



Figure R1: Average of ImageNet-1k.

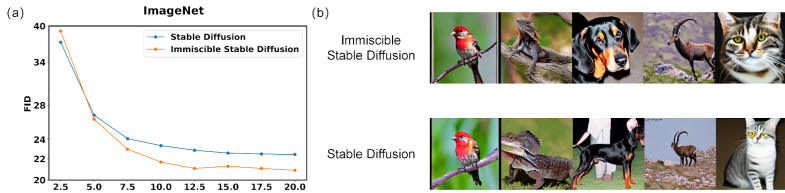


Figure R2: Evaluation of baseline and immiscible class-conditional Stable Diffusion on ImageNet dataset, using 20 inference steps. (a) FID of two models with different training steps (b) Qualitative comparison of two models trained 20k steps.

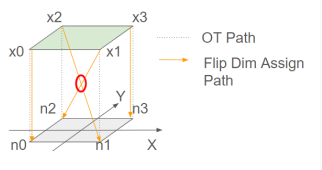


Figure R4: Illustration of Diffusion Path Crossing in Flip Dimension Assignment.

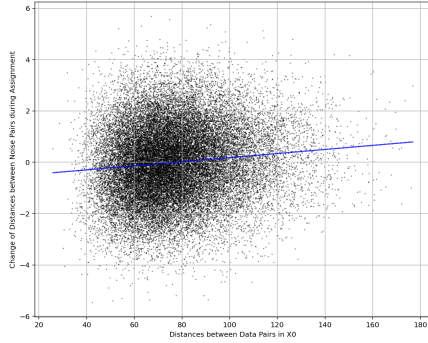


Figure R5: Distances between image data points and change of distance between their corresponding noise points during assignment.

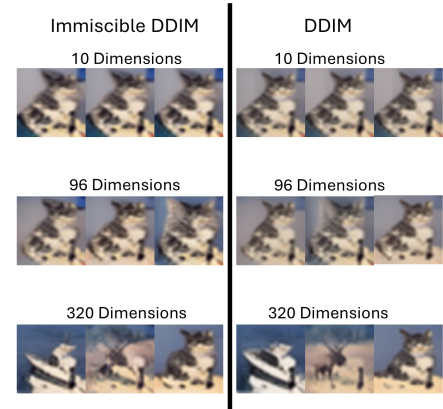


Figure R7: Image generation on DDIM+CIFAR10 with noise perturbation on few dimensions.

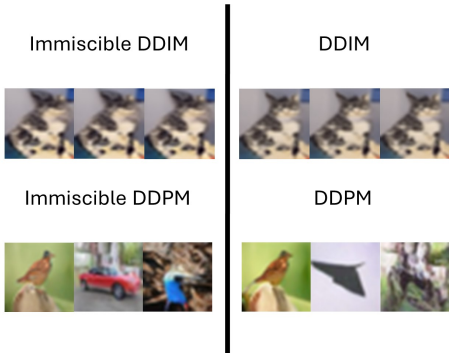


Figure R8: Image generation on DDIM/DDPM+CIFAR10 with the same noise and different global seed.

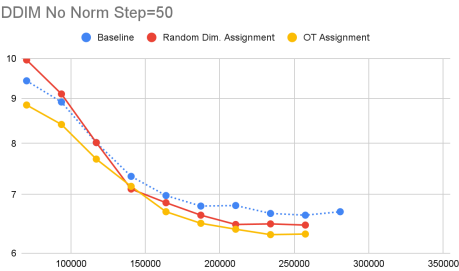


Figure R3: Comparison of the performances of vanilla, minibatch-OT and minibatch-flip-dimension-assignment diffusion.

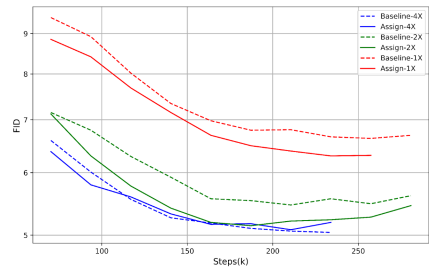


Figure R6: Realizing immiscibility by projecting images to a larger standard deviation.

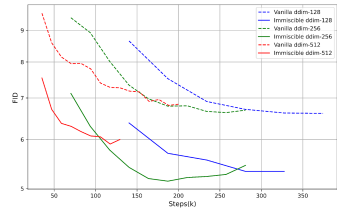


Figure R9: FID of immiscible and vanilla DDIM with different batch sizes.