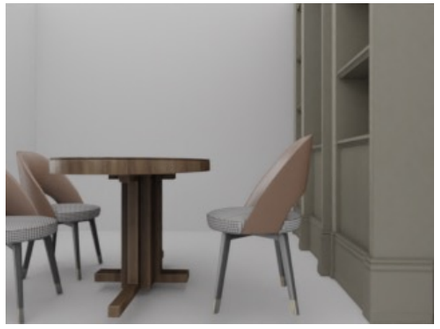
Uni-3D (Ours)

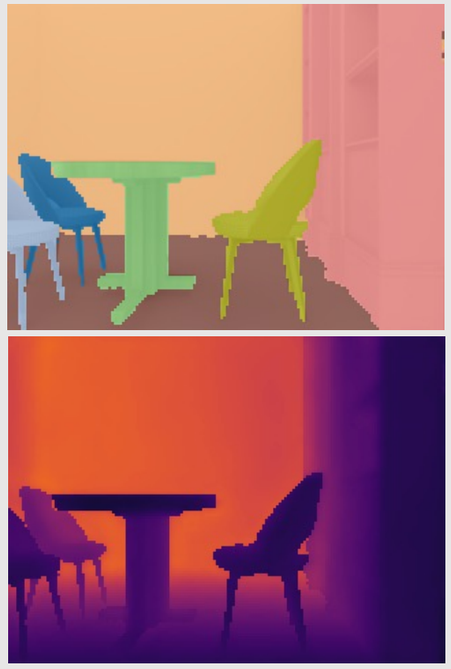


Single RGB Image

(b)

Input

2D Depth/Segment Queries

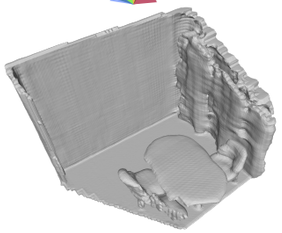


Depth-aware Panoptic Segmentation

2D

3D

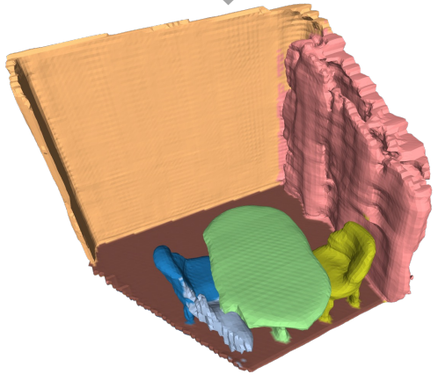
3D Segment Queries



Geometry-aware Feature

Chair Chair Table Wall Chair Floor Other

Unified 3D Segments



Panoptic 3D Reconstruction