

# Lowercase, Tokenize, Stem, and Stopword Text

## Description

Normalizes free-form text from selected columns within a given table. For example, the input text "Emergence of Scaling in Random Networks" becomes "emerg|scale|random|network" where we have chosen "|" as the character separating individual items of the list.

From this example you can follow the four normalization steps:

1. **Lowercase:** The example text becomes "emergence of scaling in random networks".
2. **Tokenize:** The text blob is split into a list of individual words. The example text becomes "emergence|of|scaling|in|random|networks".
3. **Stem:** Common or low-content prefixes and suffixes are removed to identify the core concept. The example text becomes "emerg|of|scale|in|random|network".
4. **Stopword:** Low-content tokens like "of" and "in" are removed (see [the complete stopwords list](#)). The example text becomes "emerg|scale|random|network".

## Parameters

- *Stopword List.* The plain-text file that contains the list of stopwords to use. By default, it points to the [included stopwords list](#). If an invalid file path is specified, it will again default to the included stopwords list. Stopwords are separated by line (so each line lists a single stopwords).
- *New Separator.* The character that will separate items in the output lists of tokens.
- Each individual textual column of the table can be selected or not selected for normalization.

## Applications

This algorithm can prepare the text in a table for [Burst Detection](#).

## Links

- [Source code](#)
- [Stopword list](#)

## See Also



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