

# Question-answering systems

## Examples

How many inches are in a mile?

Who is the leader of Zimbabwe?

What is a baby giraffe called?

# Paradigms

- information retrieval (IR)-based
- knowledge-based

## Potential components

- search/similarity
- named entity recognition
- syntactic parsing
- question (document) classification
- ...

# SQuAD

Stanford Question Answering Dataset

100,000 questions answerable via Wikipedia

50,000 unanswerable questions

<https://arxiv.org/abs/1606.05250>

<https://arxiv.org/abs/1806.03822>

## SQuAD evaluation

Goal is identify a contiguous text span answering the question.

Can be evaluated by % exact matches or F1 score on individual words.

# SOTA

<https://rajpurkar.github.io/SQuAD-explorer/>