

CS 6320
Homework #4
Word Sense Disambiguation
Professor Moldovan
Due April 12, 2017 before class

Using WordNet as the dictionary, implement the SIMPLIFIED LESK algorithm for Word Sense Disambiguation for all the nouns in WordNet.

```
function SIMPLIFIED LESK(word, sentence) returns best sense of word

  best-sense ← most frequent sense for word
  max-overlap ← 0
  context ← set of words in sentence
  for each sense in senses of word do
    signature ← set of words in the gloss and examples of sense
    overlap ← COMPUTE OVERLAP(signature, context)
    if overlap > max-overlap then
      max-overlap ← overlap
      best-sense ← sense
  end
  return(best-sense)
```

What to submit:

1. Source code with readme file.
2. A report with 3 examples of words in short sentences. 2 positive results and 1 negative results.

Example commend line:

Python Lesk.py <word> <sentence>