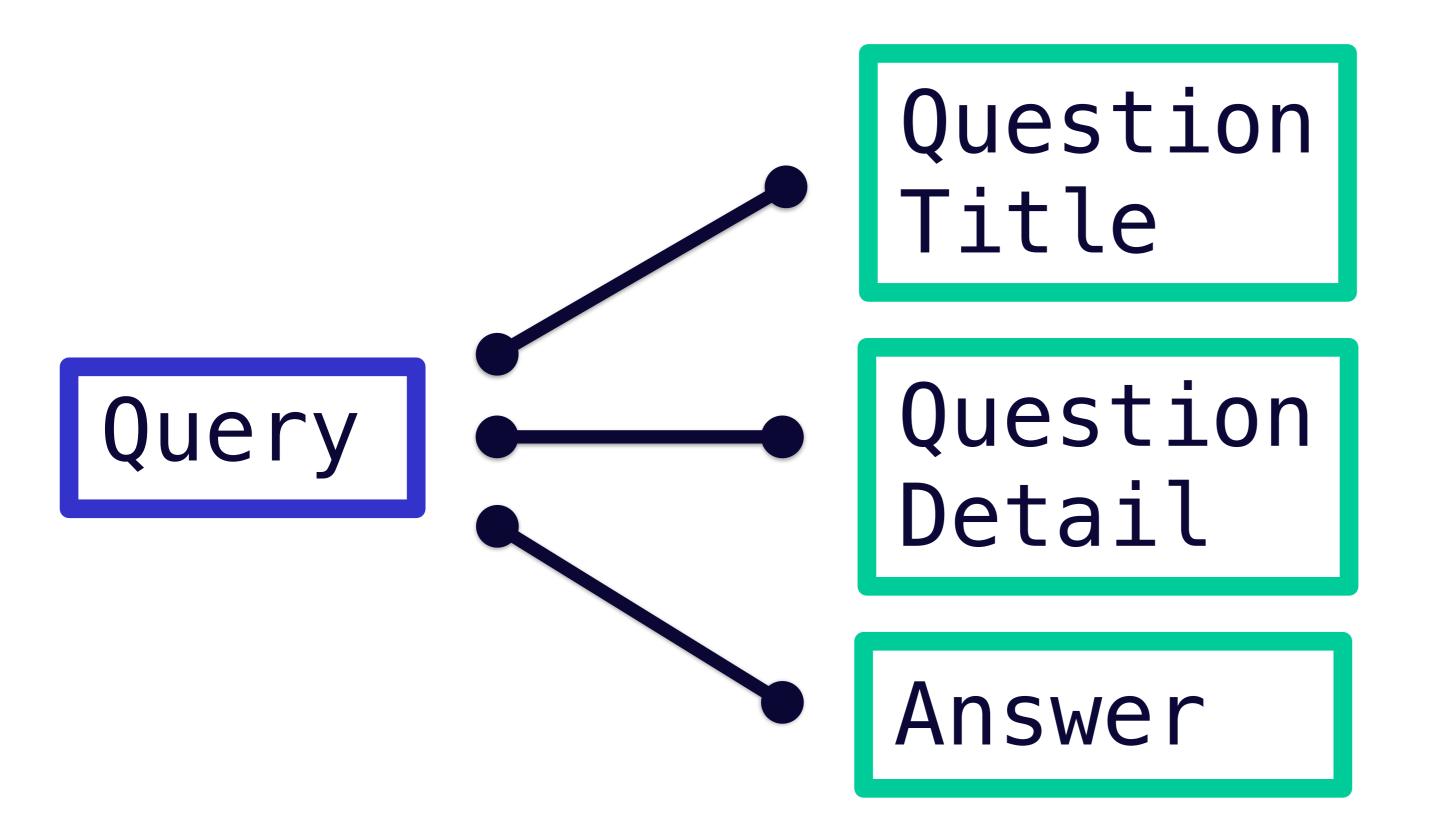
QA Search

Our goal

- >Allow users to search a set of question answer pairs.
- >See what fields and retrial techniques methods improve search in a QA context.

Baseline

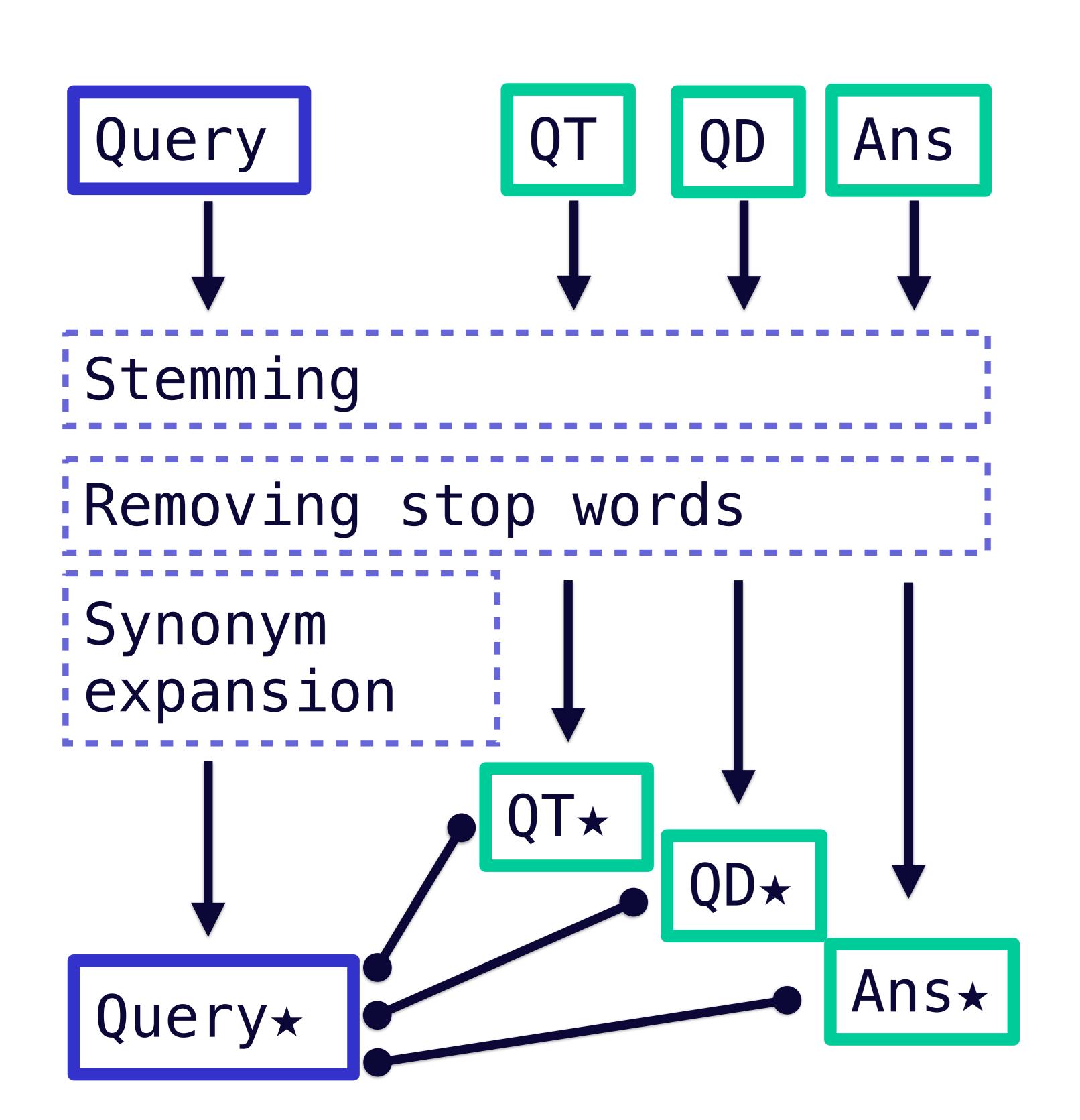
- >Elastic search on any subset of three fields.
- >Lucene practical scoring (~tf-idf & vector space model).



Advanced search

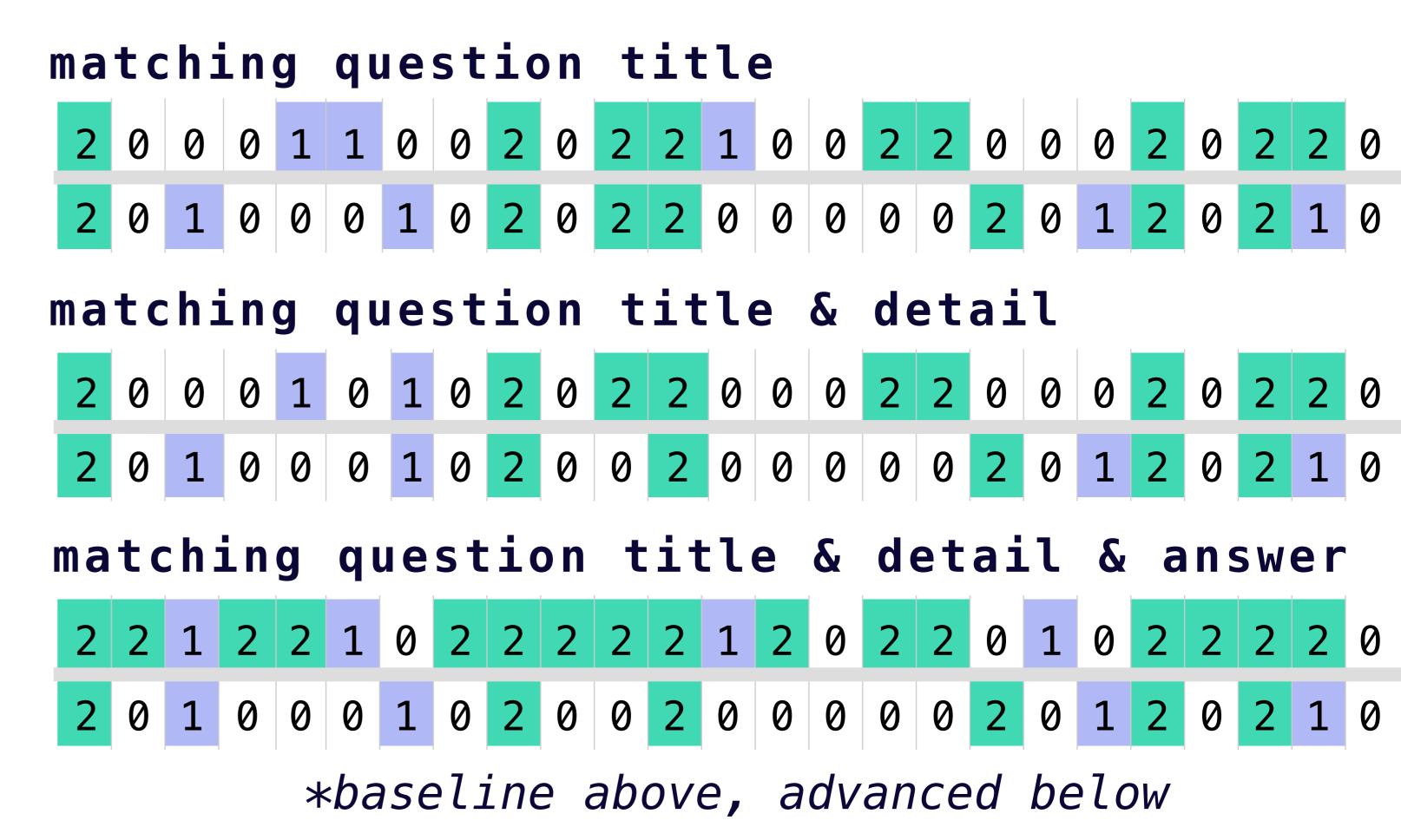
All of the above as well as:

- >Reduce words to their stems.
- >Remove stop words.
- >Expand query with synonyms (wordnet)



Evaluation

- >Take 50 random answers from the corpus.
- >Formulate new questions for each answer.
- >Query the engine and rate the returned answer w.r.t our question.
 - 0. Not relevant at all
 - 1. Same topic/somewhat relevant
 - 2. Answers the question



Results

- >Best results when querying on question & answer fields.
- >However, our evaluation method is <u>biased</u> towards the answer field.
- >Surprisingly, the advanced search methods did not produce better results in our sample.

Future work

- >Run isolated experiments on each search engine feature to better understand their implications within the QA context.
- >Develop the evaluation method.
- >Answer summarisation.