

# Text-to-Movie-Poster Generation

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## Problem description and motivation

- Task: conditionally generate movie posters using descriptive text prompts
- We explored what kind of prompt and hyper-parameter setting generates better movie posters and how well we can generate variations of movie posters.



a manga style movie poster of John Wick



a movie poster about the chinese dragon attacking a village, flames in the background



a movie poster of the disney animation frozen with elsa on the cover



a movie poster about a baby hound and baby fox in disney style and forest background

Figure 1: Samples of movie posters

# Method description

- Stable diffusion<sup>1</sup>
- Zero-shot Learning
- Hyper-parameter tuning & Prompt engineering
  - Image size
  - Noise scheduler
  - Number of denoising steps
  - Guidance scale ( $w$ )
  - Seed

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<sup>1</sup>R. Rombach, A. Blattmann, D. Lorenz, *et al.*, *High-resolution image synthesis with latent diffusion models*, 2021. arXiv: 2112.10752 [cs.CV].

# Summary and result analysis