Supplementary Materials: Generator Knows What Discriminator Should Learn in Unconditional GANs

1 Additional results and visualization

We additionally provide results and their corresponding feature visualization for the datasets used in the main paper including CIFAR-10 [4], FFHQ [3], LSUN cat, horse, church [5], AFHQ [2] and Landscapes [1]. From Fig. 1 to Fig. 5, we show uncurated random samples generated by our method. For FFHQ and LSUN dataset, we sample from StyleGAN2 trained with GGDR, and we sample from ADA trained with GGDR for the others. From Figure 6 to Figure 8, we visualize the guidance feature maps from the generator and their corresponding fake images. For feature map visualization, we run $k$-means($k = 6$) clustering on 64 samples. All visualized feature map size is $64 \times 64$ except CIFAR-10($8 \times 8$).

References

Fig. 1. Uncurated results on (top) FFHQ and (bottom) LSUN Cat.
Fig. 2. Uncurated results on (top) LSUN Horse and (bottom) LSUN Church.
Fig. 3. Uncurated results on (top) AFHQ Cat and (bottom) AFHQ Dog
Fig. 4. Uncurated results on (top) AFHQ Wild and (bottom) Landscape.
Fig. 5. Uncurated results on CIFAR-10.
Fig. 6. Visualization of fake images and their corresponding generator feature maps on FFHQ, LSUN Cat and LSUN Horse.
Fig. 7. Visualization of fake images and their corresponding generator feature maps on LSUN Church, AFHQ Cat and AFHQ Dog.
Fig. 8. Visualization of fake images and their corresponding generator feature maps on AFHQ Wild, Landscapes and CIFAR-10.