

Step1 Automotive Corpus Construction

QA corpus

**Question:** WEY是什么品牌的车?  
( Which automobile brand is WEY?)  
**Answer:** WEY是长城汽车旗下的高端品牌...  
( WEY is a high-end brand under Great Wall Motors... )

Documents  
Collection

**Sentence 1:** WEY是长城汽车旗下的高端品牌。  
( WEY is a high-end brand under Great Wall Motors. )  
**Sentence 2:**作为早期产品，VV系列在动力匹配方面...  
( As early products, the VV series faced challenges in powertrain matching... )

Multitask  
Annotated Corpus

**MLM:** WEY是长[MASK]汽[MASK]旗下...  
**NSP:** Sentence pair: (Sentence1, Sentence2)  
Label: continuous (1)  
**STS:** Sentence pair: (Sentence1, Sentence2)  
Label: similar (1)  
**TE:** Sentence pair: (Sentence1, Sentence2)  
Label: neural (1)

Step2 Encoder: A Pretraining-Multitask Finetuning Framework

Pretraining

Open-domain  
Corpus



BERT

Single-task Finetuning

MLM

NSP

STS

TE

Multitask Finetuning

MLM + NSP

MLM + STS

MLM + TE

Step3 Retriever based on Faiss

Vector Space

Vectors  
Loader



Index

Querying



Query vector

Query results (Ranking)

Index	20	201	55	...
Distance	12	18	27	...