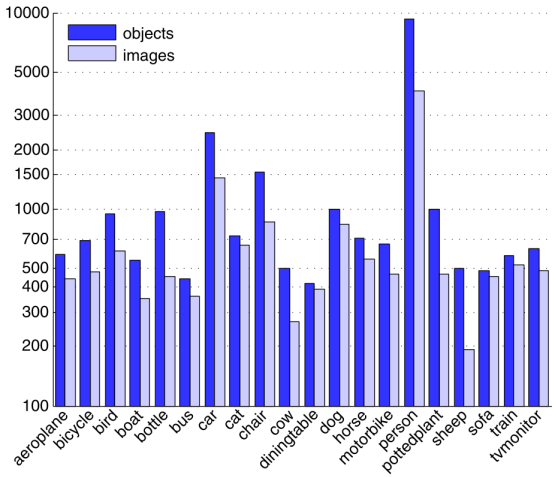
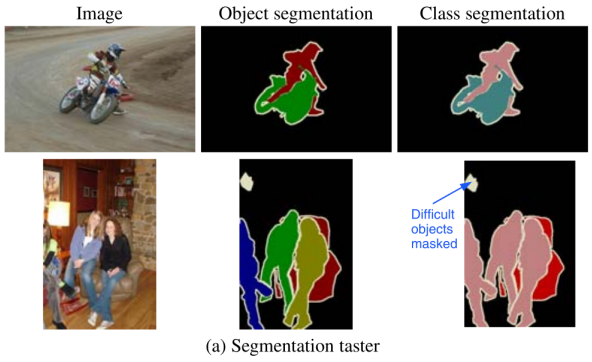
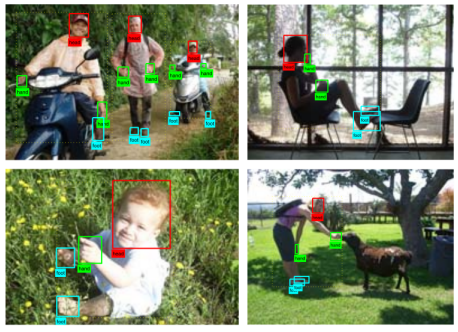
The PASCAL Visual Object Classes (VOC) Challenge

M. Everingham, L. V. Gool, C. K. I. Williams, J. Winn, and A. Zisserman (IJCV 2010)





(a) Segmentation taster



(b) Person layout taster

- A benchmark with a standard dataset of images and annotation, and standard evaluation procedures
  - Two principal challenges: classification and detection
  - Two subsidiary challenges: pixel-level segmentation and person layout estimation
- Dataset: challenging images and high quality annotation, with a standard evaluation methodology
  - Variability in object size, orientation, pose, illumination, position and occlusion
  - No systematic bias for centred objects or good illumination
  - Consistent, accurate, and exhaustive annotations for class, bounding box, viewpoint, truncation, and difficult
- Competition: measure the state of the art each year