Lecture12
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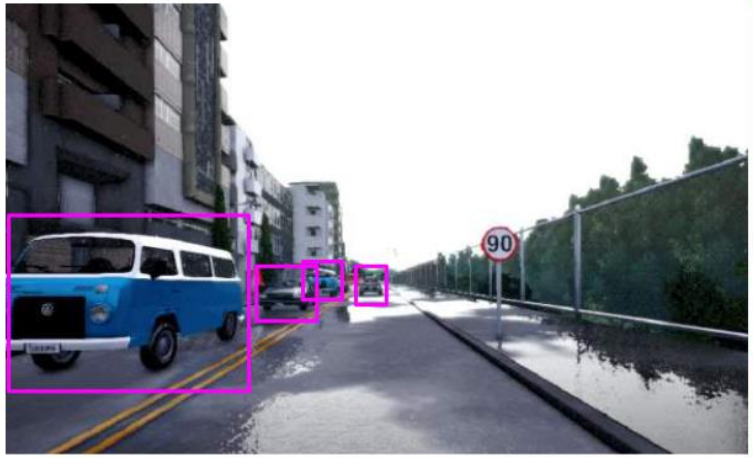
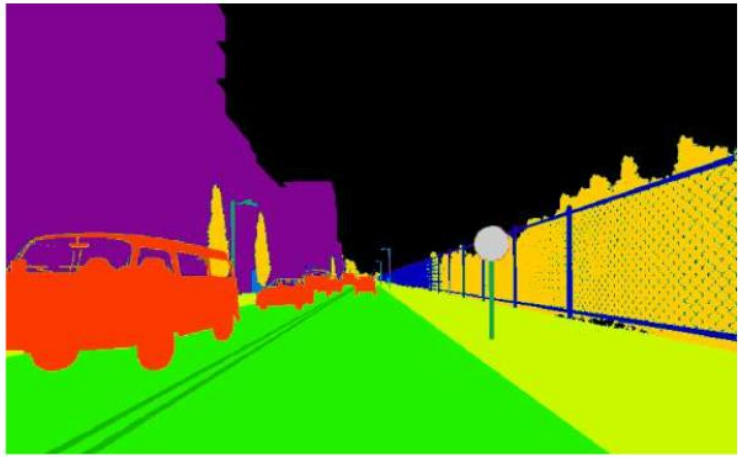
Object detection vs Semantic Segmentation

Input image



Object Detection



Semantic Segmentation

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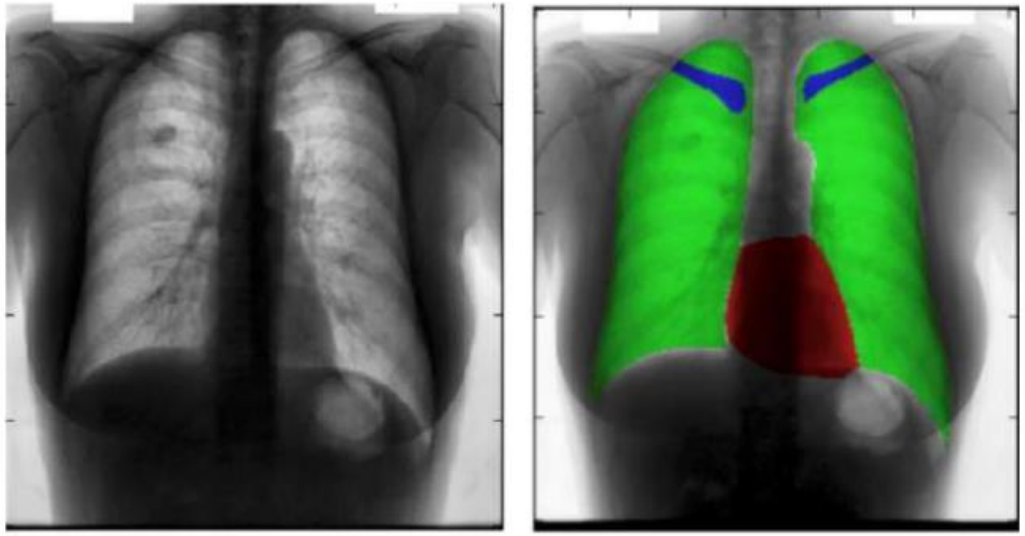
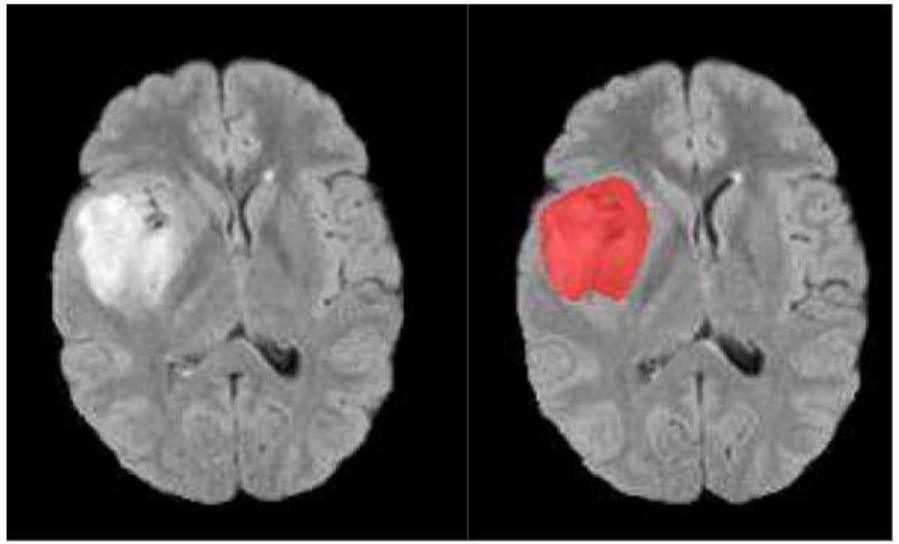


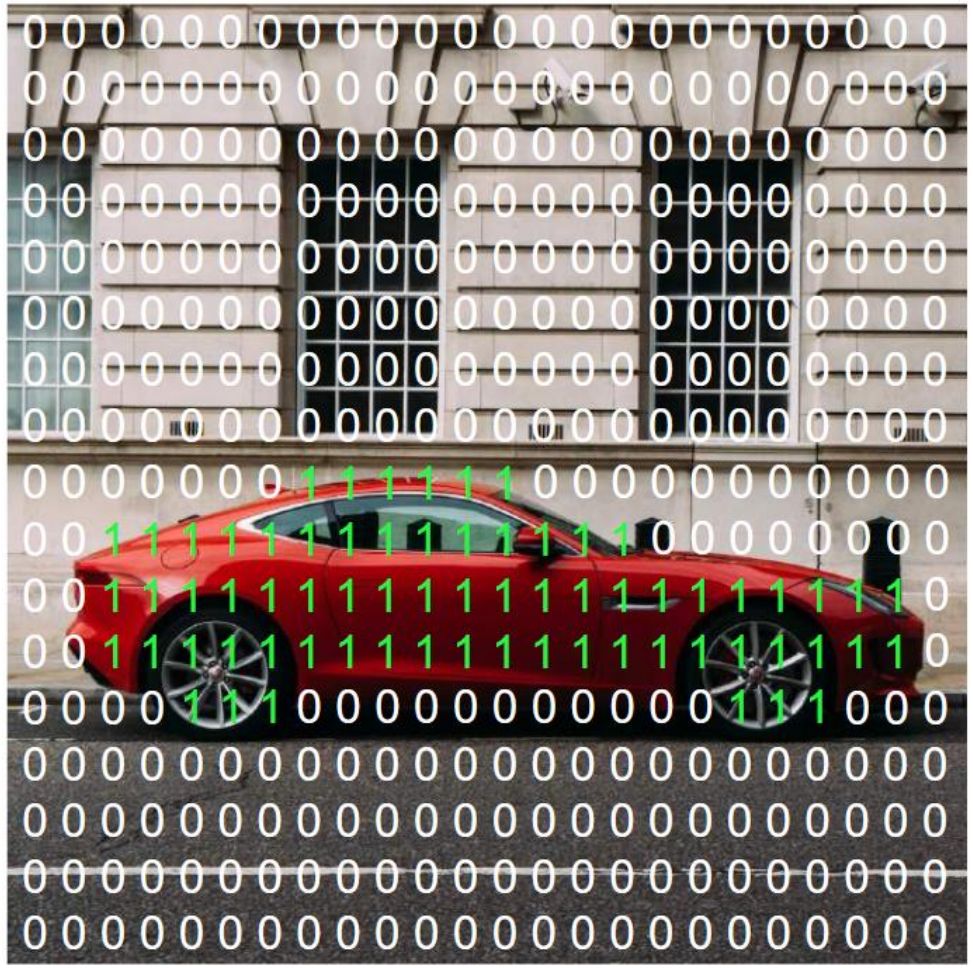
Chest X-Ray



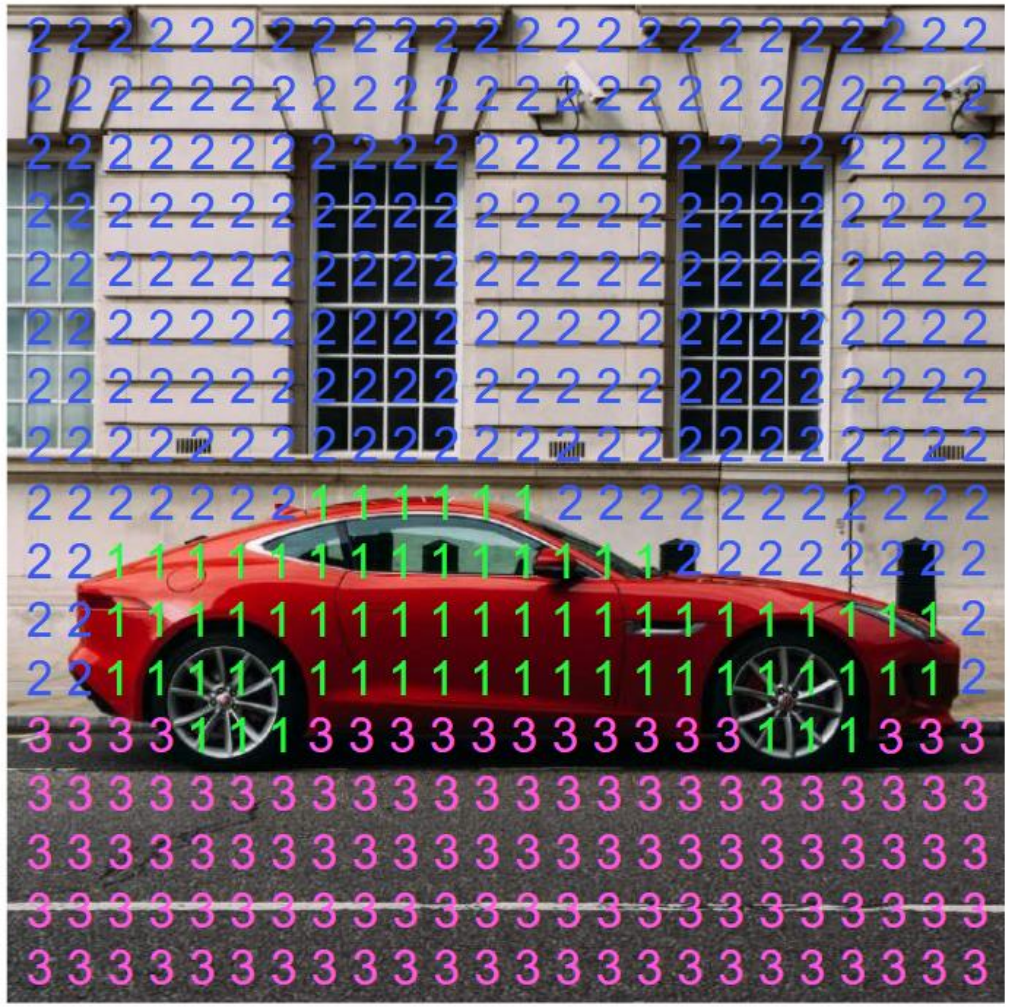
Brain MRI

[Novikov et al., 2017, Fully Convolutional Architectures for Multi-Class Segmentation in Chest Radiographs]
[Dong et al., 2017, Automatic Brain Tumor Detection and Segmentation Using U-Net Based Fully Convolutional Networks]

Per-Pixel class labels



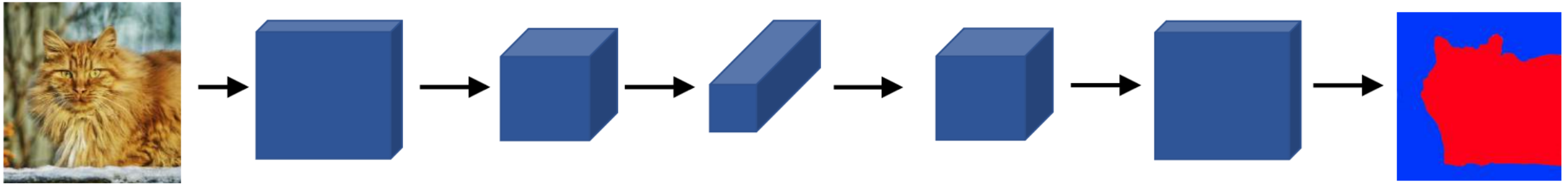
Per-Pixel class labels



1. Car
2. Building
3. Road

Segmentation Map

DL for semantic segmentation



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