

QA Search

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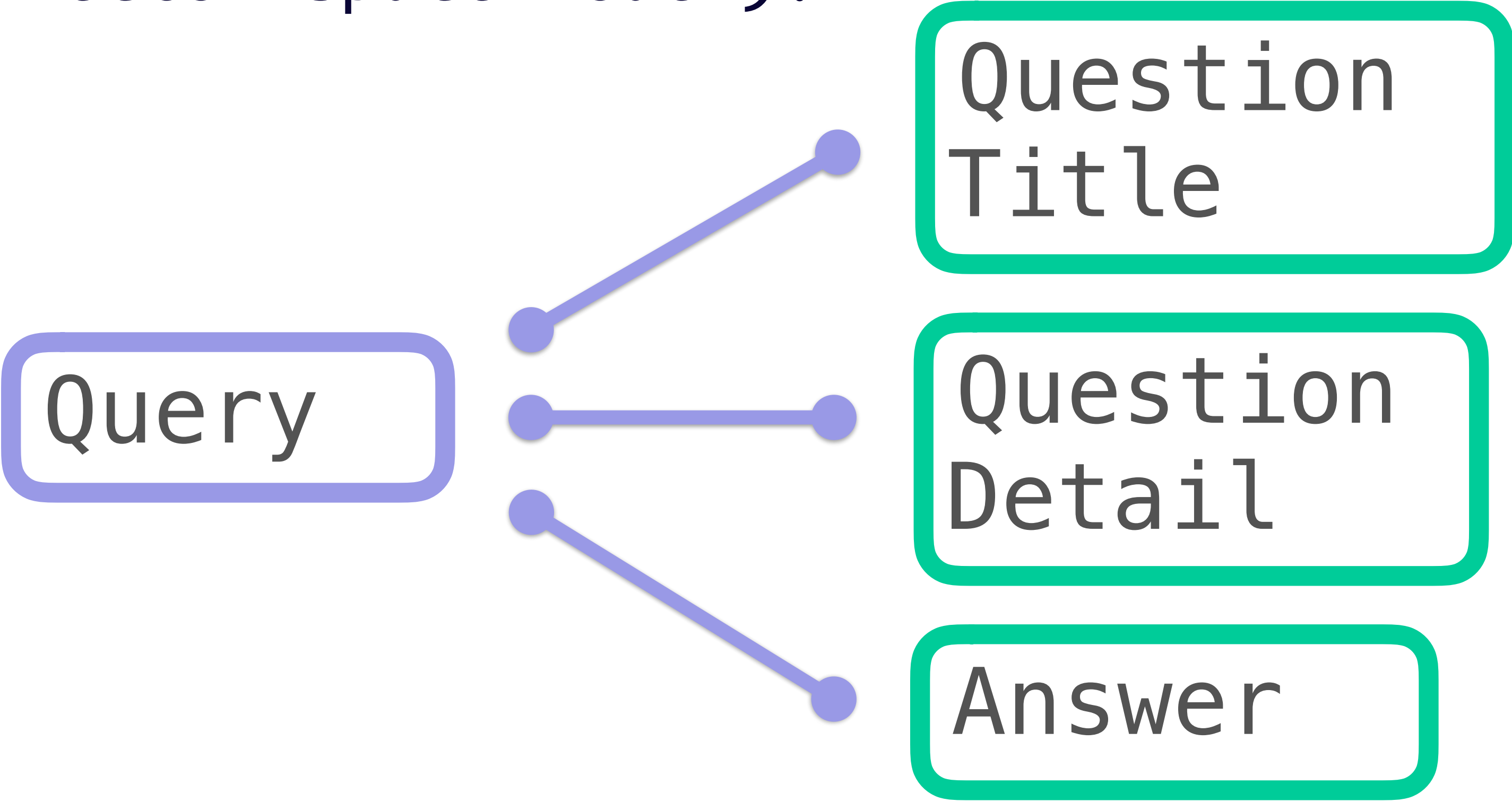
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Our goal

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

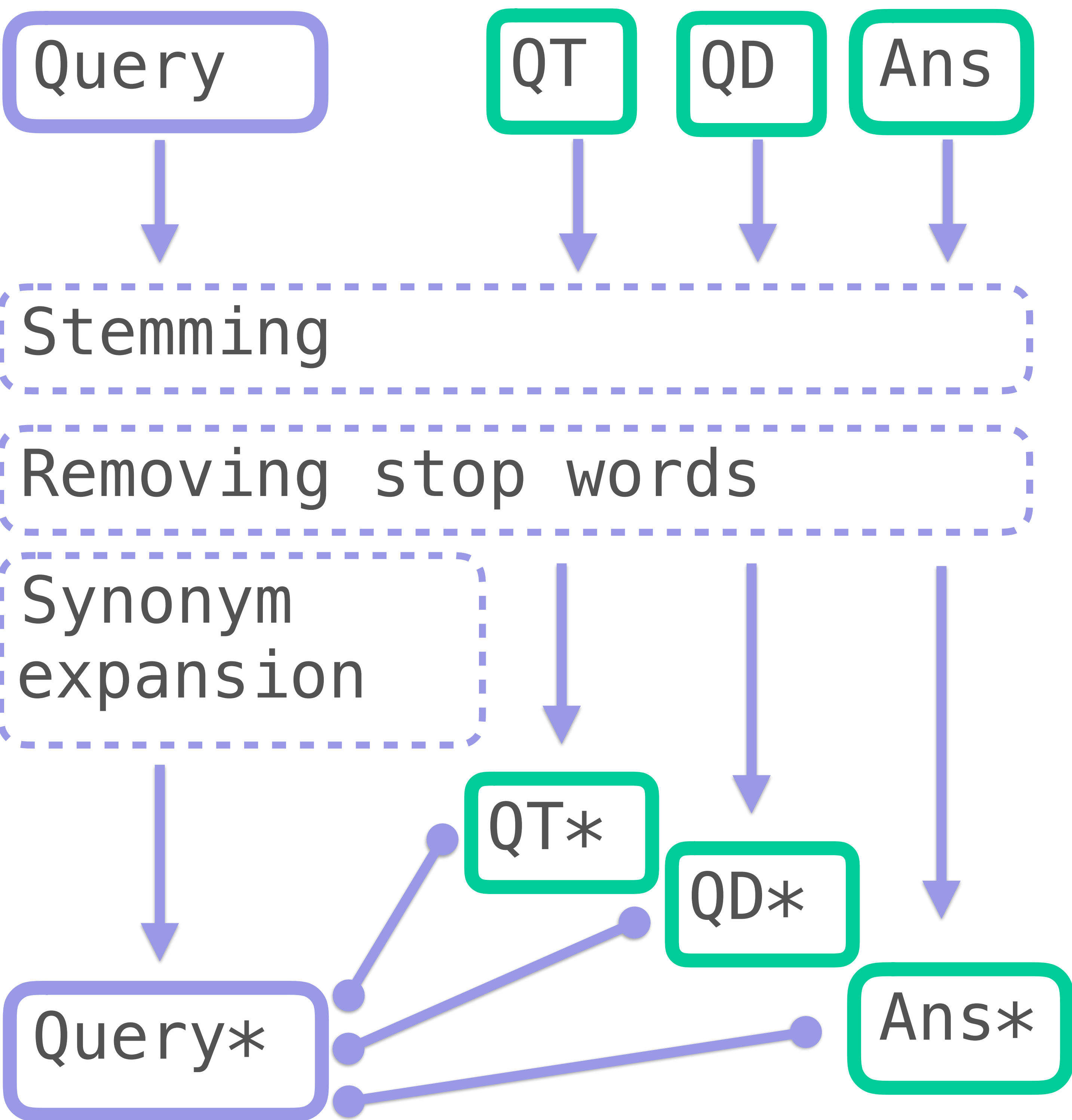
Baseline

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



Advanced search

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



Evaluation

‘Jeopardy 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.

matching question title

2	0	0	0	1	1	0	0	2	0	2	2	1	0	0	2	2	0	0	0	2	0	2	2	0

matching question title & detail

2	0	0	0	1	0	1	0	2	0	2	2	0	0	0	2	2	0	0	0	2	0	2	2	0

matching question title & detail & answer

2	2	1	2	2	1	0	2	2	2	2	2	1	2	0	2	2	0	1	0	2	2	2	2	0

**baseline above, advanced below*