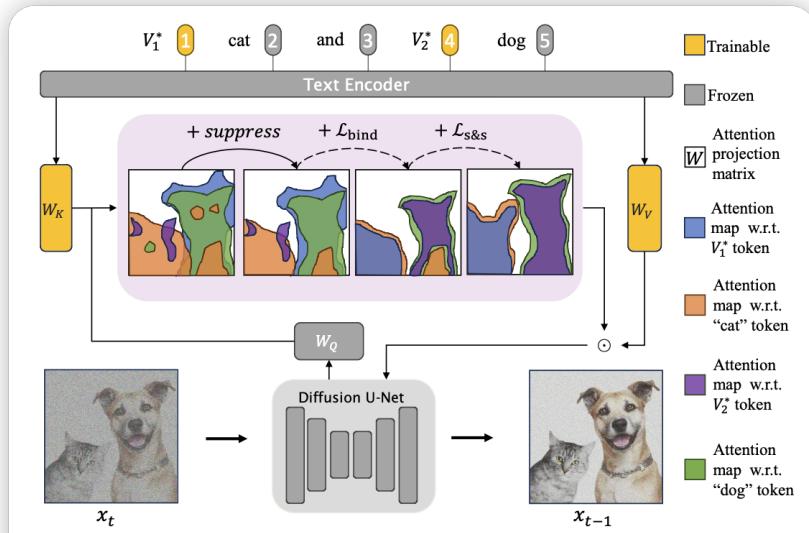




DisenDiff

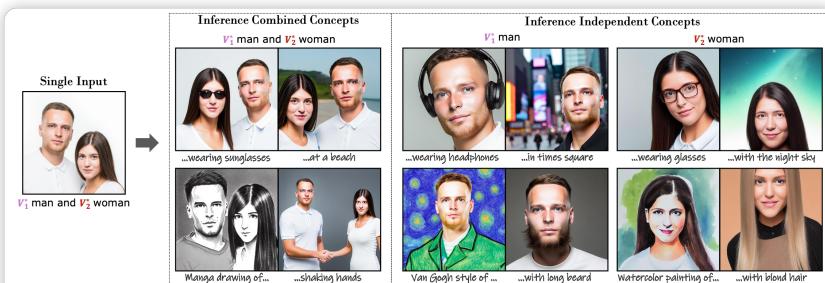
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## About me



**Figure 3. Method overview.** Our method applies constraints to the cross-attention maps of crucial tokens, ensuring the accurate representation of multiple concepts. We introduce new modifiers, denoted as  $V_i^*$ , along with the  $i$ -th class name, to represent the  $i$ -th personalized concept. Our attention calibration mechanism mainly includes three parts: the suppression technique performs self-sharpening and filters noisy small patches, the  $\mathcal{L}_{\text{bind}}$  loss steers new modifiers towards the corresponding classes, and the  $\mathcal{L}_{\text{s\&s}}$  loss guarantees the independence and completeness of the learned concepts.

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**Figure 1.** Given one *individual* image from specific users, our proposed method is capable of producing *customized* images for each concept contained in the input image, e.g., given a single input image with a man and a woman, our method excels in achieving innovative renditions of both combined (*left*) and independent (*right*) concepts, without compromising the fidelity and identity preservation, and more importantly, manifesting satisfactory interactive generation conditioned by various text prompts. Note that we employ notation  $V_i^*$  to denote the modifier of the  $i$ -th concept. Our code and data will be publicly available at: <https://github.com/MonalisaD/DisenDiff>.

-  10

- [CLIP](#)
  - [DisenDiff](#)
  - <https://github.com/MonalissaA/DisenDiff>

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## PersonalizedResidual

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## CrossInitialization

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