Text Classification with Bert

Bert

- **B**idirectional **E**ncoder **R**epresentations from **T**ransformers
  - Transformer Architecture
  - Masked Language Model

The cat sat <Mask> the mat.

Bert

- **B**idirectional **E**ncoder **R**epresentations from **T**ransformers
  - Transformer Architecture
  - Masked Language Model

The cat sat on the <Mask>.

Bert

- **B**idirectional **E**ncoder **R**epresentations from **T**ransformers
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The <Mask> sat on the mat.

Bert

- **B**idirectional **E**ncoder **R**epresentations from **T**ransformers
    - Transformer Architecture
    - Masked Language Model
    - Next Sentence Prediction
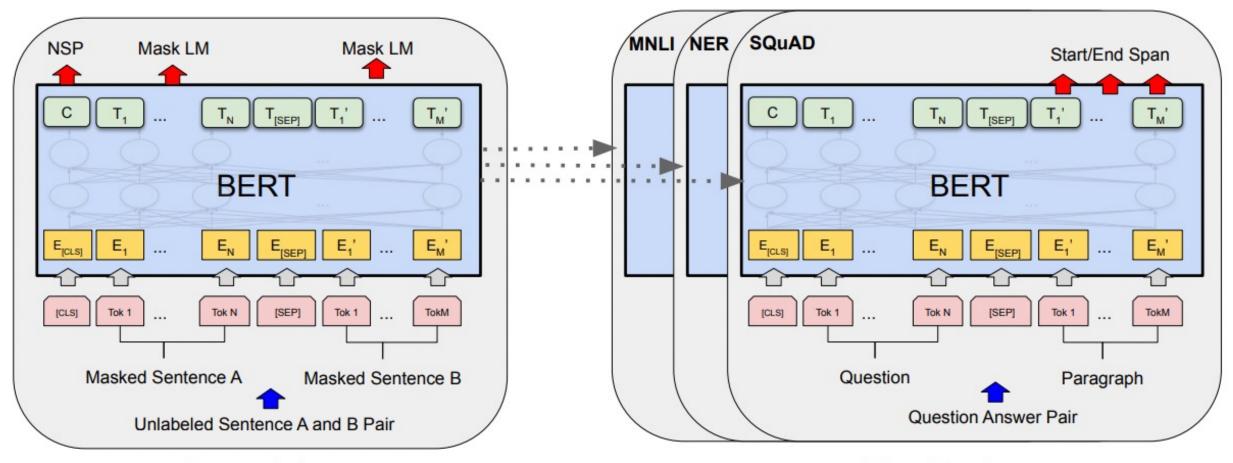
The cat sat on the mat.
The cat was asleep.   ✅

Bert

- **B**idirectional **E**ncoder **R**epresentations from **T**ransformers
  - Transformer Architecture
  - Masked Language Model
  - Next Sentence Prediction

The cat sat on the mat.
I like tomato soup.   ❌

Bert Architecture

Pre-training

Fine-Tuning