Literary Style Transfer with Rejection-Pass Filtering

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**MOTIVATION**

A novel, unprecedented application – take fiction content from author A, apply style from author B

**APPLICATIONS**

Writer’s aid software, comparative literature studies

**INPUT/OUTPUT**

Content donor/Stylized content

**TRAINING SET**

Cleaned texts from Gutenberg
- Vladimir Nabokov (9.8Mb)
- Jane Austen (4.1Mb)
- Alexandre Dumas (8.9Mb)

**ARCHITECTURE**

Generator - GPT-2 345M + Google Sentence Encoder + Rejection Pass Filtering
Style Discriminator - Stanford NER + Custom Filter + Style DistillBERT classifier
Naturalness Discriminator - LSTM classifier
→ Mechanical Turk

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She sat at the window of the train, her head thrown back, one leg stretched across to the empty seat before her. The window frame trembled with the speed of the motion, the pane hung over empty darkness [Ayn Rand, original content]

A poetic delight, she sat at the window of the train, her shoulders shook and twitched, one leg stretched across to the empty seat before her. In the distance, the windows fell back into motion like dark-winged dance, the sky was pale and faded, and dots of light slashed across the glass as luminous streaks [generated in Vladimir Nabokov’s style]