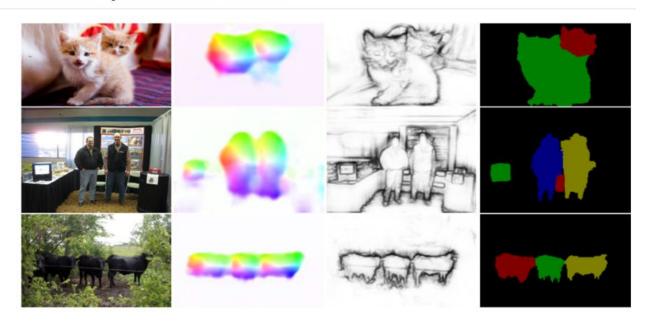
# Weakly Supervised Learning of Instance Segmentation with Inter-pixel Relations



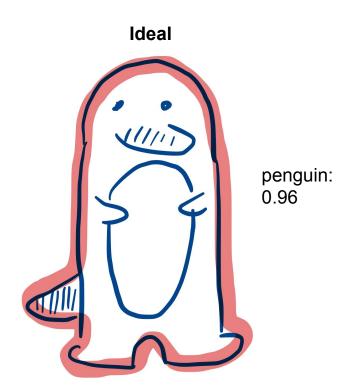
# How to improve IRNet

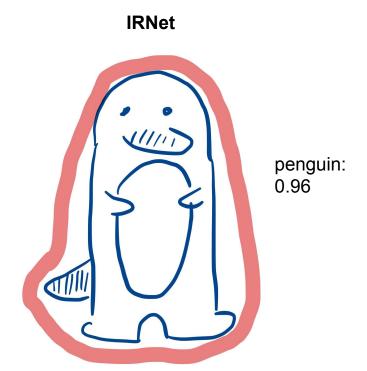
## Qualitative Performance of IRNet





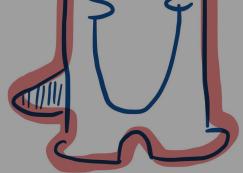
# Ideal vs. Output

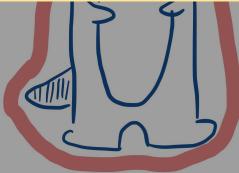




# Ideal vs. Output







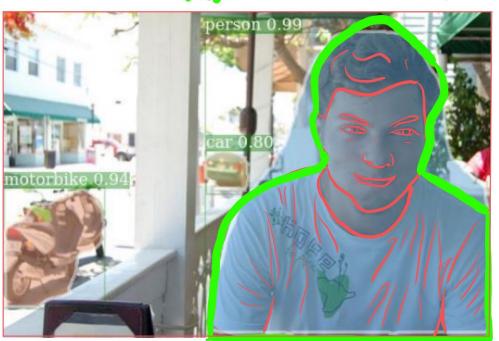
#### 1. Look for Edge that is related to Instance

: edge most related to instance



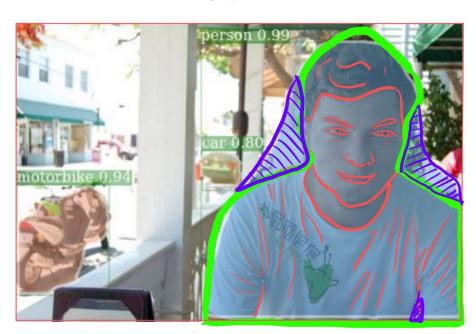
2. Find the most outer edge that is enclosed (border of the photo counts as edge)

most outer enclosed edge

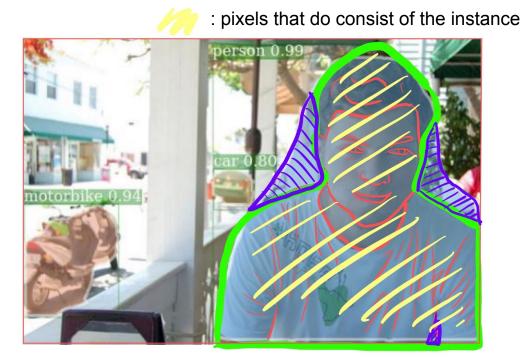


3. Regard pixels outside the the most outer edge that is enclosed as <u>not belonging to the particular instance.</u>

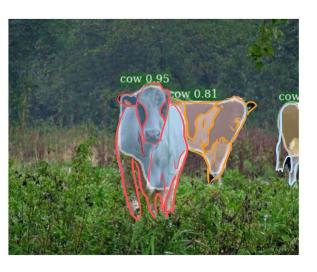
: pixels that do not consist of the instance anymore



4. Regard pixels inside the the most outer edge that is enclosed as belonging to the particular instance.

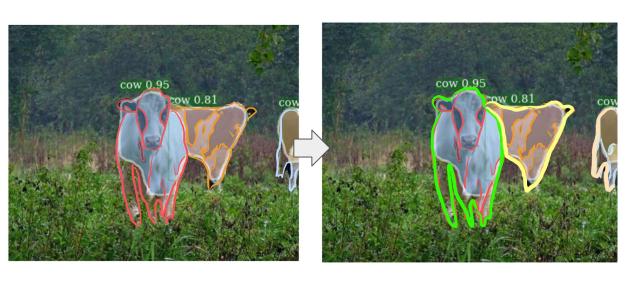


# Even when there are multiple overlapping instances



edge detection

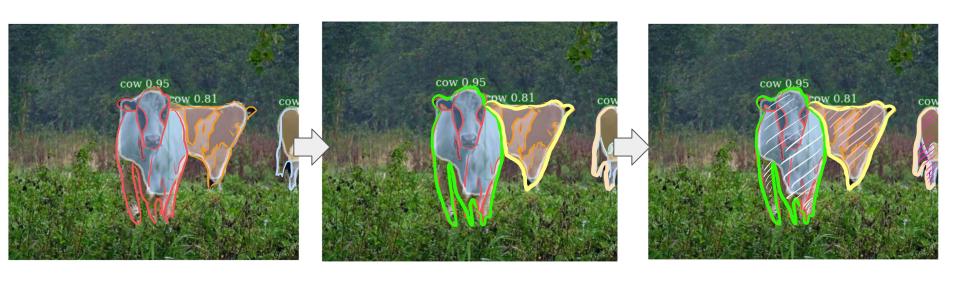
## Even when there are multiple overlapping instances



edge detection

find outer and enclosed edge

# Even when there are multiple overlapping instances



edge detection

find outer and enclosed edge

reassign the classes of pixels that are near the outer edges.