Developer Documentation

Decision Records / Remove stop words during query transformation

Remove stop words during query transformation

Context and Problem Statement

When querying for a title of a paper, the title might contain stop words such as "a", "for", "and". Some data providers return 0 results when querying for a stop word. When transforming a query to the Lucene syntax, the default Boolean operator and is used. When using IEEE, this often leads to zero search results.

Decision Drivers

- Consistent to the Google search engine
- Allow reproducible searches
- Avoid WTFs on the user's side

Considered Options

- Remove stop words from the guery
- · Automatically enclose in quotes if no Boolean operator is contained

Decision Outcome

Chosen option: "Remove stop words from the query", because comes out best.

Pros and Cons of the Options

Remove stop words from the query

- Good, because good search results if no Boolean operators are used
- Bad, because when using complex queries and stop words are used alone, they are silently removed

Automatically enclose in quotes if no Boolean operator is contained

- · Good, because good search results if no Boolean operators are used
- Bad, because silently leads to different results
- Bad, because inconsistent to Google behavior

