

Emergent Text-to-Image Generation Using Short Neologism Prompts and Negative Prompts

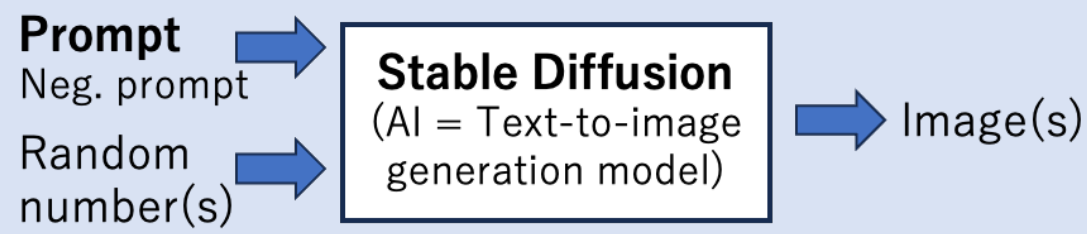
Bring out the artistic talent of AI!

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AIの画才をひきだす!

INTRODUCTION

Text-to-image generation models



Proposed method:

Giving short prompts (1-2 words).
Emerging unexpected diverse images.

Popular method:

Giving long prompts to the AI.
Generating expected similar images.

The reason for such attempts

The author believes

- The AI learned many images with creative ideas.
- The AI can combine them and create new ideas.

IMAGE VARIATION BY NEOLOGISMS

To diversify the generated images, our proposed method utilizes neologisms. Diverse and unexpected images are generated from a single prompt by changing random numbers.

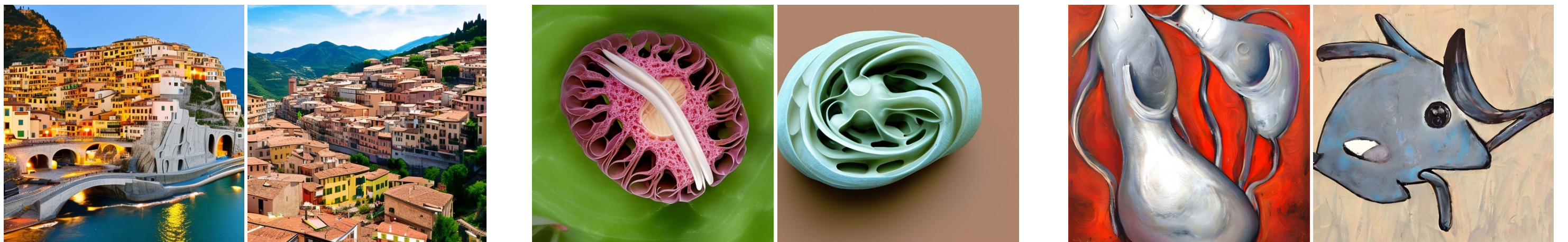
[1] Images from automatically generated coined words



“apqacnwxmeepqgleusp” — randomly-generated word (SD 1.5)

“ralfoos-rwes-ey-tw-e” — Markov-chain-based coined word (SD 1.5)

[2] Images from man-made coined words — Generated images are clearer than [1].



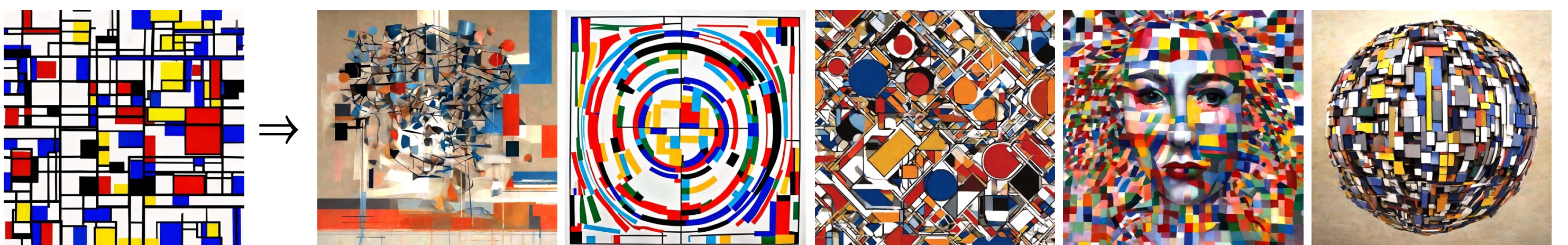
“Mondalian” — Mon + Dalian (SD 1.5)

“Mondalium” (SD 1.5)

“Painting Unfin5” — from “infinite” (SD 2.1)

[3] Images from a variation of the spelling of existing words

A variation of “Mondrian” generated images similar to Mondrian’s pictures or quite different and unexpected ones (SDXL).



“Mondrian”

“iondrian”

“fondrian”

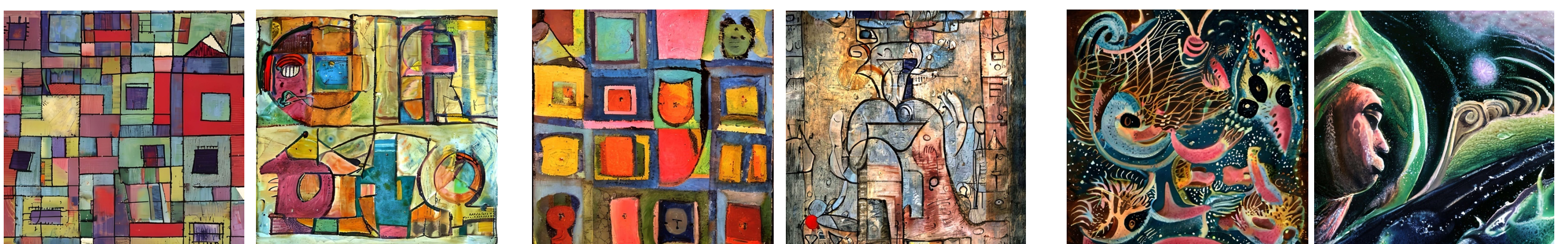
“mondrial”

“mondrial”

“mondriian”

STYLE VARIATION BY NEGATIVE PROMPTS

Negative prompts are used to generate diverse images from a single positive prompt. Drastically different style of images may be generated.



“Klee” (SD 2.1)

“Klee”, neg: “checker” (SD 2.1)

“Klee”, neg: “Mondrian” (SD 2.1)

CONCLUDING REMARKS

- The use of neologisms and negative prompts can lead to more creative and diverse images.
- There is yet to be an established method for consistently achieving this outcome.

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