# Questions and Answers (Q&A):

- The model's goal is to answer a question given a specific context.
- Context: The necessary background for the Answer:
  - A document
  - A text
  - The preceding dialog in a conversation

# Models

- distilbert-base-cased-distilled-squad
- pierreguillou/bert-base-cased-squad-v1.1-portuguese
- BERT
- RoBERTa
- DistilBERT
- ALBERT

## Toy Examples

**1.Context:** The Great Wall of China was built to protect Chinese states and empires from invasions and stretches over 13,000 miles.

**Question 1:** Why was the Great Wall of China built?

**Question 2:** How long is the Great Wall of China?

**2.Context:** Beethoven became deaf in his later years but continued to compose music, including his famous Ninth Symphony.

**Question 1:** What ailment did Beethoven suffer from in his later years? **Question 2:** Did he compose the Ninth Symphony before or after becoming deaf?

# Real World Application

Nimbus Dynamics is a multinational corporation established in 1998, renowned for its advanced robotic solutions. With its main headquarters located in Zurich, Switzerland, the company also has regional offices in Tokyo, New York, and Sydney. Over the past two decades, Nimbus Dynamics has expanded its product line to include not only industrial robots but also household robotic assistants and specialized medical robots for surgery. The company's R&D division, spearheaded by Dr. Helena Rostov, has received multiple awards for its innovative designs and sustainable energy solutions. Currently, the company boasts an employee base of approximately 15,000 individuals globally and has an annual revenue of 10 billion USD. In a recent press release, Nimbus Dynamics announced its collaboration with SpaceY, intending to develop robots for space exploration.

Where is the main headquarters of Nimbus Dynamics located?

The main headquarters of Nimbus Dynamics is located in Zurich, Switzerland.

Who is in charge of the company's R&D division?

Dr. Helena Rostov is in charge of the company's R&D division.

Which company is Nimbus Dynamics collaborating with for space exploration robots?

Nimbus Dynamics is collaborating with SpaceY for space exploration robots.

```
main()
    initialize_qa_pipeline()
    get_context_and_questions()
    display_results()
```