

HOW BERT CAPTURES TEXT

Identify the order of input (with embeddings)

INPUT [CLS] mannheim is a beautiful city [SEP] ...

TOKEN EMBEDDING $E_{[CLS]}$ E_{mannheim} E_{is} E_a $E_{\text{beautiful}}$ E_{city} $E_{[SEP]}$...

SEGMENT EMBEDDING E_A E_A E_A E_A E_A E_A E_A ...

POSITION EMBEDDING E_0 E_1 E_2 E_3 E_4 E_5 E_6 ...

