

# Lexical Sentiment Analysis

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Version JavaSE 23

## Description

The following programme is a simple sentiment analysis application for files chosen by the user.

Users input the text and lexicon directory of their choice to analyse. These lexicons should have a collection of words and the rating for whether said words are positive, negative, or neutral. It is against this that the overall emotion of texts will be evaluate. This project inputs the texts into a set and a lexicon into a map data structure, these lexicons are then assigned to a key and its given value (rating).

## To Run

The programme is run from the console when deployed from the ie.atu.sw.Runner class . A menu will be displayed showing 5 options the user can choose. The user must choose a valid file directory to be analysed, to name the file the texts will be outputted to and the file directory of a lexicon the users wish to analyse the texts upon. If any inputs are invalid, users will have to choose the option again and then set it, else the programme will shut down. It's also important to note that the sentiment analysis will only continue when the input files and output names are all set; if not set, it will run the options in order of not set. Additionally, the application compares exact words from the text data against the lexicon, thus does not account for the suffix of words i.e. walk vs walking.