Point-Cloud Completion with Pretrained Text-to-image Diffusion Models - Supplementary Material -

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1 List of Textual Prompts

The text prompts for the Redwood shapes that we tested are presented in Table 1. For the KITTI dataset, we used the text "A *", where "*" denotes the shape class: "car", "truck" or "motorcycle".

2 Broader Impact

Our approach uses the SDS loss that builds on a text-to-image diffusion model [2]. As such, it inherits possible biases that such a model may have.

References

[1] S. Choi, Q.-Y. Zhou, S. Miller, and V. Koltun. A large dataset of object scans. *arXiv preprint arXiv:1602.02481*, 2016.

[2] R. Rombach, A. Blattmann, D. Lorenz, P. Esser, and B. Ommer. High-resolution image synthesis with latent diffusion models. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*, pages 10684–10695, 2022.

Scan ID	Scan name	Text Prompt
08712	Plant in a vase 2	"A plant"
06912	Bench	"A bench"
05492	Standing sign	"A standing sign"
05456	Park trash can	"Park trash can"
01373	Picnic table	"A picnic table"
00034	Sofa	"A sofa"
01184	Trash can	"An outdoor trash can with wheels"
06127	Plant in a vase	"A plant in a large vase"
06830	Tricycle	"Children's tricycle with adult's handle"
07306	Office trash	"An office trash can"
05452	Outside chair	"An a outside chair"
06145	One leg table	"A one leg square table"
05117	Old chair	"An old chair"
09639	Executive chair	"An executive chair"
06188	Vespa	"A motorcycle"
07136	Couch	"A couch"
08754	Teapot	"A teapot"
09664	Traffic cone	"A traffic cone"
04797	Street faucet	"A street faucet"
02426	Clothes iron	"A clothes iron"
09424	Backpack	"A backpack"
04014	Lamp	"A lamp"
04210	Blobe	"A globe"
06271	Vase	"A vase"
04154	Fire extinguisher	"A fire extinguisher"
00030	Vase 2	"A vase"
09484	Rocking horse	"A rocking horse"
04919	Duck spring swing	"A duck spring swing"
06177	Printer	"A printer"
04457	Vacuum cleaner	"Vacuum cleaner"
06124	Vase 3	"A vase"
09488	Basketball	"A basketball"

Table 1: Scan IDs from the Redwood dataset [1], and their corresponding textual prompts.