Results on the task:

Computer vision and reinforcement learning

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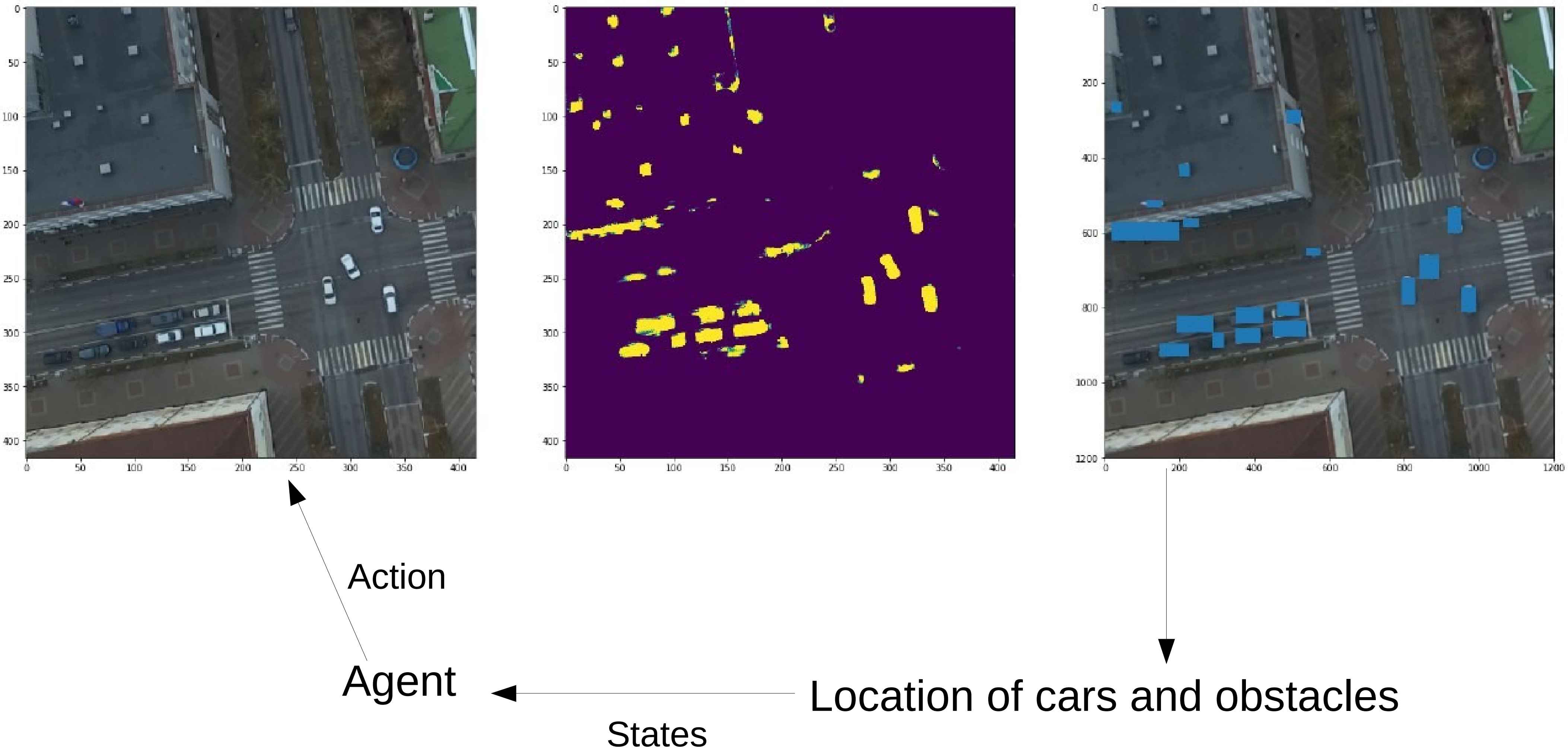


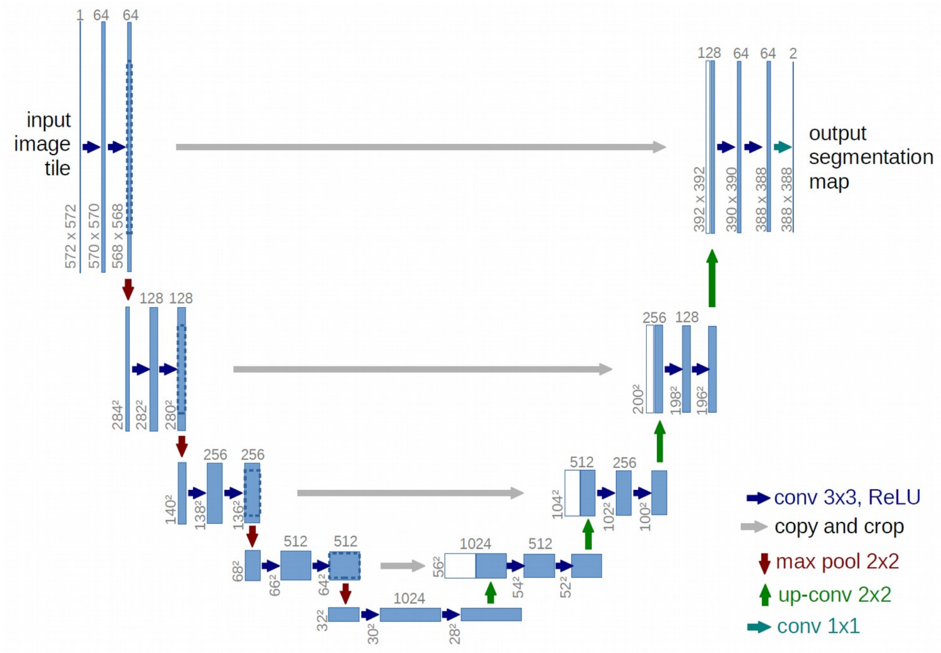
Action

Agent

States

Location of cars and obstacles

Car recognition



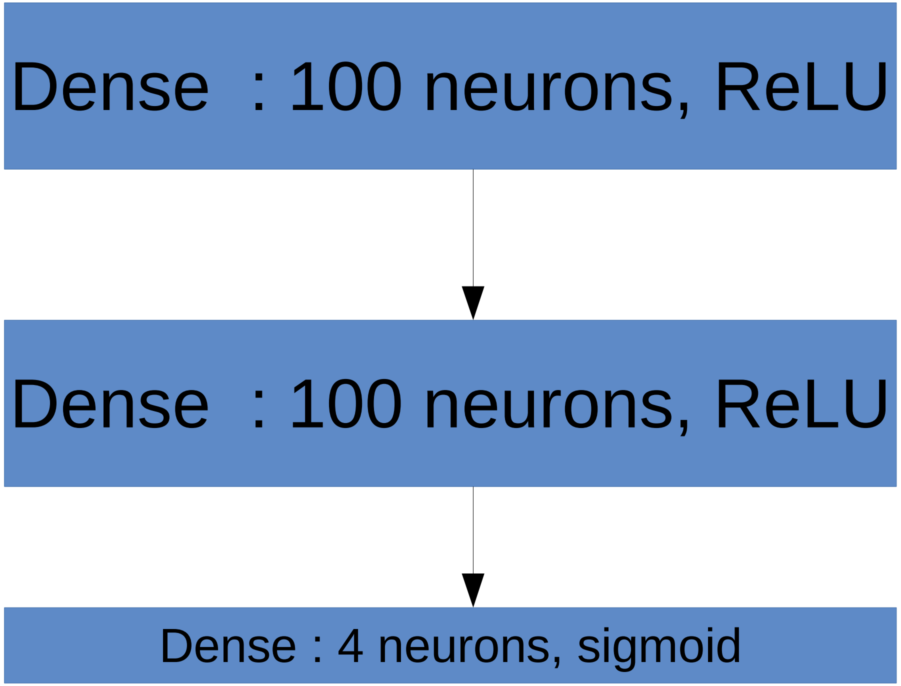
U-net DNN

+

scikit-image

image processing in python

Reinforcement learning



Dense : 100 neurons, ReLU

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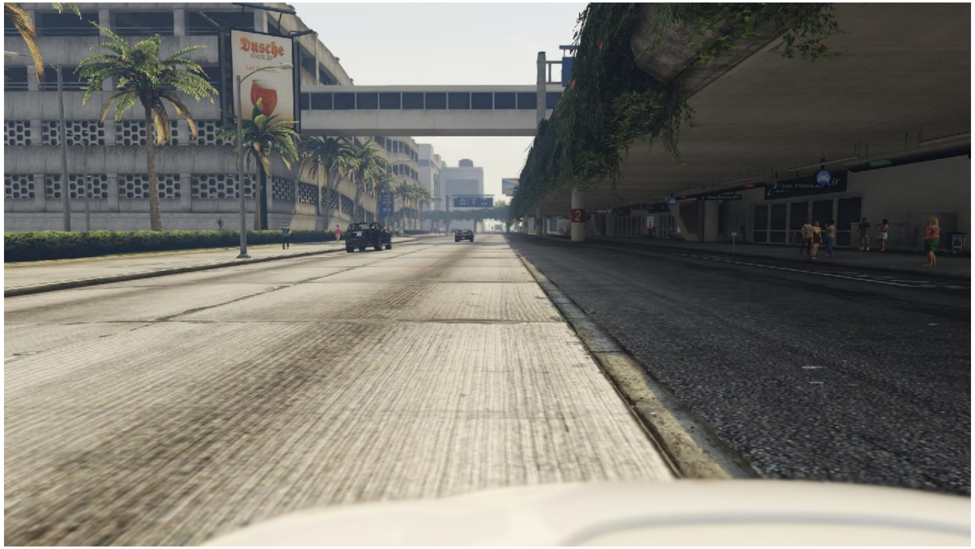
Dense : 4 neurons, sigmoid

Future

- More real examples instead of synthesized
- A faster and lighter network for car detection

U-Net + Atrous convolution
(or ASPP)

- Using the segmentation map as the state of the evironment


Dusche
GOLD