

# Linking the ERG lexicon and English WordNet

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# Aim: full ERG lexical coverage of WordNet entries

- Do better linguistics for the core and the periphery  
Lexical idiosyncrasy, multi-word expressions
- Reduce limitations on generation  
Difficult to predict lexical type from predicate  
Stemming ambiguous: *\_devined/VBD\_u\_unknown*
- Reduce dependence on imperfect POS-taggers for parsing  
97% word-accuracy: 56% sentence-accuracy (Manning:2011)  
With 44K manual lexicon, still 9500 unknowns in WSJ
- Provide stable basis for word-sense tagging of corpora  
*\_cleverness/NN\_u\_unknown* vs *\_ingenuity\_n\_1*



# Challenges

- Size: 155K words in 176K synsets, 207K word-sense pairs
- Mismatches between WordNet entries and lexemes
- Exclusion of proper names? If so, what criteria?
- Naming semantic predicates: grammatically distinct senses



# Possible risks

- Some processing engines/tools might balk at 150K lexicon
- Parse selection model may do worse on (rarer) unknown words

