

## Introduction

The code is based on Python3.5. To run this project, the current computer needs to install Python3.5 or higher Python Version.

There are three .py programs in the root directory: ged.py contains the method of global edit distance, ns.py contains the method of neighbourhood search, ngram.py contains the method of n-gram distance.

## Compilation

Run three .py programs in IDLE (windows) or in command directly.

## Files

In the root directory, ged.py, ns.py, ngram.py are three executable scripts; data file includes misspelled.txt, correct.txt and dictionary.txt; Results file includes the output of every method.

## Output

The output of each method is stored in the Result file, and gedResult is the output of global edit distance method, nsResult is the output of neighbourhood search method, 2-gramResult is the output of 2-gram distance method, 3-gramResult is the output of 3-gram distance method.

In each result file, the first part is the output of every prediction, and the format is as follows:

Misspelled Word: (represents current misspelled word)

Correct Word: (represents current correct word)

Predicted Word: [] (contains all predicted words)

Score: x of y (x is 0 or 1 representing whether predict correctly; y is the number of all predicted words)

\*\*\*\*\* (separator)

In the end of each file, Precision and Recall are calculated of this method.