

# Supplementary for SEED: A Benchmark Dataset for Sequential Facial Attribute Editing with Diffusion Models

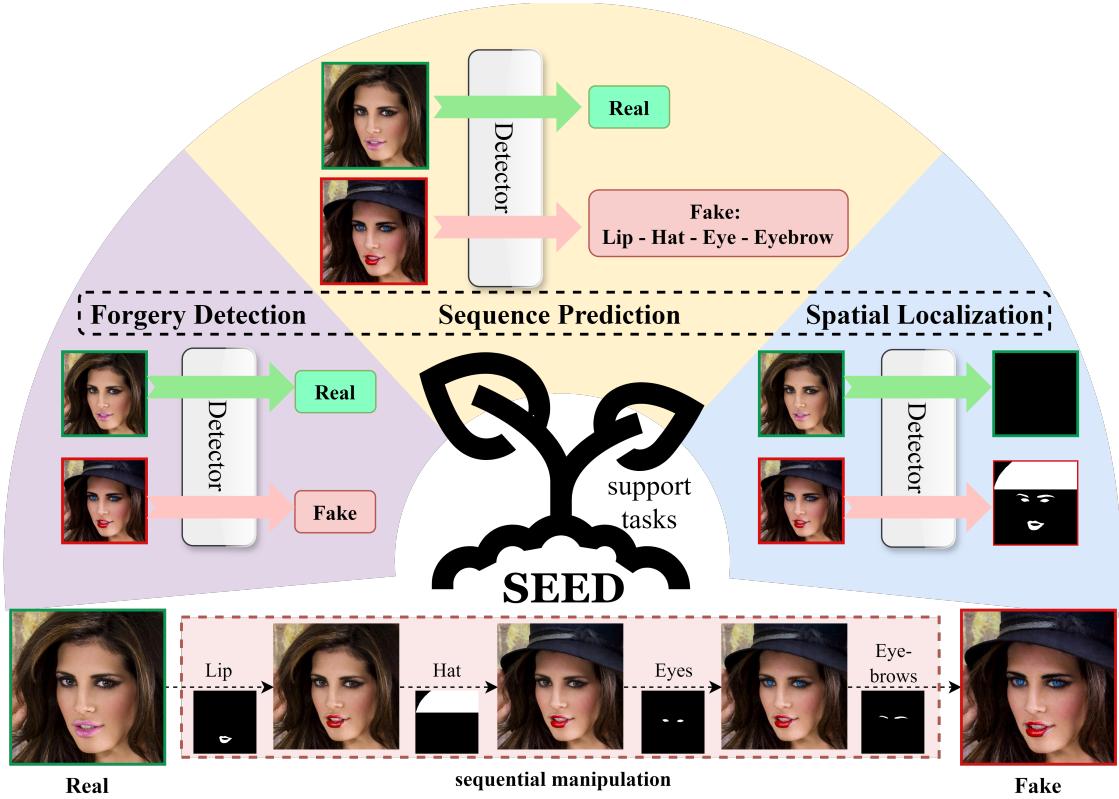
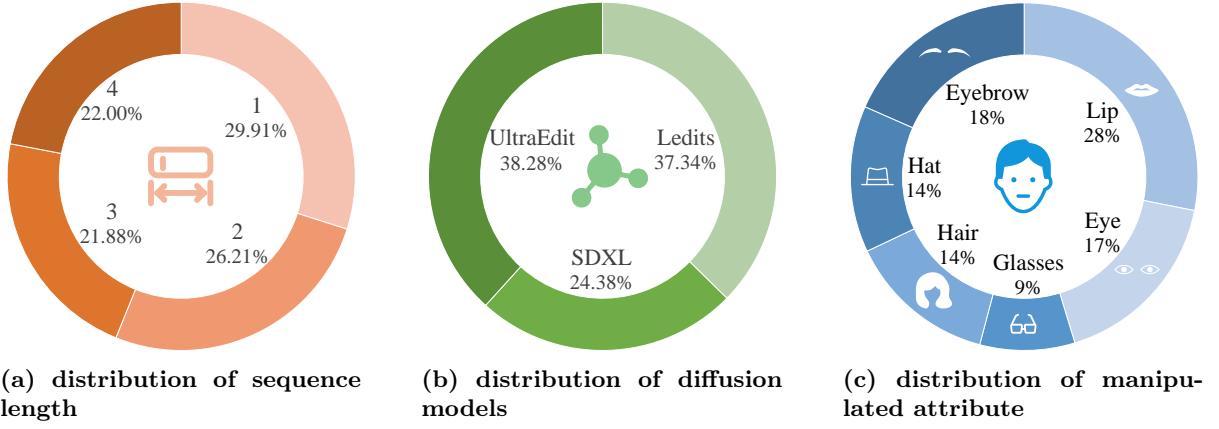


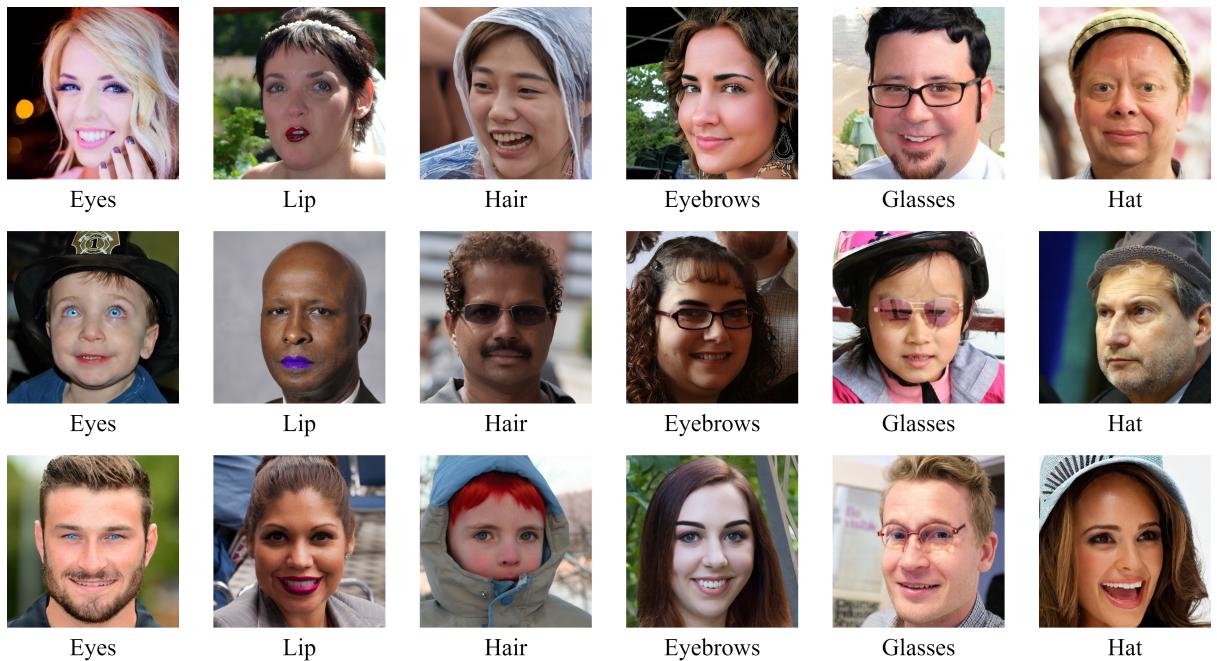
Figure 1: The tasks supported by our proposed SEED dataset. By recording detailed information such as masks and prompts during image manipulation, our SEED dataset can support a variety of downstream tasks such as forgery detection, sequence prediction, and spatial localization.

Table 1: Some prompt examples used by our proposed pipeline in the data generation process. By modifying from different dimensions, such as *color*, *style*, etc., our data samples are made more diverse.

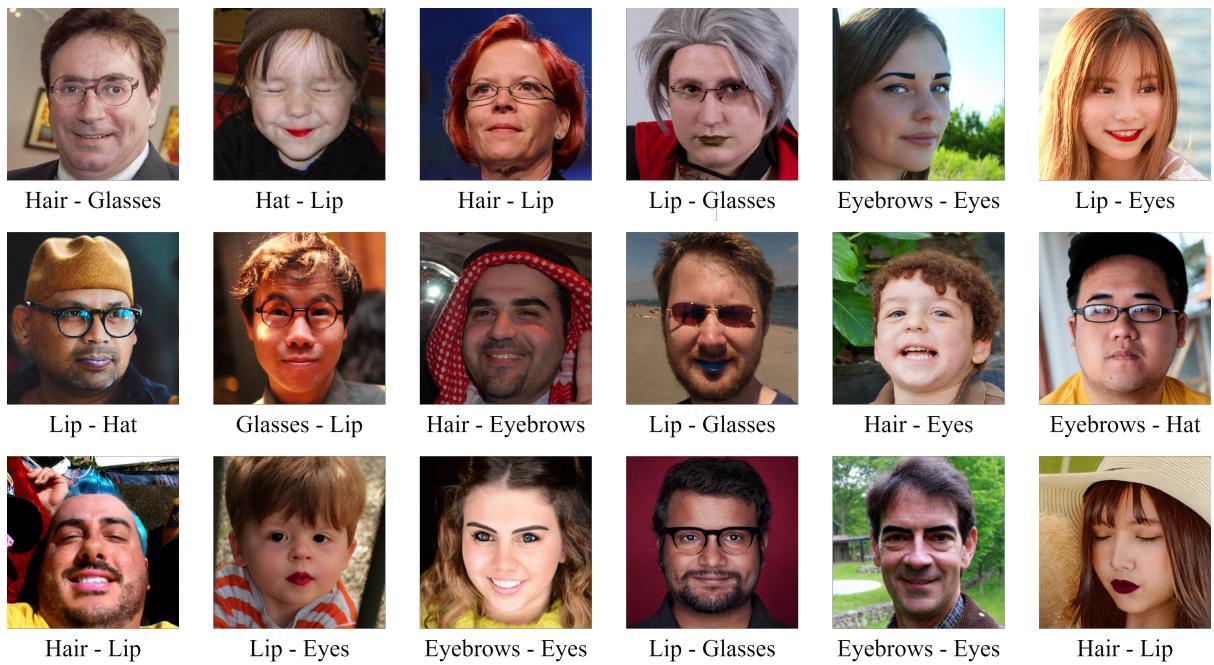
Attribute	Prompt			{Placeholder}
	Instruction		Caption	
Eyes	Make his eyes {color}.		A man with {color} eyes.	red, blue, black, white ...
Lip	Change her lipstick color to {color}.		A woman with {color} lipstick.	red, blue, black, white ...
Hair	Turn his hair {color}.		A boy with {color} hair.	red, blue, black, white ...
	Make her hair {style}.		A woman with {style} hair.	curly, straight
Eyebrows	Make her eyebrows {style}.		A girl with {style} eyebrows.	thick
Glasses	Add a pair of {glasses}.		A man wearing a pair of {glasses}.	glasses, sunglasses
Hat	Add a {hat}.		A woman wearing a {hat}.	hat



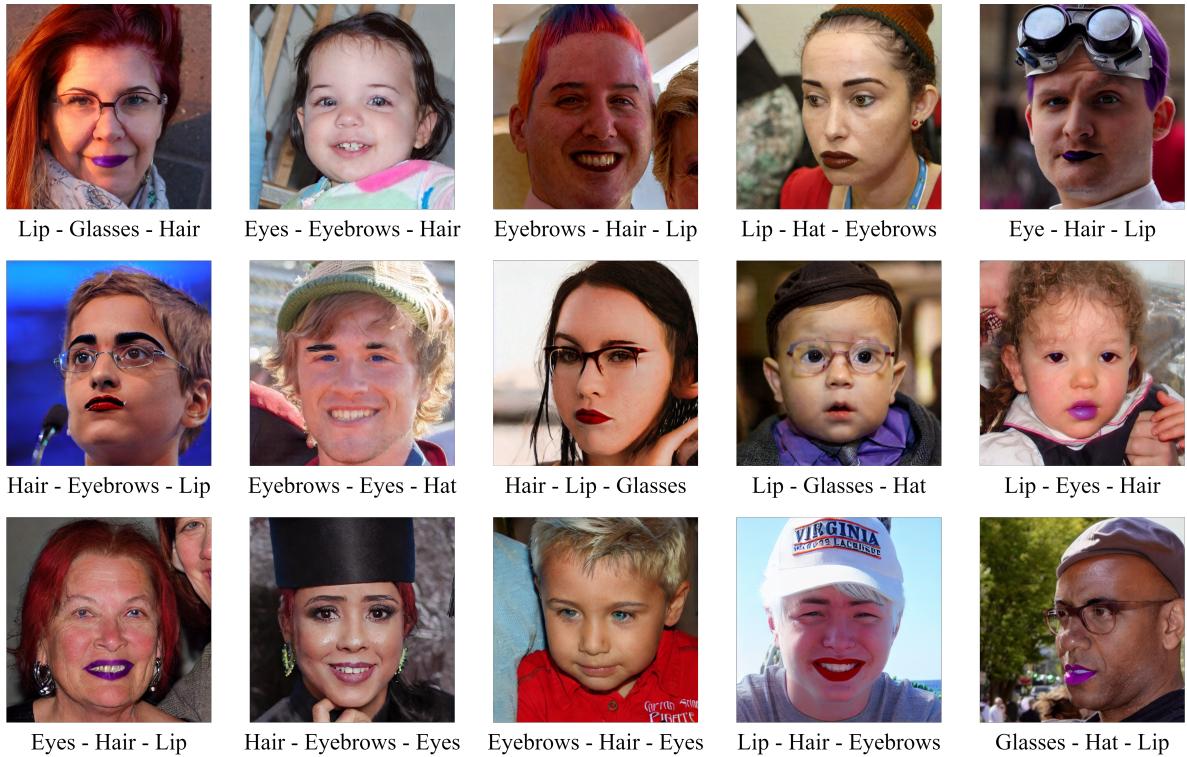
**Figure 2: Dataset statistics.**



**Figure 3: Samples with manipulation sequence length 1.**



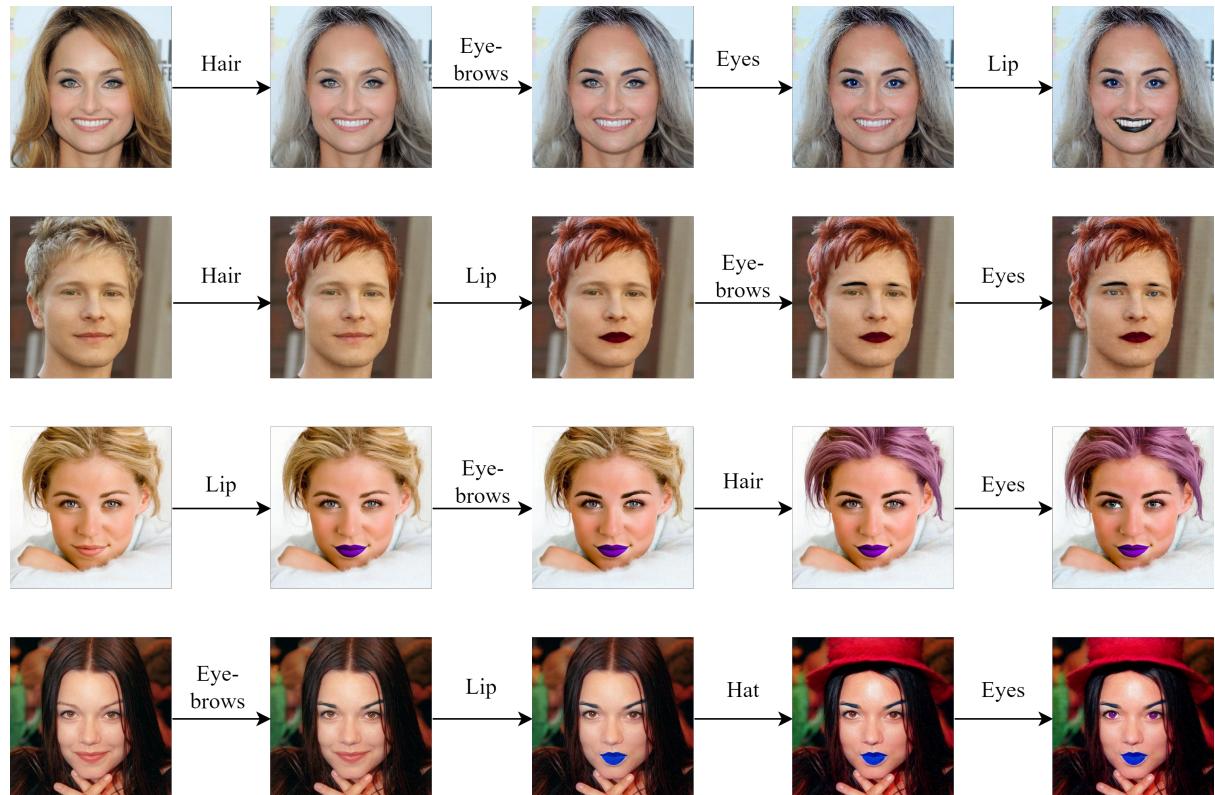
**Figure 4: Samples with manipulation sequence length 2.**



**Figure 5: Samples with manipulation sequence length 3.**



**Figure 6: Samples with manipulation sequence length 4.**



**Figure 7: Examples of sequential manipulation.**