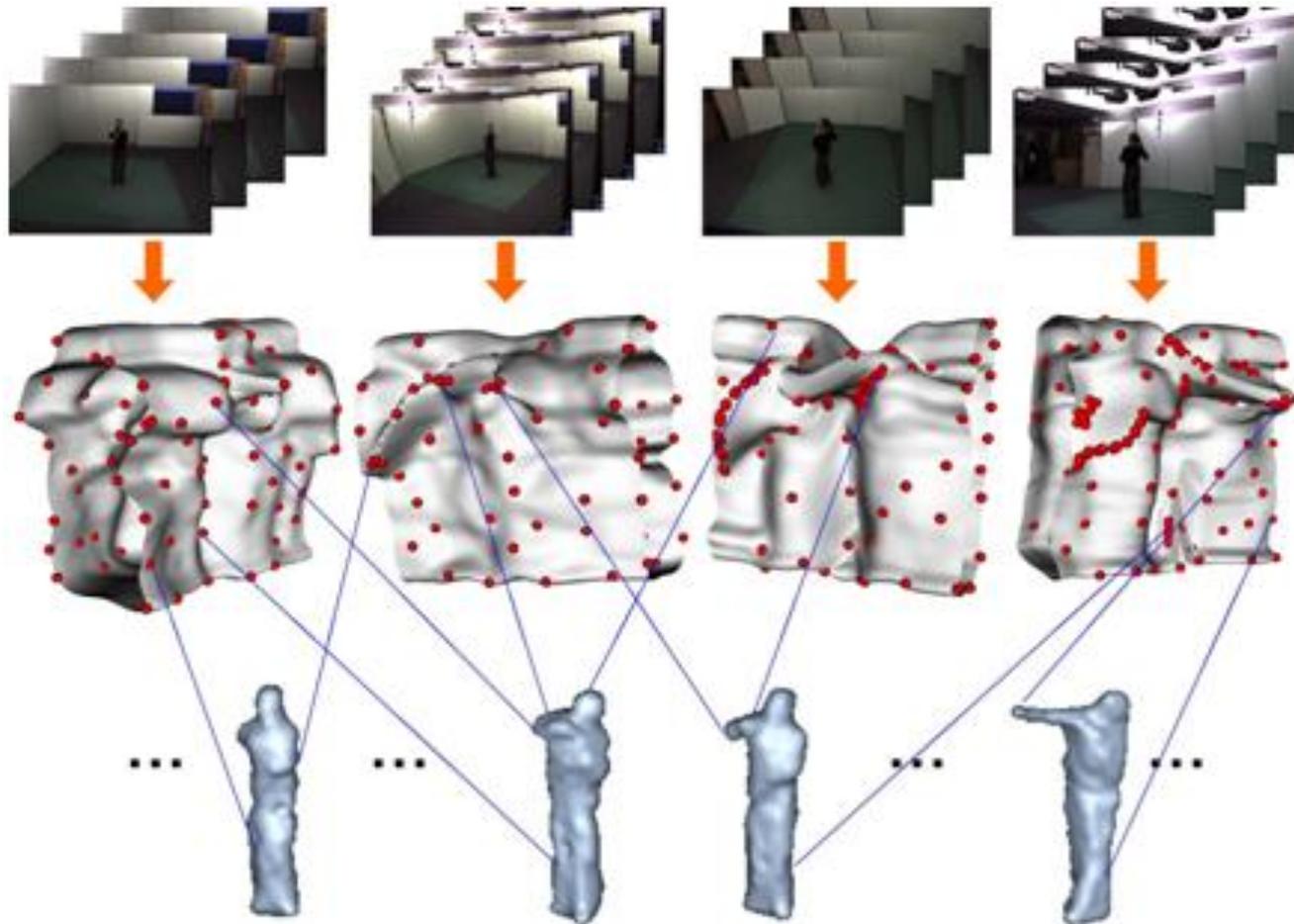
# Tracking



# Action Recognition



# Action Recognition



# Egocentric Vision

