DynamicConcepts

- □□□□□Dynamic Concepts Personalization from Single Videos
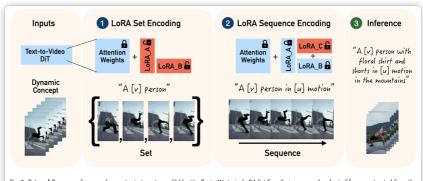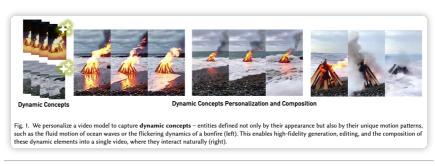- □□□□□https://arxiv.org/abs/2502.14844
- SIGGRAPH 2025

Fig. 2. **Set-and-Sequence** framework operates in two stages: (i) Identity Basis: We train *LoRA Set Encoding* on a unordered set of frames extracted from the video, focusing only on the appearance of the dynamic concept to achieve high fidelity without temporal distractions. (ii) Motion Residuals: The Basis of the Identity LoRAs is frozen and the coefficient part is augmented with coefficients of *LoRA Sequence Encoding* trained on the *temporal sequence* of full video clip, allowing the model to capture the motion dynamics of the concept.

one-shot□□LoRA□□□□□□□□□□□□□□□□□□□□LoRA□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□token□□□□□□□□

Fig. 1. We personalize a video model to capture **dynamic concepts** – entities defined not only by their appearance but also by their unique motion patterns, such as the fluid motion of ocean waves or the flickering dynamics of a bonfire (left). This enables high-fidelity generation, editing, and the composition of these dynamic elements into a single video, where they interact naturally (right).

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