Applied Textmining

Sixth Assignment

Please update the code from the GIT repository at *https://github.com/dimalabs/applied-textmining* by pulling the latest version of the project. to accomplish that simply type the following line into *GIT Bash*:

```
git pull
```

Then have a look at *de.tuberlin.dima.textmining.assignment6.WordReplacementTest.* There is a unit test that does nothing at the moment.

1 Wordnet Synonym Substitution

Have a look at *de.tuberlin.dima.textmining.assignment6.WordReplacement.* Here implement a method that replaces every 5th word in every sentence for the given text from assignment 3 by searching a synonym. If a chosen word has no synonym, the next word in the sentence should be replaced. The synonym, as one word can have several synonyms, should be chosen randomly. The method `getSynonyms` in the class `WordReplacement` generates all synonyms for a noun by using RitaWordnet, a Java API for the Wordnet Ontology. The functions for a verb v , an adjective a or an adverb r are similar. For this reason the two jars ritaWN.jar and supportWN.jar are added. Difficulties could occur by substituting a verb with the right verb form. You should also have a look at *de.tuberlin.dima.textmining.assignment6.ShallowSentence*, where the method `transformSentences` converts ShallowSentences in a String. Marking the replaced words would be desirable.

Deadline

Because this assignment was posted late, you have time until 30th of November 2011 to upload your solution as a patch in the ISIS system .