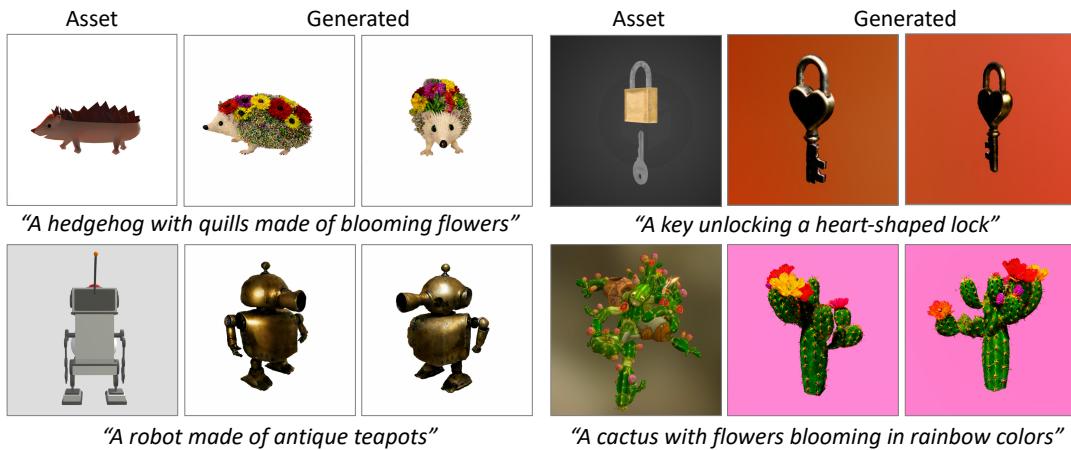


OOD Case 1: Remotely similar asset retrieved



OOD Case 2: Unrelated asset retrieved

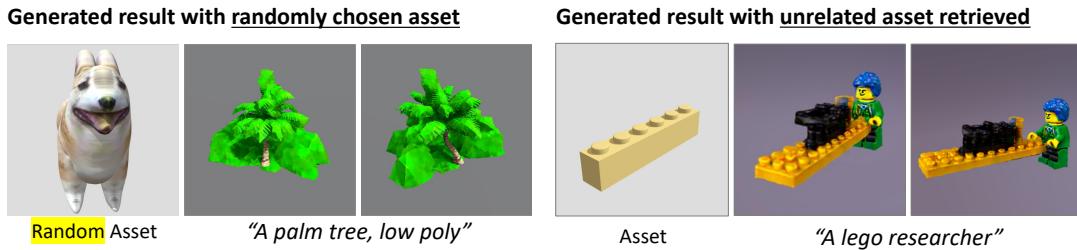


Figure A: Generated results when retrieved assets are far from the textual description.



Figure B: Generated results with colored variations of a single 3D asset.

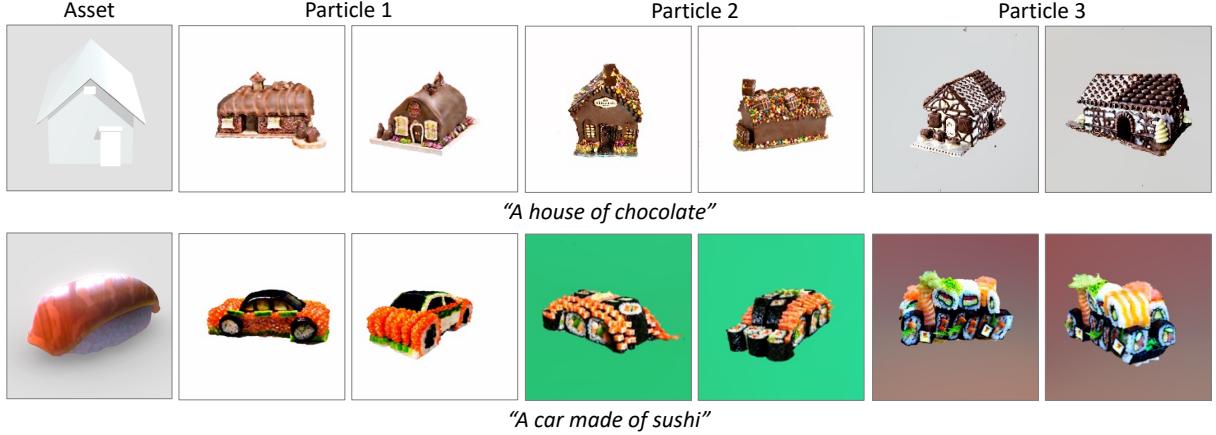


Figure C: **Results of multi-particle setup ($K=3$) with a single retrieved asset.** Diversity of generation results increases along with the number of particles in a multi-particle framework. In scenarios where only a single retrieved asset is leveraged, each particle converges differently.



Figure D: **Failure case.** The failure cases mainly consist of a case that generated results don't follow the given text prompts well when the prompts are challenging.

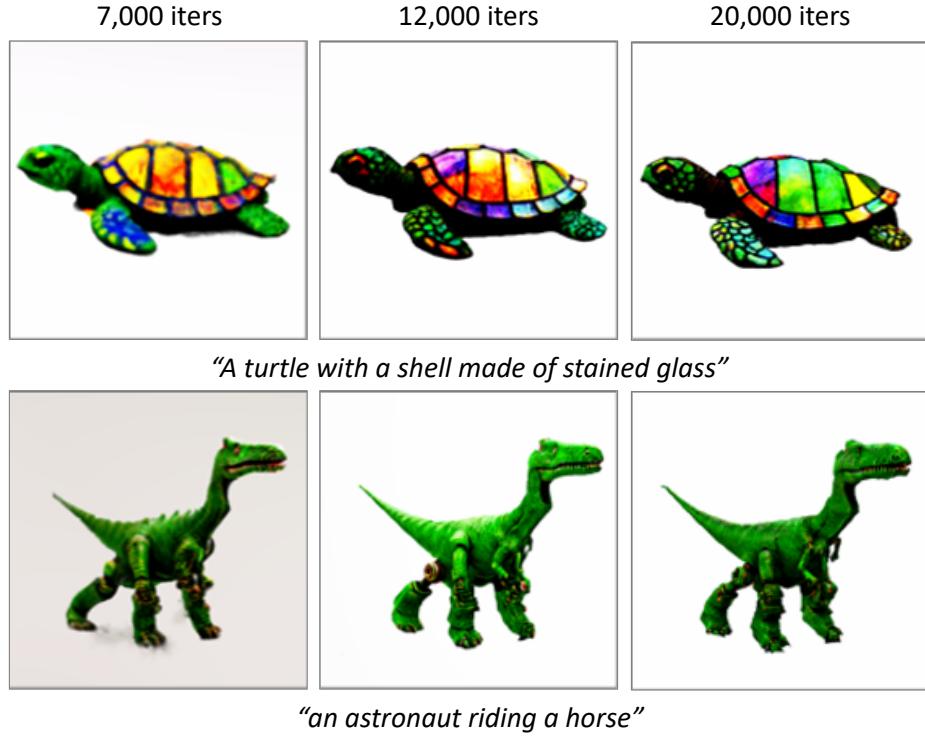


Figure E: Ablation study for optimization steps. As the optimization step increases, the texture of the 3D content becomes clearer.

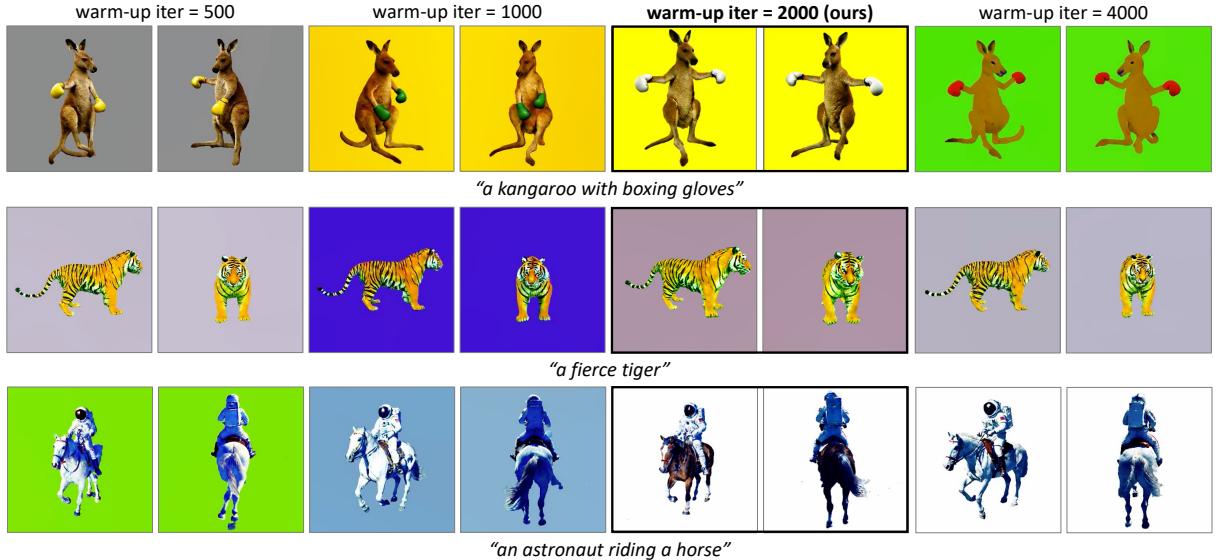
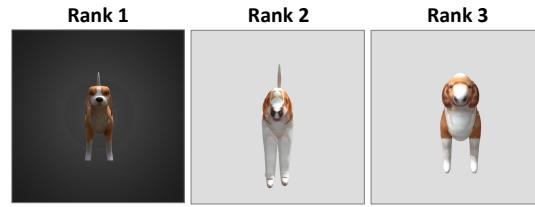
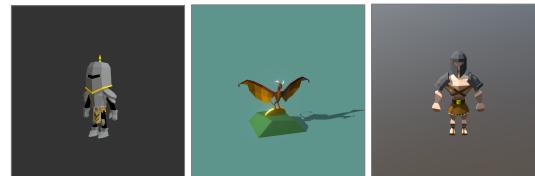


Figure F: Ablation study for hyperparameter: the number of warm-up iterations. The performance of the model does not heavily depend on the choice of the number of warm-up iterations, showing similar performance.



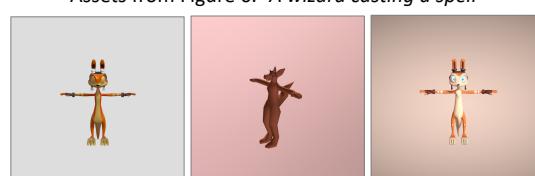
Assets from Figure 6. "A beagle in a detective's outfit"



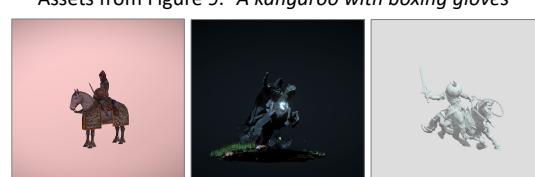
Assets from Figure 6. "Dragon armor, 3D asset"



Assets from Figure 6. "A wizard casting a spell"



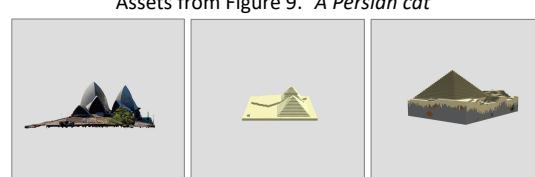
Assets from Figure 9. "A kangaroo with boxing gloves"



Assets from Figure 9. "An astronaut riding a horse"



Assets from Figure 9. "A Persian cat"



Assets from Figure 9. "Sydney opera house, aerial view"

Figure G: All the retrieved assets in Fig.6 and Fig.9 of the main paper.