Attentional saliency in images

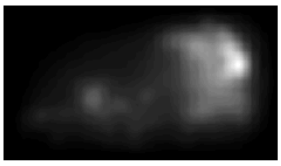
Instructions given to students

Sample results

The algorithm identifies image regions that stand out based on several basic visual features, including color, intensity and edge orientation.

original image

Itti-Koch saliency map



marked image

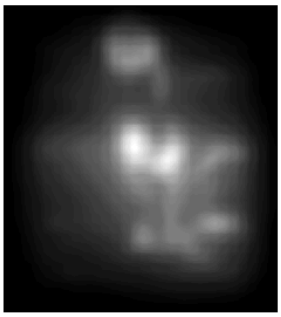
saliency map overlayed

most salient (95%ile) parts

It sometimes appears that the algorithm is picking out complex objects that are similar to what humans ultimately notice ...

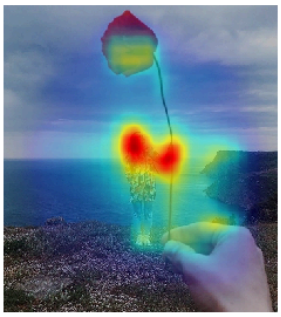
original image

Itti-Koch saliency map

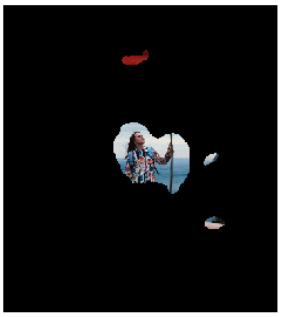


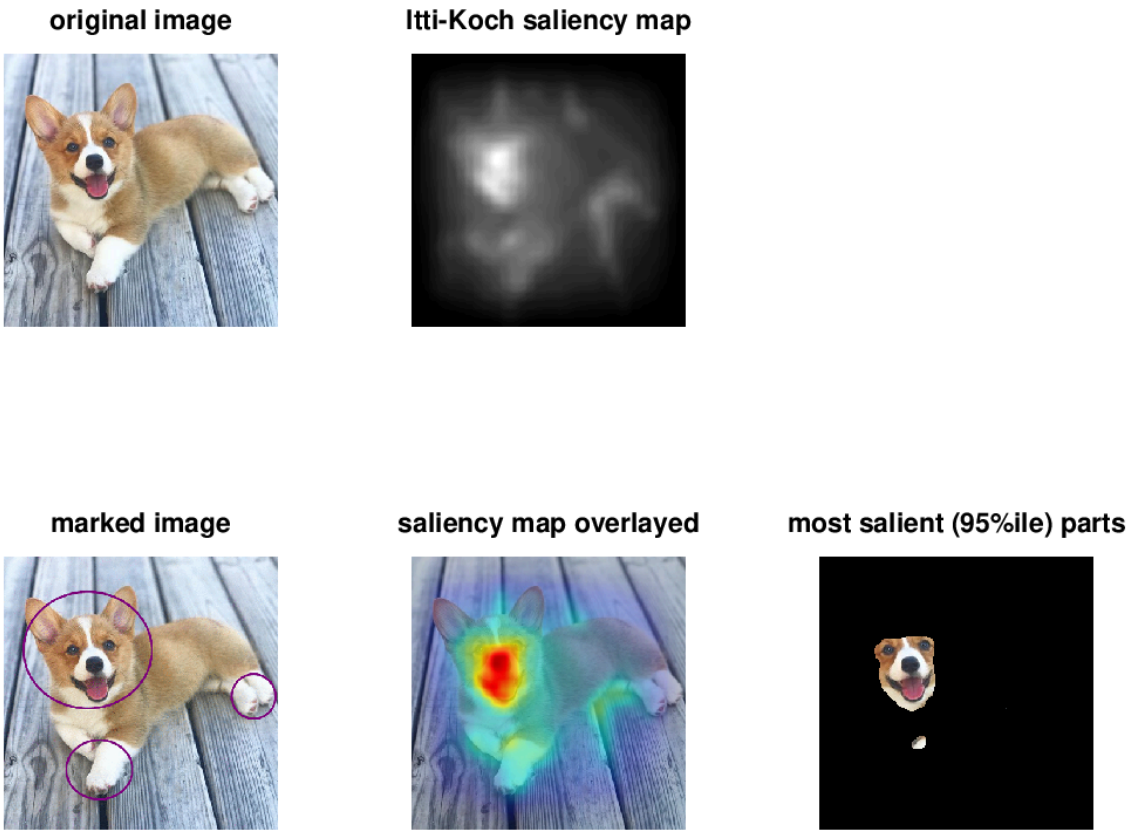
marked image

saliency map overlayed



most salient (95%ile) parts

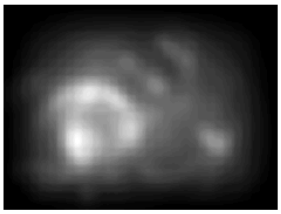




… however, the algorithm actually works in “local” fashion based on small, often meaningless visual differences.

original image

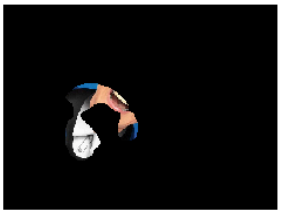
Itti-Koch saliency map



marked image

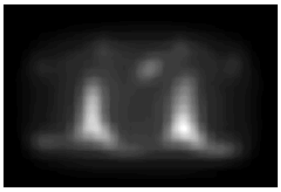
saliency map overlayed

most salient (95%ile) parts



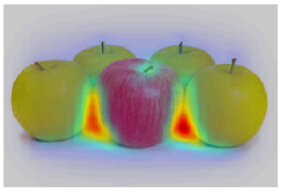
original image

Itti-Koch saliency map



marked image

saliency map overlayed



most salient (95%ile) parts