

CV ↔ NLP

Prompt Learning

background.

Transformer / Self-supervision → supervised

Language Model → BERT
→ GPT

Prompt for LM. → origin

→ advantage

- ① computation
- ② memory

how to do

why it works & when it doesn't work.

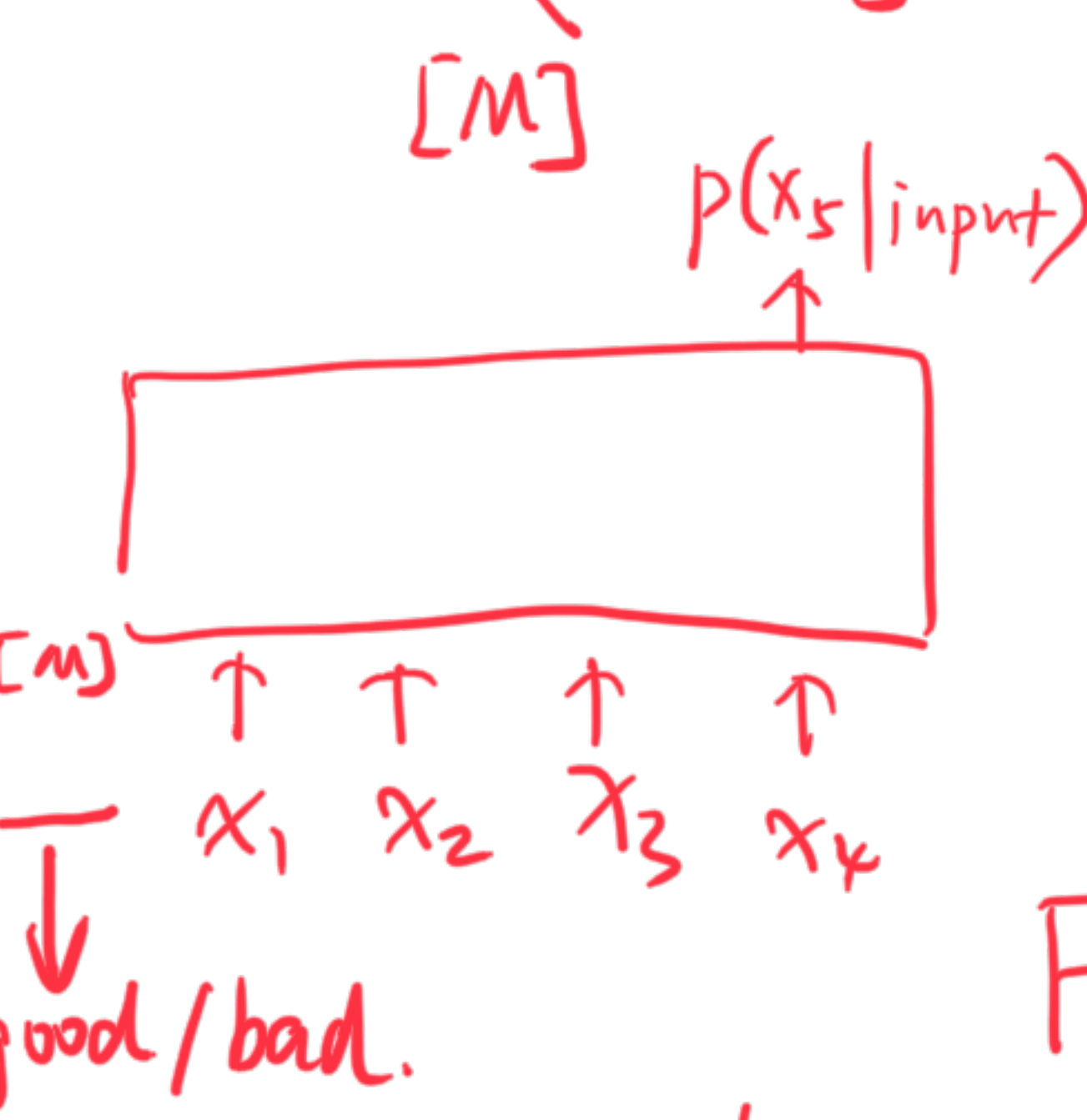
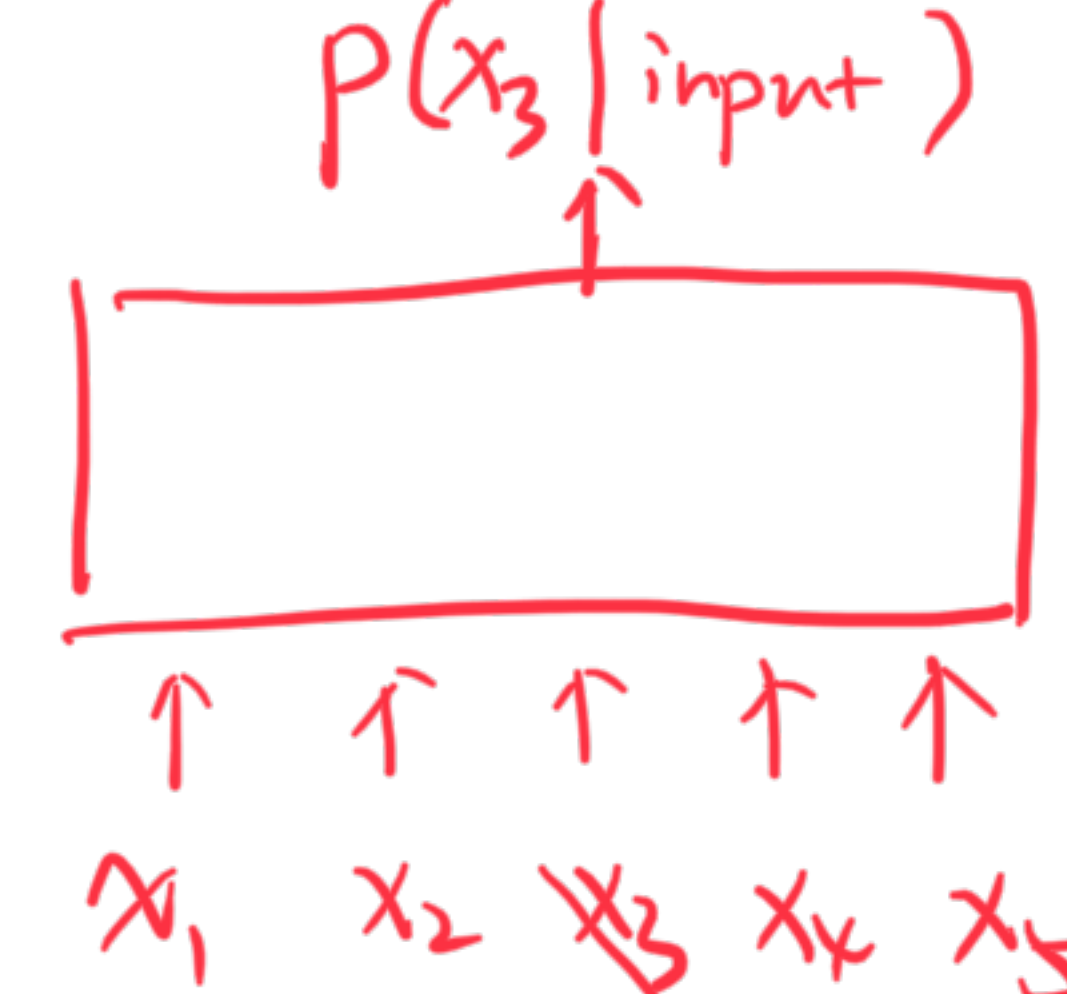
relation to CV → NLP prompt not mature

CV BERT not developed

multi-modal

pre-train + fine-tune

pre-train + prompt



In a word, the movie is

good/bad.

downstream data
↓
training data

essence

attention guidance

interaction



X Q

$\begin{cases} \square \square x \\ x \rightarrow \text{Linear} \\ x + \square \end{cases}$

标题	创建者	日期
► The Power of Scale for Parameter-Efficient Prompt Tuning	Lester 等。	2021-09-02
► SPoT: Better Frozen Model Adaptation through Soft Prompt Transfer	Vu 等。	2021-10-15
► CPT: Colorful Prompt Tuning for Pre-trained Vision-Language Models	Yao 等。	2021-10-08
► P-Tuning v2: Prompt Tuning Can Be Comparable to Fine-tuning Universally Across Scales and Tas...	Liu 等。	2021-10-18
► Pre-train, Prompt, and Predict: A Systematic Survey of Prompting Methods in Natural Language ...	Liu 等。	2021-07-28
► Prefix-Tuning: Optimizing Continuous Prompts for Generation	Li 和 Liang	2021-01-01
► GPT Understands, Too	Liu 等。	2021