

In a PDF file in the supplementary materials provided at “furnitures_abo_coco_imgnet_pascal_davis.pdf,” we have provided hundreds of randomly selected examples of background generation for the salient objects in ImageNet, COCO, Amazon-Berkeley-Objects, Pascal, and DAVIS datasets using our model and Stable Inpainting 2.0 (SI2). Each PDF contains ten images from one of the datasets and one of the prompt types (empty, likely, unlikely prompts). For each salient object, we generate ten backgrounds (5 by our model and five by SI2) using the same prompt but with different random seeds. We provide the value of our object expansion metric for each image.

The first column shows the original image. The second column is the salient object with a masked background, which is used to input the models. The remaining columns are the outpainted images shown in pairs (SI2 vs Ours). Each pair uses the same seed and prompt, but one uses the vanilla Stable Inpainting 2.0, and the other uses our proposed model.

The datasets are ordered as follows: “furnitures”, “amazon-berkeley-objects”, “coco”, “imagenet”, “pascal-davis”.

The furnitures dataset is an internal dataset whose background samples are generated using a fixed prompt (“a beautiful room”). The furniture dataset is a good representative of the real-world application of our model in e-commerce.