Contextual Visual Feature Learning for Zero-Shot Recognition of Human-Object Interactions



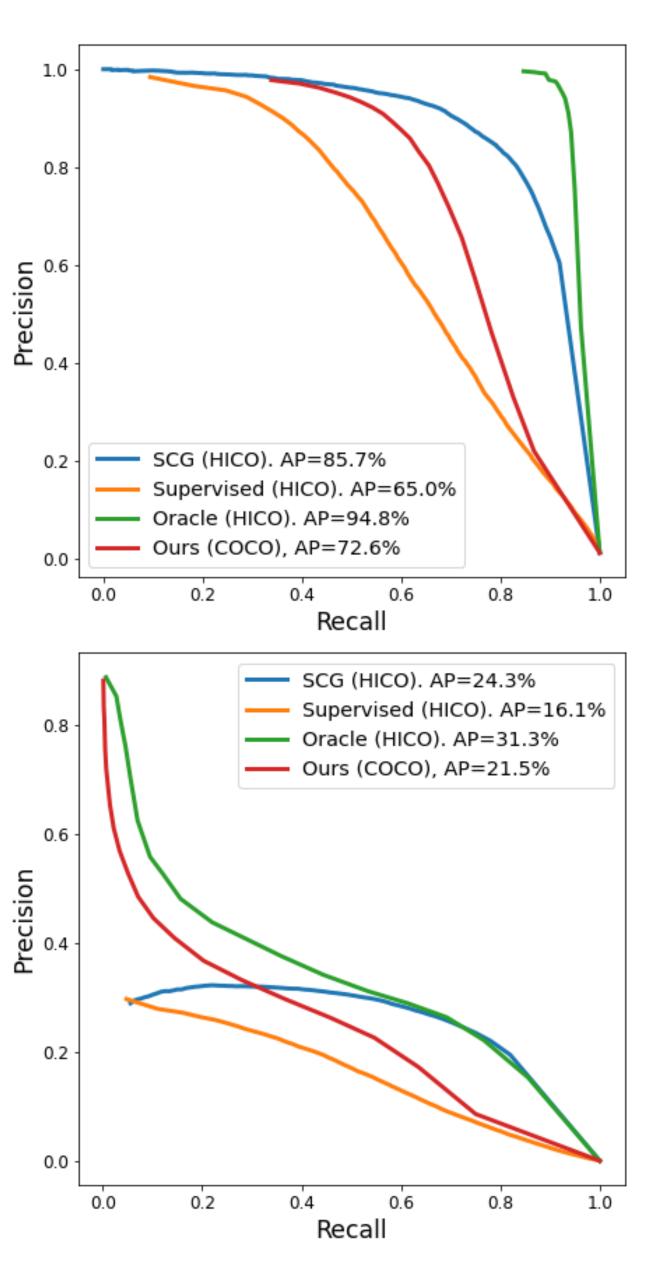


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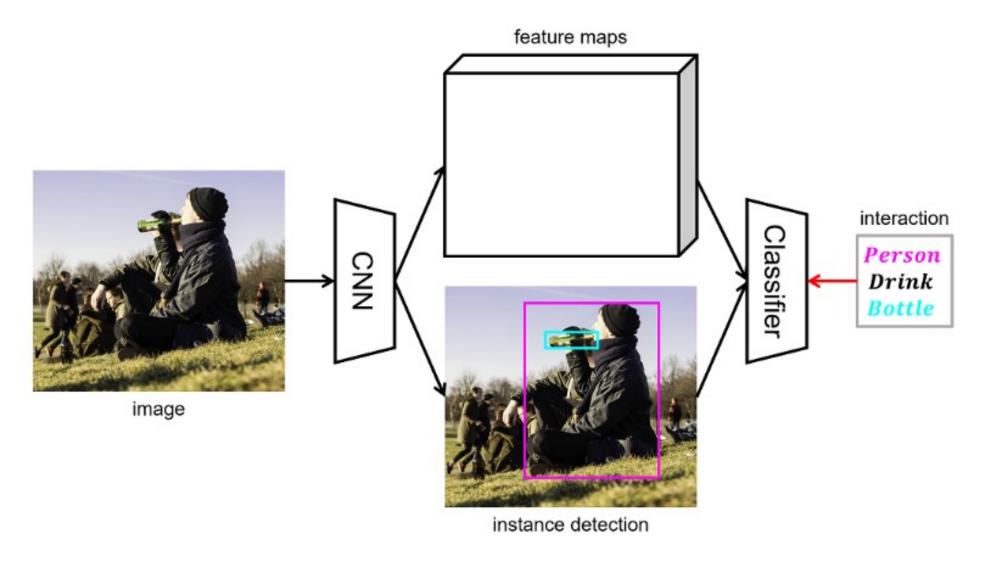
High-level Contextual Semantics Emerge from Our Learned Features

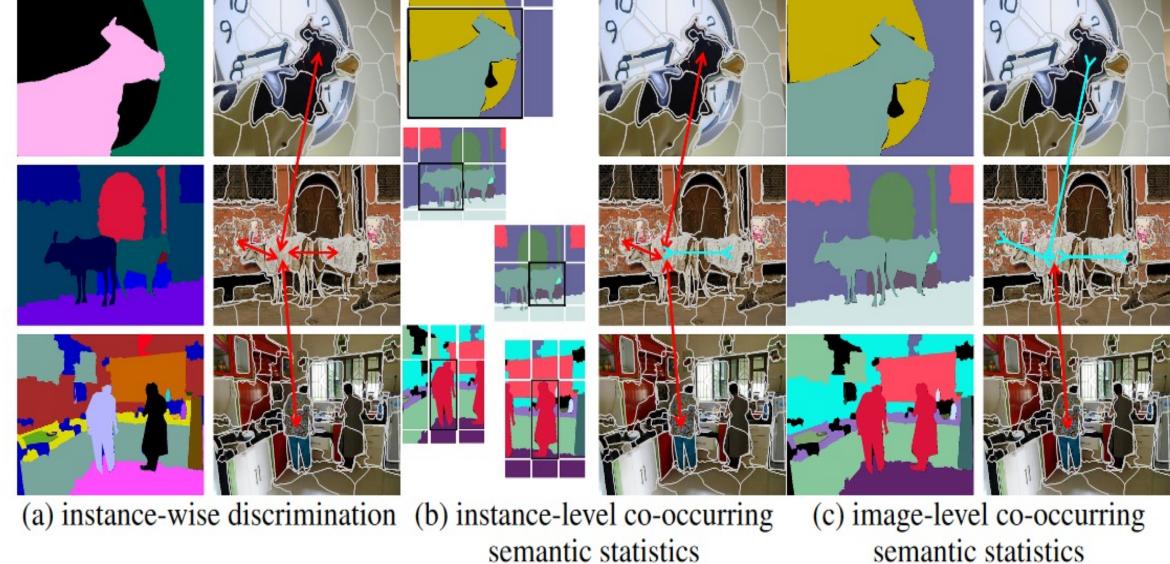




Baselines: Classify Human-Object Pairs. **Training Needs Interaction Labels.**

We Contrast Pixels on 3 Types of Relationships





Our Work: Maps Pixels to Latent Features. **Training Doesn't Need Interaction Labels.**

instance segmentation feature maps SNN semantic segmentation Top Retrievals

Hold

Bottle

Hold

Bottle

Hold

Bottle

Drink

Bottle

Hold

Hold

Bottle

We Model Contexts with Spatially **Co-occurred Semantics**

