# TextAnalyzer class

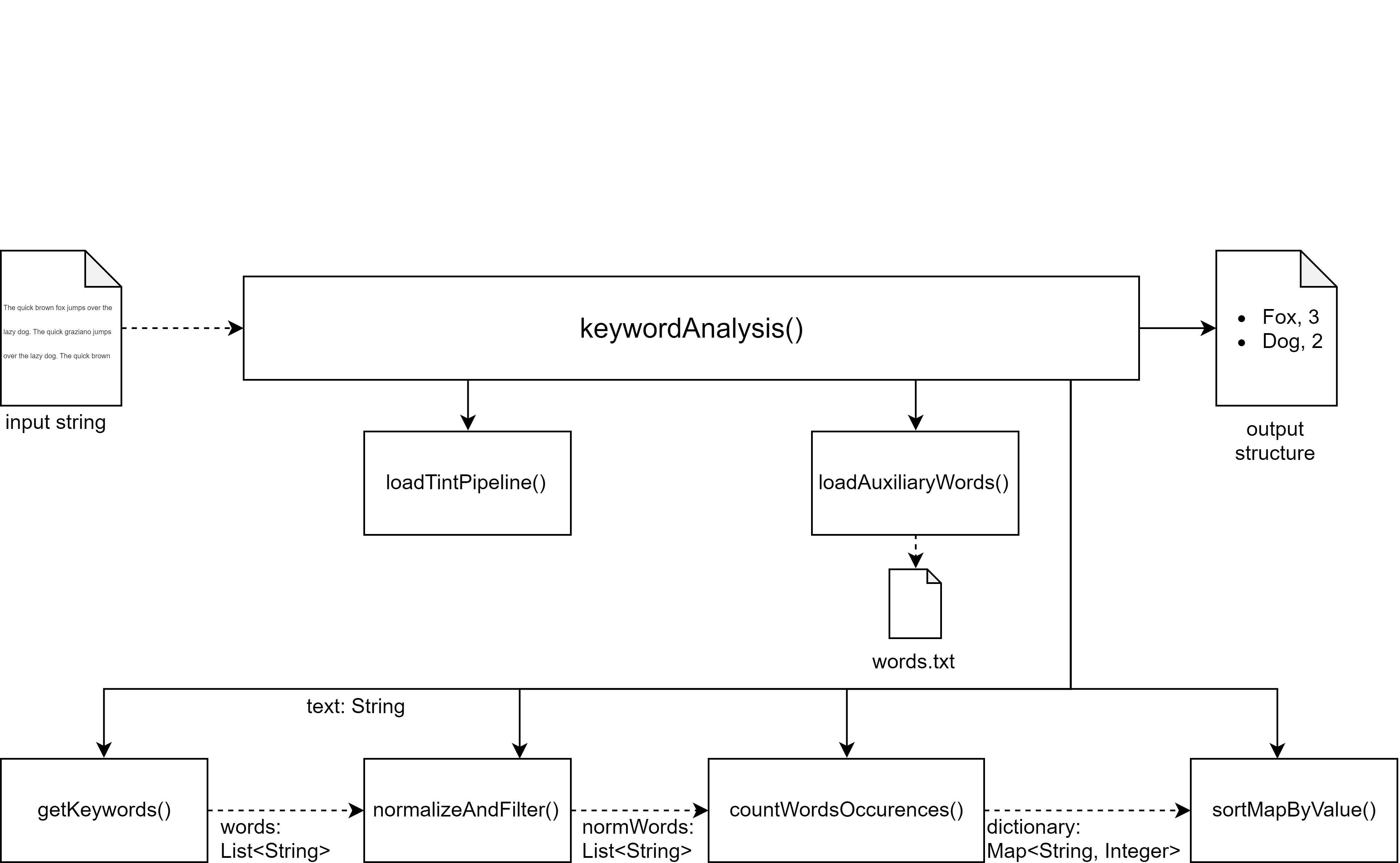
TextAnalyzer class contains the methods for analyzing a text and extracting its keywords and their number of occurrences within the text. Keywords are proper or common nouns: each verb, adjective and other parts of the speech are not considered, since they don’t define the content of an article.

This class contains only one public static method, that is keywordAnalysis(). It takes a string as a parameter, and it will call some other functions to return the list of all the keywords, together with their occurrences, sorted by number of occurrences.

TextAnalyzer exploits a NLP (Natural Language Processing) framework, called Tint (The Italian NLP Tool), based on Stanford CoreNLP. This framework provides useful methods for the recognition of the role of a word within a sentence, and it’s designed for the Italian language.

A scheme representing the function calls for keywordAnalysis() is the following:

## Scheme



## keywordAnalysis() method

## loadTintPipeline() method

## loadAuxiliaryWords() method

## getKeywords() method

## normalizeAndFilter() method

## countWordsOccurrences() method

## sortMapByValue() method