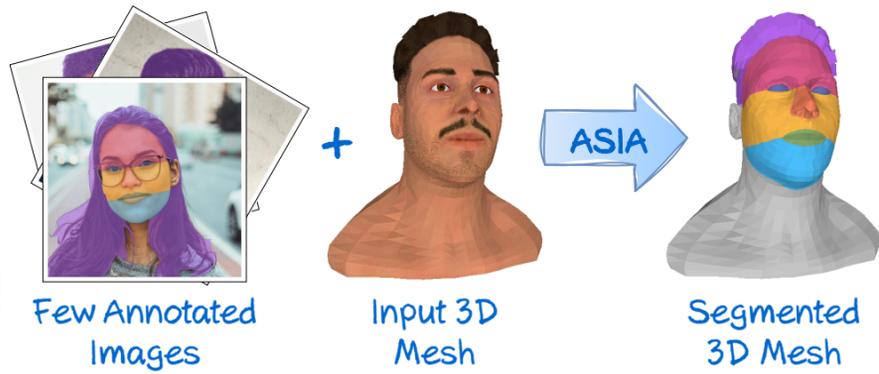




* The Task



* Motivation

Prior Works

Fully supervised methods require a lot of annotated 3D data!

VLM-based methods can only segment semantic and text-describable parts!



Ours

Adaptive

Segment non-semantic and non-text describable parts!

Few-Shot

Only need a few annotated samples for reference!

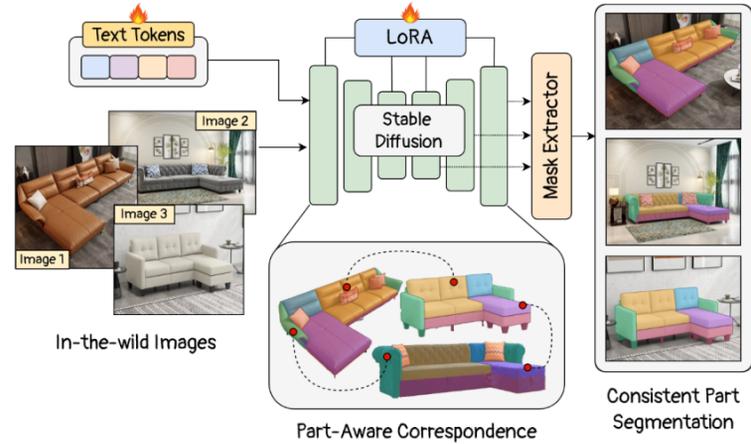
Image Annotations

Control 3D segmentations with 2D references!

* Our Approach

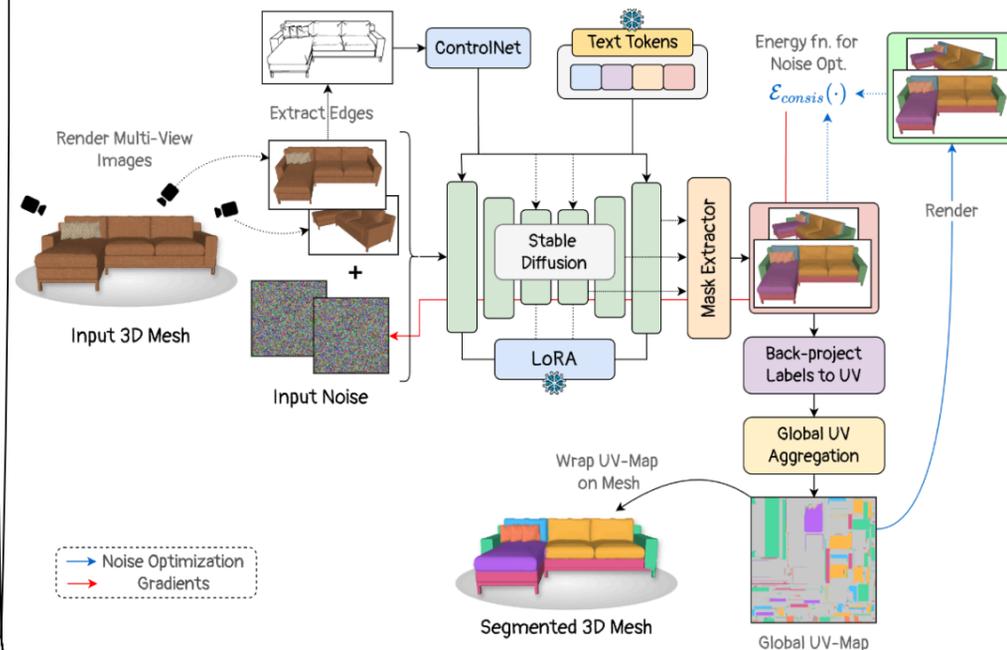
Training

- Optimize text tokens and fine-tune SD with LoRA.
- Two-stage training.
- Part-Aware Correspondence loss.



Inference

- Represent segments as mesh textures.
- Optimize SD noise for multi-view consistent predictions.



* Results

Annotated Reference

Segmented 3D Meshes



Part Composition

Annotated References Input 3D Mesh Segmented 3D Mesh

