

SD1.5 SD2.1

A board saying having a dog named shark at the beach was a mistake

SD1.5 SD2.1

a hand-drawn blueprint for a time machine

(a) Pre-trained on high-resolution Stable Diffusion 2.1 significantly enhances the legibility of small text.

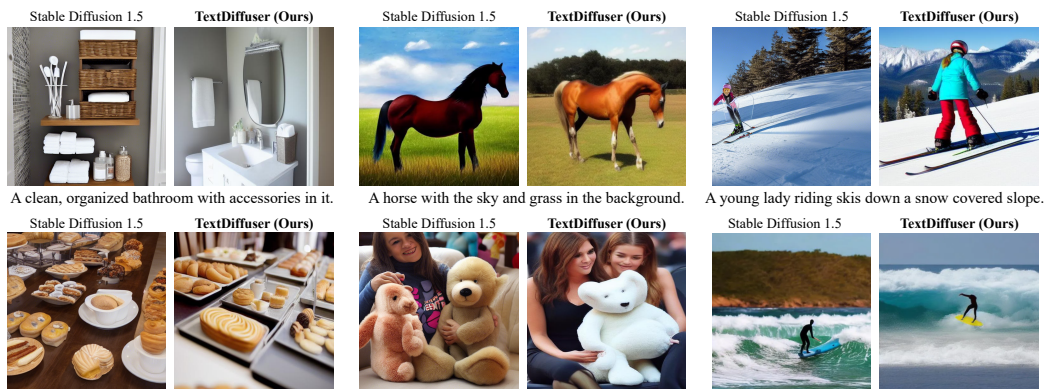


a bear holding a board with a red 'hello world'

a bear holding a board with a yellow 'hello world'

a bear holding a board with a purple 'hello world'

(b) Demonstration of using language descriptions to control the style of text.



A clean, organized bathroom with accessories in it.

A horse with the sky and grass in the background.

A young lady riding skis down a snow covered slope.

A table with servings of pastries on trays.

A Daily Mirror featuring stories on celebrity stuffed animals.

A man riding on top of a wave on a surfboard.

(c) Visualizations of general images generated by Stable Diffusion 1.5 and the proposed TextDiffuser.



A vintage postage stamp with the message: california all dreams welcome

A sign that says "Please refrain from arguing with the chimpanzees"

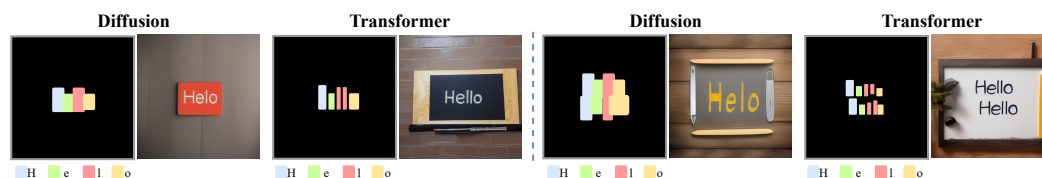
The cover for the album "Elusive Interludes" by the band The Melting Snowmen.

Photo of "Gas Station"

a 3d model of a 1980s-style computer with the text "my old habit" on the screen

A t-shirt with the message "There is no planet" written on it

(d) Comparison with Character-Aware Model [42] and the concurrent GlyphDraw [45]. The code is not available for [42], the checkpoints and datasets are not available for [45]. So we compare the samples in their papers.



Text 'Hello' on a board

Text 'Hello Hello' on a board

(e) Layout generation using diffusion model and Transformer.