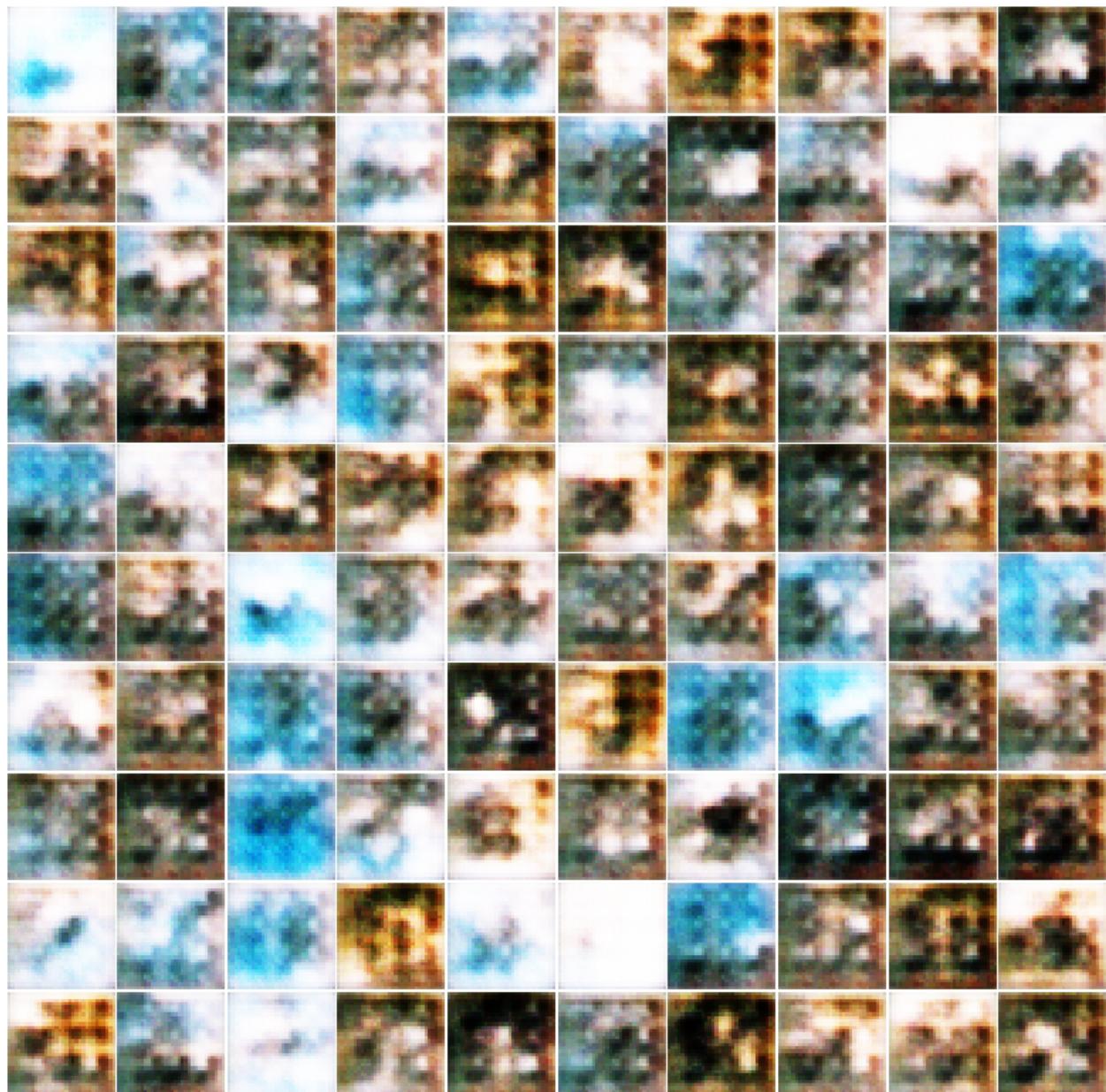
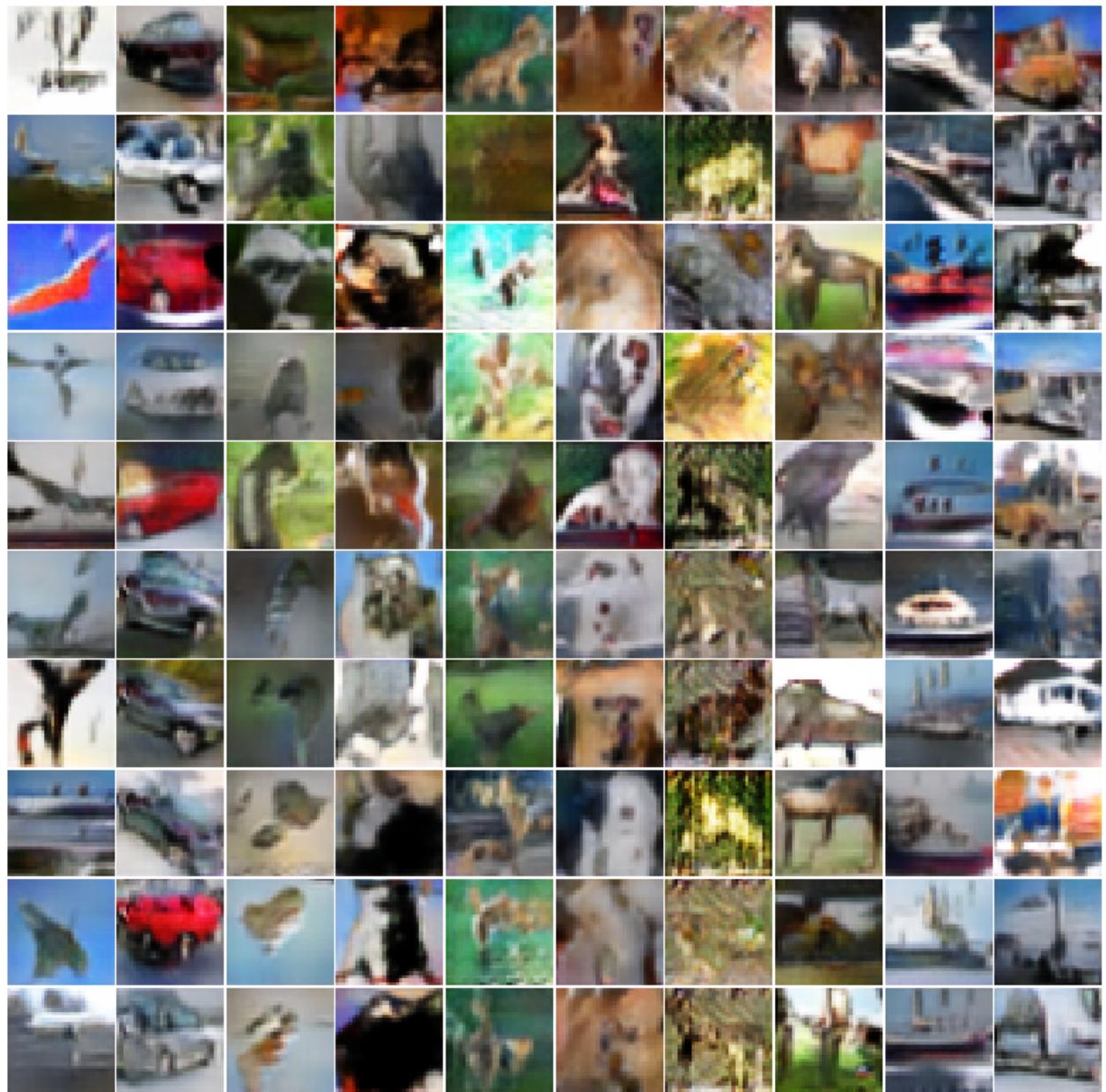


CS547 HW7
Tianqi Wu

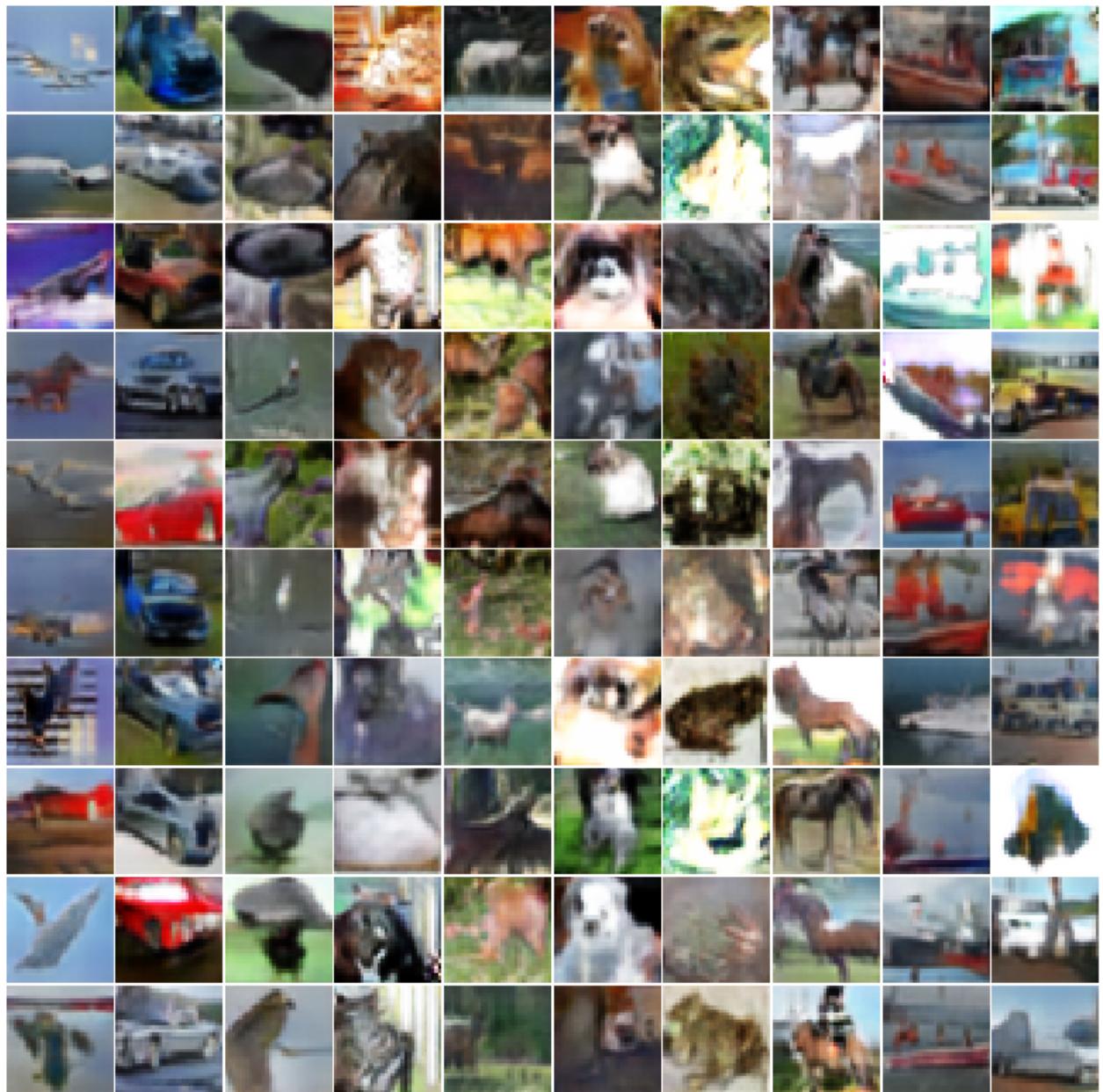
Epoch 0 :



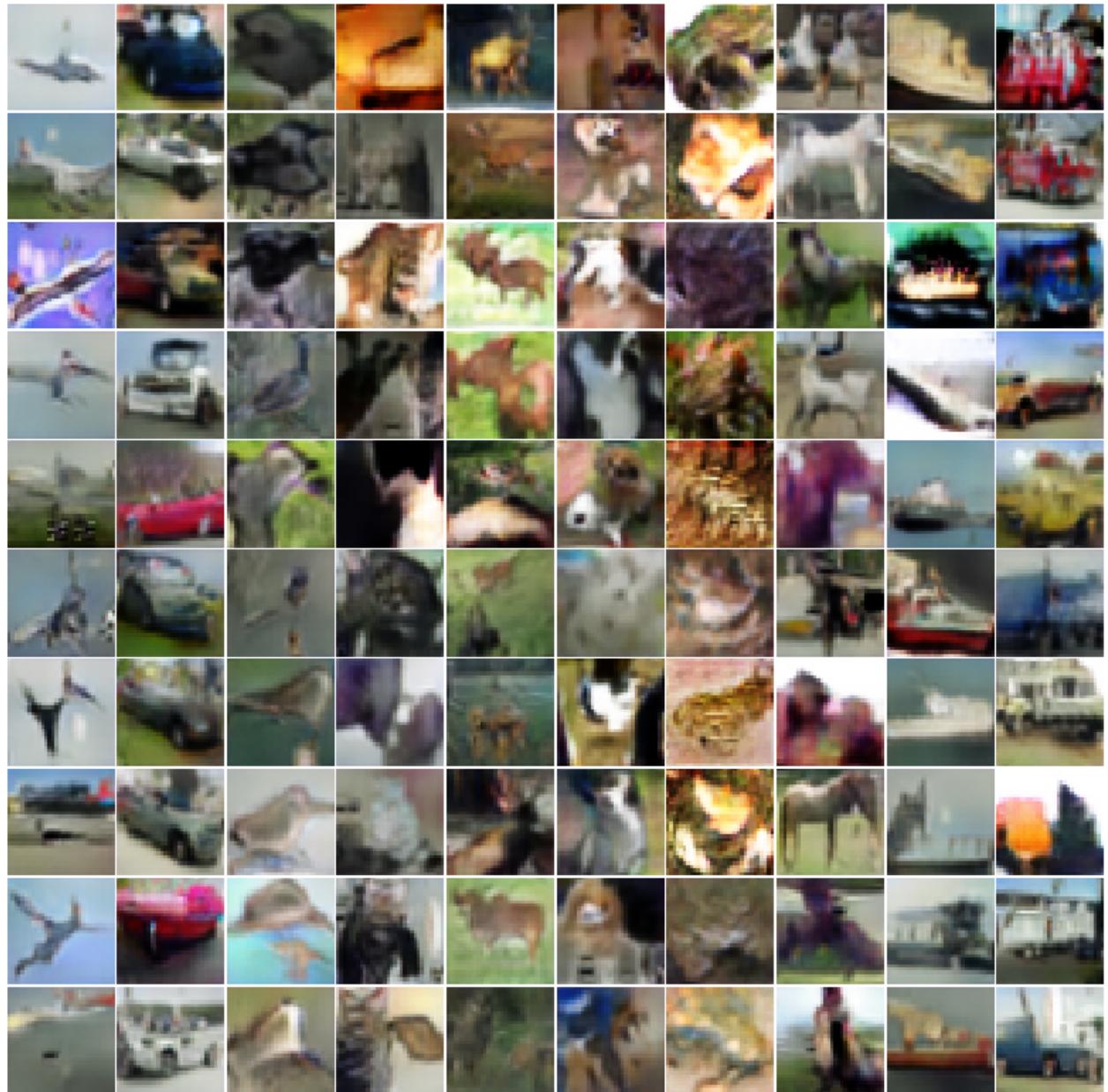
Epoch 40:



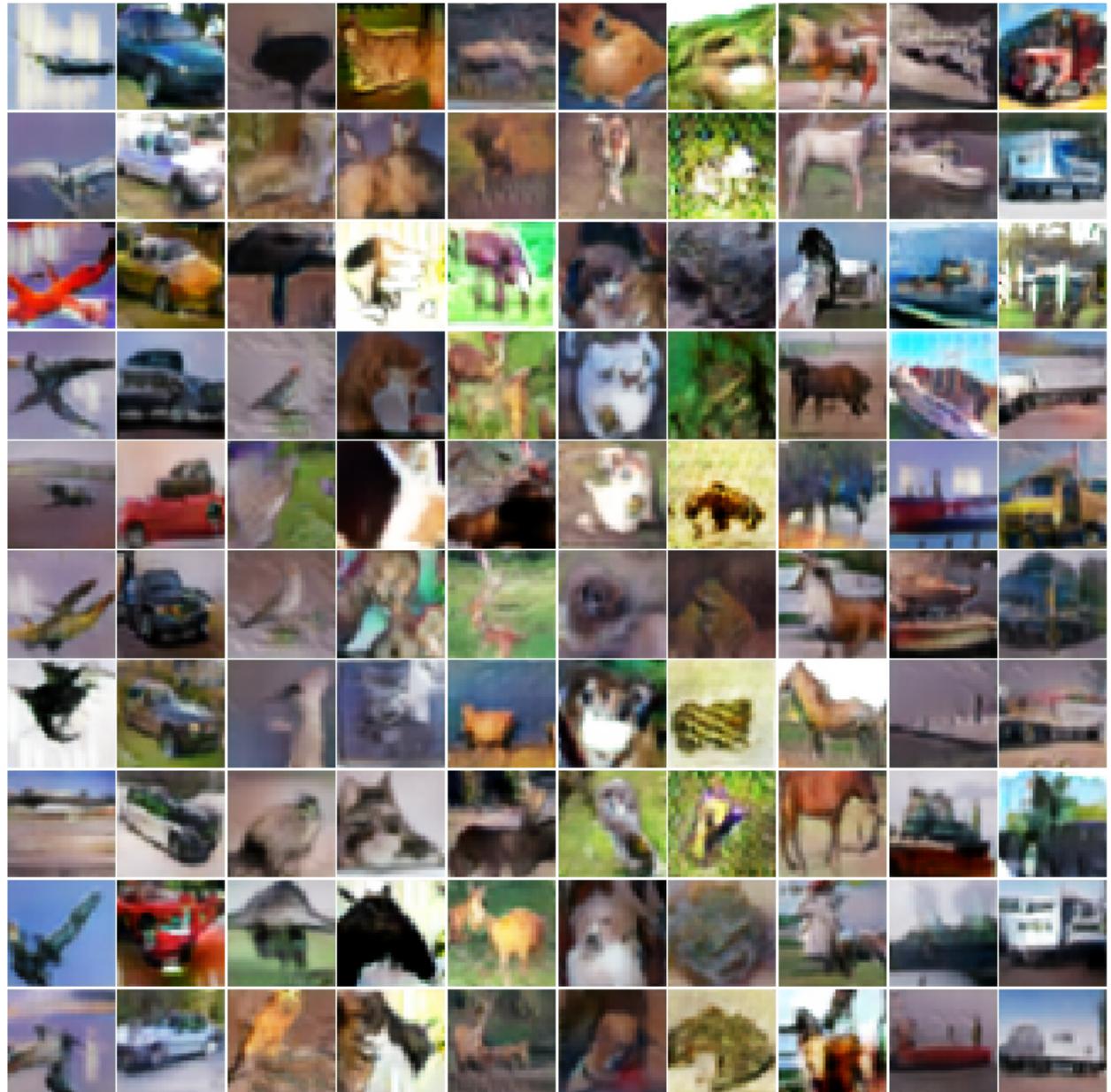
Epoch 80:



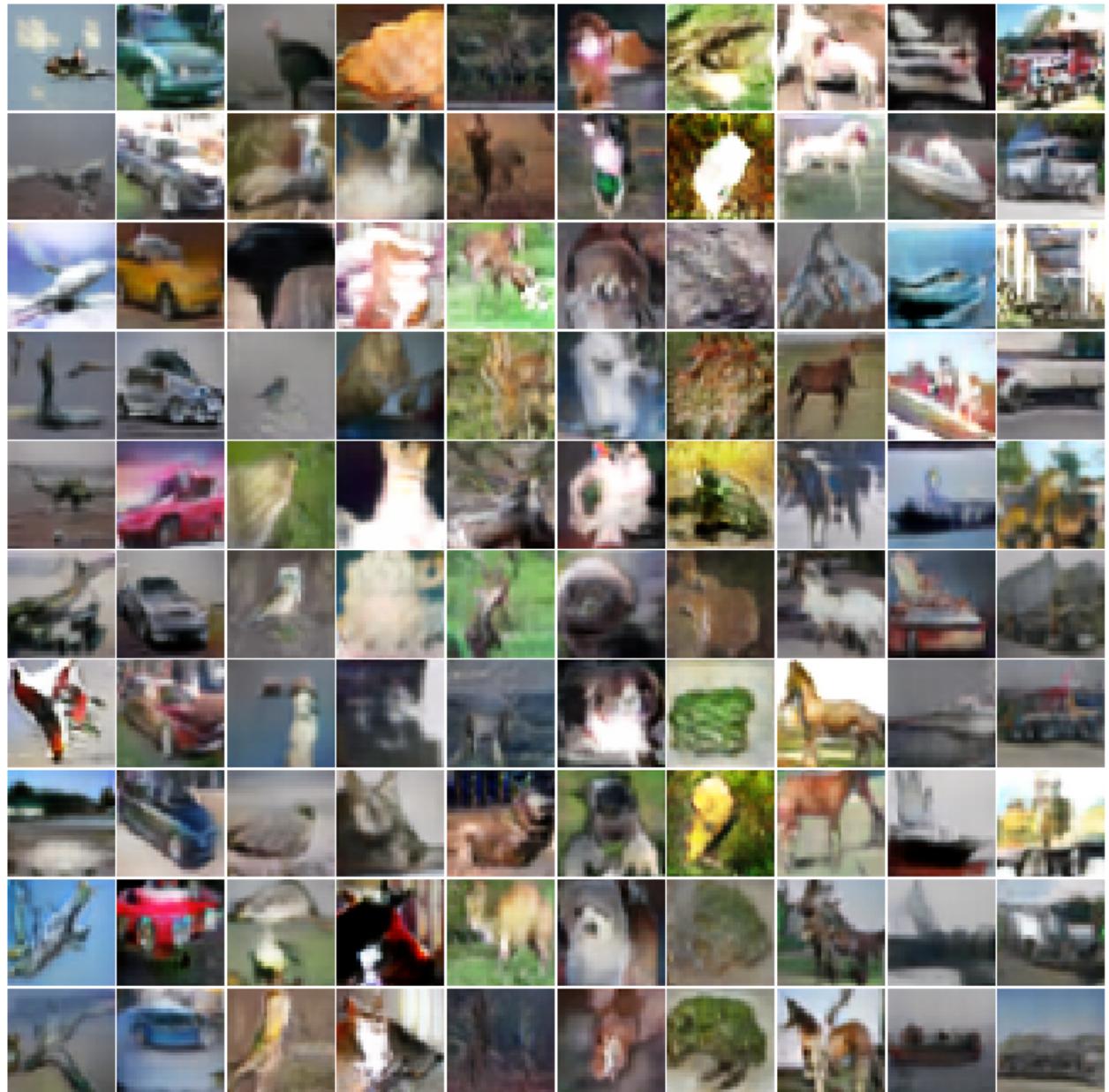
Epoch 120:



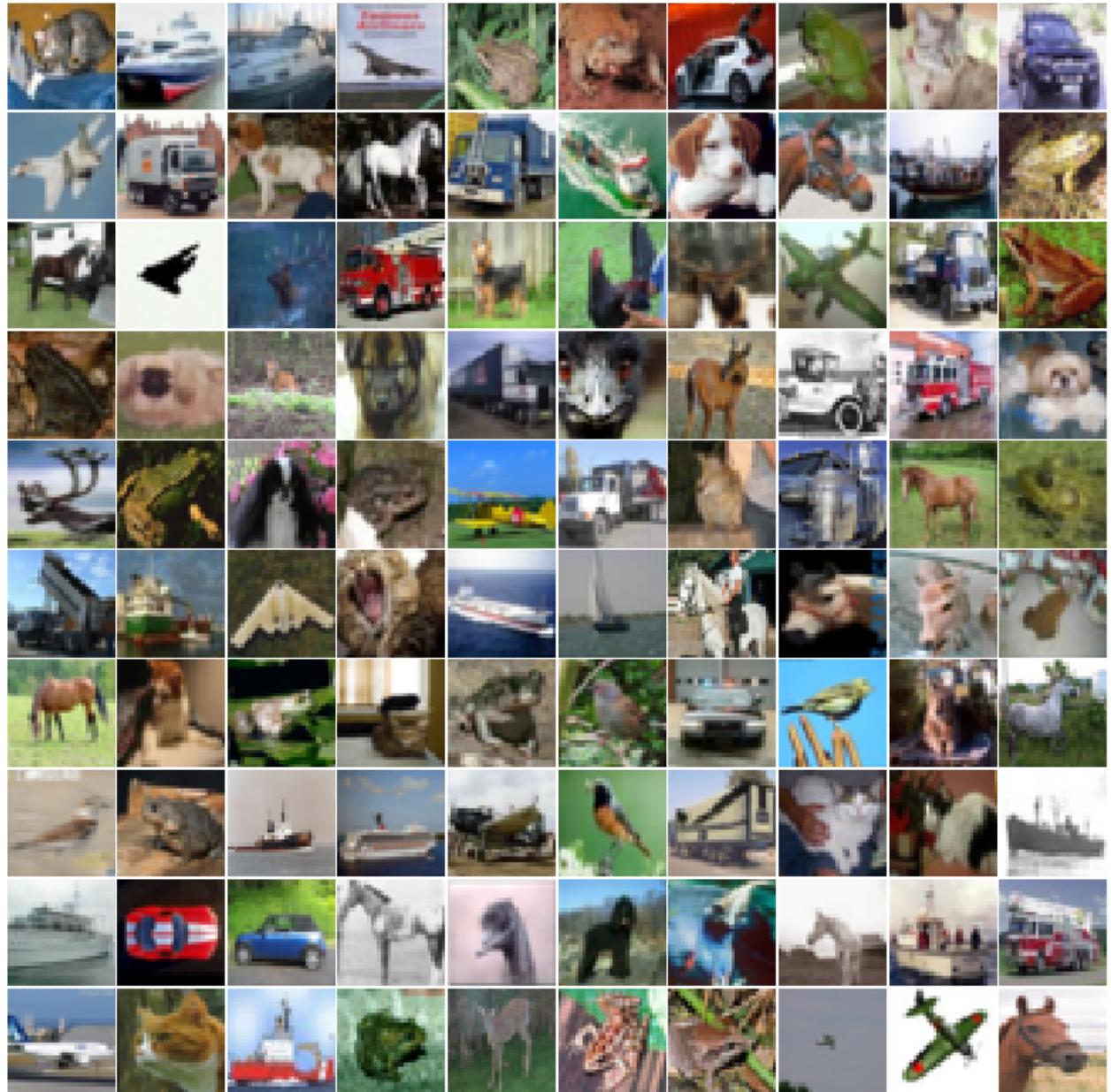
Epoch 160:



Epoch 200:



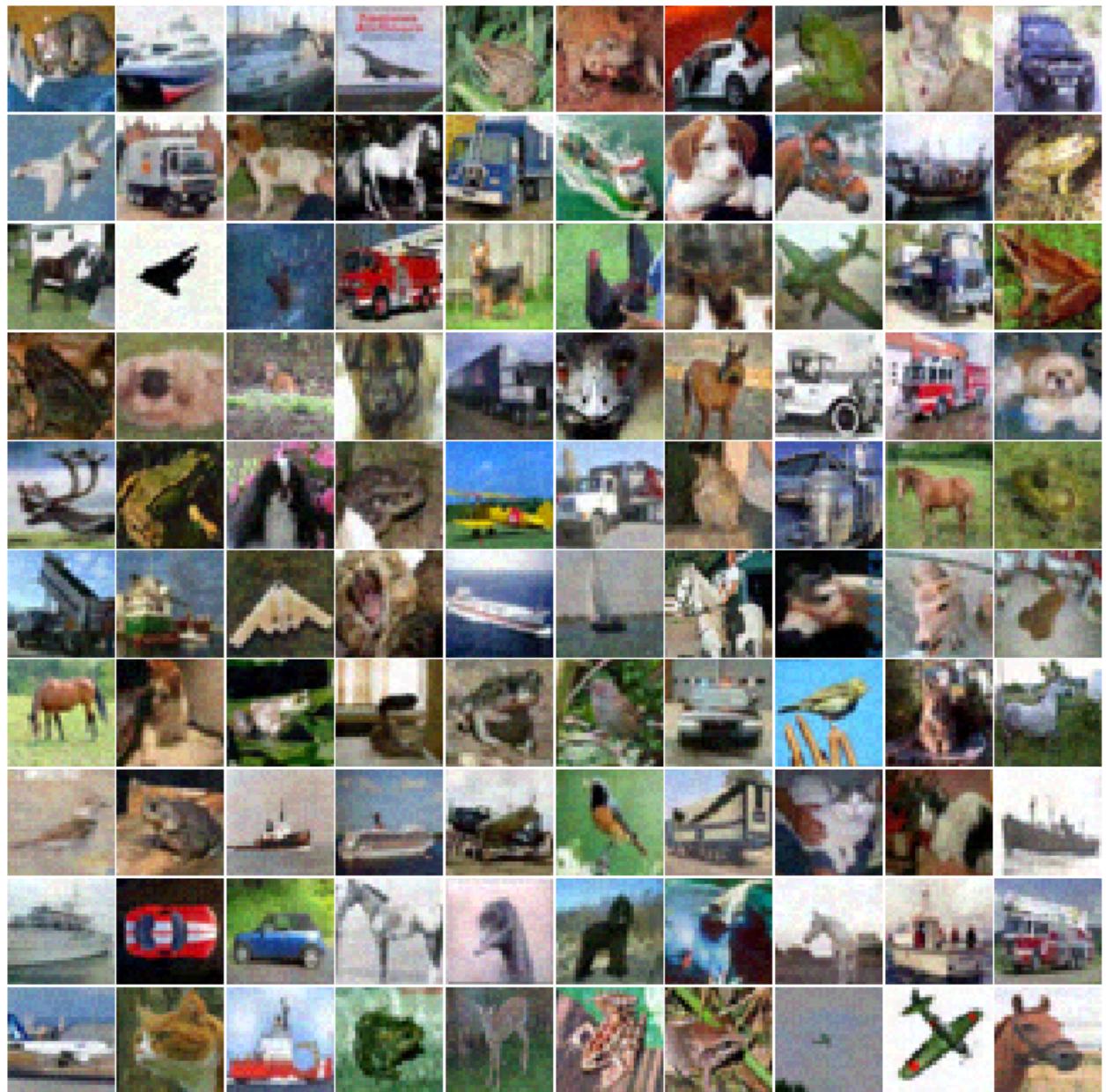
real images



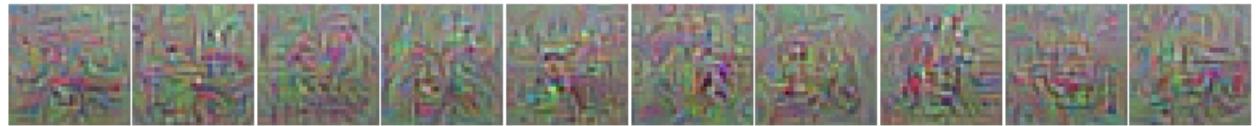
gradients



altered images



Synthetic images maximizing class output for discriminator trained without the generator



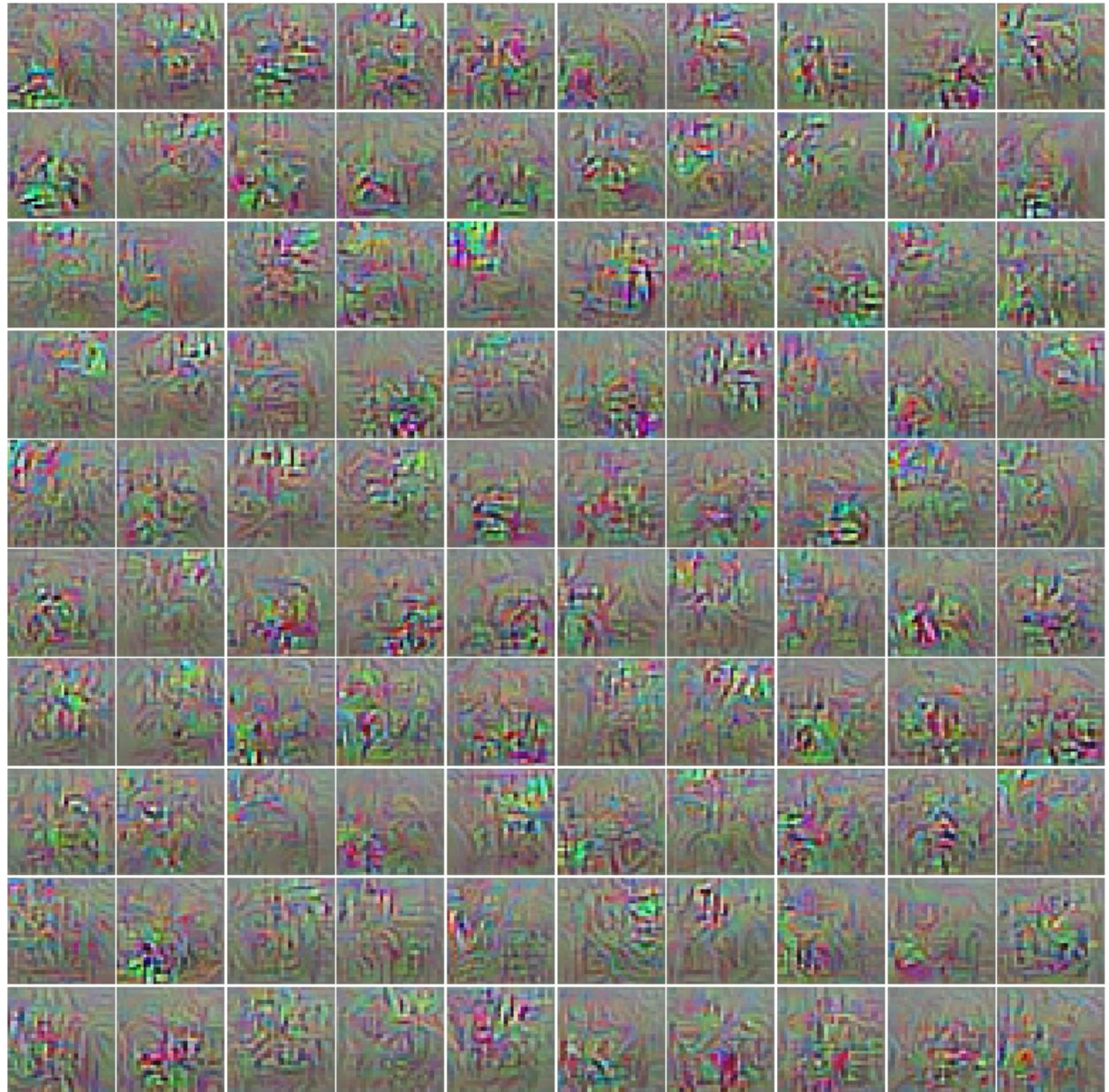
Synthetic images maximizing class output for discriminator trained with the generator



*Synthetic images maximizing layer 4 features for discriminator
trained without the generator*



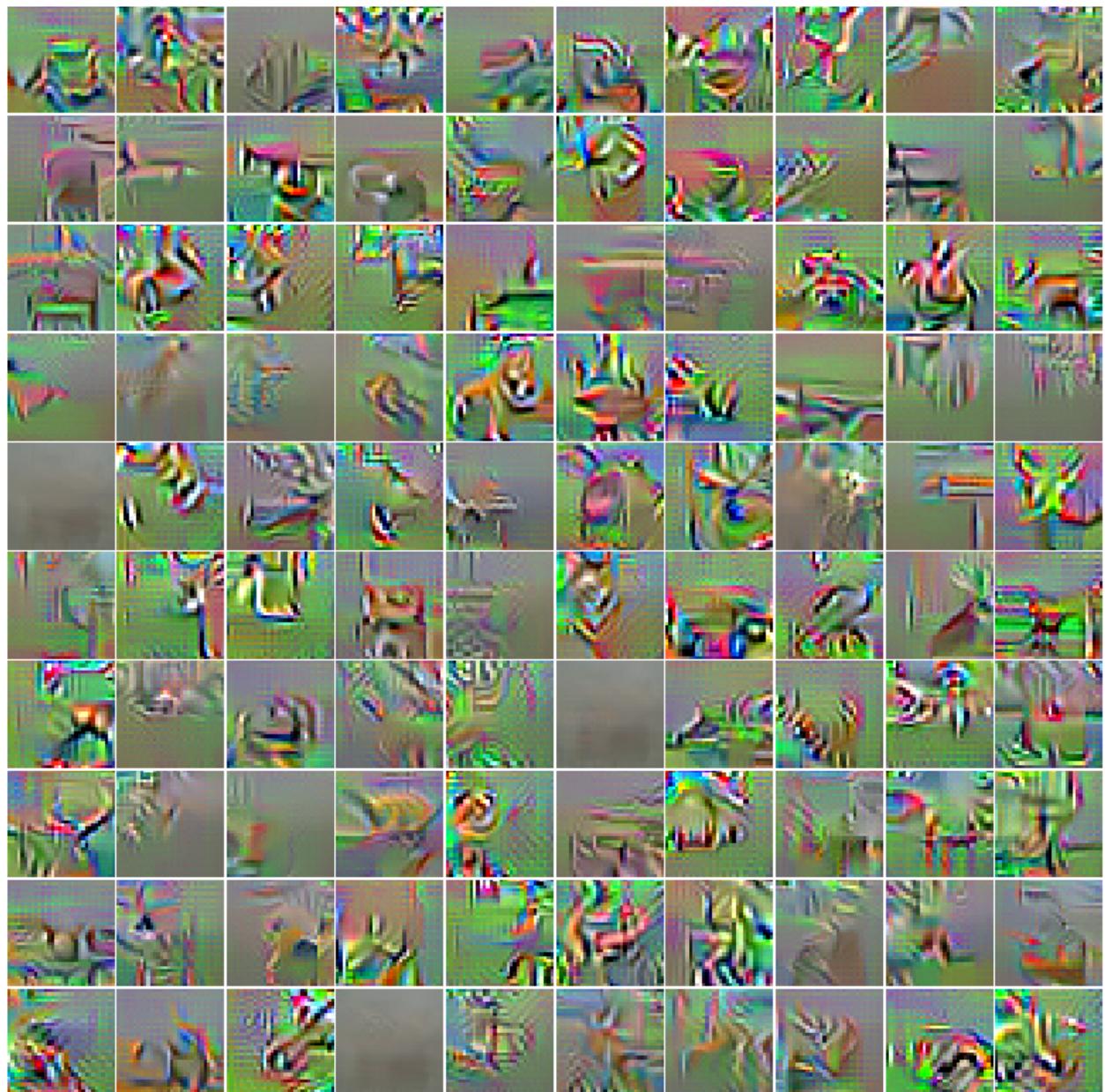
Synthetic images maximizing layer 8 features for discriminator trained without the generator



Synthetic images maximizing layer 4 features for discriminator trained with the generator



Synthetic images maximizing layer 8 features for discriminator trained with the generator



Model without generator

Training accuracy: 94.10%

Test accuracy: 86.86%

Model with generator:

Training accuracy: 90.59%

Test accuracy: 83.04%