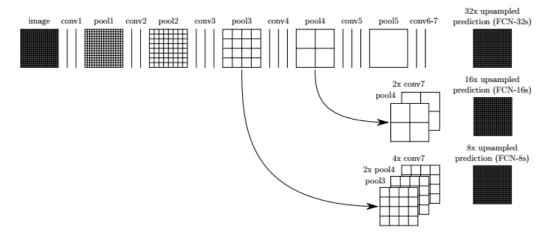
The goal of the project was all about to implement a Fully Connected Network for Semantic Segmentation starting from a pretrained model that was the VGG16.

The steps were roughly the following:

- Upsampled a given fully connected layer
- Transformed a fully connected layer into a convolutional 1x1 layer
- Added skipping connections

The method implemented recalls the 2015 paper "Fully Connected Layer" from UC Berkely.



The network has been trained with the following parameters:

keep_prob: 0.8learning rate: 0.0001

epochs: 10batch_size: 1

Besides, the loss function of the network is a cross-entropy, an Adam optimizer and a L2-regularizer for the kernel weights have been picked.

The final loss amounted at 0.017 at the 10th epoch.

```
raining...
EPOCH 1
Loss: = 0.072
EPOCH 2
Loss: = 0.207
EPOCH 3 ..
Loss: = 0.060
EPOCH 4
EPOCH 5
      = 0.105
Loss:
EPOCH 6
Loss: = 0.031
EPOCH 7
Loss: =
EPOCH 8 ...
Loss: = 0.073
EPOCH 9
Loss: = 0.071
EPOCH 10 ...
.oss: = 0.017
```

Below a bunch of the results over the images elaborated.







