

CS388: Natural Language Processing

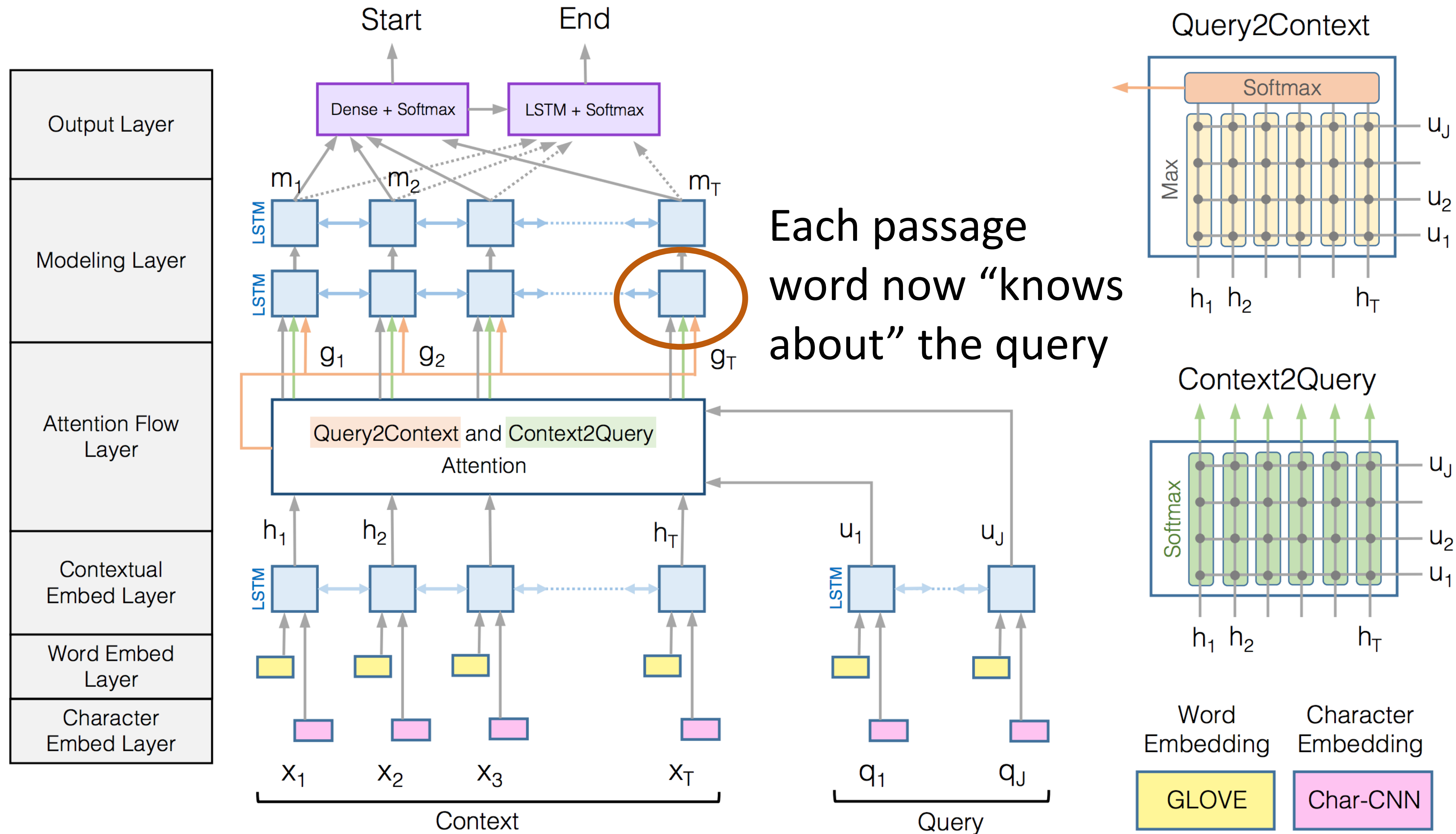
Lecture 22: Question Answering 2

Greg Durrett



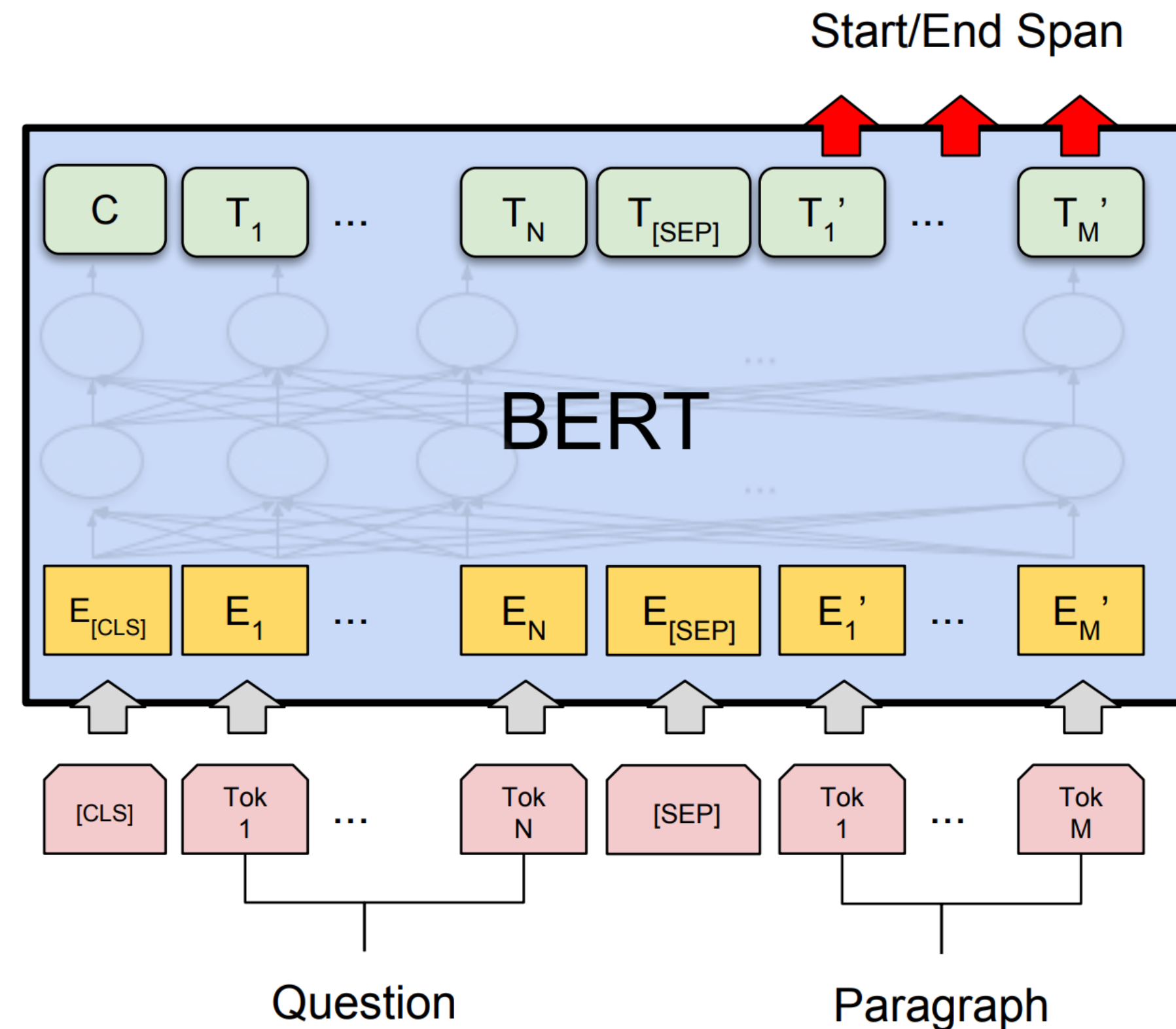


Recall: Bidirectional Attention Flow





Recall: QA with BERT



What was Marie Curie the first female recipient of ? [SEP] One of the most famous people born in Warsaw was Marie ...

- Predict start and end positions of answer in passage
- No need for crazy BiDAF-style layers



This Lecture

- ▶ Problems in QA, especially related to answer type overfitting
- ▶ Retrieval-based QA / multi-hop QA
- ▶ New QA frontiers

Problems in QA

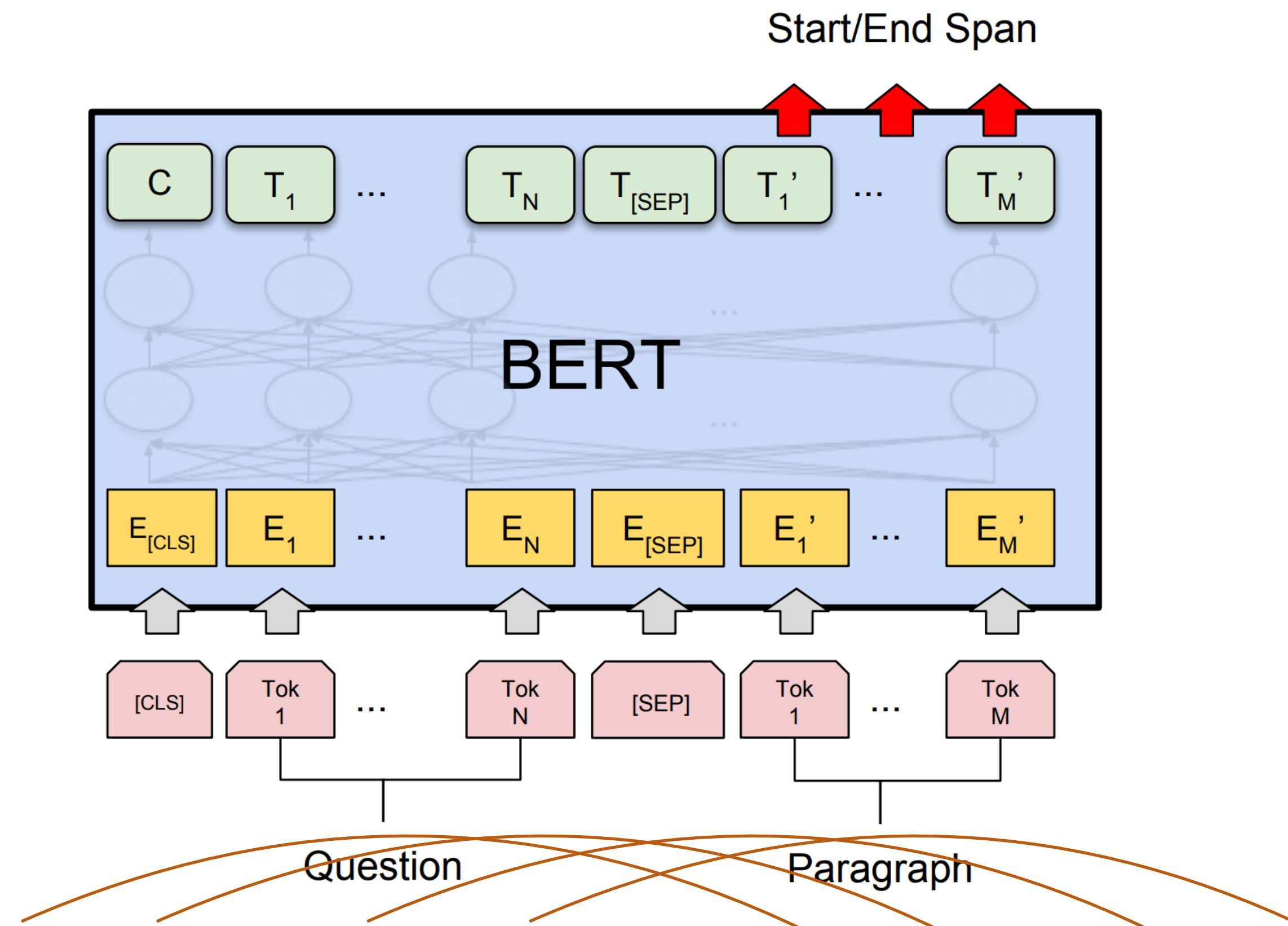


Adversarial SQuAD

- ▶ SQuAD questions are often easy: “*what was she the recipient of?*” passage: “...*recipient of Nobel Prize...*”



Adversarial SQuAD



What was Marie Curie the first female recipient of ? [SEP] ... first female recipient of **the Nobel Prize** ...

- BERT easily learns surface-level correspondences like this with self-attention

Retrieval Models

Multi-Hop Question Answering

