



Text Analysis Using Lexos

Important Terminology

- **Corpus** (plural: corpora): a text or collection of texts that is used for analysis.
 - Example: One could create a corpus of all of Frederick Douglass's speeches to trace his language use over time.
- **nGram**: A continuous sequence of n items in a text.
 - For example, in Frederick Douglass's speeches, a bigram (or 2 continuous tokens) could be 'United States' and a trigram (3 tokens) could be 'justice for all'.
- **Stop words**: words that appear frequently in a language, like pronouns, prepositions, and basic verbs. These are often removed for computational analysis.
 - Some English stopwords include: a, the, she, he, I, me, us, of, is, would, could, should, etc.
- **Computational Text Analysis**: Text analysis is making inferences based on textual data. Computational text analysis (CTA) involves a computer drawing out patterns in a text, and a researcher interpreting those patterns. CTA includes methods such as word count frequency, nGrams, and sentiment analysis. CTA is similar to statistical analysis, but the data are texts.
- **Word Count Frequency**: Counting the total times a word appears in a text/corpus or the percentage of how often it appears.

Lexos website: <http://lexos.wheatoncollege.edu/>

What is Lexos?

Lexos is a web-based tool to help explore different corpora of digitized texts. Lexos provides a workflow of practices to help you be cognizant of choices you are making. For Lexos, separate .txt files are required.

Lexos provides a step-by-step guide for corpus uploading, preparation, and analysis.

Using Lexos:

1. Upload
 - a. Upload your corpus
 - b. Click "Browse" and select your entire corpus
2. Manage



- a. Make sure all documents in the corpus you want to use are selected.
 - i. Blue = selected
 - ii. Gray = not selected
3. Prepare
 - a. Click “Prepare” and then “Scrub,” which transforms the text in your corpus and makes choices that will impact your results. Some possibilities:
 - i. Make all your letters lowercase (the computer reads upper and lower case letters as two separate characters).
 - ii. Remove punctuation, which may influence results.
 - iii. Remove a list of words, usually stopwords.
 - b. Once you have finished your text preparations, click “Apply” and wait a few minutes.
 - c. You can also download your corpus with the transformations you chose applied for use with other text analysis tools.
4. Visualize
 - a. Click “Visualize” and a drop down of visualization choices will appear.
 - b. Click “Word Cloud” to visualize a word cloud across the entire corpus.
 - c. Click “Multi Cloud” to visualize word clouds for each individual text.
 - d. “Rolling Window” allows you to look at word trends across **one** document.
5. Analyze
 - a. The “Analyze” tab provides a drop down menu of more analytical options for analyzing your texts.
 - b. This includes comparing texts through functions like “Top Words” and “Similarity Query.”
6. This is just a sample of the wide variety of tools Lexos offers for exploration.