

## ML HW6 Report

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1. Describe the difference between WGAN\* and GAN\*\*, list at least two differences.
  - i. The first and probably the most important difference between WGAN and GAN is that WGAN replace the Jensen-Shannon divergence with Wasserstein distance as the loss function in order to improve the stability in the training process.
  - ii. Second, WGAN removes the Sigmoid layer in standard discriminator of GAN as well as adds weight clipping in order to enforce Lipschitz constraint.
2. Please plot the “Gradient norm” result.

I have trained WGAN-GP and WGAN for 20 epochs.

