

Homework #6

HW #6

- Compositional Semantics:
 - Part 1: Create **event-style** semantic representations
 - Part 2: Create semantic attachments to reproduce
 - Uses `nltk.parse.FeatureChartParser`
 - Printing semantic representations:
 - `Tree.node['SEM'].simplify()`
- Note: Lots of ambiguities (scope, etc)
 - Just produce one

Semantic attachments

- Added to typical CFG rules
 - Basic approach similar to HW #5
 - Composing semantics:
 - $S[SEM=<?np(?vp)>] \rightarrow NP[SEM=?np] VP[SEM=?vp]$
 - Creating lambdas:
 - $IV[SEM=<\lambda x.bark(x)>] \rightarrow \text{'barks'}$
 - Nested lambdas:
 $\lambda x.\lambda y.$ Etc $\rightarrow \lambda x y.$
- Other examples: <http://www.nltk.org/book/ch10.html>:
esp. Section 10:4