




LAPIG: Language Guided Projector Image Generation with Surface Adaptation and Stylization

- Supplementary Materials -

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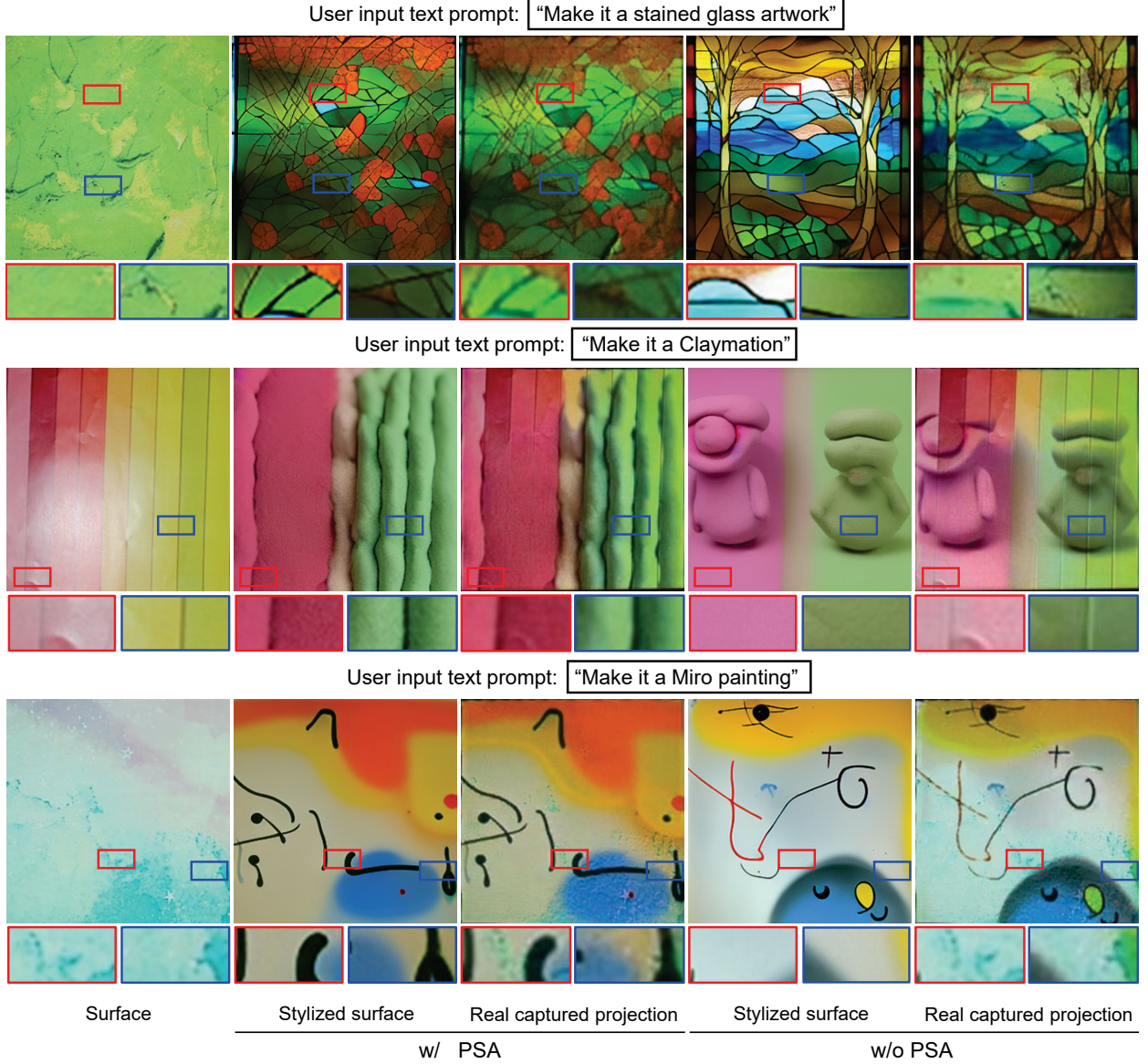


Fig. 1: Comparison between language guided projector image generation (LAPIG) w/ and w/o PSA. **Three** user input text prompts are used to stylize **three** projection surfaces. The text prompt to stylize the surfaces shown here are **Make it a stained glass artwork** for the 1st row, and **Make it a Claymation** for the 2nd row, and **Make it a Miro painting** for the 3rd row. The 1st column shows the original projection surfaces. The 2nd and 4th columns are stylized projection surfaces by LGST w/ or w/o PSA, given the user input text prompt on the top of each surface. The 3rd and 5th columns present real captured scene under projection w/ or w/o PSA, i.e., the 2nd or 4th column projected onto the 1st column after projector compensation.

1 INTRODUCTION

In this supplementary material, we show additional experimental results, including more surfaces and text prompts in [Figure 1](#) and [Figure 2](#). More qualitative comparisons between language guided projector image generation w/ and w/o PSA are shown in [Figure 1](#) and [Figure 2](#). The results further demonstrate the effectiveness of our PSA, because w/ PSA outperforms w/o PSA by a significant margin.

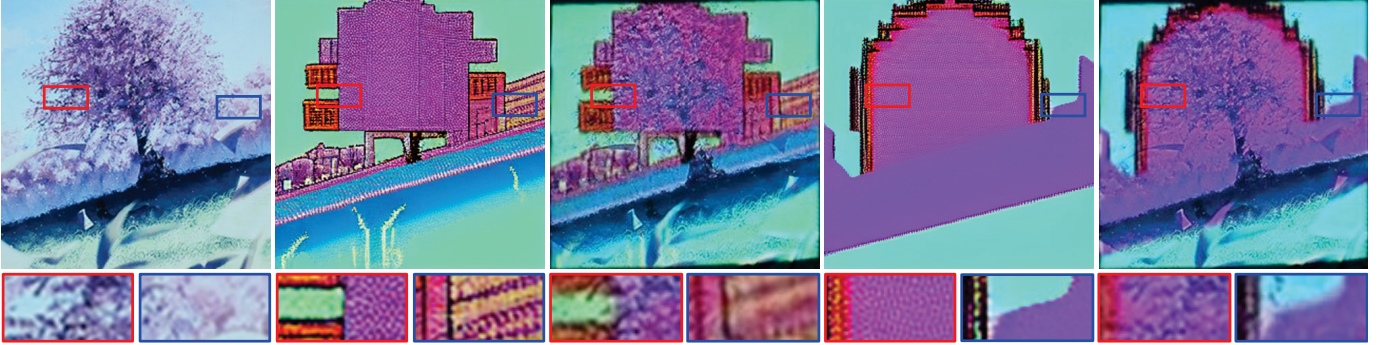
User input text prompt: "Turn into an oil pastel drawing"



User input text prompt: "Make it a Modigliani painting"



User input text prompt: "Transform it into a 1980s retro pixel art graphic"



Surface

Stylized surface

Real captured projection

Stylized surface

Real captured projection

w/ PSA

w/o PSA

Fig. 2: Comparison between language guided projector image generation (LAPIG) w/ and w/o PSA. **Three** user input text prompts are used to stylize **three** projection surfaces. The text prompt to stylize surfaces shown here are **Turn into an oil pastel drawing** for the 1st row, and **Make it a Modigliani painting** for the 2nd row, and **Transform it into a 1980s retro pixel art graphic** for the 3rd row. The 1st column shows the original projection surfaces. The 2nd and 4th columns are stylized projection surfaces by LGST w/ or w/o PSA, given the user input text prompt on the top of each surface. The 3rd and 5th columns present real captured scene under projection w/ or w/o PSA, i.e., the 2nd or 4th column projected onto the 1st column after projector compensation.