

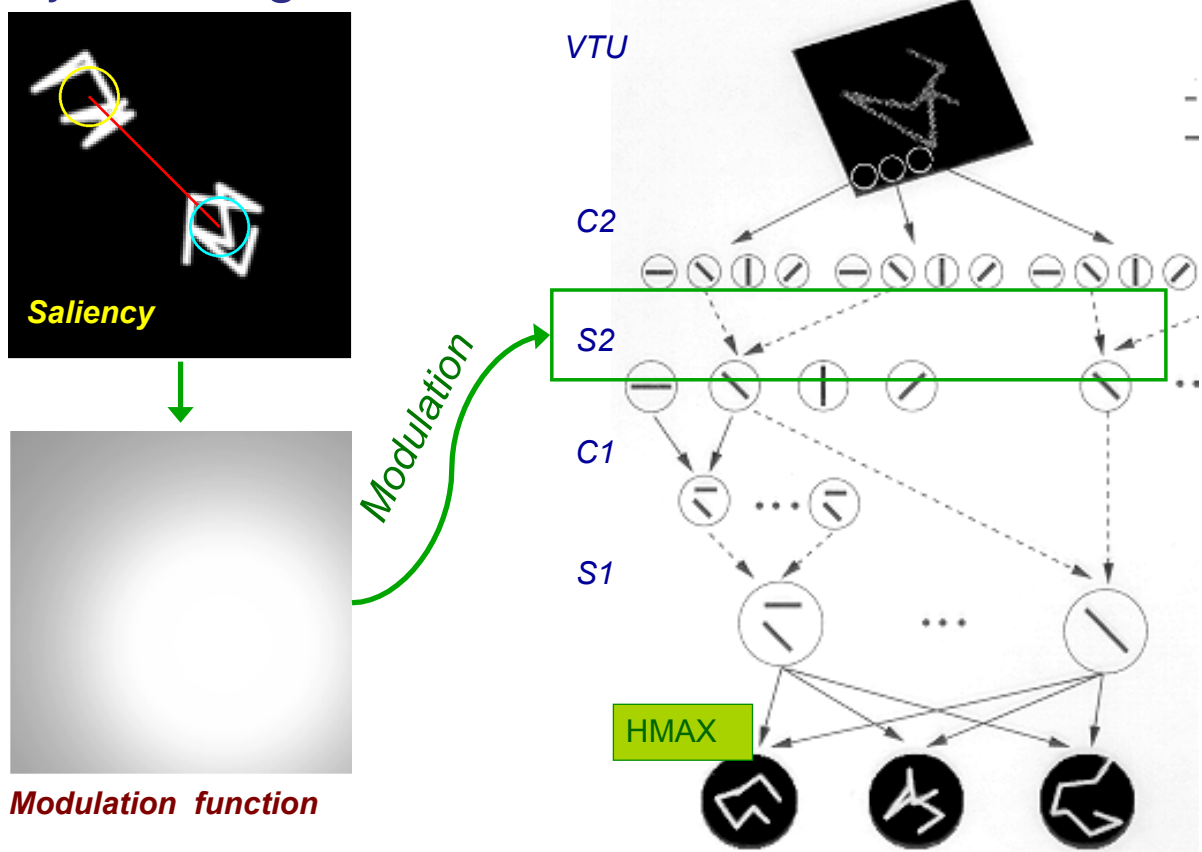
# Object recognition II

Introducing a focus of attention to Hierarchical Models

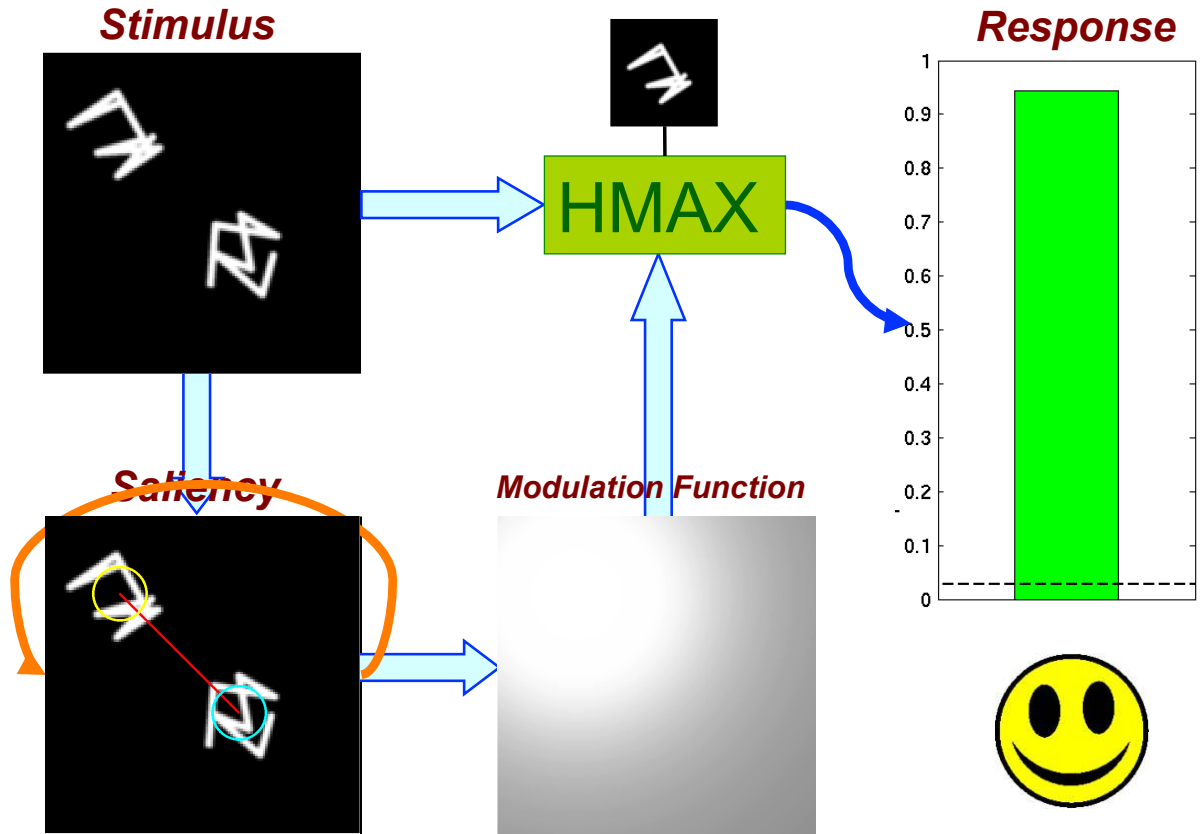
*Suggested reading:*

- Walther, Itti, Riesenhuber, Poggio, Koch (2002) Attentional Selection for Object Recognition - a Gentle Way. In: Biologically Motivated Computer Vision. Lecture Notes in Computer Science. Berlin, Heidelberg, New York: Springer Verlag, 472-479.

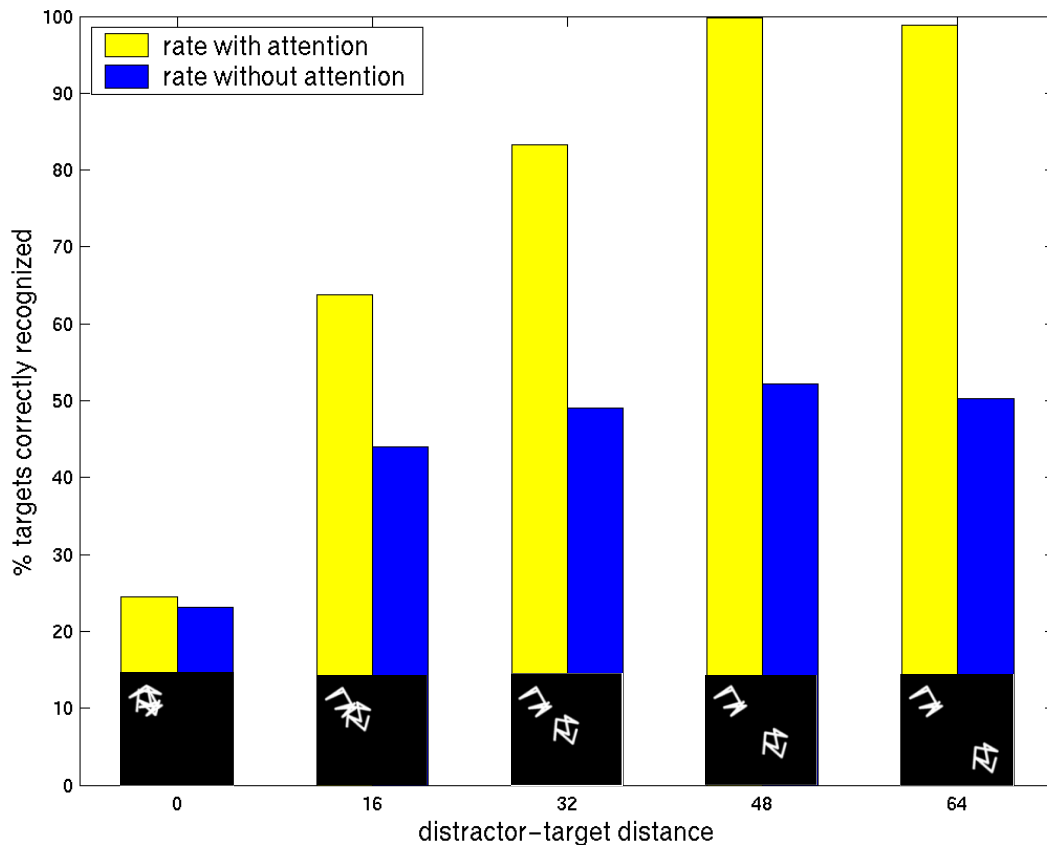
## Object recognition with a focus of attention Object Recognition 1



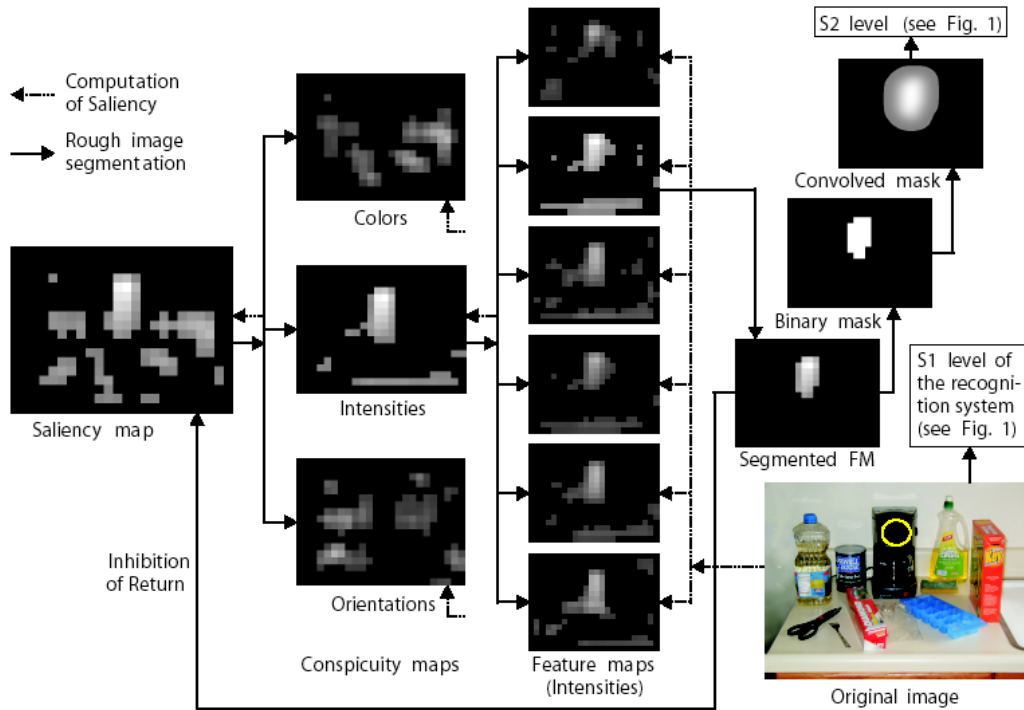
# Concept of attention



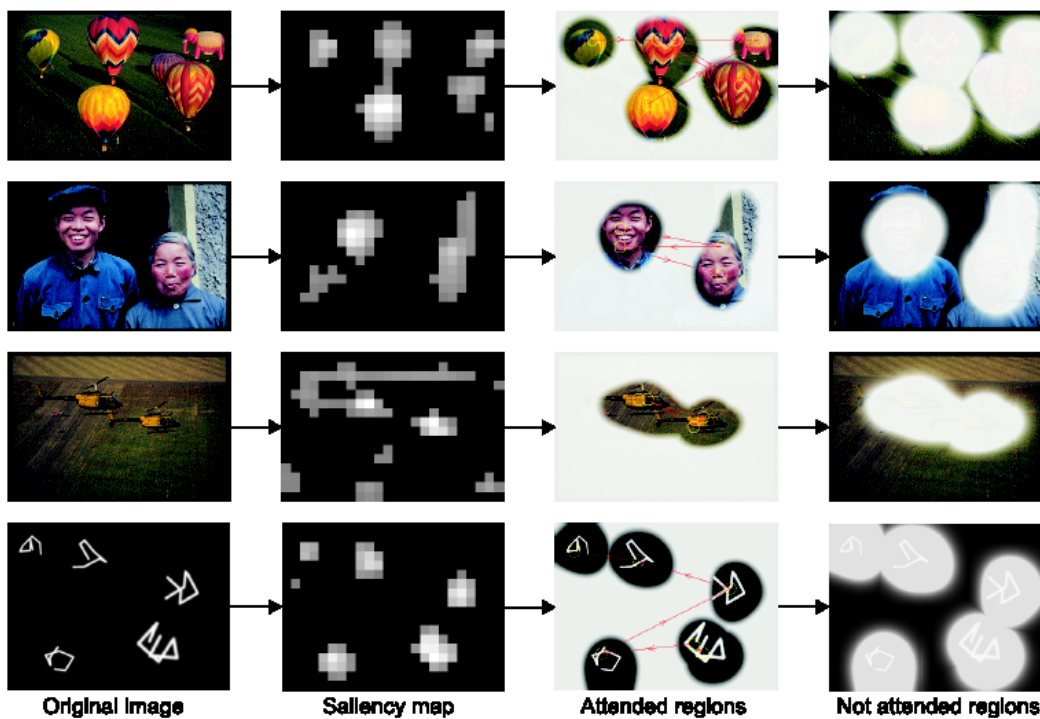
# Recognition Rate



# Towards attention and object recognition in natural scenes



# Towards attention and object recognition in natural scenes



## Discussion

- The combination of the Saliency-Map model with a spatially selective focus and a hierarchical model for object recognition appears to be a straightforward way to go.
  - However, recognition depends on the quality of the focus.
  - The focus is not determined by the recognition task.