

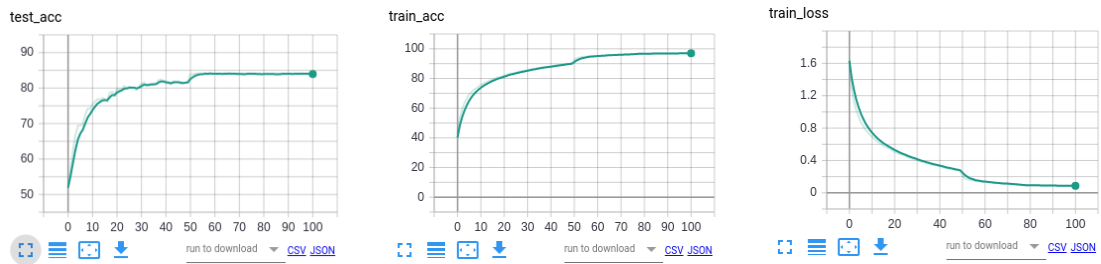
Report_AI_homework_1_由迪_1901213160

1 Report the final accuracy (10,000 steps) of training and testing for the CIFAR-10 dataset.

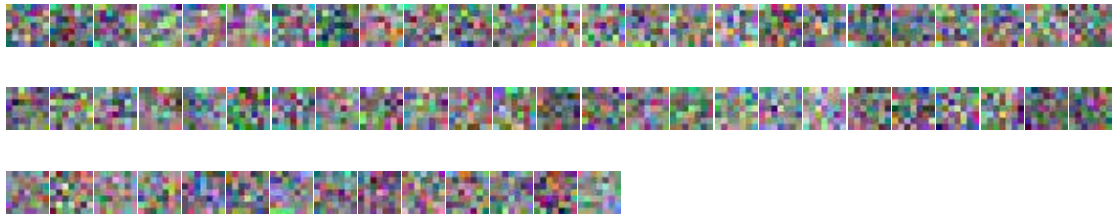
the final accuracy of training: 96.99%

the final accuracy of testing: 83.92%

2 Visualize the learning progress (tensorboardX in Pytorch).

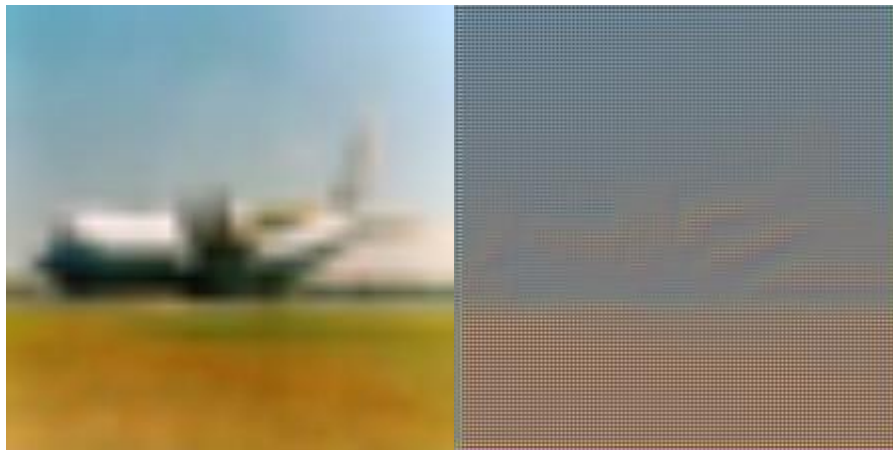


3 Visualization the 64 filters in the layer 'Conv1'



4 Feature mapping visualization

Visualize the feature maps of the layer 'Conv1' and also the last layer in the block 'Conv5_x'.





5 Feedback

I spent 36 hours for this assignment. This course is very meaningful and deepens my understanding of image processing. This assignment is very practical and has exercised my ability. I hope I can learn more about PyTorch in the following lectures.

6 Reference link

<https://github.com/dyhan0920/PyramidNet-PyTorch>

<https://pytorch.org/docs/stable/modules/torchvision/models/resnet.html>