

Other Improvements



ProGAN

2017

Progressive growing of resolution for high-quality image generation

Resolution Scaling



SAGAN

2018

Self-attention mechanisms for long-range dependencies

Attention



CycleGAN

2017

Unpaired image-to-image translation with cycle consistency

Unpaired Translation



StyleGAN

2018

Style-based generator architecture with unprecedented control

Style Control



BigGAN

2018

Large-scale training with architectural tricks and optimization

Scale



GauGAN

2019

NVIDIA's semantic image synthesis from layout sketches

Semantic Control



Continuous Evolution



Alternative Approach

Each variant addresses specific limitations and pushes boundaries in different directions: resolution, quality, control, and applicability

Diffusion models emerged as a powerful alternative, offering stable training and high-quality generation