# DL: Сверточные сети Детектирование объектов

#### План

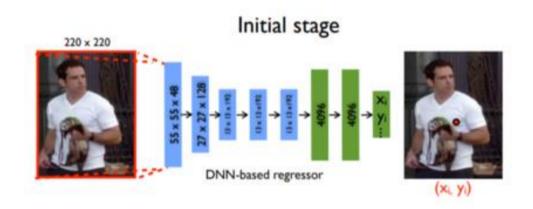
- Семантическая сегментация
- Детектирование
- Извлечение точек

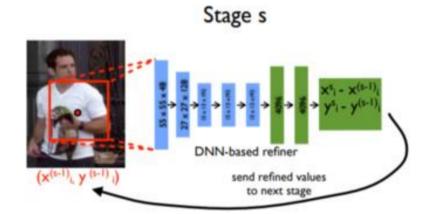
### Pose estimation



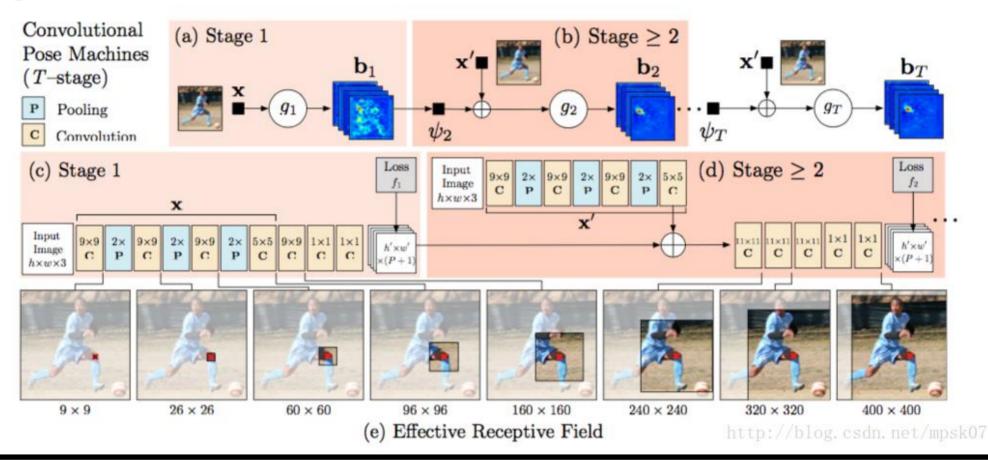
https://nanonets.com/blog/human-pose-estimation-2d-guide/

# **CPM**





#### **CPM**

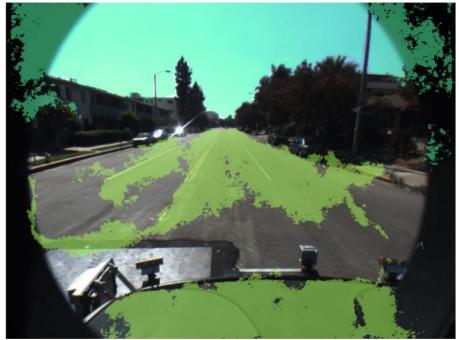


## Семантическая сегментация



Семантическая сегментация:

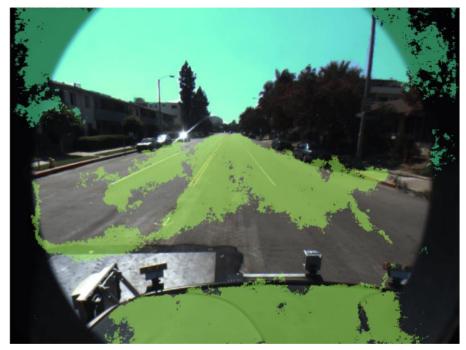
Segnet



web(fullfile(docroot, 'vision/ug/automate-ground-truth-labeling-for-semantic-segmentation.html'))

Семантическая сегментация:

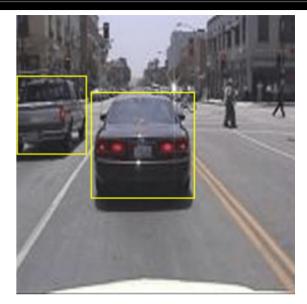
deepLabv3



web(fullfile(docroot, 'vision/ref/deeplabv3pluslayers.html'))

#### **Faster RCNN**

web(fullfile(docroot, 'vision/ref/fasterrcnnlayers.html'))



web(fullfile(docroot, 'vision/ug/object-detection-using-deep-learning.html'))

web(fullfile(docroot, 'vision/ug/object-detection-using-faster-r-cnn-deep-learning.html'))

#### Yolo v2

web(fullfile(docroot, 'vision/ug/getting-started-with-yolo-v2.html'))

web(fullfile(docroot, 'vision/ug/train-an-object-detector-using-you-only-look-once.html'))

### Yolo v3

web(fullfile(docroot, 'vision/ug/getting-started-with-yolo-v3.html'))

web(fullfile(docroot, 'vision/ug/object-detection-using-yolo-v3-deep-learning.html'))