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Tokenizer reference

adit

A tokenizer receives a stream of characters, breaks it up into individual tokens (usually individual words), and outputs a stream of tokens. For instance, a whitespace tokenizer breaks text into tokens whenever it sees any whitespace. It would convert the text "Quick brown fox!" into the terms [Quick, brown, fox!].

The tokenizer is also responsible for recording the following:

- Order or position of each term (used for phrase and word proximity queries)
- Start and end *character offsets* of the original word which the term represents (used for highlighting search snippets).
- *Token type*, a classification of each term produced, such as <ALPHANUM>, <HANGUL>, or <NUM>. Simpler analyzers only produce the word token type.

Elasticsearch has a number of built in tokenizers which can be used to build custom analyzers.

Word Oriented Tokenizers

edit

The following tokenizers are usually used for tokenizing full text into individual words:

Standard Tokenizer

The standard tokenizer divides text into terms on word boundaries, as defined by the Unicode Text Segmentation algorithm. It removes most punctuation symbols. It is the best choice for most languages.

Letter Tokenizer

The letter tokenizer divides text into terms whenever it encounters a character which is not a letter.

Lowercase Tokenizer

The lowercase tokenizer, like the letter tokenizer, divides text into terms whenever it encounters a character which is not a letter, but it also lowercases all terms.

Whitespace Tokenizer

The whitespace tokenizer divides text into terms whenever it encounters any whitespace character.

UAX URL Email Tokenizer

Thai

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Structured Text Tokenizers

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