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Solr can be integrated to **Wordpress**

Standalone search platform based in Java

Uses Lucene (as the engine) search library

Highly scalable and blazing fast

Solr uses documents rather than tables

Solr does the data normalization for you

**Relevance = tf \* idf**

Term frequency – no. of times a term shows up divided by no. of all terms.

3 times of “dog” in a 10 word sentence. = 0.3

Inverse document frequency – normalizing

How often does this term show up in documents

*Log* of the documents in the index divided by the no. of documents containing that term

**Field relevance = relevance \* sum-of-boots**

Boosts say what fields, documents, or terms are more important

Sharding = split up in different servers

Robust proximity detection

John walked to the store => John suddenly walked to the store

Due to architecture paradigm, JOIN is unavailable

Solr resource

https://lucene.apache.org/solr/guide/7\_3/installing-solr.html#directory-layout