

Distill Any Depth: Distillation Creates a Stronger Monocular Depth Estimator

Supplementary Material

1. Qualitative Comparison: Additional Results on Depth Estimation in the Wild.

As shown in Fig. 1, our model demonstrates strong generalization and robustness across a wide range of scenarios, including real-world indoor and outdoor environments, stylized virtual content such as anime and game engine renders, and information-sparse inputs like sketches or line drawings. Even in unconventional perspectives such as bird’s-eye cityscapes, the model preserves accurate relative depth and structural coherence. These results highlight its ability to deliver detailed and semantically meaningful depth predictions in both natural and synthetic domains, enabling practical applications in 3D reconstruction, content creation, and downstream tasks across real and virtual worlds.

2. Additional Results on 3D reconstruction in the Wild.

To directly evaluate the geometric details captured by our model, we lift the predicted relative depth into 3D space using the scale and shift parameters estimated by MoGe to recover metrically aligned depth, and then visualize the resulting point clouds. As shown in Fig. 2, our method reconstructs coherent and fine-grained 3D structures across diverse scenarios—including real-world photographs, game-engine imagery, and stylized content such as anime or sketches. Even under incomplete or ambiguous visual cues, the predicted depth yields plausible and semantically consistent 3D layouts. These 3D visualizations demonstrate that our approach generalizes effectively in the wild and preserves rich geometric details when viewed from a 3D perspective.

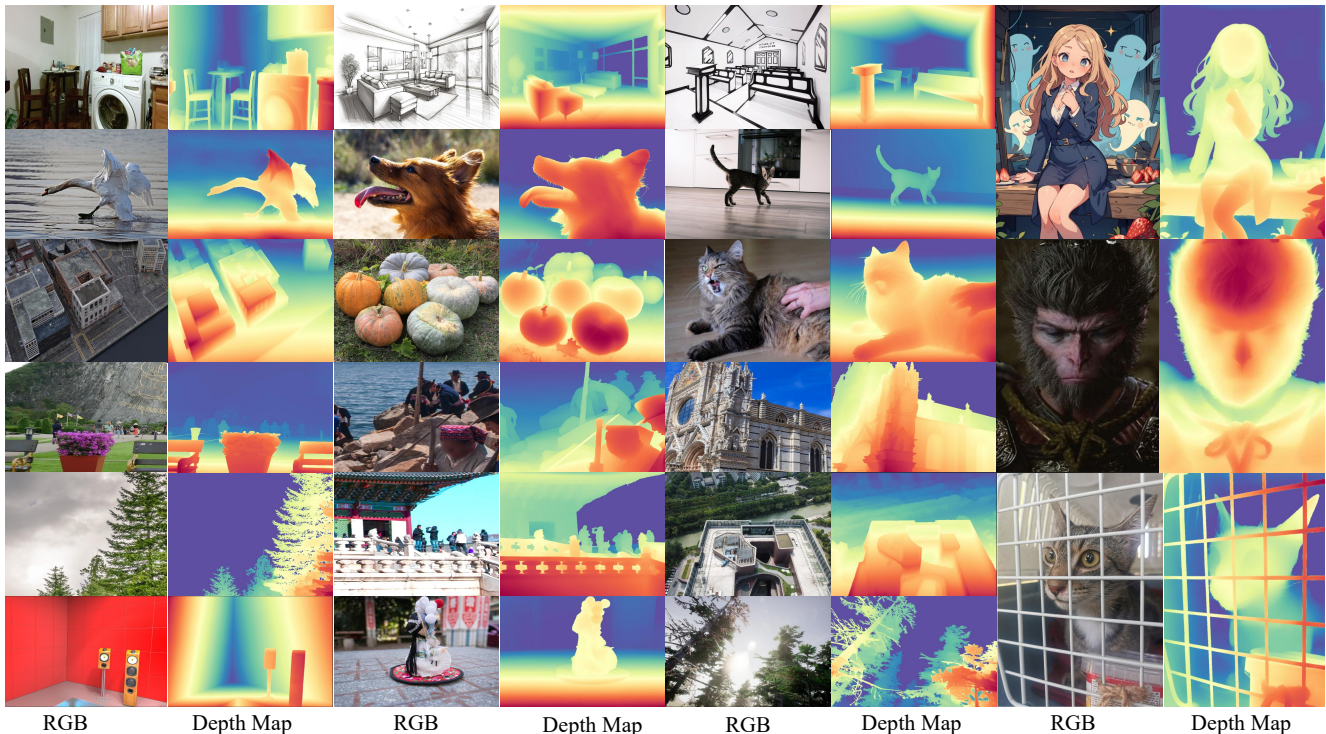
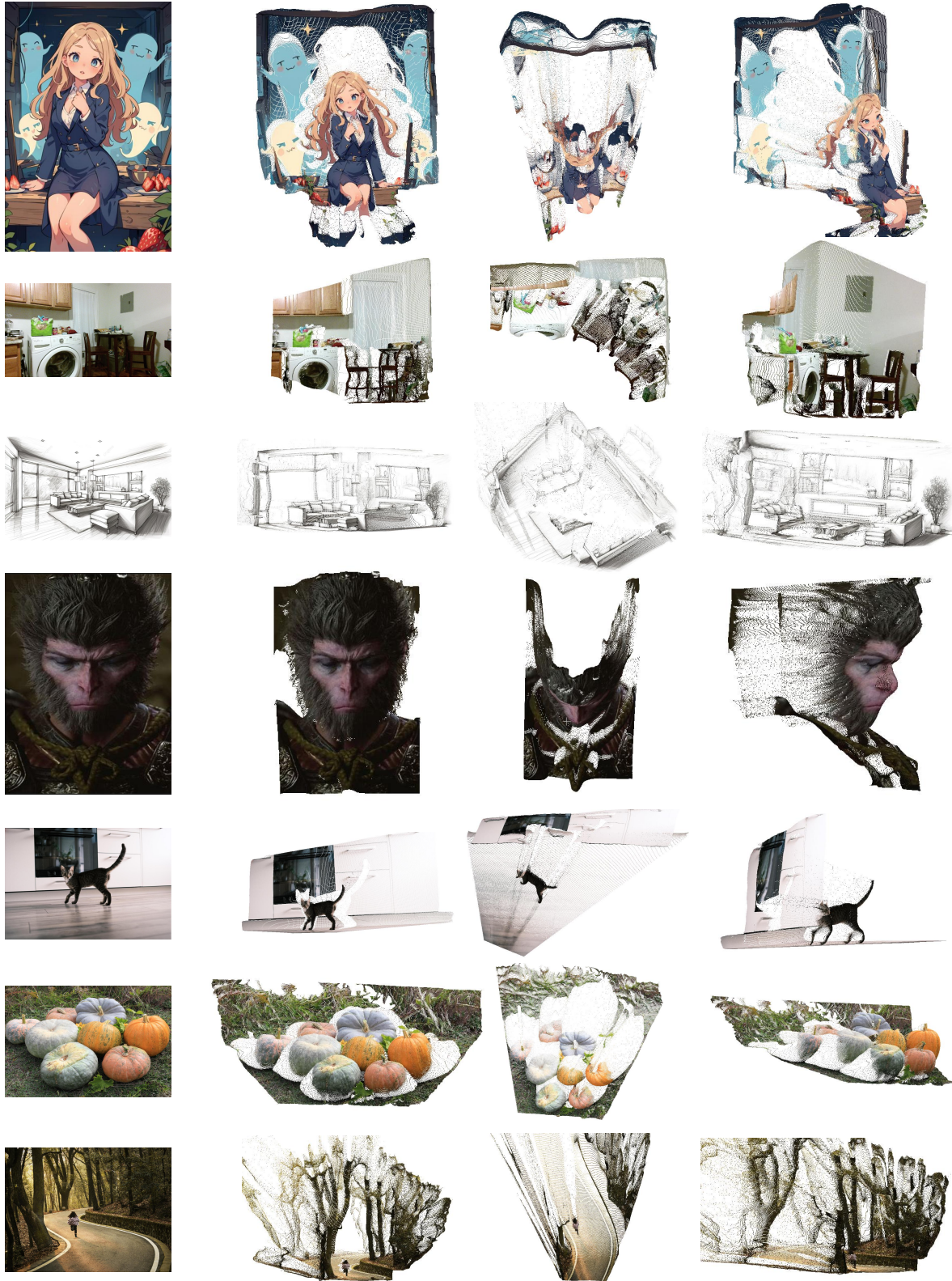


Figure 1. **Additional Results on Depth Estimation in the Wild.** We showcase more depth maps generated by our model on in-the-wild scenes, highlighting its robustness and precision.



RGB

Front View

Top View

Left View

Figure 2. Additional results on 3D reconstruction from in-the-wild RGB images.