

OntoNotes English Treebanking – Y3

2009-02-24









Treebanking – Year 3 (Ann Taylor)



Newly Parsed (new NML & hyphen styles)		
Eng-from-Ara Web	55,279	
Eng-from-Chi Web	41,694	
P2.5	140,322	
TOTAL	237,295	

Style Updated (Hyphens and/or NMLs)			TOTAL
ВС	151,267	Hyphens	
BN	220,174	Hyphens	428,499
ЕСТВ	57,058	Hyphens	
WSJ300	352,957	Hyphens & NMLs	889,409
WSJ400	536,452	Hyphens & NMLs	

Intra-Annotator Treebanking Experiment



- Q: How consistent is human syntactic annotation?
- Experiment:
 - Ann Taylor selected at random 23 files from BN she annotated in Y2 (6K words total).
 - The texts were re-parsed with a parser trained only on WSJ.
 - (7 sentences were skipped, due to retokenization during first annotation pass, yielding 223 re-parsed sentences, 4200 brackets.)
 - Ann re-corrected the texts.
 - evalb was run on new texts, given old texts as gold standard.
 - Separately, Ann used sdiff to find & examine all differences

Results of evalb on all sentences



Bracketing Recall: 98.4

Bracketing Precision: 98.5

• Tagging Accuracy: 98.7

(Ann corrects wrong tags as she goes.)

Mis-tagging seems to cause mis-parsing



- No tagging inconsistencies: 182 sentences
 - No bracketing inconsistencies of these: 161 (88%)
- Tagging inconsistencies: 41 sentences
 - No bracketing inconsistencies of these: 26 (63%)

Error Analysis using *sdiff*



- 146 sentences categorized for inconsistencies
- 176 disagreements total
 - Many of these aren't evalb errors
- For 52 of these, Ann not sure which was "right"
- Primary cause of disagreements (some multiple)
 - POS Tag differences: 70*
 - Dash-tag differences: 35*
 - Attachment differences: 23
 - Coindexing differences: 11*
 - Node label different: 9
 - Extra node: 8
 - Other: 8
 - Missing node: 7
 - Empty category: 5*

*: Not an evalb error