

Today's Tutorial

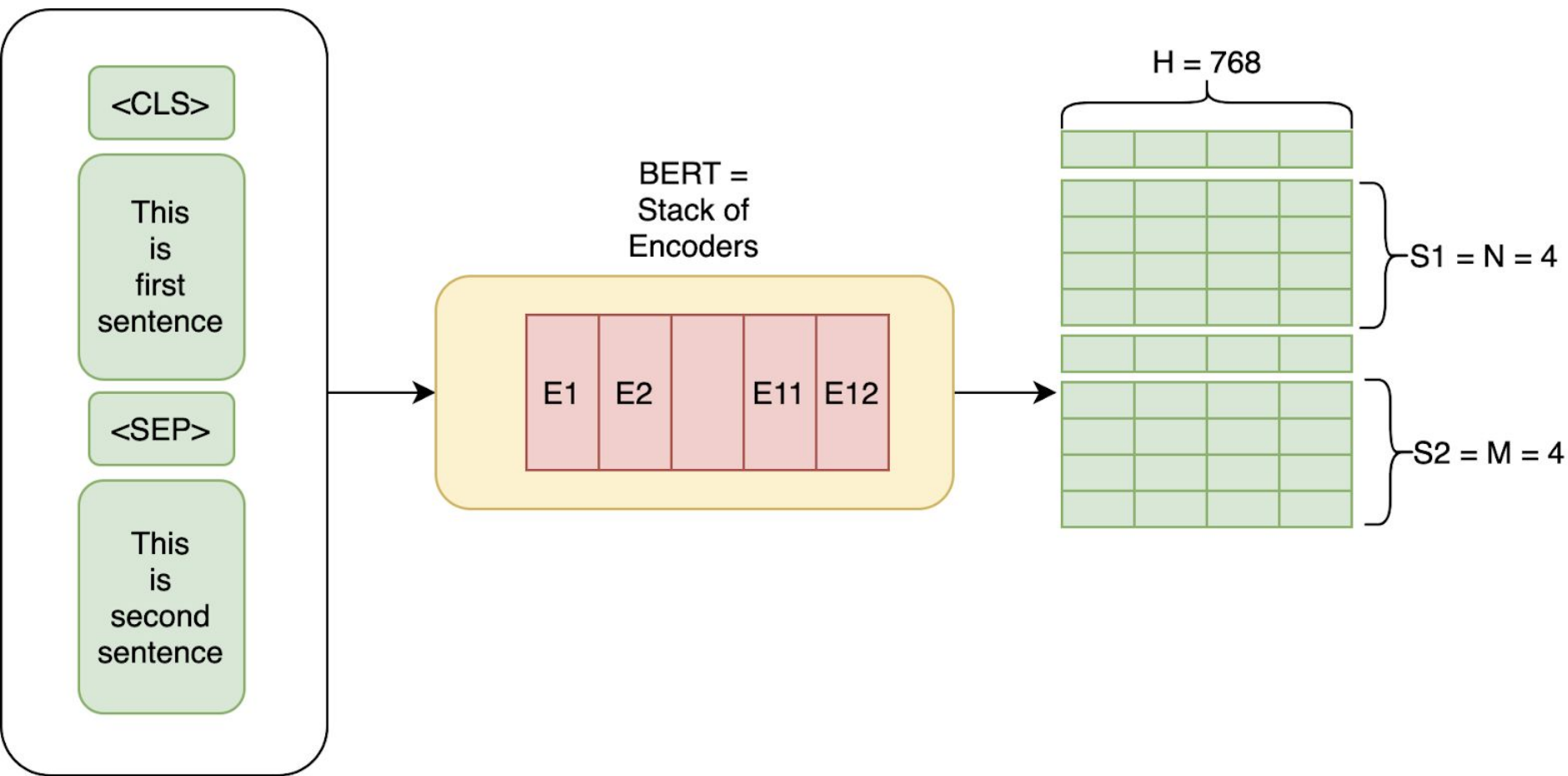
- Infrastructure
- Sentence Embeddings

We got a server for you...

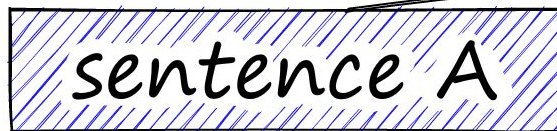
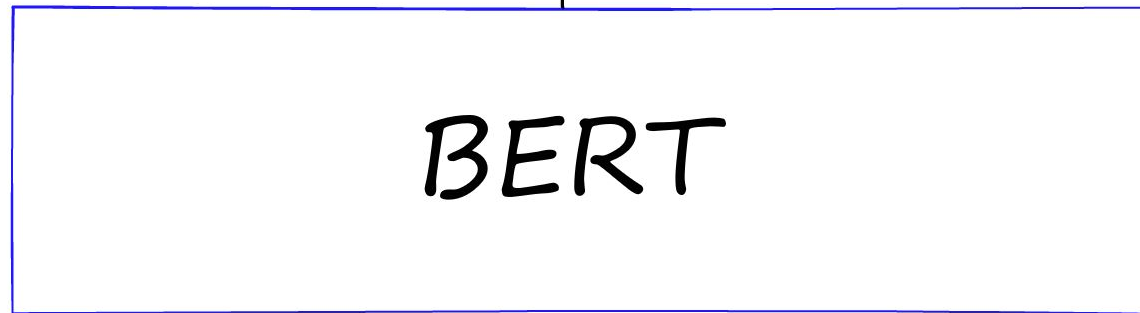
- Please copy your ssh keys into the .ssh directory
- We will go through the procedure together
- Bonus: Jupyter Notebooks

Sentence Embeddings

- Transformers use tokenized embeddings
- How do get meaningful sentence representations?
- Simply aggregating tokenized embeddings is not powerful enough



similarity $[0 > 1]$



Problem with this approach

- Computing similarity this way is actually more performant than current approaches
- 100k Observations → 500 Mio Comparisons
- We could also use the CLS token, which serves as a sequence representation for classification tasks, but performance is usually bad
- Solution: SBERT
- Actually produces useful sentence embeddings

NLI Dataset

P^a	A senior is waiting at the window of a restaurant that serves sandwiches.	Relationship
H^b	A person waits to be served his food.	Entailment
	A man is looking to order a grilled cheese sandwich.	Neutral
	A man is waiting in line for the bus.	Contradiction
^a P, Premise. ^b H, Hypothesis.		

