

MasterWeaver

- MasterWeaver: Taming Editability and Face Identity for Personalized Text-to-Image Generation
- <https://arxiv.org/abs/2405.05806>
- ECCV 2024

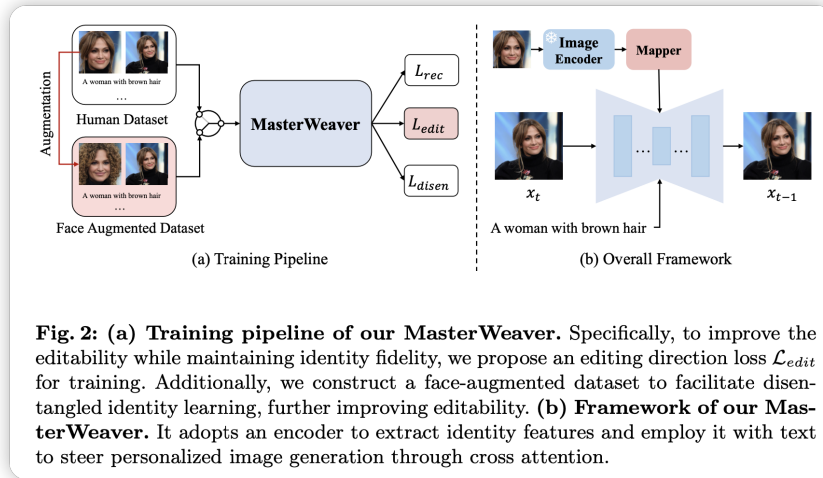


Fig. 2: (a) Training pipeline of our MasterWeaver. Specifically, to improve the editability while maintaining identity fidelity, we propose an editing direction loss $\mathcal{L}_{edit}$ for training. Additionally, we construct a face-augmented dataset to facilitate disentangled identity learning, further improving editability. **(b) Framework of our MasterWeaver.** It adopts an encoder to extract identity features and employ it with text to steer personalized image generation through cross attention.

id
MasterWeaver
encoder
loss

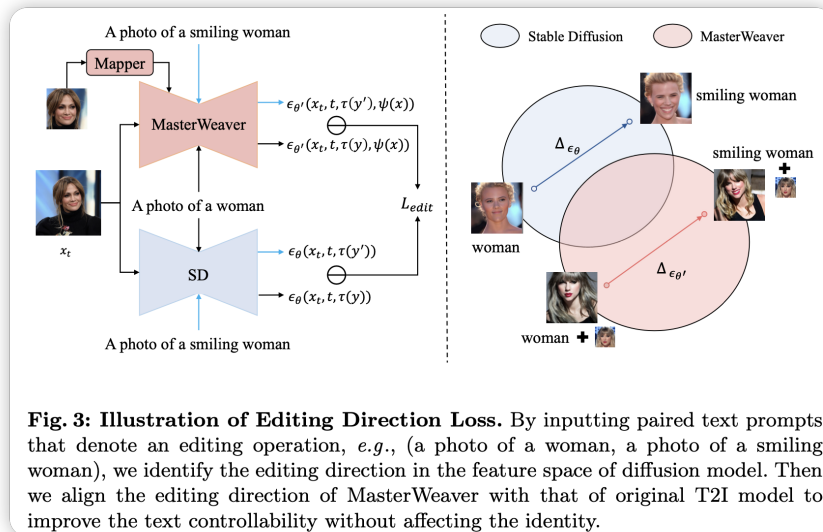


Fig. 3: Illustration of Editing Direction Loss. By inputting paired text prompts that denote an editing operation, e.g., (a photo of a woman, a photo of a smiling woman), we identify the editing direction in the feature space of diffusion model. Then we align the editing direction of MasterWeaver with that of original T2I model to improve the text controllability without affecting the identity.

loss
prompt
prompt
id

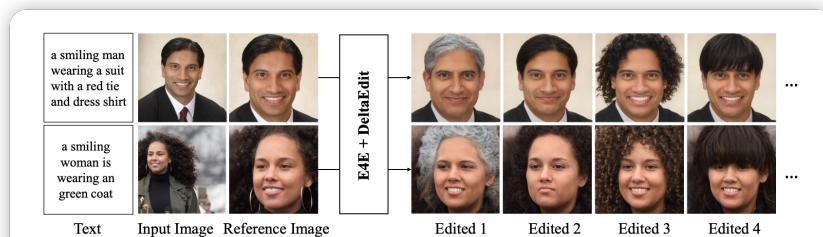


Fig. 4: Construction of Face-Augmented Dataset. We employ E4E [67] and DeltaEdit [53] to edit the attribute of the reference identity image, and construct the face-augmented dataset.

E4E
DeltaEdit

📄📄📄📄📄📄📄📄

- 📄📄LAION-Face + 📄📄📄📄📄
- 📄📄CLIP-T📄📄📄📄📄📄;CLIP-I;DINO;Face-sim📄📄📄📄📄
- 📄📄4 A100/bs16
- 📄📄<https://github.com/csyxwei/MasterWeaver>

[Newer](#)

[Older](#)

2024-09-21

BLIP-Diffusion

2024-09-12

Continual Diffusion(C-LoRA)

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