LIN570: HW2 – sbd (100pts)

YOUR NAME (UW NetID)

Due date: 11pm on Oct 15, 2018 (Tuesday)

Rubric:

2pts hw.tar.gz submitted, it should contain following files:

- file.sbd.system
- file.tok.system
- f1_score_sbd.sh
- f1_score_tok.sh
- file.sbd.score
- file.tok.score

2pts readme.txt or readme.pdf submitted

6pts All files and folders are present in expected locations

10pts Programs run to completion

 ${f 5pts}$ The output of programs on patas match submitted output

- 1. (10pts) using SPLITTA¹ obtain SBD results:
 - python2 sbd.py file.txt > file.sbd.system
- (40pts) Implement a script to calculate a F₁ score f1_score_sbd.sh for sentence boundary detection
 - The command line is: cat file.sbd.system | ./f1_score_sbd.sh file.sbd.gold > file.sbd.score
 - Minimum in-line comments should be provided.
- 3. (25pts) Modify your script to calucate a F₁ score fl_score_tok.sh for tokenization
 - The command line is:
 - cat file.sbd.system | ./eng_tokenizer.sh abbrev_list > file.tok.system
 (eng_tokenizer.sh and abbrev_list are from HW1)

¹https://github.com/lukeorland/splitta

- cat file.tok.system | ./f1_score_tok.sh file.tok.gold > file.tok.score
- Minimum in-line comments should be provided.

	system	gold	
The	S-SENT	S-SENT	$\leftarrow \texttt{tp}$
luxury	O	O	
year	O	O	
sold	O	O	
1,214	O	O	
cars	O	O	
in	O	O	
the	O	O	
U.S.	S-SENT	O	$\leftarrow \mathtt{fp}$
Howard	O	S-SENT	$\leftarrow \mathtt{fn}$
Mosher	O	O	
,			

- See also conlleval² for the F₁ score used at the CoNLL-2000 shared task data (Chunking).
- parentheses, brackets, etc in the Penn treebank (file.tok.gold):

```
# s/(/-LRB-/g
```

• - raw:

"From the beginning, it took a man with extraordinary qualities to succeed in Mexico," ..

- tokenized:

'' From the beginning , it took a man with extraordinary qualities to succeed in Mexico ,

[#] s/)/-RRB-/g

[#] s/\[/-LSB-/g

[#] s/\]/-RSB-/g

[#] s/{/-LCB-/g

[#] s/}/-RCB-/g

²https://www.clips.uantwerpen.be/conll2000/chunking/output.html