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About me

MasaCtrl

- MasaCtrl: Tuning-Free Mutual Self-Attention Control for Consistent Image Synthesis and Editing
- <https://arxiv.org/abs/2304.08465>
- ICCV 2023

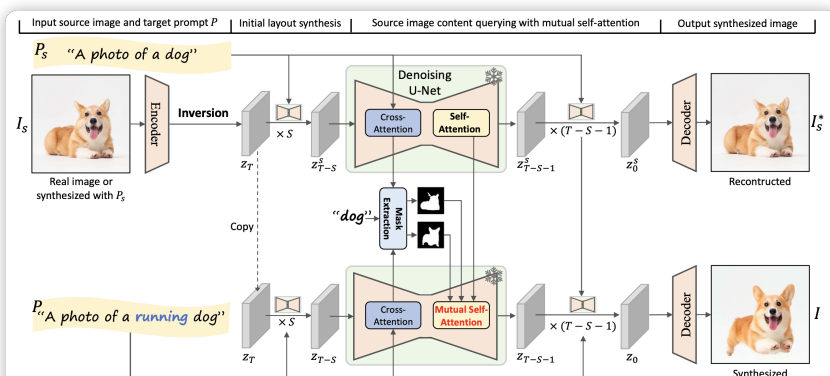


Figure 3: Pipeline of the proposed MasaCtrl. Our method tries to perform complex non-rigid image editing and synthesize content-consistent images. The source image is either real or synthesized with source text prompt P_s . During the denoising process for image synthesis, we convert the self-attention into mutual self-attention to query image contents from source image I_s , so that we can synthesize content-consistent images under the modified target prompt P .

DDIM Inversion
self-attention
mutual self-attention
Query
Key
Value
self-attention
attention
cross-attention
cross-attention map
mask
mutual self-attention

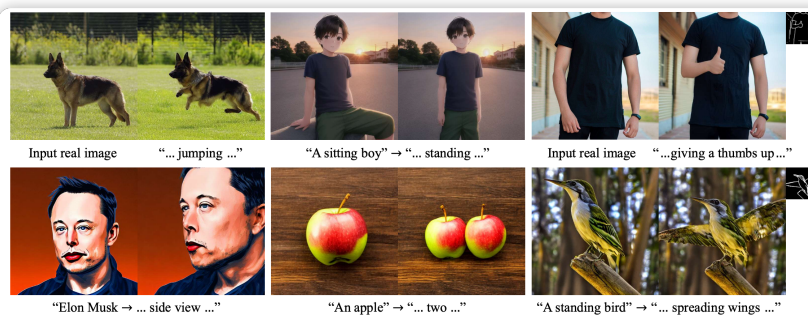


Figure 1: Our method MasaCtrl can perform text-based non-rigid image synthesis and real image editing without finetuning. Meanwhile, our method can be easily integrated into controllable diffusion models, like T2I-Adapter [17] or ControlNet [44], to perform more consistent and faithful synthesis and editing (last column).

- <https://github.com/TencentARC/MasaCtrl>

Newer

Older

2024-12-18
PnP-Diffusion

2024-12-17
DAAM

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