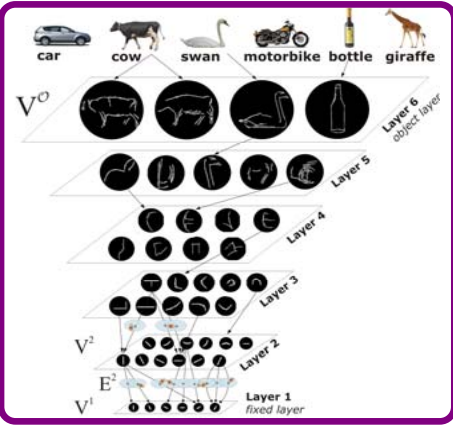


Evaluating multi-class learning strategies in a hierarchical framework for object detection. Sanja Fidler, Marko Boben, Aleš Leonardis.

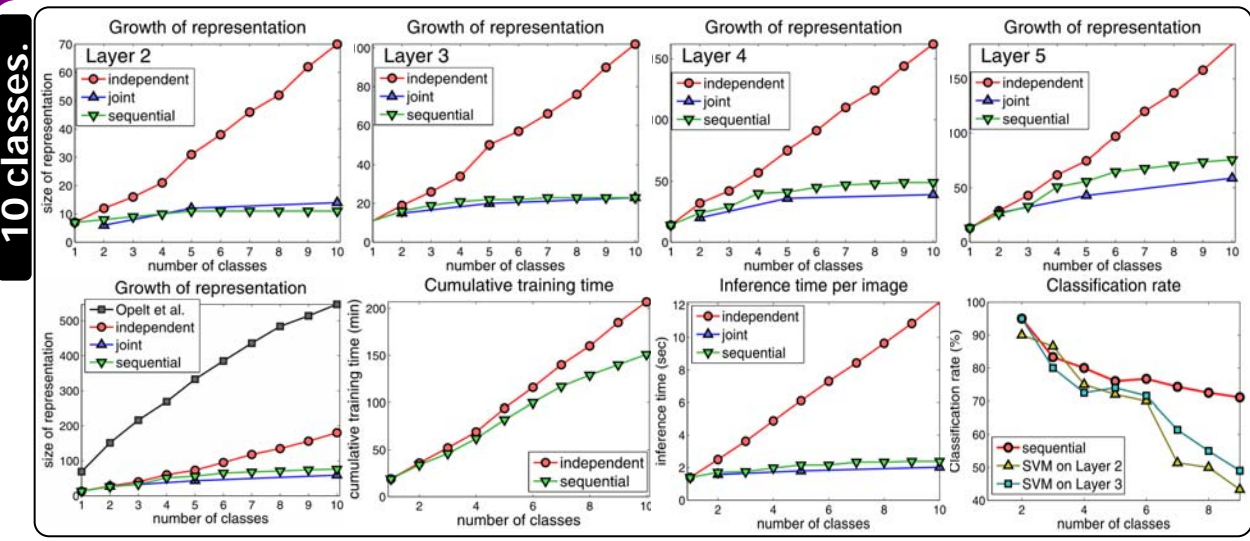
<http://vicos.fri.uni-lj.si/>

Summary

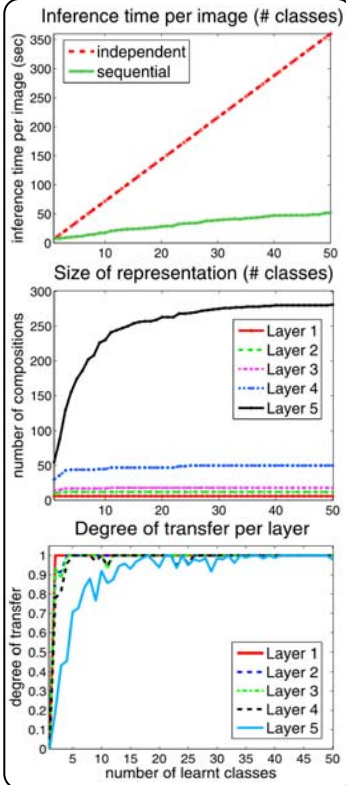
Objects are represented with a hierarchical compositional shape vocabulary which is learned from images. We evaluate 3 different strategies for learning a hierarchical multi-class object vocabulary for object detection: **independent**, **joint** and **sequential training**. We explore and compare their computational behavior (space and time) and detection performance as a function of the number of learned object classes on several recognition datasets.



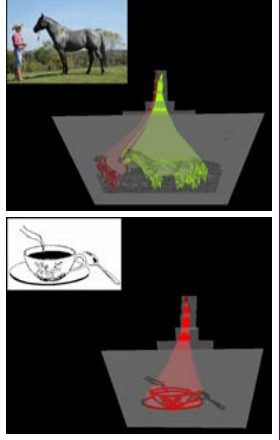
Results



50 classes.



Detections



Sharing between visually similar and dissimilar classes.

