

CG136: Computational Linguistics

PCFG homework exercises

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due 2nd May, 2006

The Inside-Outside Algorithm for PCFGs

- Please implement the *Inside-Outside* algorithm for computing the expected number of times binary productions are used
- Use the general algorithm described in the class notes (week 10)
- Please use your program to calculate the *expected number of times each binary production is used* in the analysis of the strings
 - *time flies like an arrow*
 - *time green flies like an arrow*
 - *colorless green ideas sleep furiously*

using the binary rules E1BRules and lexicon ELex in cky.py