

Creative Computing 227 Assignment 2 : 2009-10

Information Retrieval

- A. You are provided with a dictionary of 1000 words¹. Your task is to write a program which reads an input word from the user, and checks its spelling against the dictionary; if the word is in the dictionary, then information to that effect should be presented to the user; if it is not in the dictionary, your sketch should present candidate words from the dictionary that are likely to be considered corrections of the misspelt entered word. You may wish to think of this task as searching for similarity of some kind across a database of items.

You may use *Processing*, *Octave* or *Java* for this part; if you want to use something else, write (well in advance of the deadline) to ask. As your submission to this part, include source code to your program and a short (less than one A4 page) description of how it works and how you tested it.

[40%]

- B. Design and implement a *Processing* sketch which acts as a visualization of a small (between 10 and 100) collection of images. You must provide some means of navigation through the collection, and must show some information about the images in addition to simply displaying them.

As your submission to this part, include your *Processing* sketch code, any source materials along with origin and attribution, and a short (less than one A4 page) description of what your sketch is intended to show, how the navigation through the collection works, and how successful you think your visualisation is.

[60%]

The deadline for this coursework is **Friday 26th March 2010**. Sketches must be submitted electronically using the folder named '2' in the 'CC227-assignments' directory in your homepage on *igor* (or the G: drive); written components may be submitted electronically (in plain text or Portable Document Format **only**) or as hardcopy. Your submissions will be assessed for how successfully they fulfil their briefs, the technical content of the programs, the clarity of your written descriptions, and any added value.

¹The 1000 most common wordforms in UK English, based on 29 works of literature by 18 authors (4.6 million words) and Rosengren's modified frequency. <http://www.bckelk.ukfsn.org/words/uk1000.html>