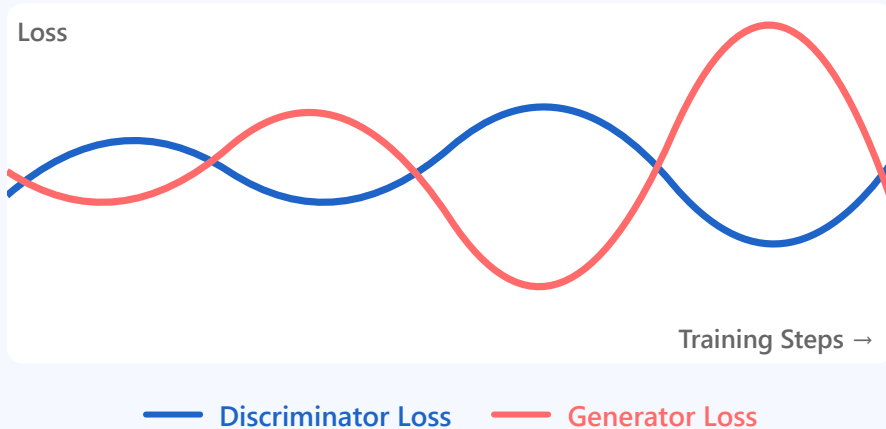


Training Instability

Oscillating Loss Patterns



Key Issues

⚠ No convergence

⚠ G/D imbalance

⚠ No stopping criterion

⚠ Loss \neq Quality

Characteristics

- Oscillating losses
- Hyperparameter sensitive
- Loss-quality disconnect

Core Problems

- ✗ Generator/Discriminator imbalance
- ✗ No clear stopping criterion
- ✗ Loss doesn't correlate with quality

✓ Stabilization Techniques

Spectral Normalization

Self-Attention

Progressive Growing

LR Scheduling