Investigating Style Transfer in Text Generation

Motivation

Computer vision field has seen various applications of style transfer such as converting pictures into Van Gogh paintings generally via Generative Adversarial Network (GAN)s, which are hard to train for sequential and discrete data like text. Current text generation techniques are mostly based on RNNs and suffer from accuracy, repetition and coverage. Moreover, there is no standard way to add constraints such as sentiment, length or speaker style.

Task Description

- Implement current RNN based techniques in a unified framework
- Investigate the use of generative models, such as cVAEs and cINNs for text style transfer
- Evaluate techniques and analyze the outputs

References


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